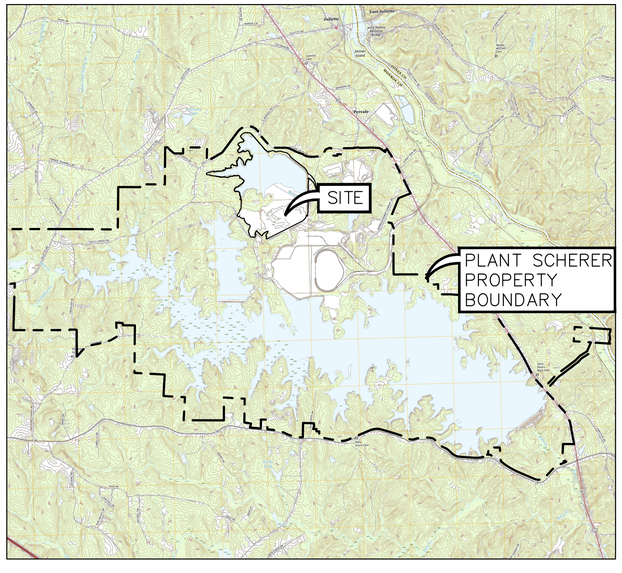
CCR CLOSURE PERMIT DRAWINGS

FOR

GEORGIA POWER
PLANT SCHERER ASH POND-1

MONROE COUNTY, GEORGIA
NOVEMBER 2018



PROJECT SITE LOCATION

SCALE 5,000 0 5,000 10,000 FEET

N

OWNER/OPERATOR

GEORGIA POWER COMPANY
241 RALPH MCGILL BOULEVARD
ATLANTA, GEORGIA 30308

RESPONSIBLE OFFICIAL

ROBERT W. SCHERER ELECTRIC GENERATING PLANT
10986 GEORGIA HIGHWAY 87
JULIETTE, GEORGIA 31046

REVISION HISTORY

DATE	SHEETS	REQUESTED BY
MM/DD/YY		
MM/DD/YY		
MM/DD/YY		

AECOM
1600 PERIMETER PARK DRIVE, SUITE 400
MORRISVILLE, NC 27560
(919) 461-1100

GEORGIA REGISTERED No. PE040622 PROFESSIONAL ENGINEER DOUGLAS W. CARR
11/14/2018

PERMIT DRAWING - NOT FOR CONSTRUCTION

Georgia Power

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_01 Title Sheet.dwg User:Mcavinewa Nov 16, 2018 - 9:25am

DRAWING INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	MASTER LEGEND & ABBREVIATIONS
3	OVERALL SITE PLAN
4	EXISTING CONDITIONS PLAN
5	GROUNDWATER MONITORING LOCATIONS
PBS/LD-1 OF 3	PROPERTY BOUNDARY SURVEY (1 OF 3)
PBS/LD-2 OF 3	PROPERTY BOUNDARY SURVEY (2 OF 3)
PBS/LD-3 OF 3	PROPERTY BOUNDARY SURVEY (3 OF 3)
6	PROPOSED OVERALL CLOSURE PLAN
7	APPROXIMATE NORTH AREA EXCAVATION PLAN
8	NORTH AREA EXCAVATION SECTIONS
9	PROPOSED NORTH BERM OVERALL GRADING PLAN
10	PROPOSED NORTH BERM PLAN & PROFILE I
11	PROPOSED NORTH BERM PLAN & PROFILE II
12	NORTH AREA GRADING PLAN
13	PROPOSED FINAL COVER GRADING PLAN
14	PROPOSED ALTERNATIVE FINAL COVER PLAN
15	PROPOSED ASH POND CROSS SECTIONS I
16	PROPOSED ASH POND CROSS SECTIONS II
17	SOUTHWEST OUTLET CHANNEL PLAN & PROFILE
18	CONSTRUCTION SEQUENCING PLAN I
19	CONSTRUCTION SEQUENCING PLAN II
20	CLOSURE SYSTEM DETAILS I
21	CLOSURE SYSTEM DETAILS II
22	CLOSURE SYSTEM DETAILS III
23	MISCELLANEOUS DETAILS I
24	MISCELLANEOUS DETAILS II
25	MISCELLANEOUS DETAILS III
26	EROSION CONTROL DETAILS I
27	EROSION CONTROL DETAILS II
28	EROSION CONTROL DETAILS III

LEGEND (PLAN VIEW)

PROPOSED	EXISTING	DESCRIPTION
630	630	MAJOR CONTOUR INTERVAL
629	629	MINOR CONTOUR INTERVAL
N/A		SITE VEGETATION BOUNDARY
N/A	X X X	FENCE
N/A	OE OE OE	OVERHEAD ELECTRIC LINE
N/A	UE UE UE	UNDERGROUND ELECTRIC LINE
N/A		UTILITY POLE
		PIPES/CULVERTS
LOD LOD	N/A	LIMITS OF DISTURBANCE
N/A		EDGE OF WATER
WTL WTL	N/A	EROSION CONTROL WATTLE/SILT SOCK
		TURBIDITY CURTAINS/BOOM
N/A	N/A	GRADING/DRAINAGE FLOW PATH
N/A		TREE
		ROADWAY EXTENTS (UNPAVED)
N/A		ROADWAY EXTENTS (PAVED)
	N/A	RIP RAP
N/A		BUILDINGS, STRUCTURES
N/A	OE OE OE OE OE OE	TRANSMISSION TOWER
N/A		RAIL ROAD TRACKS
N/A		GUARDRAIL
	N/A	GEOMEMBRANE LINER EXTENTS
FM FM	FM FM	FORCE MAIN
SF SF	SF SF	SILT FENCE
GAS GAS	GAS GAS	GAS LINE
N/A		PROPERTY LINE
N/A		WETLANDS
N/A		100-YEAR FLOODPLAIN LIMITS
N/A		PERMIT BOUNDARY SURVEY LIMITS
N/A		PLANT OPERATIONS BOUNDARY
N/A		ASH POND LIMITS

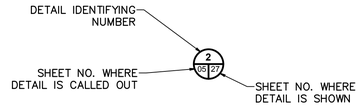
LEGEND (SECTION/PROFILE VIEW)

PROPOSED	EXISTING	DESCRIPTION
		EXISTING OR FINISHED GRADE
		WATER LINE
	N/A	CUT
	N/A	FILL
	N/A	RIPRAP
	N/A	NO. 1, 2, 57, 7, OR 8 STONE
	N/A	CONCRETE
		WATER LEVEL

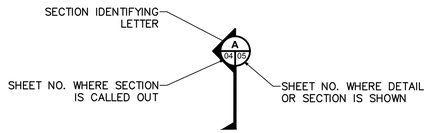
BORING/SURVEY SYMBOLS

PROPOSED	EXISTING	DESCRIPTION
N/A	SGWC-XX	CCR MONITORING WELL

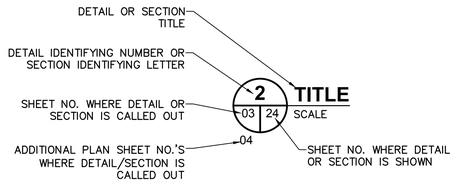
DETAILING & SECTION IDENTIFICATION NOMENCLATURE



DETAIL REFERENCE ON SHEET WHERE DETAIL IS CALLED OUT



SECTION REFERENCE ON SHEET WHERE SECTION IS CALLED OUT



DETAIL OR SECTION, NUMBER OR LETTER & TITLE ON SHEET WHERE DETAIL OR SECTION IS SHOWN

THE NORTH ARROWS IN THIS PLAN SET ARE IN REFERENCE TO THE GEORGIA STATE PLANE COORDINATE SYSTEM (NAD83).

NORTH ARROW

ABBREVIATIONS

CURTAILMENT / ACRONYM	DESCRIPTION
@	AT
AC	ACRE
CBMPP	CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN
CCR	COAL COMBUSTION RESIDUALS
CONC	CONCRETE
DIA	DIAMETER
DIPS	DUCTILE IRON PIPE SIZE
DR	DIMENSION RATIO
ECM	EROSION CONTROL MAT
EL, ELEV	ELEVATION
EQ	EQUALIZATION
ETC	ENGINEERED TURF COVER
EX	EXISTING
GDOT	GEORGIA DEPARTMENT OF TRANSPORTATION
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ, H	HORIZONTAL
ID	INNER DIAMETER
INV	INVERT
LF	LINEAL FEET
LLDPE	LINEAR LOW DENSITY POLYETHYLENE
MAX	MAXIMUM
MIN	MINIMUM
NDPES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NPWL	NORMAL POND WATER LEVEL
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTER DIAMETER
OHWL	ORDINARY HIGH WATER LEVEL
OZ	OUNCES
PS-#	PUMP STATION NUMBER
STA	STATION OR STATIONING
SY	SQUARE YARDS
TRM	TURF REINFORCEMENT MATTING
TYP	TYPICAL
VERT, V	VERTICAL
WSE	WATER SURFACE ELEVATION
WTS	WATER TREATMENT SYSTEM

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

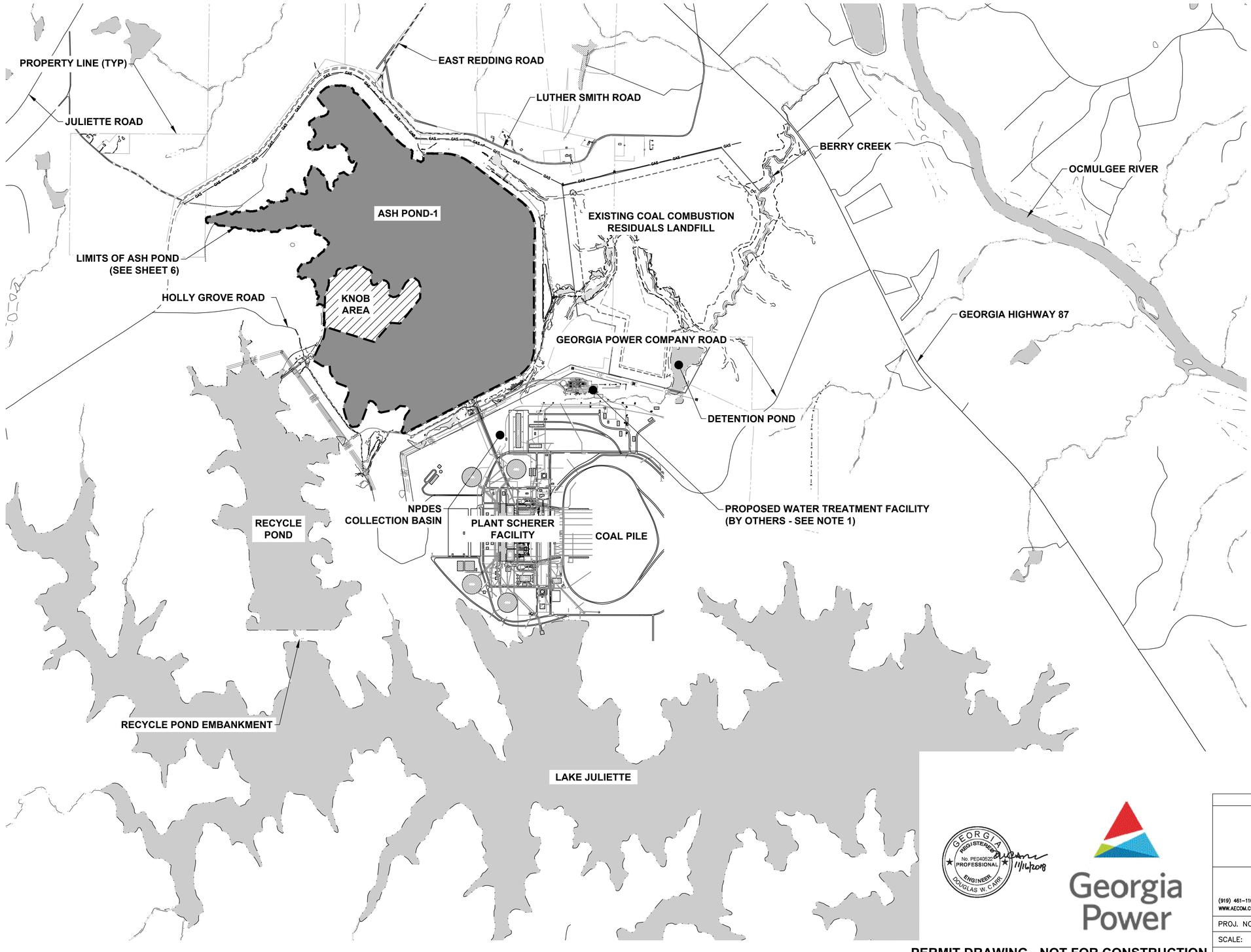
MASTER LEGEND & ABBREVIATIONS

CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

AECOM
(919) 461-1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: NONE	SHEET 2 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_02 Master Legend.dwg User:Mcavinewa Nov 16, 2018 - 9:25am



NOTES

1. THE DESIGN AND CONSTRUCTION OF THE WATER TREATMENT FACILITY ARE BY OTHERS. THE WATER TREATMENT FACILITY IS NOT PART OF THIS PROJECT.

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

PERMIT DRAWING - NOT FOR CONSTRUCTION

Georgia Power

OVERALL SITE PLAN

CCR CLOSURE

FOR

GEORGIA POWER

PLANT SCHERER ASH POND-1

MONROE COUNTY, GEORGIA

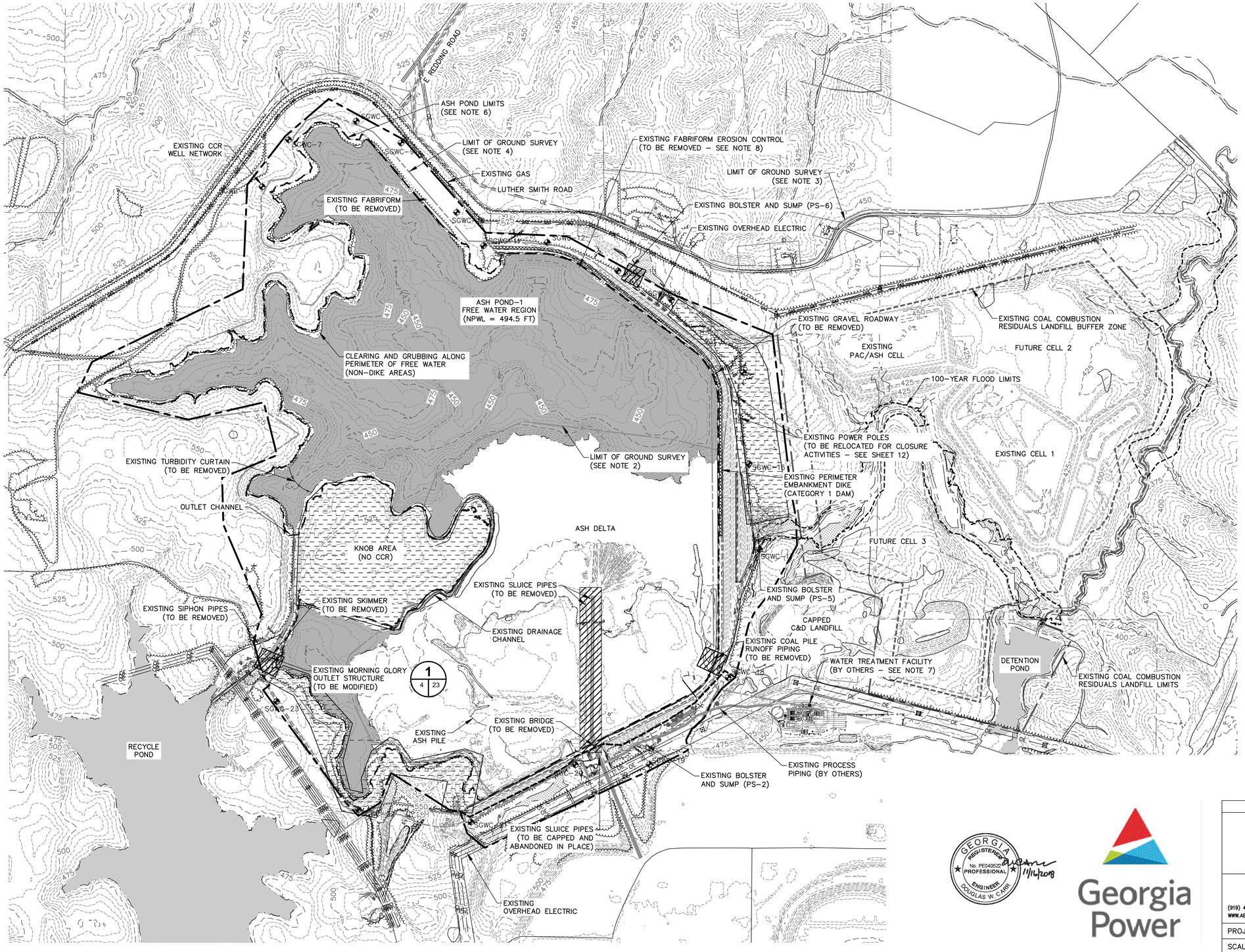
AECOM

(919) 461-1100
WWW.AECOM.COM

1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: 1"=1000'	SHEET 3 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoScherer\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_03 Overall Site Plan.dwg User:Mcavinewa Nov 16, 2018 - 9:26am



N

0 500 1000

SCALE IN FEET

LEGEND

- DEMOLITION AREA
- ROADWAY REMOVAL AREA
- CLEARING AND GRUBBING AREA

NOTES

1. BATHYMETRIC SURVEY PERFORMED BY LOWE ENGINEERING IN 2015.
2. SURVEY PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. DATED DECEMBER 7, 2015. AERIAL SURVEY DATE OF PHOTOGRAPHY OCTOBER 31, 2015.
3. CCR LANDFILL AREA AERIAL SURVEY BY METRO ENGINEERING & SURVEYING CO., INC DATED JULY 6, 2007. AERIAL SURVEY DATE OF PHOTOGRAPHY JANUARY 9, 2005 AND MARCH 19, 2007.
4. SURVEY PERFORMED BY JORDAN ENGINEERING, INC. IN MAY 2018.
5. THE LIMITS OF THE ASH POND ARE BASED ON HISTORICAL LIMITS AND THE RESULTS OF EXPLORATORY PROGRAMS COMPLETED BY AECOM AND OTHERS. THE LIMITS ARE APPROXIMATE AND ARE TO BE CONFIRMED AND MODIFIED AS REQUIRED DURING CONSTRUCTION
6. THE ESTIMATED LIMITS OF ASH ARE BASED UPON THE LIMITS OF THE ASH POND PERIMETER ELEVATION OF 500 FEET. THIS ELEVATION IS BASED UPON THE PEAK CREST ELEVATION OF THE PERIMETER EMBANKMENT AND EMERGENCY SPILLWAY CHANNEL.
7. THE DESIGN AND CONSTRUCTION OF THE WATER TREATMENT FACILITY ARE BY OTHERS. THE WATER TREATMENT FACILITY IS NOT PART OF THIS PROJECT.
8. FABRIFORM TO BE DEMOLISHED TO 1 FOOT BELOW PROPOSED CLOSURE SYSTEM SUBGRADE.
9. FABRIFORM REMOVAL SHALL NOT BEGIN UNTIL AFTER DEWATERING ACTIVITIES ARE COMPLETE.
10. PIPING REMOVED TO BE SALVAGED AND STORED PER PLANT DIRECTION.
11. MORNING GLORY SPILLWAY OUTLET DEMOLITION SHALL NOT BEGIN UNTIL AFTER DEWATERING IS COMPLETE. SEE SHEET 17.
12. ALL EXISTING PIEZOMETERS OR MONITORING WELLS THAT CONFLICT WITH PROPOSED CLOSURE ACTIVITIES SHALL BE REMOVED AND ABANDONED IN ACCORDANCE WITH GEORGIA EPD GUIDELINES AND REQUIREMENTS.

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

EXISTING CONDITIONS PLAN

CCR CLOSURE

FOR

GEORGIA POWER

PLANT SCHERER ASH POND-1

MONROE COUNTY, GEORGIA

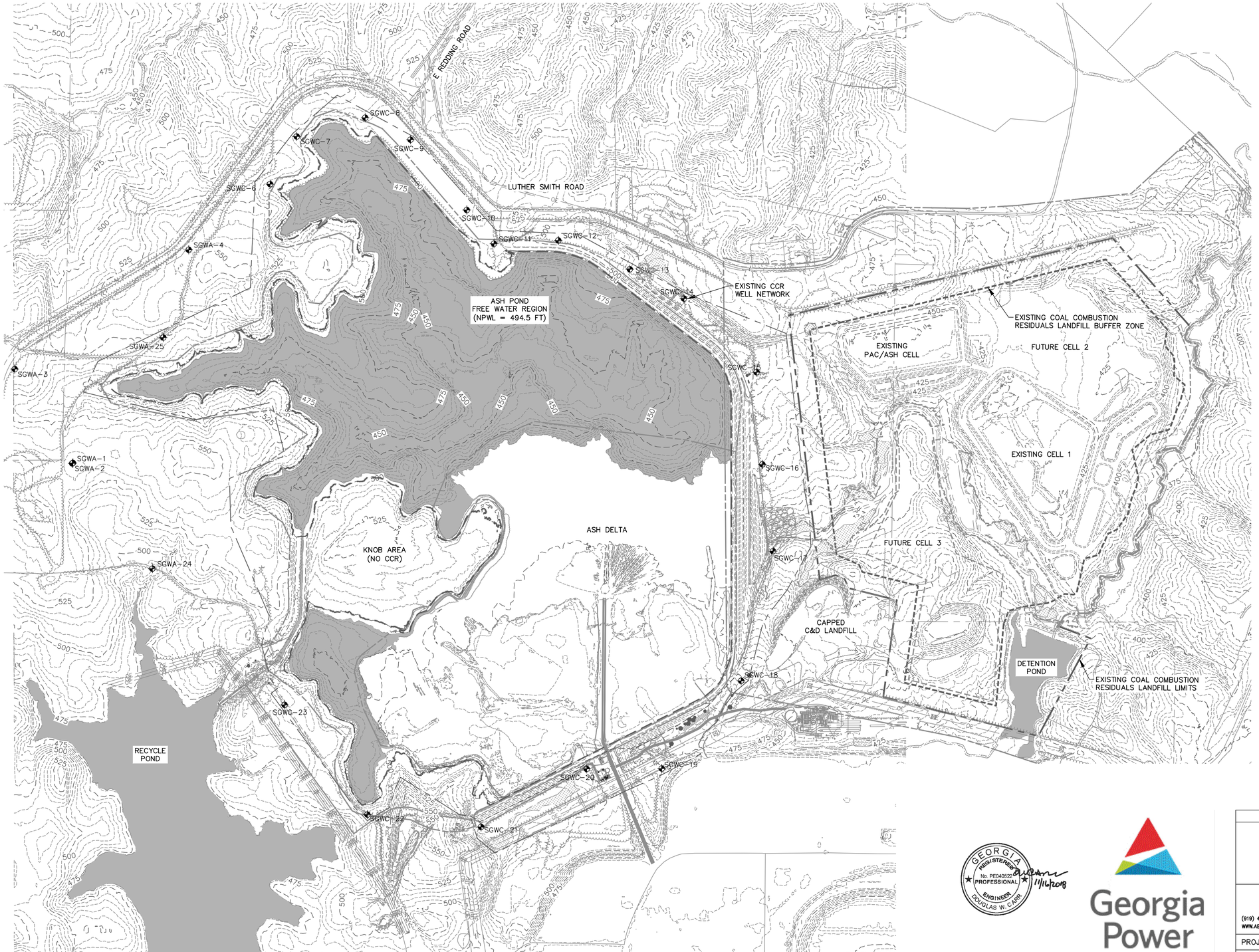
AECOM

(919) 461-1100
WWW.AECOM.COM

1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: 1"=500'	SHEET 4 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_04 Existing Conditions Plan.dwg User:Mcavinewa Nov 16, 2018 - 9:27am



N

0 500 1000

SCALE IN FEET

LEGEND

GROUNDWATER MONITORING WELL & EXISTING CCR WELL NETWORK

GEORGIA REGISTERED No. PE042620 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

GROUNDWATER MONITORING LOCATIONS

CCR CLOSURE

FOR

GEORGIA POWER

PLANT SCHERER ASH POND-1

MONROE COUNTY, GEORGIA

AECOM

(919) 461-1100
WWW.AECOM.COM

1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: 1"=500'	SHEET 5 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_05 Groundwater Monitoring Locations.dwg User:Mcavinewa Nov 16, 2018 - 9:27am

SURVEYOR'S CERTIFICATION

This plat is a retracement of an existing parcel or parcels of land and does not subdivide or create a new parcel or make any changes to any real property boundaries. The recording information of the documents, maps, plats, or other instruments which created the parcel or parcels are stated hereon. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. 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.

Hollie S. Hall, GA RLS 3368

FOR CLERK'S OFFICE USE

CONTROL	STATE PLANE
CP 47 EL.: 504.24	N 1120298.526 E 2406705.749
CP 88 EL.: 496.28	N 1117262.072 E 2401642.974

COORDINATE SYSTEM INFORMATION TABLE

COORDINATE SYSTEM BASED ON STATE PLANE WEST

AVERAGE ELEVATION: 500.26'
STATE PLANE AVE. SCALE FACTOR: 0.99991327
COMPUTED ELEVATION FACTOR: 0.99997607
CONVERGENCE 00°11'30"
GA WEST NAD83(2011) ZONE, NAVD (88)
CONTROL INFORMATION ESTABLISHED WITH JAVAD TRIUMPH-1S DUAL-FREQUENCY GPS RECEIVER REFERENCING eGPS VIRTUAL BASE STATION DATA.

DENOTES PAINTED TREES OR FENCE NEAR PROPERTY LINE. LETTER IS CODE BELOW. B/3 NUMBER IS FEET FROM LINE, AND ARROW IS DIRECTION FROM LINE THAT EVIDENCE WAS FOUND.

TP: STEEL TEE POST — W: WHITE PAINT
B: BLUE PAINT — CL: CHAIN LINK
Y: YELLOW PAINT — BW: BARBED WIRE
R: RED PAINT — HW: HOG WIRE

LINE LEGEND

- PROPOSED ASH POND BOUNDARY
- FORMER PROPERTY LINE AS NOTED
- GPC BULK PROPERTY LINE
- OHP — OVERHEAD POWER
- EASEMENT
- ADJOINING PROPERTY LINE
- ASPHALT PAVEMENT
- EDGE OF DIRT/GRAVEL SITE
- FEATURES (AERIAL LOC)
- WIRE FENCE
- CHAIN LINK FENCE
- DRAINAGE PIPE
- GRAVEL
- CONCRETE
- WATER

PLAT ABBREVIATIONS

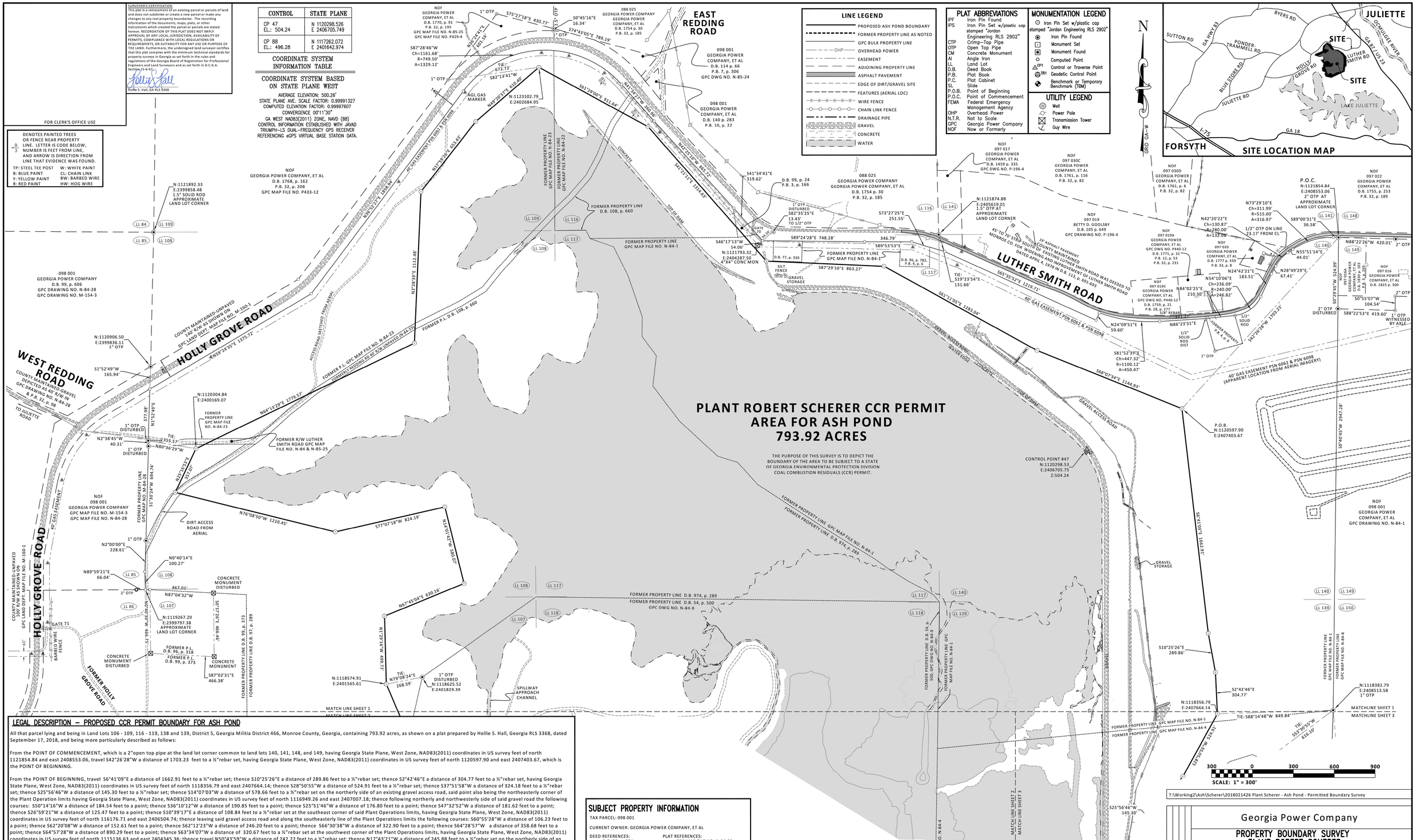
IPF	Iron Pin Found
IPS	Iron Pin Set w/plastic cap stamped "Jordan Engineering RLS 2902"
CTP	Crimp-Top Pipe
OTP	Open Top Pipe
CM	Concrete Monument
AI	Angle Iron
LL	Land Lot
D.B.	Deed Book
P.B.	Plat Book
P.C.	Plat Cabinet
SL	Slide
P.O.B.	Point of Beginning
P.O.C.	Point of Commencement
FEMA	Federal Emergency Management Agency
OHP	Overhead Power
N.T.R.	Not to Scale
GPC	Georgia Power Company
NOF	Now or Formerly

MONUMENTATION LEGEND

- Iron Pin Set w/plastic cap stamped "Jordan Engineering RLS 2902"
- Iron Pin Found
- Monument Set
- Monument Found
- Computed Point
- Control or Traverse Point
- Geodetic Control Point
- Benchmark or Temporary Benchmark (TBM)

UTILITY LEGEND

- Well
- Power Pole
- Transmission Tower
- Guy Wire


EAST REDDING ROAD
WEST REDDING ROAD
HOLLY GROVE ROAD
LUTHER SMITH ROAD
FORMER HOLLY GROVE ROAD
PLANT ROBERT SCHERER CCR PERMIT AREA FOR ASH POND 793.92 ACRES
THE PURPOSE OF THIS SURVEY IS TO DEPICT THE BOUNDARY OF THE AREA TO BE SUBJECT TO A STATE OF GEORGIA ENVIRONMENTAL PROTECTION DIVISION COAL COMBUSTION RESIDUALS (CCR) PERMIT.
098 001 GEORGIA POWER COMPANY D.B. 99, p. 606 GPC DRAWING NO. N-84-28 GPC DRAWING NO. M-154-3
NOF GEORGIA POWER COMPANY, ET AL D.B. 1768, p. 162 P.B. 32, p. 208 GPC MAP FILE NO. P433-12
088 025 GEORGIA POWER COMPANY GEORGIA POWER COMPANY, ET AL D.B. 1754 p. 30 P.B. 32, p. 185
098 001 GEORGIA POWER COMPANY, ET AL D.B. 114 p. 66 P.B. 7, p. 306 GPC DWG NO. N-85-24
098 001 GEORGIA POWER COMPANY, ET AL D.B. 140 p. 283 P.B. 10, p. 22
NOF GEORGIA POWER COMPANY, ET AL D.B. 1770, p. 91 P.B. 32, p. 195 GPC MAP FILE NO. N-85-25 GPC MAP FILE NO. P429-4
097 017 GEORGIA POWER COMPANY, ET AL D.B. 1459 p. 335 GPC DWG NO. P-196-4
097 030C GEORGIA POWER COMPANY, ET AL D.B. 1761, p. 116 P.B. 32, p. 82
097 030D GEORGIA POWER COMPANY, ET AL D.B. 1761, p. 6 P.B. 32, p. 82
097 019 BETTY D. GODLSBY D.B. 105 p. 649 GPC DRAWING NO. P-196-4
097 019A GEORGIA POWER COMPANY, ET AL GPC DWG NO. P440-12 D.B. 1771, p. 31 P.B. 12, p. 53 P.B. 32, p. 231
097 019C GEORGIA POWER COMPANY, ET AL GPC DWG NO. P440-12 D.B. 1759, p. 21 P.B. 28, p. 277
097 020 GEORGIA POWER COMPANY, ET AL D.B. 1777 p. 339 P.B. 33, p. 8
097 022 GEORGIA POWER COMPANY, ET AL D.B. 1755, p. 253 P.B. 32, p. 189
097 016 GEORGIA POWER COMPANY, ET AL D.B. 1825 p. 300
098 001 GEORGIA POWER COMPANY GPC MAP FILE NO. M-154-3 GPC MAP FILE NO. N-84-28
098 001 GEORGIA POWER COMPANY, ET AL GPC DRAWING NO. N-84-1
088 025 GEORGIA POWER COMPANY GEORGIA POWER COMPANY, ET AL D.B. 1754 p. 30 P.B. 32, p. 185
FORMER PROPERTY LINE GPC MAP FILE NO. N-84-1
FORMER PROPERTY LINE GPC MAP FILE NO. N-84-23
FORMER PROPERTY LINE GPC MAP FILE NO. N-84-22
FORMER PROPERTY LINE D.B. 108, p. 660
FORMER P.L. D.B. 108, p. 660
FORMER P.L. GPC MAP FILE NO. N-84-23
FORMER R/W LUTHER SMITH ROAD GPC MAP FILE NO. N-84 & N-85-25
FORMER PROPERTY LINE GPC MAP FILE NO. N-84-23
FORMER PROPERTY LINE D.B. 974, p. 289
FORMER PROPERTY LINE D.B. 54, p. 500 GPC DWG NO. N-84-9
FORMER PROPERTY LINE D.B. 99, p. 373
FORMER PROPERTY LINE D.B. 97, p. 289
FORMER PROPERTY LINE D.B. 54, p. 500 GPC DWG NO. N-84-9
FORMER PROPERTY LINE GPC MAP FILE NO. N-84-1
FORMER PROPERTY LINE GPC MAP FILE NO. N-84-6
FORMER PROPERTY LINE GPC MAP FILE NO. N-84-8
N:1121892.33 E:2399858.48 1.5" SOLID ROD APPROXIMATE LAND LOT CORNER
N:1121874.88 E:2405619.01 1.5" OTP AT APPROXIMATE LAND LOT CORNER
N:1120906.50 E:2399836.11 1" OTP
N:1120304.84 E:2400169.07
N:1119267.20 E:2399797.38 APPROXIMATE LAND LOT CORNER
N:1118574.91 E:2401565.61
N:1121793.32 E:2404287.50 4"X4" CONC MON
N:1118825.52 E:2401829.39
N:1118382.79 E:2408513.58 1" OTP
P.O.C. N:1121854.84 E:2408553.06 2" OTP AT APPROXIMATE LAND LOT CORNER
P.O.B. N:1120597.90 E:2407403.67
CONTROL POINT #47 N:1120298.53 E:2406705.75 Z:504.24
N:1118356.79 E:2407664.14
TIE: S88°14'48"W 849.84'
MATCHLINE SHEET 1 MATCHLINE SHEET 3
MATCH LINE SHEET 1 MATCH LINE SHEET 2
MATCH LINE SHEET 2 MATCH LINE SHEET 3
COUNTY MAINTAINED-UNPAVED 140' R/W AS SHOWN ON GPC LAND DEPT. MAP FILE NO. M-160-1
COUNTY MAINTAINED-GRAVEL DEPICTED AS 40' R/W ON GPC DRAWING NO. N-84-28 P.B. 32, p. 98
40' GAS EASEMENT
40' GAS EASEMENT PSN 6062 & PSN 6098
40' GAS EASEMENT PSN 6062 & PSN 6098 (APPARENT LOCATION FROM AERIAL IMAGERY)
ACCESS ROAD SKETCHED FROM AERIAL
DIRT ACCESS ROAD FROM AERIAL
GRAVEL ACCESS ROAD
GRAVEL STORAGE
SILT FENCE
SPILLWAY APPROACH CHANNEL
WATER EDGE
TOP OF BANK
CONCRETE
GATE 71
BARBED WIRE FENCE
AGL GAS MARKER
CONCRETE MONUMENT DISTURBED
CONCRETE MONUMENT
1" OTP DISTURBED
2" OTP
1" OTP
TIE: 672.72'
TIE: 519°23'54"E 131.66'
TIE: 755.57'
TIE: 268.59'
TIE: 553°30'55"W 616.10'
1/2" SOLID ROD
1/2" SOLID ROD DIST
45°TO 70° STRIP SOUTH OF EXISTING MAINTAINED R/W
19' ASPHALT PAVEMENT COUNTY MAINTAINED LUTHER SMITH ROAD WAS DEEDED TO MONROE CO. FOR WIDENING AND IMPROVEMENT OF LUTHER SMITH ROAD DATED APRIL 4, 1978 IN D.B. 113, p. 691-693
S1°52'49"W 165.94'
N1°52'49"E 377.58'
N2°38'45"W 40.31'
N80°36'29"W
N64°13'29"E 1779.53'
N1°52'49"E 694.74'
N1°30'24"W 694.74'
N2°00'00"E 228.61'
N0°40'14"E 100.27'
N89°59'21"E 66.04'
N87°04'32"W 467.01'
N0°07'28"W 466.75'
S87°02'31"E 466.38'
N76°08'50"W 1210.45'
S77°07'18"W 824.19'
N14°01'42"W 580.07'
N67°45'04"E 630.16'
N67°45'04"E 630.16'
N14°01'42"W 580.07'
N0°07'28"W 466.75'
N2°38'39"E 1132.48'
N59°24'35"E 1375.72'
N41°29'00"E 911.64'
N41°22'11"W 1314.63'
N41°22'11"W 1314.63'
N41°22'11"W 1314.63

SURVEYOR'S CERTIFICATION

This plat is a retracement of an existing parcel or parcels of land and does not subdivide or create a new parcel or make any changes to any real property boundaries. The recording information of the documents, maps, plats, or other instruments which created the parcel or parcels are stated hereon. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. 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.

Hollie S. Hall, GA RLS 3368

FOR CLERK'S OFFICE USE

CONTROL	STATE PLANE
CP 47 EL.: 504.24	N 1120298.526 E 2406705.749
CP 88 EL.: 496.28	N 1117262.072 E 2401642.974

COORDINATE SYSTEM INFORMATION TABLE

COORDINATE SYSTEM BASED ON STATE PLANE WEST

AVERAGE ELEVATION: 500.26'
STATE PLANE AVE. SCALE FACTOR: 0.99991327
COMPUTED ELEVATION FACTOR: 0.99997607
CONVERGENCE 00°11'30"
GA WEST NAD83(2011) ZONE, NAVD (88)
CONTROL INFORMATION ESTABLISHED WITH JAVAD TRIUMPH–LS DUAL–FREQUENCY GPS RECEIVER REFERENCING eGPS VIRTUAL BASE STATION DATA.

DENOTES PAINTED TREES OR FENCE NEAR PROPERTY LINE. LETTER IS CODE BELOW, NUMBER IS FEET FROM LINE, AND ARROW IS DIRECTION FROM LINE THAT EVIDENCE WAS FOUND.

TP: STEEL TEE POST
B: BLUE PAINT
Y: YELLOW PAINT
R: RED PAINT
W: WHITE PAINT
CL: CHAIN LINK
BW: BARBED WIRE
HW: HOG WIRE

LINE LEGEND

- PROPOSED ASH POND BOUNDARY
- FORMER PROPERTY LINE AS NOTED
- GPC BULK PROPERTY LINE
- OVERHEAD POWER
- EASEMENT
- ADJOINING PROPERTY LINE
- ASPHALT PAVEMENT
- EDGE OF DIRT/GRAVEL SITE
- FEATURES (AERIAL LOC)
- WIRE FENCE
- CHAIN LINK FENCE
- DRAINAGE PIPE
- GRAVEL
- CONCRETE
- WATER

PLAT ABBREVIATIONS

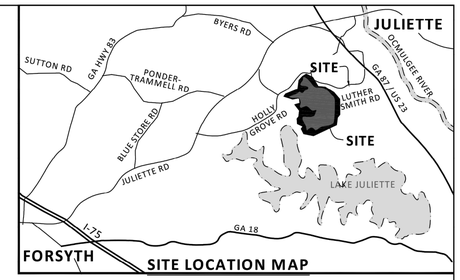
IPF	Iron Pin Found
IPS	Iron Pin Set w/plastic cap stamped "Jordan Engineering RLS 2902"
CTP	Crimp–Top Pipe
OTP	Open Top Pipe
CM	Concrete Monument
AI	Angle Iron
LL	Land Lot
D.B.	Deed Book
P.B.	Plat Book
P.C.	Plat Cabinet
SL	Slide
P.O.B.	Point of Beginning
P.O.C.	Point of Commencement
FEMA	Federal Emergency Management Agency
OHP	Overhead Power
N.T.R.	Not to Scale
GPC	Georgia Power Company
NOF	Now or Formerly

MONUMENTATION LEGEND

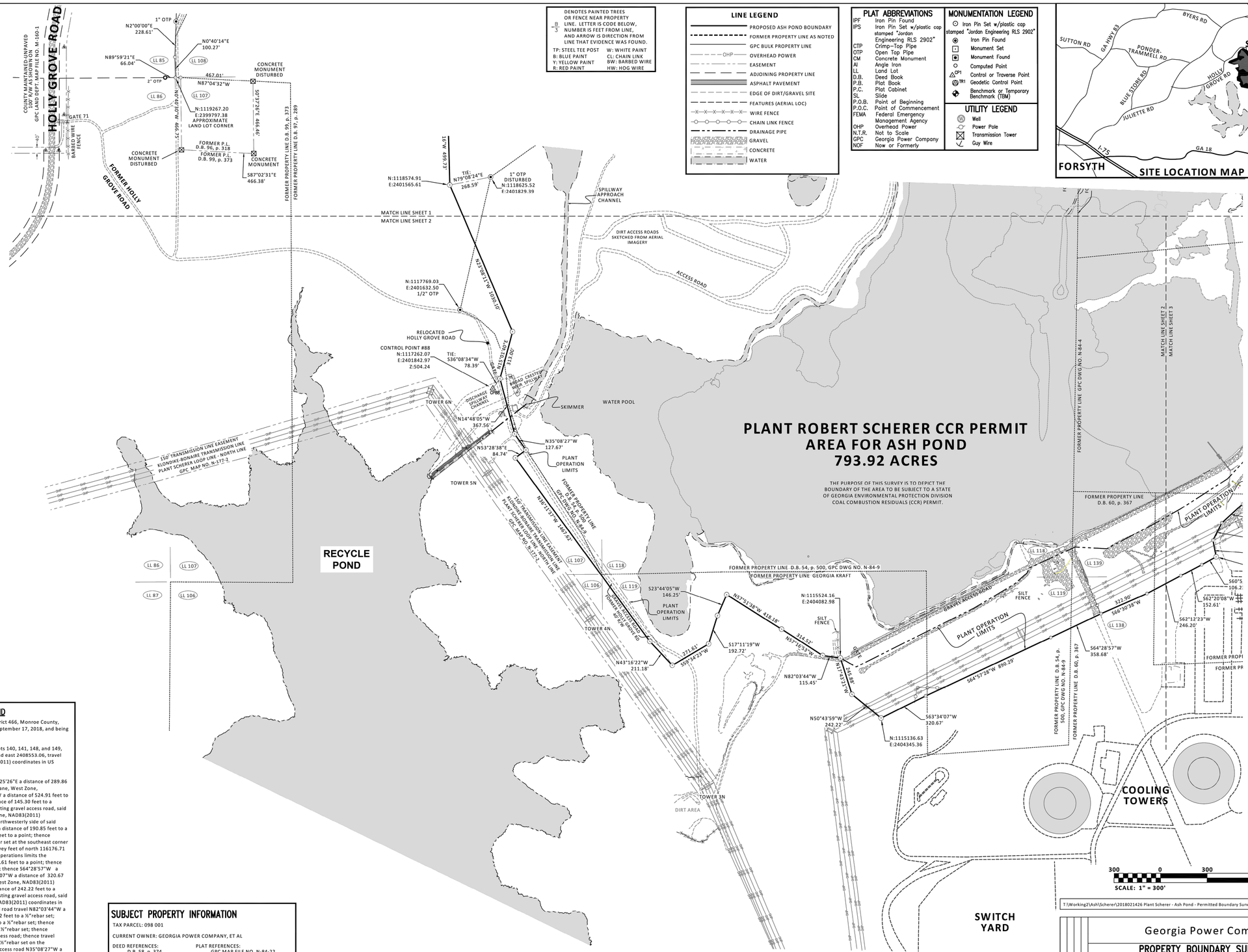
- Iron Pin Set w/plastic cap stamped "Jordan Engineering RLS 2902"
- Iron Pin Found
- Monument Set
- Monument Found
- Computed Point
- CP1 Control or Traverse Point
- TR1 Geodetic Control Point
- Benchmark or Temporary Benchmark (TBM)

UTILITY LEGEND

- W Well
- Power Pole
- Transmission Tower
- Guy Wire



SITE LOCATION MAP



PLANT ROBERT SCHERER CCR PERMIT AREA FOR ASH POND 793.92 ACRES

THE PURPOSE OF THIS SURVEY IS TO DEPICT THE BOUNDARY OF THE AREA TO BE SUBJECT TO A STATE OF GEORGIA ENVIRONMENTAL PROTECTION DIVISION COAL COMBUSTION RESIDUALS (CCR) PERMIT.

LEGAL DESCRIPTION – PROPOSED CCR PERMIT BOUNDARY FOR ASH POND

All that parcel lying and being in Land Lots 106 - 109, 116 - 119, 138 and 139, District 5, Georgia Militia District 466, Monroe County, Georgia, containing 793.92 acres, as shown on a plat prepared by Hollie S. Hall, Georgia RLS 3368, dated September 17, 2018, and being more particularly described as follows:

From the POINT OF COMMENCEMENT, which is a 2"open top pipe at the land lot corner common to land lots 140, 141, 148, and 149, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1121854.84 and east 2408553.06, travel S42°26'28"W a distance of 1703.23 feet to a ½"rebar set, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1120597.90 and east 2407403.67, which is the POINT OF BEGINNING.

From the POINT OF BEGINNING, travel S6°41'09"E a distance of 1662.91 feet to a ½"rebar set; thence S10°25'26"E a distance of 289.86 feet to a ½"rebar set; thence S2°42'46"E a distance of 304.77 feet to a ½"rebar set, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1118356.79 and east 2407664.14; thence S28°50'55"W a distance of 524.91 feet to a ½"rebar set; thence S37°51'58"W a distance of 324.18 feet to a ½"rebar set; thence S25°56'46"W a distance of 145.30 feet to a ½"rebar set; thence S14°07'03"W a distance of 578.66 feet to a ½"rebar set on the northerly side of an existing gravel access road, said point also being the northeasterly corner of the Plant Operation limits having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1116949.26 and east 2407007.18; thence following northerly and northwesterly side of said gravel road the following courses: S50°14'16"W a distance of 184.54 feet to a point; thence S36°10'12"W a distance of 190.85 feet to a point; thence S25°51'46"W a distance of 176.80 feet to a point; thence S47°32'52"W a distance of 181.62 feet to a point; thence S26°59'21"W a distance of 125.47 feet to a point; thence S10°39'17"E a distance of 108.84 feet to a ½"rebar set at the southeast corner of said Plant Operations limits, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 116176.71 and east 2406504.74; thence leaving said gravel access road and along the southeasterly line of the Plant Operations limits the following courses: S60°55'28"W a distance of 106.23 feet to a point; thence S62°20'08"W a distance of 152.61 feet to a point; thence S62°12'23"W a distance of 246.20 feet to a point; thence S66°30'38"W a distance of 322.90 feet to a point; thence S64°28'57"W a distance of 358.68 feet to a point; thence S64°57'28"W a distance of 890.29 feet to a point; thence S63°34'07"W a distance of 320.67 feet to a ½"rebar set at the southwest corner of the Plant Operations limits, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1115136.63 and east 2404345.36; thence travel N50°43'59"W a distance of 242.22 feet to a ½"rebar set; thence N17°43'21"W a distance of 245.88 feet to a ½"rebar set on the northerly side of an existing gravel access road, said point being the northwest corner of said Plant Operations limits, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1115136.63 and east 2404345.36; thence travel N50°43'59"W a distance of 242.22 feet to a ½"rebar set; thence N17°43'21"W a distance of 245.88 feet to a ½"rebar set on the northerly side of said gravel road travel N82°03'44"W a distance of 115.45 feet to a ½"rebar set; thence leaving said existing gravel road travel N57°16'53"W 314.52 feet to a ½"rebar set; thence N57°51'38"W a distance of 418.18 feet to a point; thence S23°44'05"W a distance of 146.25 feet to a ½"rebar set; thence S17°11'19"W a distance of 192.72 feet to a ½"rebar set; thence S59°34'23"W a distance of 271.61 feet to a ½"rebar set; thence N43°16'22"W a distance of 211.18 feet to a ½"rebar set on the southwesterly edge of an existing gravel access road; thence travel N36°11'37"W a distance of 1467.62 feet to a ½"rebar set; thence N53°28'38"E a distance of 84.74 feet to a ½"rebar set on the northeasterly side of an existing gravel access road; thence following the northeasterly side of said gravel access road N35°08'27"W a distance of 127.67 feet to a ½"rebar set; thence N14°48'05"W a distance of 367.56 feet to a ½"rebar set; thence leaving said northeasterly edge of said gravel access road travel N15°01'40"E a distance of 313.00 feet to a ½"rebar set; thence N23°08'11"W a distance of 1030.10 feet to a ½"rebar set, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1118574.91 and east 2401565.61; thence N1°29'16"W a distance of 499.73 feet to a ½"rebar set; thence N67°45'04"E a distance of 630.16 feet to a ½"rebar set; thence N14°01'42"W a distance of 580.07 feet to a ½"rebar set; thence S77°07'18"W a distance of 824.19 feet to a ½"rebar set; thence N76°08'50"W a distance of 1210.45 feet to a ½"rebar set; thence N25°16'53"E a distance of 357.07 feet to a ½"rebar set, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1120304.84 and east 2400169.07; thence travel N64°13'29"E a distance of 1779.57 feet to a ½"rebar set; thence N2°28'39"E a distance of 1112.48 feet to a ½"rebar set; thence N37°59'26"E a distance of 653.43 feet to a ½"rebar set; thence N49°20'37"E a distance of 610.40 feet to a ½"rebar set; having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1123102.79 and east 2402684.95; thence travel S61°29'00"E a distance of 911.64 feet to a ½"rebar set; thence S41°21'11"E a distance of 1314.63 feet to a 1/2"rebar set; thence S87°29'10"E a distance of 863.27 feet to a ½"rebar set; thence S61°11'05"E a distance of 1283.04 feet to a ½"rebar set; thence S68°07'34"E a distance of 1144.93 to the POINT OF BEGINNING.

SUBJECT PROPERTY INFORMATION

TAX PARCEL: 098 001

CURRENT OWNER: GEORGIA POWER COMPANY, ET AL

DEED REFERENCES:
D.B. 58, p. 374
D.B. 114, p. 66
D.B. 108, p. 658
D.B. 108, p. 660
D.B. 924, p. 136
D.B. 77, p. 330
D.B. 98, p. 236
D.B. 97, P. 289
D.B. 98, p. 414
D.B. 60, p. 367

PLAT REFERENCES:
GPC MAP FILE NO. N-84-22
GPC MAP FILE NO. N-84-23
GPC MAP FILE NO. N-85-24
P.B. 7, p. 306
GPC MAP FILE NO. N-85-25
P.B. 20, p. 220
GPC MAP FILE NO. N-84-1
P.B. 5, p. 271
GPC MAP FILE NO. N-84-8
P.B. 6, p. 14
GPC MAP FILE N-85-9
P.B. 4, p. 6
P.B. 3, p. 166
GPC MAP FILE NO. N-84-4
P.B. 6, p. 32
GPC MAP FILE NO. N-84-9

SURVEY CLOSURE STATEMENT

FIELD DATA WAS COLLECTED USING A LEICA TS12 ROBOTIC TOTAL STATION AND A JAVAD TRIUMPH–LS DUAL FREQUENCY GPS RECEIVER REFERENCING THE eGPS STATEWIDE NETWORK AND HAVING A RELATIVE POSITIONAL ACCURACY OF 0.04 FEET.

THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN 1 FOOT IN 1,506,429 FEET.

FIELD WORK WAS COMPLETED IN APRIL, 2018.

GEORGIA REGISTERED 3368 LAND SURVEYOR HOLLIE S. HALL

JORDAN ENGINEERING
144 N. WARREN ST. MONTICELLO, GA 31064
(706) 468-8999 www.jordan-eng.com
Engineering ⊙ Surveying ⊙ Soils Classification
Corporate License No. LSF 000768

T:\Working2\Ash\Scherer\20180214 26 Plant Scherer - Ash Pond - Permitted Boundary Survey

Georgia Power Company

PROPERTY BOUNDARY SURVEY
PLANT ROBERT SCHERER
ASH POND – PROPOSED CCR PERMIT BOUNDARY
LAND LOTS 106–109, 116–119, 138 & 139
5th DISTRICT, 466 G.M.D.
MONROE COUNTY, GEORGIA

REVISION BLOCK	APPROVALS	DR. HSH	TR.	Checked ROJ/HSH
		SCALE 1" = 300'		DATE 09.17.2018
		DRAWING NUMBER P469		SHEET NUMBER SHEET 2 OF 3

PBS/LD–2 OF 3

S:\SURVEY\GPC - PLANT SCHERER ASH POND BOUNDARY\DRAWING\GPC-PLANT SCHERER ASH POND BNDY R6.DWG

FOR CLERK'S OFFICE USE

SURVEYOR'S CERTIFICATION

This plat is a retracement of an existing parcel or parcels of land and does not subdivide or create a new parcel or make any changes to any real property boundaries. The recording information of the documents, maps, plats, or other instruments which created the parcel or parcels are stated hereon. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. 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.

Hollie S. Hall, GA RLS 3368

CONTROL	STATE PLANE
CP 47 EL.: 504.24	N 1120298.526 E 2406705.749
CP 88 EL.: 496.28	N 1117262.072 E 2401642.974

COORDINATE SYSTEM INFORMATION TABLE

COORDINATE SYSTEM BASED ON STATE PLANE WEST

AVERAGE ELEVATION: 500.26'
STATE PLANE AVE. SCALE FACTOR: 0.99991327
COMPUTED ELEVATION FACTOR: 0.99997607
CONVERGENCE: 00°11'30"
GA WEST NAD83(2011) ZONE, NAVD (88)
CONTROL INFORMATION ESTABLISHED WITH JAVAD TRIUMPH–LS DUAL–FREQUENCY GPS RECEIVER REFERENCING eGPS VIRTUAL BASE STATION DATA.

SUBJECT PROPERTY INFORMATION

TAX PARCEL: 098 001

CURRENT OWNER: GEORGIA POWER COMPANY, ET AL

DEED REFERENCES:
D.B. 58, p. 374
D.B. 114, p. 66
D.B. 108, p. 658
D.B. 108, p. 660
D.B. 924, p. 136
D.B. 77, p. 330
D.B. 98, p. 236
D.B. 97, P. 289
D.B. 98, p. 414
D.B. 60, p. 367

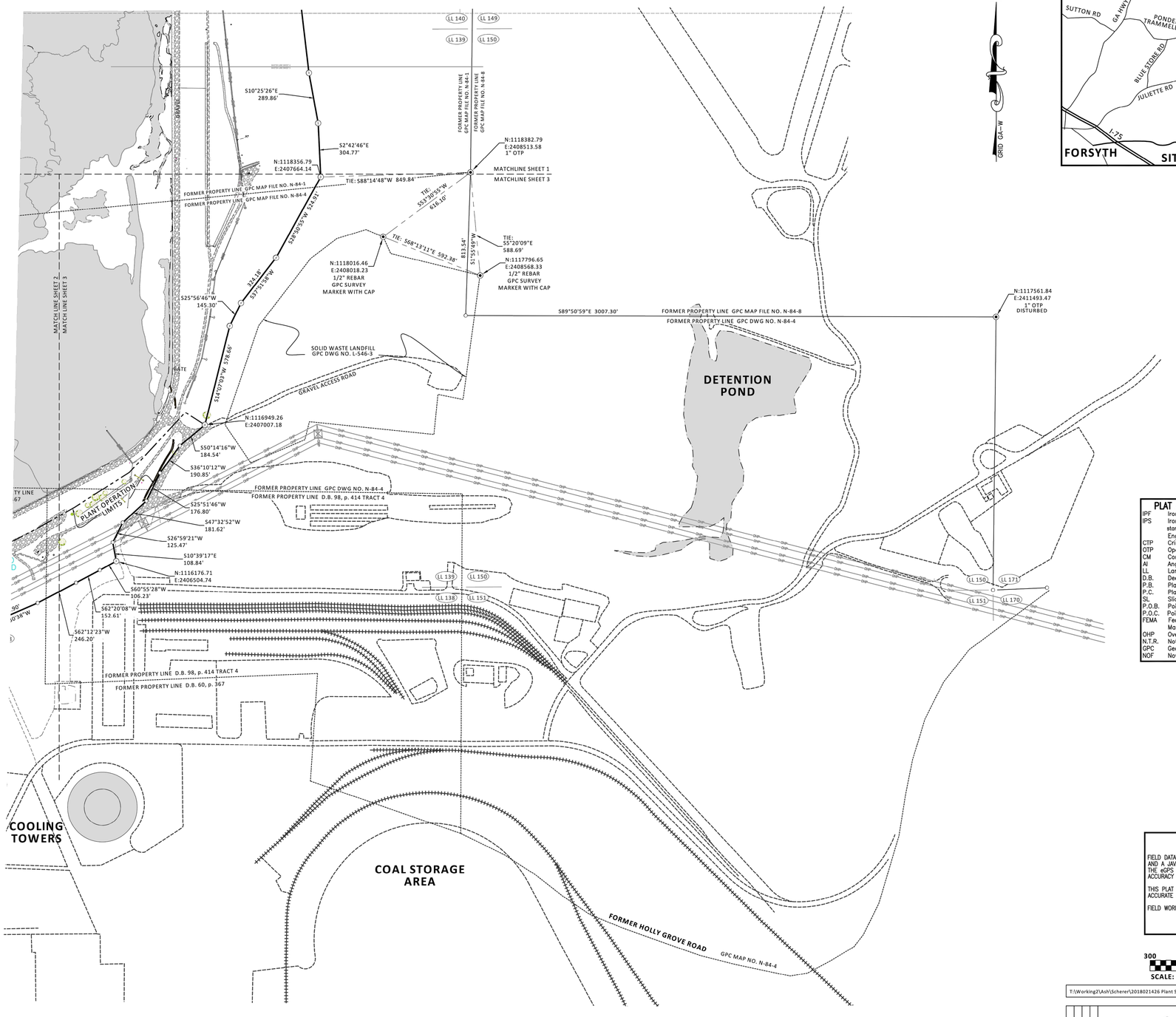
PLAT REFERENCES:
GPC MAP FILE NO. N-84-22
GPC MAP FILE NO. N-84-23
GPC MAP FILE NO. N-85-24
P.B. 7, p. 306
GPC MAP FILE NO. N-85-25
P.B. 20, p. 220
GPC MAP FILE NO. N-84-1
P.B. 5, p. 271
GPC MAP FILE NO. N-84-8
P.B. 6, p. 14
GPC MAP FILE N-85-9
P.B. 4, p. 6
P.B. 3, p. 166
GPC MAP FILE NO. N-84-4
P.B. 6, p. 32
GPC MAP FILE NO. N-84-9

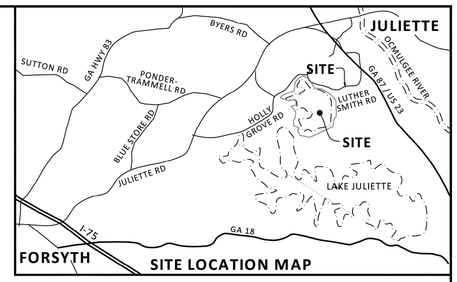
LEGAL DESCRIPTION – PROPOSED CCR PERMIT BOUNDARY FOR ASH POND

All that parcel lying and being in Land Lots 106 - 109, 116 - 119, 138 and 139, District 5, Georgia Militia District 466, Monroe County, Georgia, containing 793.92 acres, as shown on a plat prepared by Hollie S. Hall, Georgia RLS 3368, dated September 17, 2018, and being more particularly described as follows:

From the POINT OF COMMENCEMENT, which is a 2"open top pipe at the land lot corner common to land lots 140, 141, 148, and 149, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1121854.84 and east 2408553.06, travel S42°26'28"W a distance of 1703.23 feet to a ½"rebar set, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1120597.90 and east 2407403.67, which is the POINT OF BEGINNING.

From the POINT OF BEGINNING, travel S6°41'09"E a distance of 1662.91 feet to a ½"rebar set; thence S10°25'26"E a distance of 289.86 feet to a ½"rebar set; thence S2°42'46"E a distance of 304.77 feet to a ½"rebar set, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1118356.79 and east 2407664.14; thence S28°50'55"W a distance of 524.91 feet to a ½"rebar set; thence S37°51'58"W a distance of 324.18 feet to a ½"rebar set; thence S25°56'46"W a distance of 145.30 feet to a ½"rebar set; thence S14°07'03"W a distance of 578.66 feet to a ½"rebar set on the northerly side of an existing gravel access road, said point also being the northeasterly corner of the Plant Operation limits having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1116949.26 and east 2407007.18; thence following northerly and northwesterly side of said gravel road the following courses: S50°14'16"W a distance of 184.54 feet to a point; thence S36°10'12"W a distance of 190.85 feet to a point; thence S25°51'46"W a distance of 176.80 feet to a point; thence S47°32'52"W a distance of 181.62 feet to a point; thence S26°59'21"W a distance of 125.47 feet to a point; thence S10°39'17"E a distance of 108.84 feet to a ½"rebar set at the southeast corner of said Plant Operations limits, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 116176.71 and east 2406504.74; thence leaving said gravel access road and along the southeasterly line of the Plant Operations limits the following courses: S60°55'28"W a distance of 106.23 feet to a point; thence S62°20'08"W a distance of 152.61 feet to a point; thence S62°12'23"W a distance of 246.20 feet to a point; thence S66°30'38"W a distance of 322.90 feet to a point; thence S64°28'57"W a distance of 358.68 feet to a point; thence S64°57'28"W a distance of 890.29 feet to a point; thence S63°34'07"W a distance of 320.67 feet to a ½"rebar set at the southwest corner of the Plant Operations limits, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1115136.63 and east 2404345.36; thence travel N50°43'59"W a distance of 242.22 feet to a ½"rebar set; thence N17°43'21"W a distance of 245.88 feet to a ½"rebar set on the northerly side of an existing gravel access road, said point being the northwest corner of said Plant Operations limits, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1115524.16 and east 2404082.98; thence following the northerly side of said gravel road travel N82°03'44"W a distance of 115.45 feet to a ½"rebar set; thence leaving said existing gravel road travel N57°16'53"W 314.52 feet to a ½"rebar set; thence N57°51'38"W a distance of 418.18 feet to a point; thence S23°44'05"W a distance of 146.25 feet to a ½"rebar set; thence S17°11'19"W a distance of 192.72 feet to a ½"rebar set; thence S59°34'23"W a distance of 271.61 feet to a ½"rebar set; thence N43°16'22"W a distance of 211.18 feet to a ½"rebar set on the southwesterly edge of an existing gravel access road; thence travel N36°11'37"W a distance of 1467.62 feet to a ½"rebar set; thence N53°28'38"E a distance of 84.74 feet to a ½"rebar set on the northeasterly side of an existing gravel access road; thence following the northeasterly side of said gravel access road N35°08'27"W a distance of 127.67 feet to a ½"rebar set; thence N14°48'05"W a distance of 367.56 feet to a ½"rebar set; thence leaving said northeasterly edge of said gravel access road travel N15°01'40"E a distance of 313.00 feet to a ½"rebar set; thence N23°08'11"W a distance of 1030.10 feet to a ½"rebar set, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1118574.91 and east 2401565.61; thence N1°29'16"W a distance of 499.73 feet to a ½"rebar set; thence N67°45'04"E a distance of 630.16 feet to a ½"rebar set; thence N14°01'42"W a distance of 580.07 feet to a ½"rebar set; thence S77°07'18"W a distance of 824.19 feet to a ½"rebar set; thence N76°08'50"W a distance of 1210.45 feet to a ½"rebar set; thence N25°16'53"E a distance of 357.07 feet to a ½"rebar set, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1120304.84 and east 2400169.07; thence travel N64°13'29"E a distance of 1779.57 feet to a ½"rebar set; thence N2°28'39"E a distance of 1112.48 feet to a ½"rebar set; thence N37°59'26"E a distance of 653.43 feet to a ½"rebar set; thence N49°20'37"E a distance of 610.40 feet to a ½"rebar set; having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1123102.79 and east 2402684.95; thence travel S61°29'00"E a distance of 911.64 feet to a ½"rebar set; thence S41°21'11"E a distance of 1314.63 feet to a 1/2"rebar set; thence S87°29'10"E a distance of 863.27 feet to a ½"rebar set; thence S61°11'05"E a distance of 1283.04 feet to a ½"rebar set; thence S68°07'34"E a distance of 1144.93 to the POINT OF BEGINNING.





DENOTES PAINTED TREES OR FENCE NEAR PROPERTY LINE. LETTER IS CODE BELOW, NUMBER IS FEET FROM LINE, AND ARROW IS DIRECTION FROM LINE THAT EVIDENCE WAS FOUND.

TP: STEEL TEE POST
B: BLUE PAINT
Y: YELLOW PAINT
R: RED PAINT
W: WHITE PAINT
CL: CHAIN LINK
BW: BARBED WIRE
HW: HOG WIRE

LINE LEGEND

- PROPOSED ASH POND BOUNDARY
- FORMER PROPERTY LINE AS NOTED
- GPC BULK PROPERTY LINE
- OVERHEAD POWER (OHP)
- EASEMENT
- ADJOINING PROPERTY LINE
- ASPHALT PAVEMENT
- EDGE OF DIRT/GRAVEL SITE
- FEATURES (AERIAL LOC)
- WIRE FENCE
- CHAIN LINK FENCE
- DRAINAGE PIPE
- GRAVEL
- CONCRETE
- WATER

PLAT ABBREVIATIONS

IPF	Iron Pin Found
IPS	Iron Pin Set w/plastic cap stamped "Jordan Engineering RLS 2902"
CTP	Crimp–Top Pipe
OTP	Open Top Pipe
CM	Concrete Monument
AI	Angle Iron
LL	Land Lot
D.B.	Deed Book
P.B.	Plat Book
P.C.	Plat Cabinet
SL	Slide
P.O.B.	Point of Beginning
P.O.C.	Point of Commencement
FEMA	Federal Emergency Management Agency
OHP	Overhead Power
N.T.S.	Not to Scale
GPC	Georgia Power Company
NOF	Now or Formerly

MONUMENTATION LEGEND

- Iron Pin Set w/plastic cap stamped "Jordan Engineering RLS 2902"
- Iron Pin Found
- Monument Set
- Monument Found
- Computed Point
- CP1 Control or Traverse Point
- TR1 Geodetic Control Point
- Benchmark or Temporary Benchmark (TBM)

UTILITY LEGEND

- Well
- Power Pole
- Transmission Tower
- Guy Wire

SURVEY CLOSURE STATEMENT

FIELD DATA WAS COLLECTED USING A LEICA TS12 ROBOTIC TOTAL STATION AND A JAVAD TRIUMPH–LS DUAL FREQUENCY GPS RECEIVER REFERENCING THE eGPS STATEWIDE NETWORK AND HAVING A RELATIVE POSITIONAL ACCURACY OF 0.04 FEET.

THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN 1 FOOT IN 1,506,429 FEET.

FIELD WORK WAS COMPLETED IN APRIL, 2018.

300 0 300 600 900
SCALE: 1" = 300'

T:\Working2\Ash\Scherer\2018021426 Plant Scherer - Ash Pond - Permitted Boundary Survey

Georgia Power Company

PROPERTY BOUNDARY SURVEY
PLANT ROBERT SCHERER
ASH POND – PROPOSED CCR PERMIT BOUNDARY

LAND LOTS 106–109, 116–119, 138 & 139
5th DISTRICT, 466 G.M.D.
MONROE COUNTY, GEORGIA

REVISION BLOCK

APPROVALS

DR.	TR.	Checked
HSH		ROJ/HSH
SCALE		DATE
1" = 300'		09.17.2018
DRAWING NUMBER		SHEET NUMBER
P469		SHEET 3 OF 3

GEORGIA REGISTERED 3368 LAND SURVEYOR HOLLIE S. HALL

Corporate License No. LSF 000768

JORDAN ENGINEERING
144 N. WARREN ST. MONTICELLO, GA 31064
(706) 468-8999 www.jordan-eng.com
Engineering ⊙ Surveying ⊙ Soils Classification

S:\SURVEY\GPC - PLANT SCHERER ASH PND BOUNDARY\DRAWING\GPC-PLANT SCHERER ASH POND BNDY R6.DWG

PBS/LD–3 OF 3



G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_06 Proposed Site Plan.dwg User:Mcavinewa Nov 16, 2018 - 9:47am

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

PROPOSED OVERALL CLOSURE PLAN

CCR CLOSURE

FOR

GEORGIA POWER

PLANT SCHERER ASH POND-1

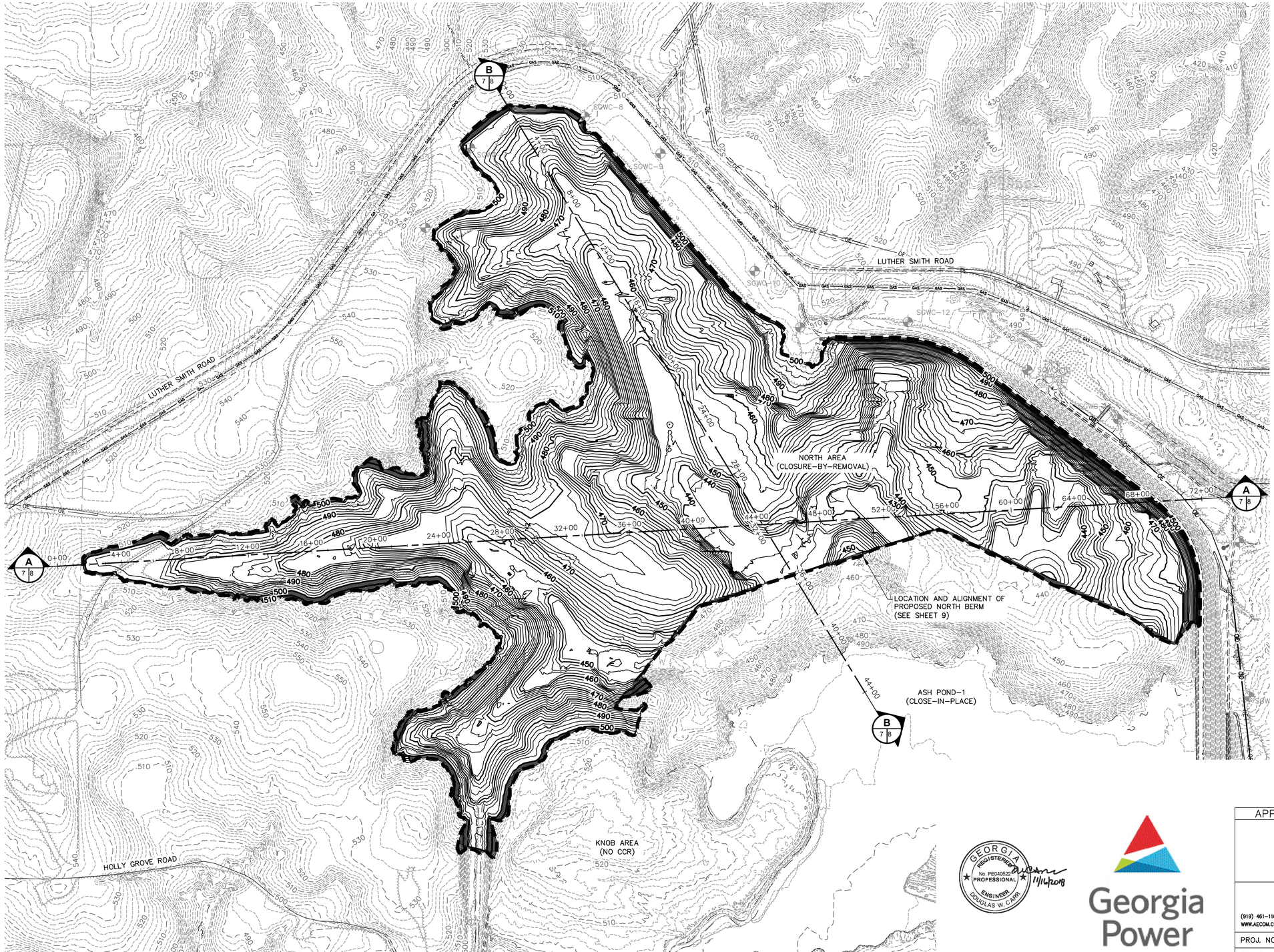
MONROE COUNTY, GEORGIA

AECOM

(919) 461-1100
WWW.AECOM.COM

1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: 1"=500'	SHEET 6 OF 28		
DATE: NOVEMBER 2018			



N

0 300 600

SCALE IN FEET

LEGEND

APPROXIMATE CLOSURE–BY–REMOVAL LIMITS

NOTES

1. GRADES SHOWN ON THIS NORTH AREA EXCAVATION PLAN REPRESENT CONTOURS TAKEN FROM USGS TOPOGRAPHY MAPPING MINUS EXCAVATIONS ASSUMED TO BE NEEDED TO REMOVE CCR FROM THE CLOSURE–BY–REMOVAL AREA. THE FINAL EXCAVATION GRADES MAY CHANGE FROM THOSE SHOWN, DEPENDING ON FIELD CONDITIONS AND ACTUAL CCR DEPTHS ENCOUNTERED ACROSS THE NORTH AREA DURING CONSTRUCTION.
2. THE LIMITS OF THE ASH POND ARE BASED ON HISTORICAL LIMITS AND THE RESULTS OF EXPLORATORY PROGRAMS COMPLETED BY AECOM AND OTHERS. THE NORTH AREA EXCAVATION LIMITS ARE APPROXIMATE AND WILL BE MODIFIED BASED ON ACTUAL REMOVAL LIMITS AS DETERMINED FROM COMPLETE CCR REMOVAL.
3. GRADING DEPICTS BOTTOM OF EXCAVATION SURFACE IN THE NORTH AREA FOR CLOSURE–BY–REMOVAL.
4. THE NORTH AREA FINAL EXCAVATION GRADING SHOWN SHALL BE CONFIRMED IN THE FIELD WITH VISUAL OBSERVATION OF THE SUBGRADE.
5. THE FINAL GRADING PLAN FOR THE NORTH AREA IS SHOWN ON SHEET 12.
6. BATHYMETRIC SURVEY WAS PERFORMED BY LOWE ENGINEERING IN 2015.

GEORGIA REGISTERED No. PE042622 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

APPROXIMATE NORTH AREA EXCAVATION PLAN

CCR CLOSURE

FOR

GEORGIA POWER

PLANT SCHERER ASH POND–1

MONROE COUNTY, GEORGIA

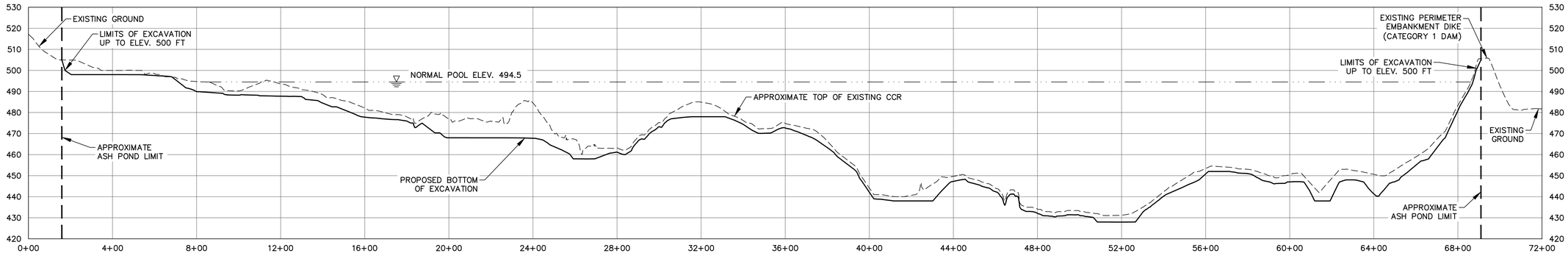
AECOM

(919) 461–1100
WWW.AECOM.COM

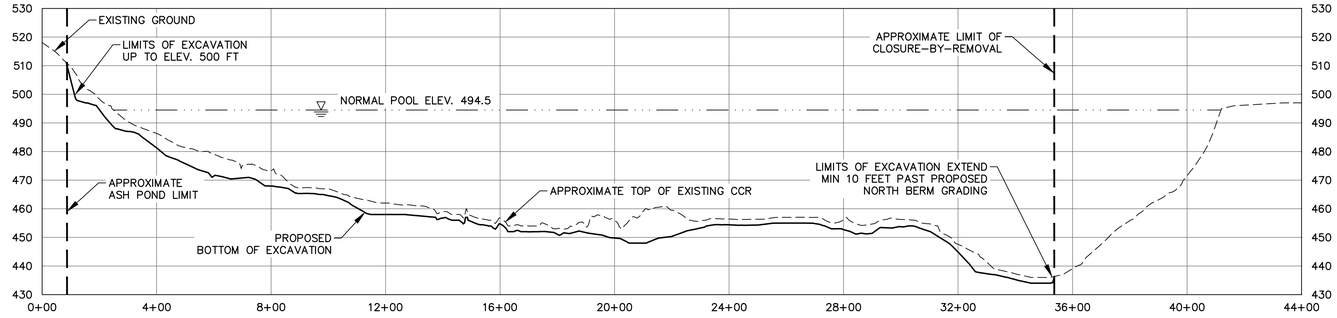
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: 1"=300'	SHEET 7 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_07 Excavation Plan.dwg User:Mcovinewa Nov 16, 2018 – 9:51am



A (7|8) **SECTION A-A**
HORIZONTAL SCALE: 1"=250'
VERTICAL SCALE: 1"=25'



B (7|8) **SECTION B-B**
HORIZONTAL SCALE: 1"=250'
VERTICAL SCALE: 1"=25'

0 250 500
HORIZONTAL SCALE (FT)

0 25 50
VERTICAL SCALE (FT)

NOTES

1. THE TOP OF CCR IS REPRESENTED BY THE BATHYMETRIC SURVEY PERFORMED BY LOWE ENGINEERING IN 2015. THESE GRADES SHOULD BE CONSIDERED APPROXIMATE AND WILL BE VERIFIED AND DOCUMENTED DURING ASH POND CLOSURE.

GEORGIA REGISTERED No. PE040520 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

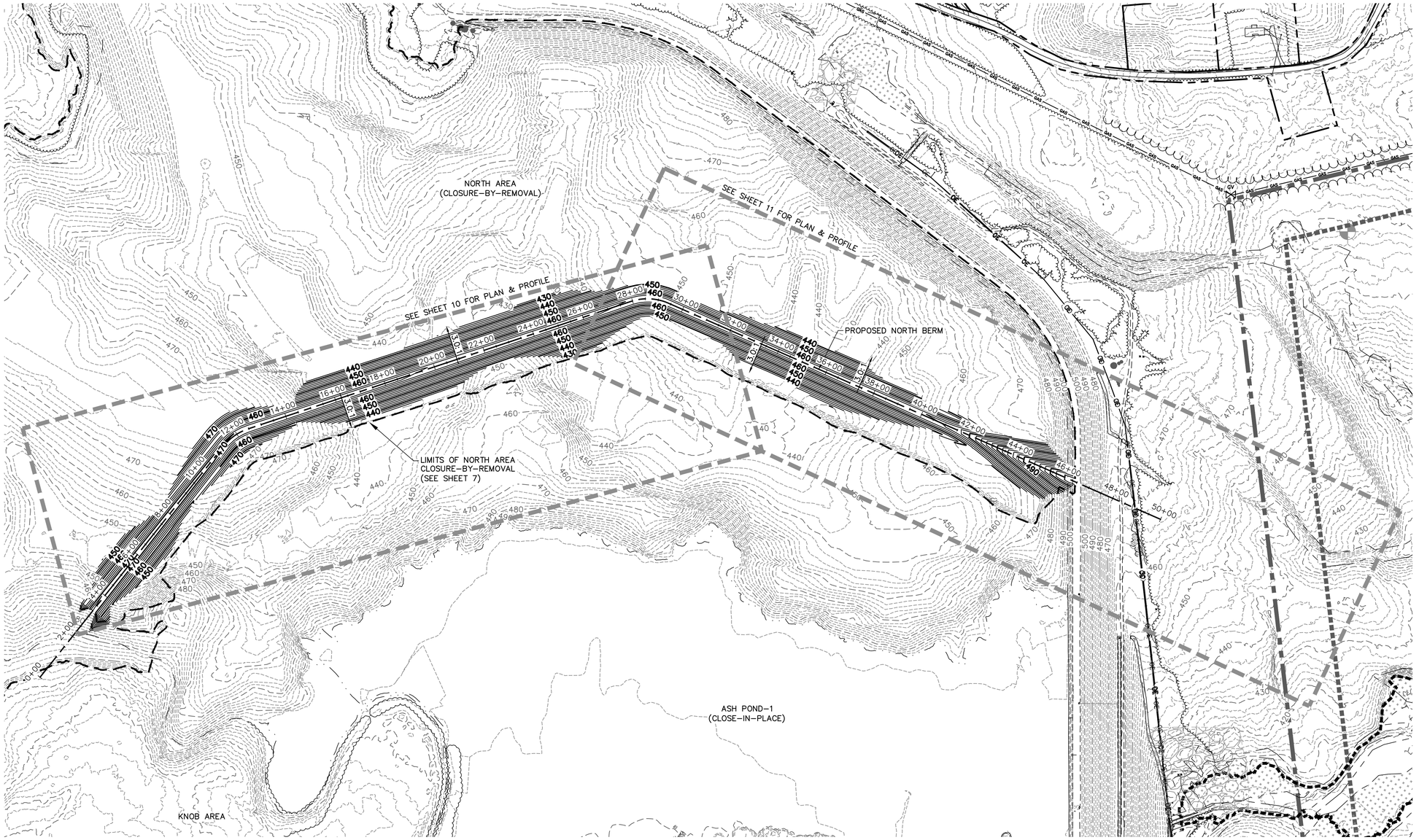
PERMIT DRAWING - NOT FOR CONSTRUCTION

NORTH AREA EXCAVATION SECTIONS
CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

AECOM
(919) 461-1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: AS SHOWN	SHEET 8 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_08 Excavation Plan Sections.dwg User:Mcavinewa Nov 16, 2018 - 9:51am



NOTES

1. THIS SHEET INCLUDES THE NORTH AREA EXCAVATION PLAN (AS SHOWN IN SHEET 7) AS EXISTING GROUND TOPOGRAPHY WITHIN THE NORTH AREA OF THE ASH POND PRIOR TO NORTH BERM CONSTRUCTION. REFER TO SHEET 7 FOR APPROXIMATE CCR REMOVAL LIMITS.

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

PROPOSED NORTH BERM OVERALL GRADING PLAN

CCR CLOSURE

FOR

GEORGIA POWER

PLANT SCHERER ASH POND–1

MONROE COUNTY, GEORGIA

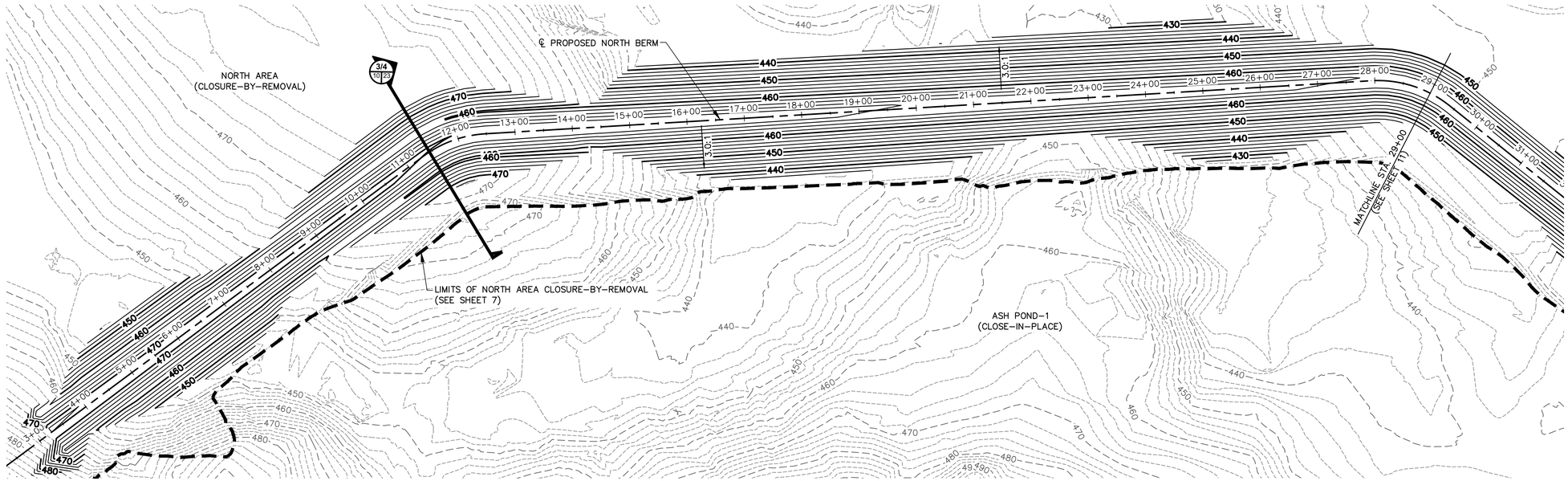
AECOM

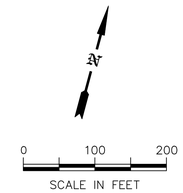
(919) 461–1100
WWW.AECOM.COM

1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: 1" = 200'	SHEET 9 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_09 North Berm_Overall Grading Plan.dwg User:Mcavinewa Nov 16, 2018 – 9:53am



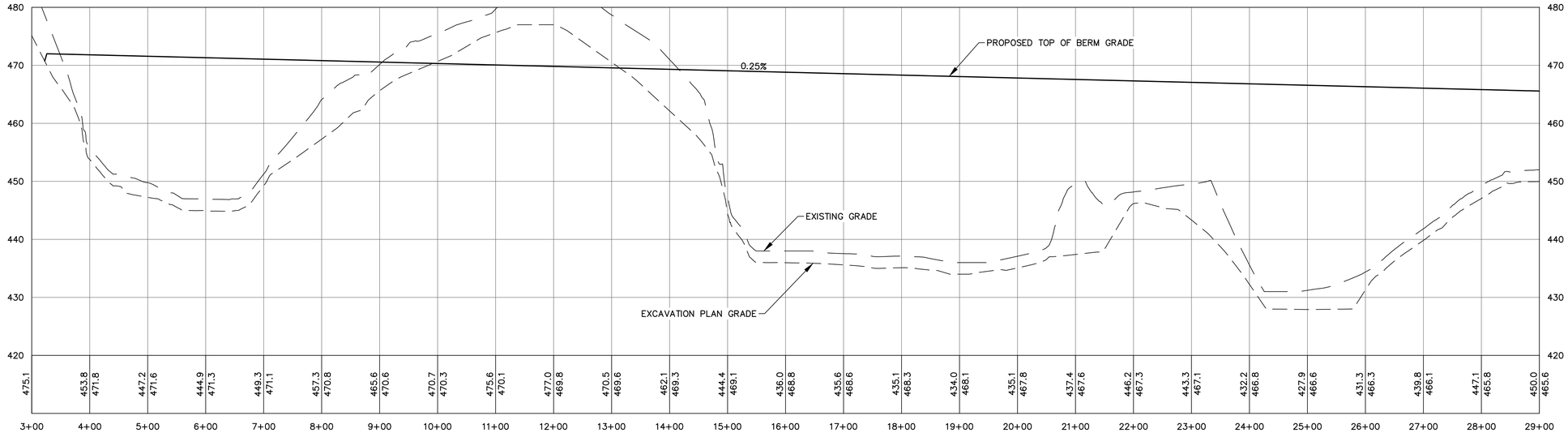


NOTES

1. THE EXISTING GRADE CONTOURS SHOWN REPRESENT APPROXIMATE SITE CONDITIONS AFTER THE COMPLETION OF THE NORTH AREA EXCAVATION.

NORTH BERM PLAN - STA 3+00 TO 29+00

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



NORTH BERM PROFILE - STA 3+00 TO 29+00

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



Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

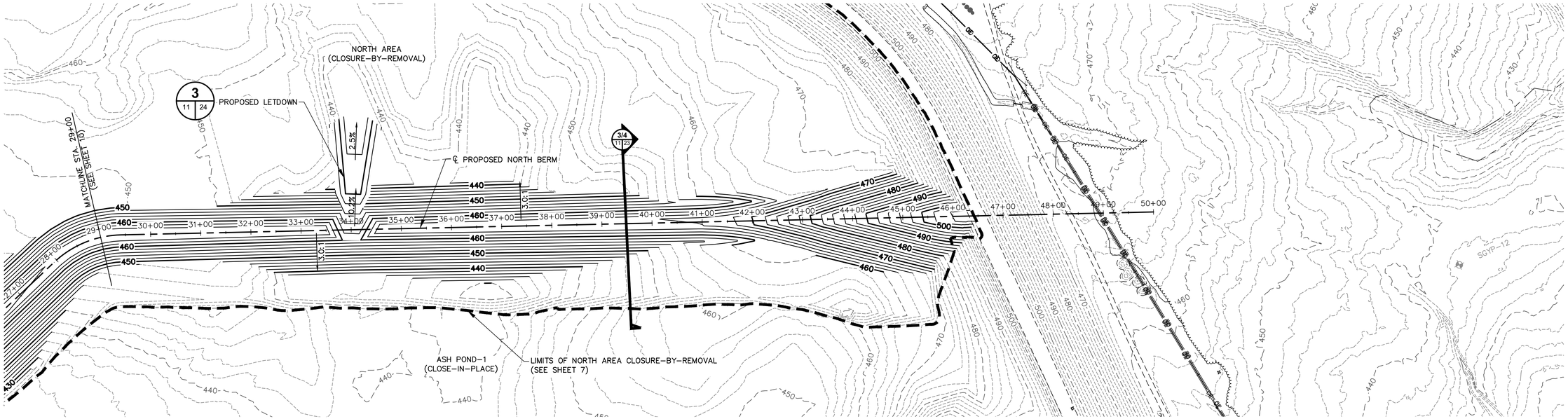
PROPOSED NORTH BERM PLAN & PROFILE I

CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND–1
MONROE COUNTY, GEORGIA

AECOM
(919) 461–1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

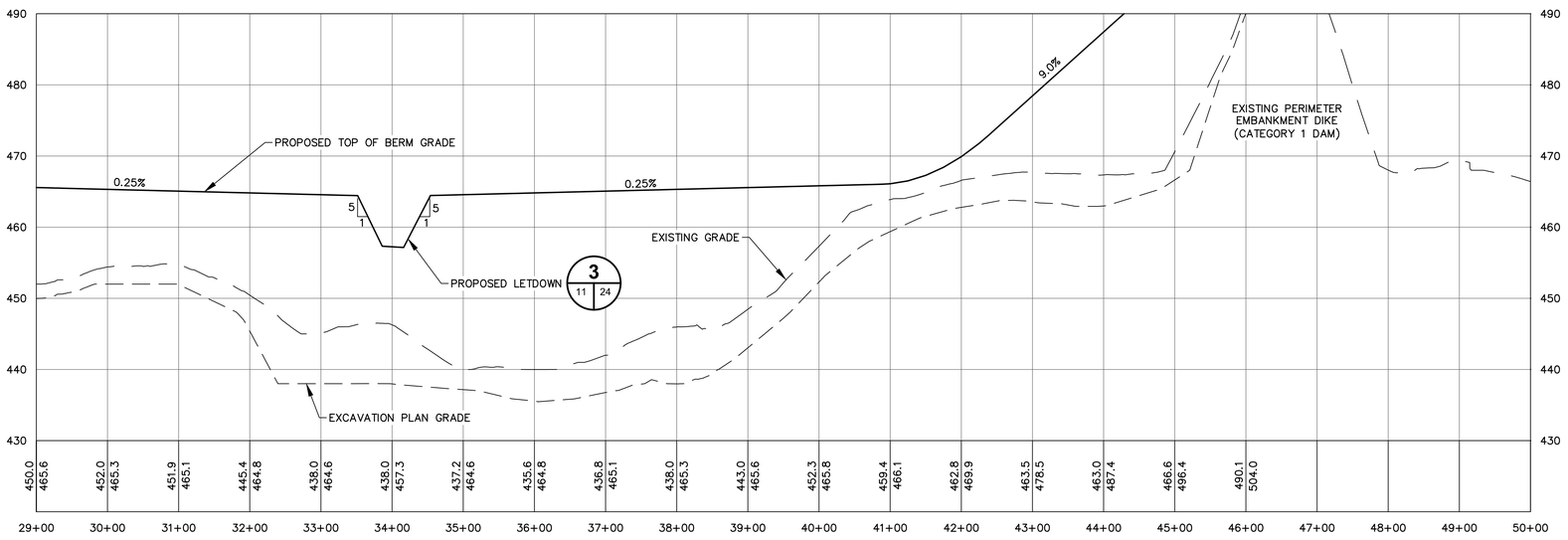
PROJ. NO.: 60563110		DWG. NA	EDIT REVISION 0
SCALE: AS SHOWN		SHEET 10 OF 28	
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_10 North Berm_PP.dwg User:Mcovinewa Nov 16, 2018 – 9:55am



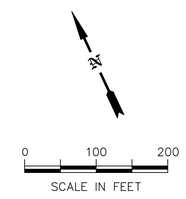
NORTH BERM PLAN - STA 3+00 TO 29+00

SCALE: 1"=100'



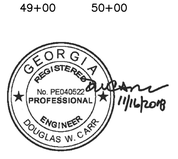
NORTH BERM PROFILE - STA 3+00 TO 29+00

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



NOTES

1. THE EXISTING GRADE CONTOURS SHOWN REPRESENT APPROXIMATE SITE CONDITIONS AFTER THE COMPLETION OF THE NORTH AREA EXCAVATION.



Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

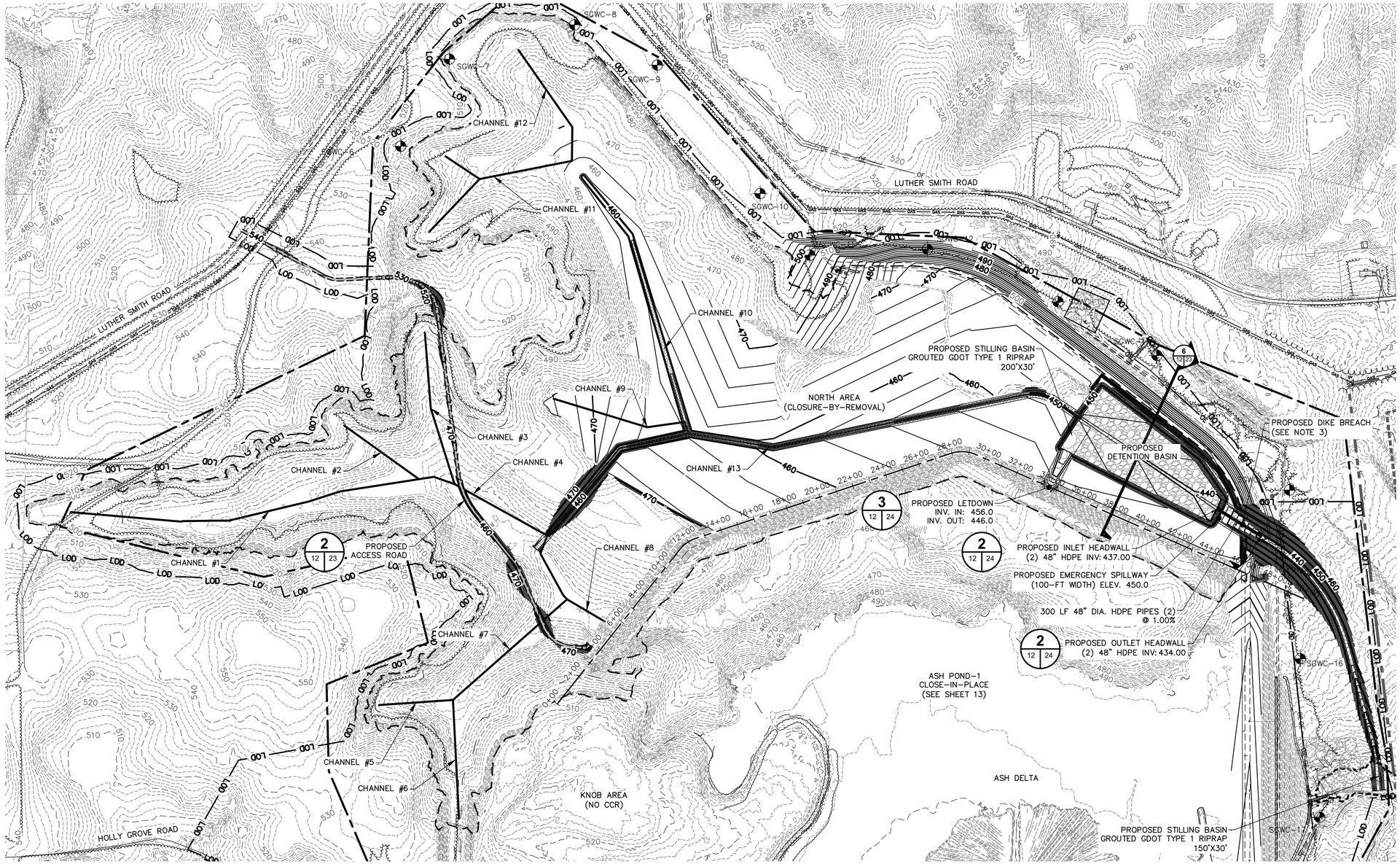
PROPOSED NORTH BERM PLAN & PROFILE II

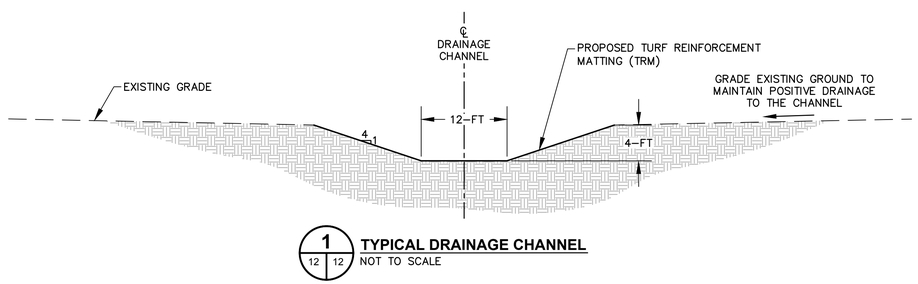
CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

AECOM
(919) 461-1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: AS SHOWN	SHEET 11 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_10 North Berm_PP.dwg User:Mcovinewa Nov 16, 2018 - 9:55am





1 | 12 | 12 **TYPICAL DRAINAGE CHANNEL**
NOT TO SCALE

N

0 300 600
SCALE IN FEET

LEGEND

PROPOSED DRAINAGE CHANNEL

NOTES

1. EXISTING CONTOURS WITHIN THE NORTH AREA (CLOSURE-BY-REMOVAL) REPRESENT THE BOTTOM OF EXCAVATION GRADES FROM SHEET 7.
2. THIS DRAWING DEPICTS POST-CLOSURE CONTOURS IN THE NORTH AREA.
3. BREACH OF DIKE TO OCCUR ONLY AFTER ASH POND CLOSURE IS COMPLETE. PUMP STATION SHALL BE USED FOR TREATMENT UNTIL BREACH OF DIKE OCCURS. SEE SHEETS 18 & 19.
4. SEE SHEET 25 FOR CHANNEL GEOMETRY AND ARMORING SCHEDULE.

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

NORTH AREA GRADING PLAN
CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

AECOM
(919) 461-1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: 1"=300'	SHEET 12 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_12 North Area Grading Plan.dwg User:Mcavinewa Nov 16, 2018 - 9:57am

PROPOSED NORTH AREA GRADING (SEE SHEET 12)

PROPOSED NORTH BERM GRADING (SEE SHEETS 10 & 11)

PROPOSED LETDOWN

PROPOSED DIKE BREACH (SEE NOTE 3)

PROPOSED STILLING BASIN GROUTED GDOT TYPE 1 RIPRAP

PROPOSED INTERIOR CAP SWALE (TYP)

TEMPORARY CONSTRUCTION LETDOWN TO BERRY CREEK

PROPOSED CAP SYSTEM PERIMETER DITCH (TYP)

KNOB AREA

PROPOSED SOUTHWEST SPILLWAY CHANNEL (SEE SHEET 17)

SCALE IN FEET

0 250 500

LEGEND

LIMITS OF CLOSURE

NOTES

1. GRADING DEPICTS THE TOP OF FINAL COVER.
2. SEE SHEET 25 FOR CHANNEL GEOMETRY AND ARMORING SCHEDULE.
3. BREACH OF DIKE TO OCCUR ONLY AFTER ASH POND CLOSURE IS COMPLETE. PUMP STATION SHALL BE USED FOR TREATMENT UNTIL BREACH OF DIKE OCCURS. SEE SHEETS 18 & 19.

GEORGIA REGISTERED No. PE024629 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

PROPOSED FINAL COVER GRADING PLAN

CCR CLOSURE

FOR

GEORGIA POWER

PLANT SCHERER ASH POND-1

MONROE COUNTY, GEORGIA

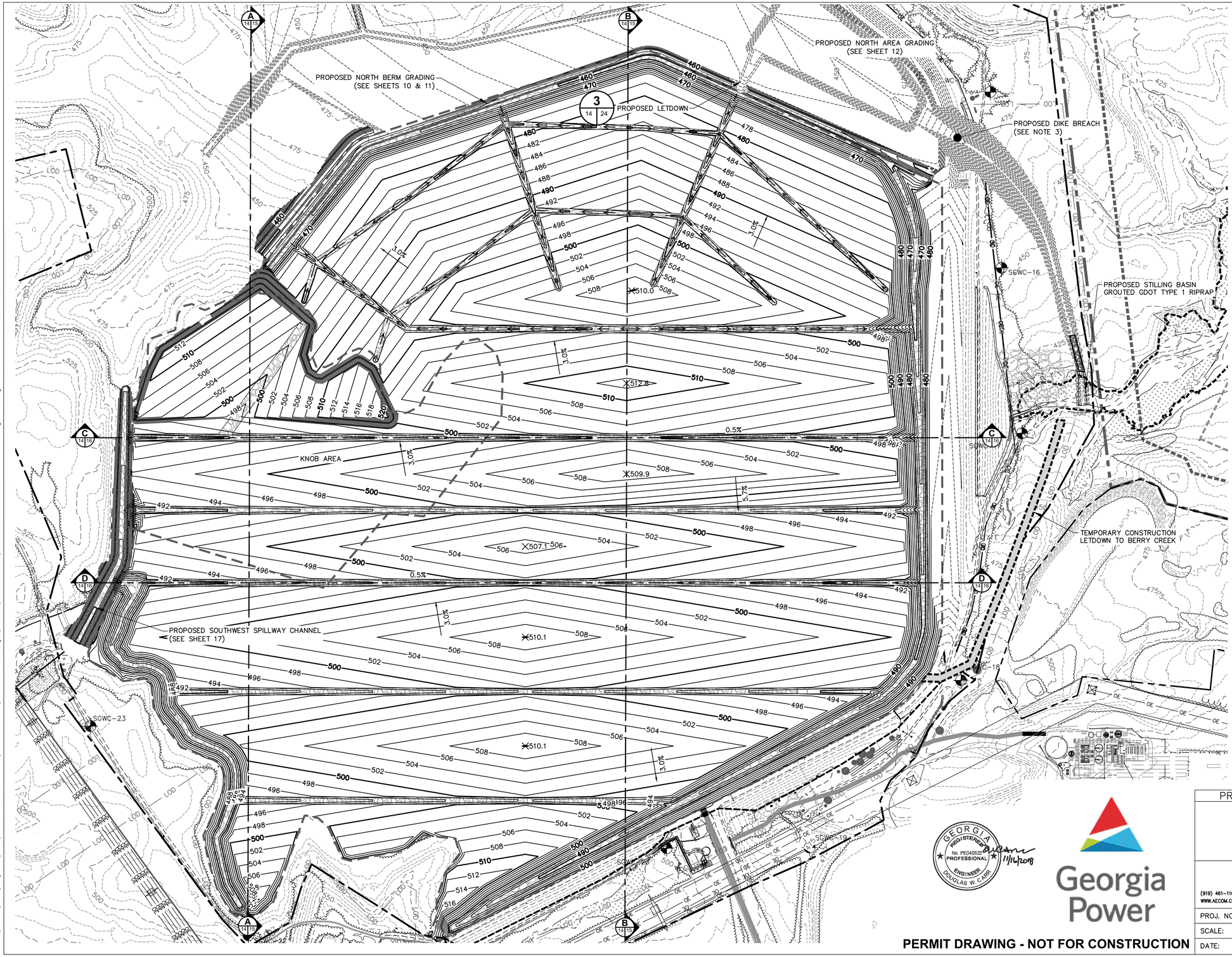
AECOM

(919) 461-1100
WWW.AECOM.COM

1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: 1"=250'	SHEET 13 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_13 Proposed Final Cover Grading Plan.dwg User:Mcavinewa Nov 16, 2018 - 10:13am



N

0 250 500

SCALE IN FEET

LEGEND

LIMITS OF CLOSURE

NOTES

1. THE PROPOSED GRADING SHOWN IS THE SUBGRADE LEVEL FOR ENGINEERED TURF.
2. SEE SHEET 25 FOR CHANNEL GEOMETRY AND ARMORING SCHEDULE.
3. BREACH OF DIKE TO OCCUR ONLY AFTER ASH POND CLOSURE IS COMPLETE. PUMP STATION SHALL BE USED FOR TREATMENT UNTIL BREACH OF DIKE OCCURS. SEE SHEETS 18 & 19.

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

PROPOSED ALTERNATIVE FINAL COVER PLAN

CCR CLOSURE

FOR

GEORGIA POWER

PLANT SCHERER ASH POND-1

MONROE COUNTY, GEORGIA

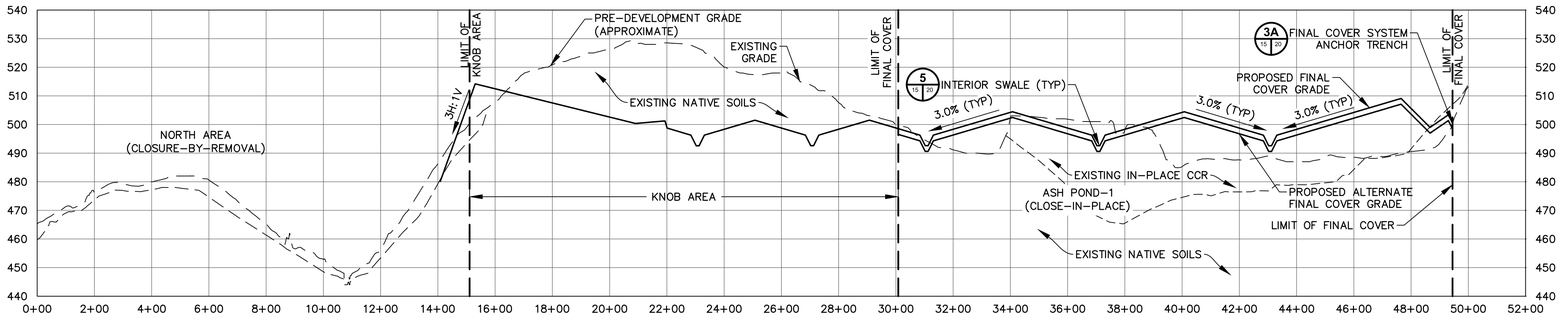
AECOM

(919) 461-1100
WWW.AECOM.COM

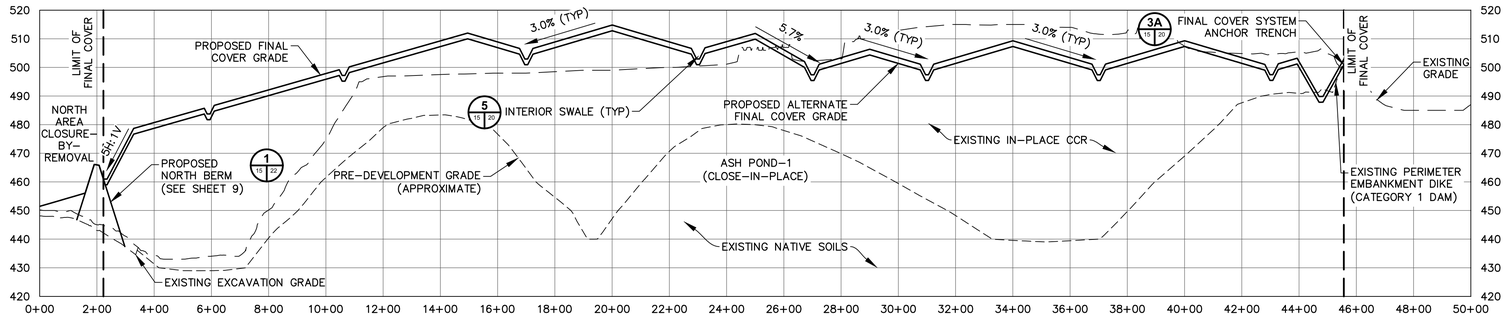
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: 1"=250'	SHEET 14 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_14 Proposed Alternative Final Cover Grading Plan.dwg User:Mcavinewa Nov 16, 2018 - 10:15am



SECTION A - A
HORIZONTAL SCALE: 1"=250'
VERTICAL SCALE: 1"=25'



SECTION B - B
HORIZONTAL SCALE: 1"=250'
VERTICAL SCALE: 1"=25'

NOTES

1. HISTORICAL USGS TOPOGRAPHY IS REPRESENTED BY THE PRE-DEVELOPMENT GRADES SHOWN.
2. THE ELEVATIONS OF THE PROPOSED SUBGRADE ARE EQUIVALENT TO THE TOP OF ALTERATIVE COVER GRADES.
3. SEE DETAILS 2 AND 3B ON SHEET 20 FOR ALTERNATIVE FINAL COVER SYSTEM AND ANCHOR TRENCH DETAILS.

0 250 500
HORIZONTAL SCALE (FT)

0 25 50
VERTICAL SCALE (FT)

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

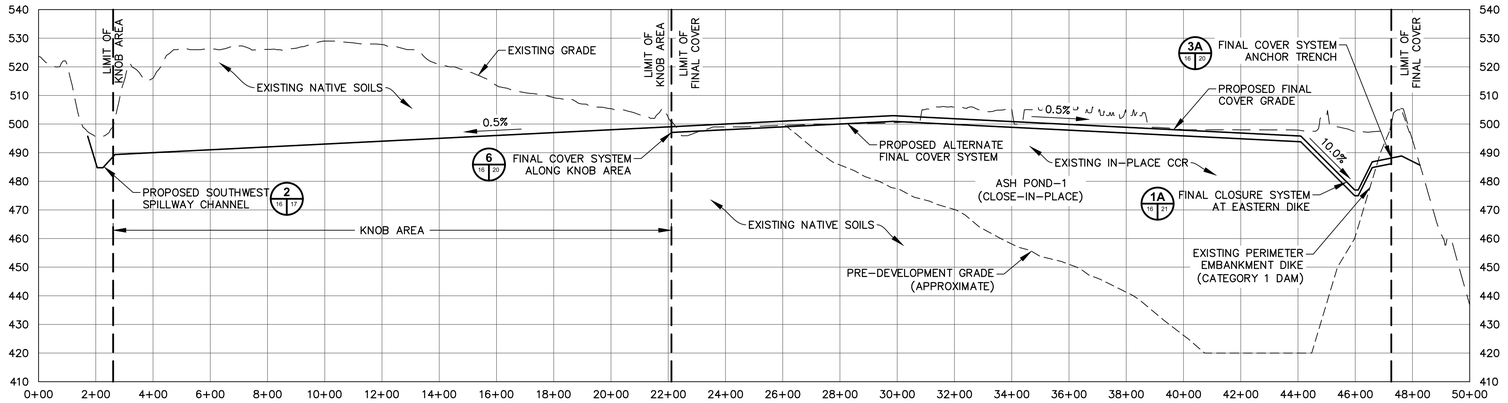
PERMIT DRAWING - NOT FOR CONSTRUCTION

PROPOSED ASH POND CROSS SECTIONS I
CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

AECOM
(919) 461-1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

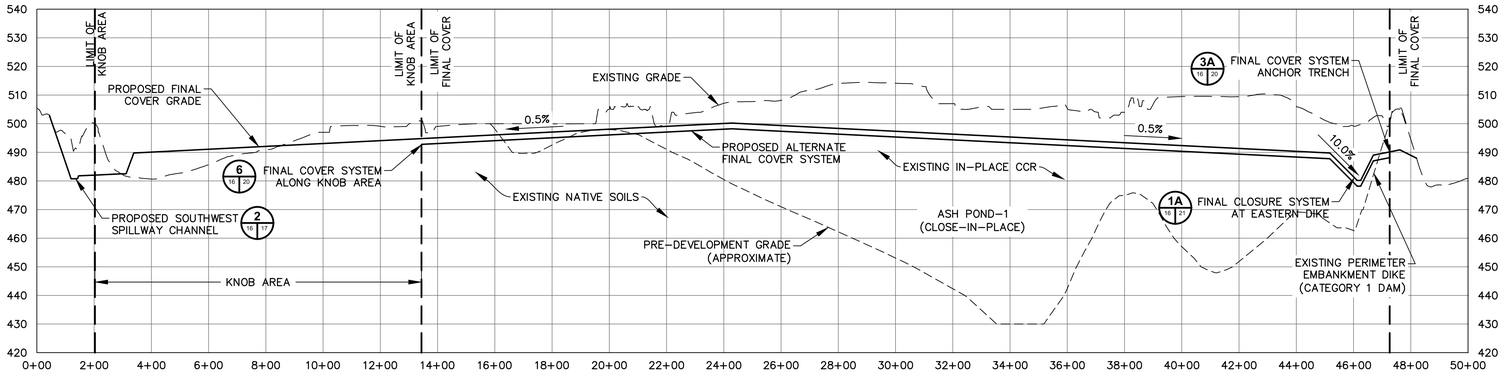
PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: AS SHOWN	SHEET 15 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoScherer\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_15 Cop Profiles.dwg User:Mcavinewa Nov 16, 2018 - 10:16am



SECTION C - C

HORIZONTAL SCALE: 1"=250'
VERTICAL SCALE: 1"=25'



SECTION D - D

HORIZONTAL SCALE: 1"=250'
VERTICAL SCALE: 1"=25'

NOTES

1. HISTORICAL USGS TOPOGRAPHY IS REPRESENTED BY THE PRE-DEVELOPMENT GRADES SHOWN.
2. THE ELEVATIONS OF THE PROPOSED SUBGRADE ARE EQUIVALENT TO THE TOP OF ALTERATIVE COVER GRADES.
3. SEE DETAILS 2 AND 3B ON SHEET 20 FOR ALTERNATIVE FINAL COVER SYSTEM AND ANCHOR TRENCH DETAILS.

0 250 500
HORIZONTAL SCALE (FT)

0 25 50
VERTICAL SCALE (FT)

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

PROPOSED ASH POND CROSS SECTIONS II

CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

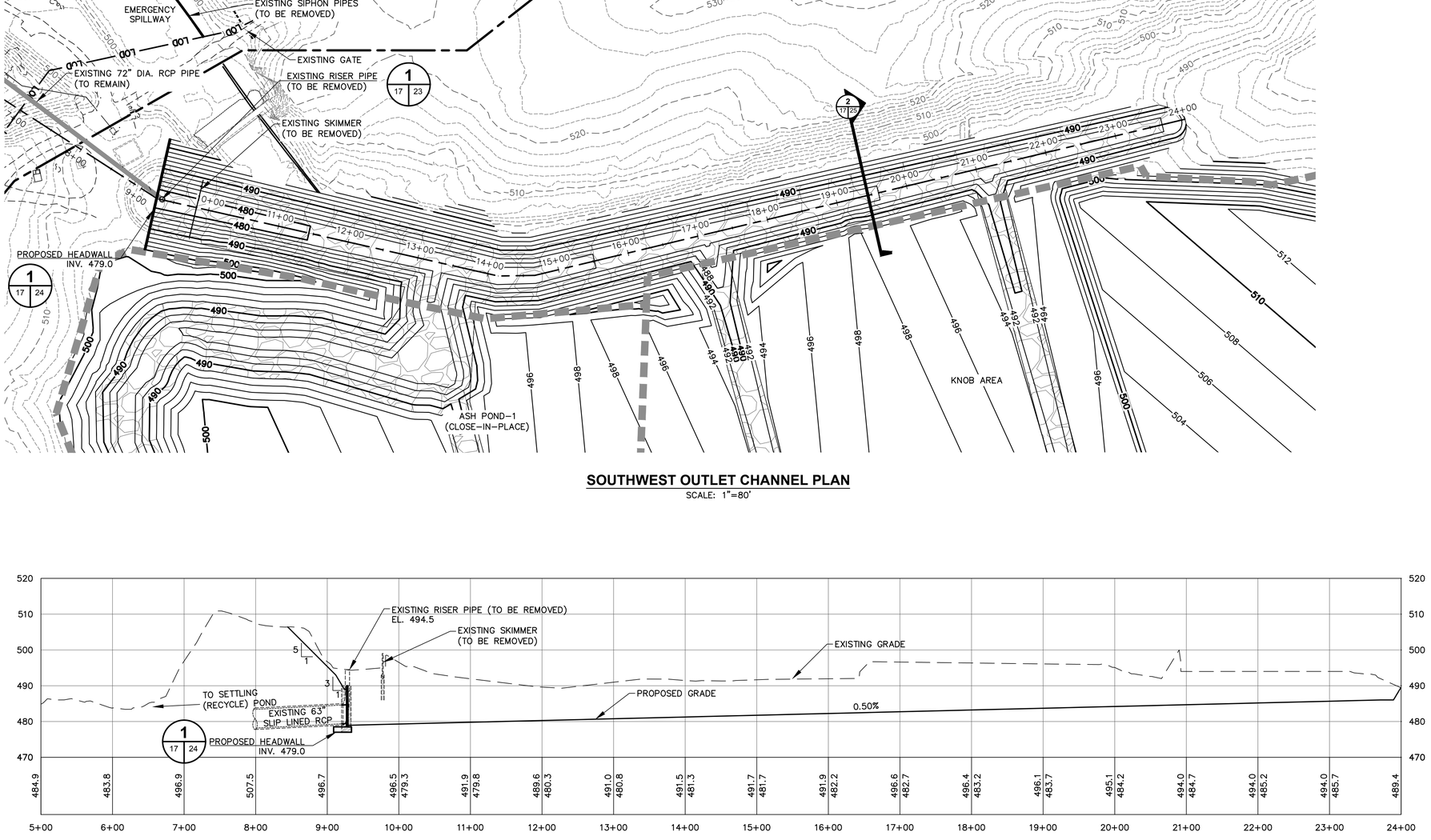
AECOM
(919) 461-1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT REVISION 0	
SCALE: AS SHOWN	SHEET 16 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoScherer\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_15 Cap Profiles.dwg User:Mcavinewa Nov 16, 2018 - 10:17am

SOUTHWEST OUTLET CHANNEL PLAN

SCALE: 1"=80'



SOUTHWEST OUTLET CHANNEL PROFILE

HORIZONTAL SCALE: 1"=80'
VERTICAL SCALE: 1"=16'

0 80 160
SCALE IN FEET

LEGEND

LIMITS OF FINAL CLOSURE

NOTES

1. SOUTHWEST OUTLET CHANNEL TO BE LINED WITH GDOT TYPE 3 RIPRAP AT A DEPTH OF 15-IN.

GEORGIA REGISTERED No. PE040622 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

SOUTHWEST OUTLET CHANNEL PLAN & PROFILE
CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

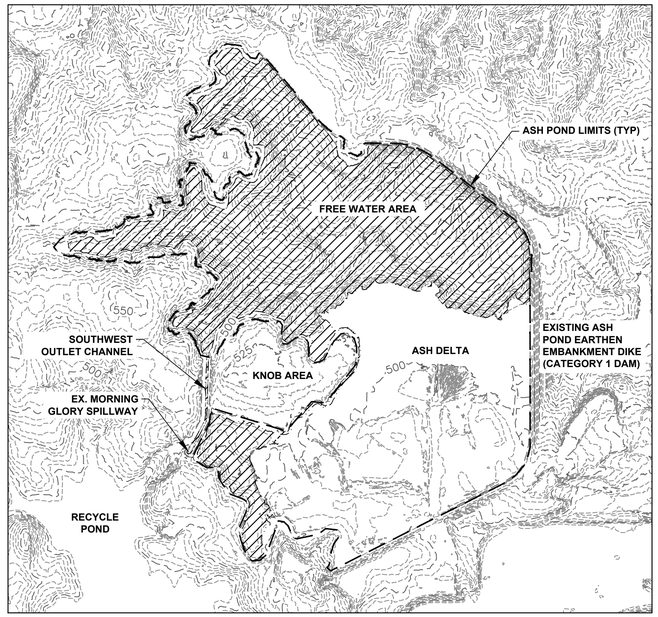
AECOM
(919) 461-1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: AS SHOWN	SHEET 17 OF 28		
DATE: NOVEMBER 2018			

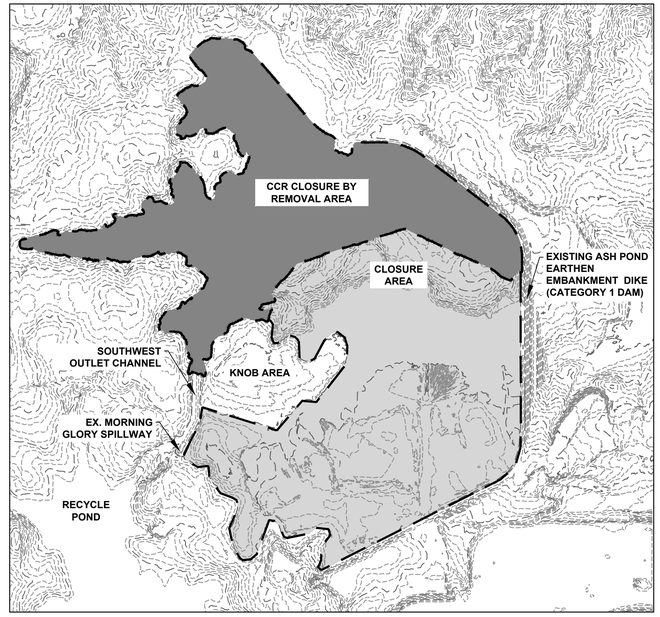
G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_17 SW Spillway_PP.dwg User:Mcavinewa Nov 16, 2018 - 10:19am

PHASE I ACTIVITIES:

- INITIATE CLOSURE ACTIVITIES
- INSTALL EROSION AND SEDIMENT CONTROLS
- CEASE ACTIVE ASH DISPOSAL
- CONSTRUCT TREATMENT FACILITY, INSTALL PLATFORMS FOR PUMPS, AND INSTALL WELL POINTS FOR DEWATERING
- DIVERT AND MANAGE STORMWATER RUN-ON
- COMMENCE REMOVAL OF FREEWATER FROM ASH POND
- COMMENCE DEWATERING OF ASH DELTA WITHIN ASH POND
- COMMENCE INITIAL GRADING ACTIVITIES OF CONSOLIDATED CLOSE-IN-PLACE FOOTPRINT
- COMPLETE DEMOLITION OF EXISTING SITE FEATURES
- CLEAR AND GRUB KNOB AREA, STAGING AREAS, TREATMENT FACILITY AREA, AND EASTERN REGION ALONG OUTLET CHANNEL TO BERRY CREEK
- COMPLETE UTILITY RELOCATIONS, AS NEEDED



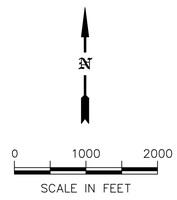
PHASE I
SCALE: 1"=1000'



PHASE II
SCALE: 1"=1000'

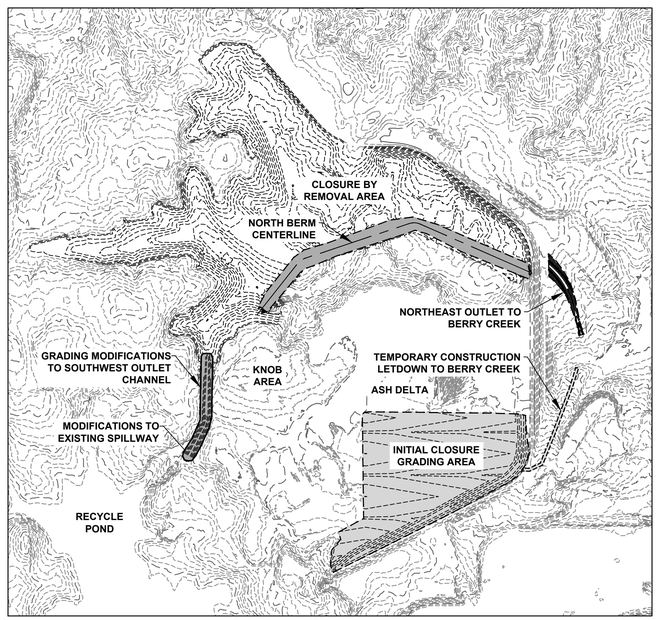
PHASE II ACTIVITIES:

- CONTINUE TO REMOVE FREEWATER FROM ASH POND
- COMMENCE REMOVAL OF CCR WITHIN CLOSURE-BY-REMOVAL AREA AND PLACEMENT WITHIN THE CLOSE-IN-PLACE FOOTPRINT AREA
- CONTINUE DEWATERING ACTIVITIES WITHIN THE ASH DELTA WITHIN THE CONSOLIDATED CLOSE-IN-PLACE FOOTPRINT
- CONTINUE CLOSE-IN-PLACE FOOTPRINT GRADING TO FINAL COVER SUBGRADE
- COMMENCE FINAL COVER SYSTEM CONSTRUCTION WITHIN COMPLETED SUBGRADE AREAS
- COMMENCE KNOB AREA GRADING

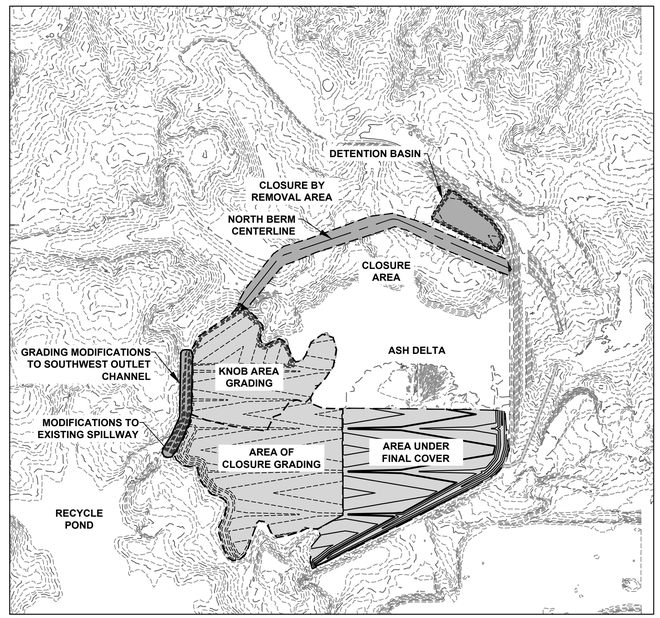


PHASE III ACTIVITIES:

- FREEWATER IS COMPLETELY REMOVED
- CONTINUE TO MANAGE STORMWATER RUN-ON AND DEWATERING FLOWS
- COMPLETE REMOVAL OF CCR MATERIALS WITHIN PROPOSED NORTH BERM FOOTPRINT AND CONSTRUCT NORTH BERM
- CONTINUE TO REMOVE CCR FROM THE CLOSURE-BY-REMOVAL AREA
- CONSTRUCT NORTHEAST OUTLET CHANNEL TO BERRY CREEK, DOWNSTREAM OF EXISTING PERIMETER EMBANKMENT (DO NOT BREACH DIKE)
- CONSTRUCT TEMPORARY CONSTRUCTION LETDOWN STRUCTURE TO BERRY CREEK (DO NOT BREACH DIKE)
- CONTINUE CLOSE-IN-PLACE FOOTPRINT GRADING TO FINAL COVER SUBGRADE
- CONTINUE FINAL COVER SYSTEM CONSTRUCTION WITHIN COMPLETED SUBGRADE AREAS OF CLOSE-IN-PLACE FOOTPRINT
- COMMENCE MODIFICATIONS TO SOUTHWEST OUTLET CHANNEL AND MODIFICATIONS TO EXISTING SPILLWAY



PHASE III
SCALE: 1"=1000'



PHASE IV
SCALE: 1"=1000'

PHASE IV ACTIVITIES:

- CONTINUE TO MANAGE STORMWATER RUN-ON AND DEWATERING FLOWS
- COMPLETE NORTH BERM CONSTRUCTION
- COMPLETE REMOVAL OF CCR FROM CLOSURE-BY-REMOVAL AREA
- CONSTRUCT DETENTION BASIN AND STORMWATER MANAGEMENT FEATURES WITHIN THE CLOSURE-BY-REMOVAL AREA (DO NOT BREACH DIKE)
- CONTINUE KNOB AREA GRADING
- CONTINUE CLOSE-IN-PLACE FOOTPRINT GRADING TO FINAL COVER SUBGRADE
- CONTINUE FINAL COVER SYSTEM CONSTRUCTION WITHIN COMPLETED SUBGRADE AREAS OF CLOSE-IN-PLACE FOOTPRINT
- COMPLETE MODIFICATIONS TO SOUTHWEST OUTLET CHANNEL AND EXISTING SPILLWAY



Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

CONSTRUCTION SEQUENCING PLAN I

CCR CLOSURE

FOR

GEORGIA POWER
PLANT SCHERER ASH POND-1

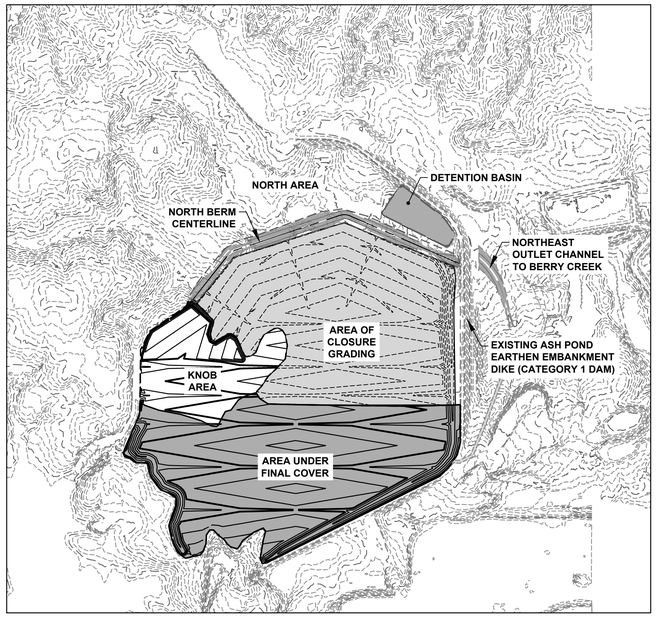
MONROE COUNTY, GEORGIA

AECOM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560
(919) 461-1100
WWW.AECOM.COM

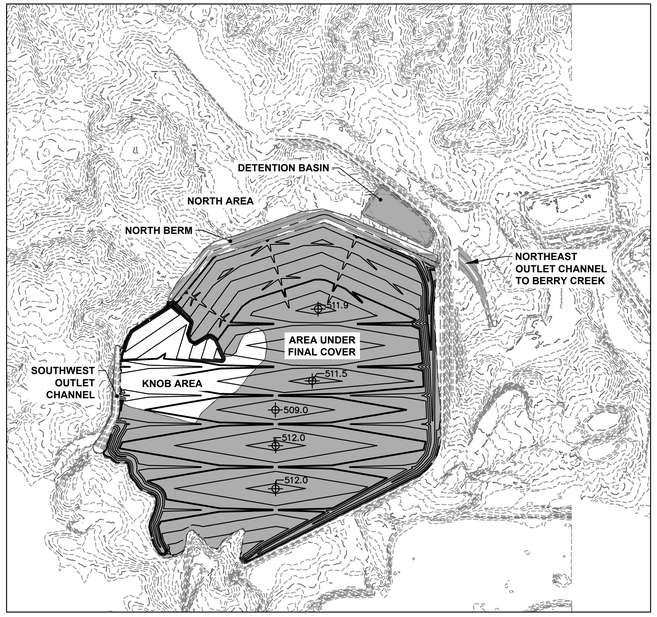
PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: 1" = 1000'	SHEET 18 OF 28		
DATE: NOVEMBER 2018			

PHASE V ACTIVITIES:

- CONTINUE TO MANAGE STORMWATER RUN-ON AND DEWATERING FLOWS
- CONTINUE CLOSE-IN-PLACE FOOTPRINT GRADING TO FINAL COVER SUBGRADE
- CONTINUE GRADING OF KNOB AREA
- CONTINUE FINAL COVER SYSTEM CONSTRUCTION WITHIN COMPLETED SUBGRADE AREAS OF CLOSE-IN-PLACE FOOTPRINT



PHASE V
SCALE: 1"=1000'



PHASE VI
SCALE: 1"=1000'

PHASE VI ACTIVITIES:

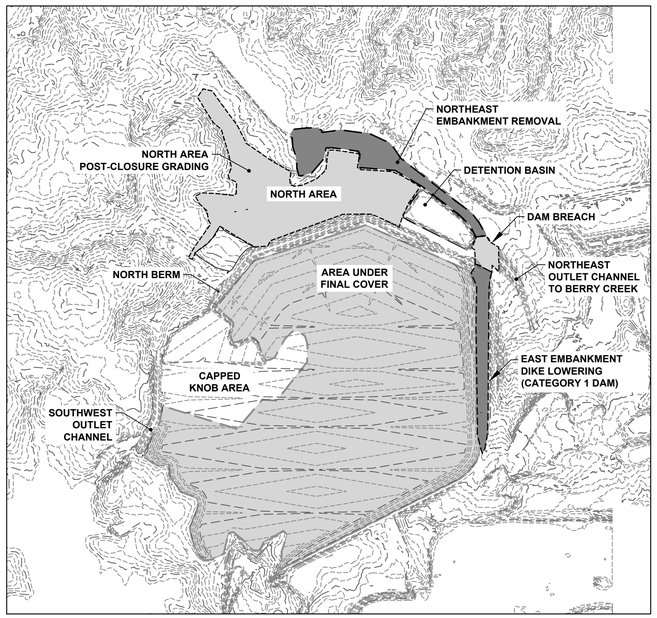
- CONTINUE TO MANAGE STORMWATER RUN-ON
- COMPLETE FINAL COVER SYSTEM CONSTRUCTION WITHIN CLOSE-IN-PLACE FOOTPRINT
- CEASE DEWATERING ACTIVITIES

N

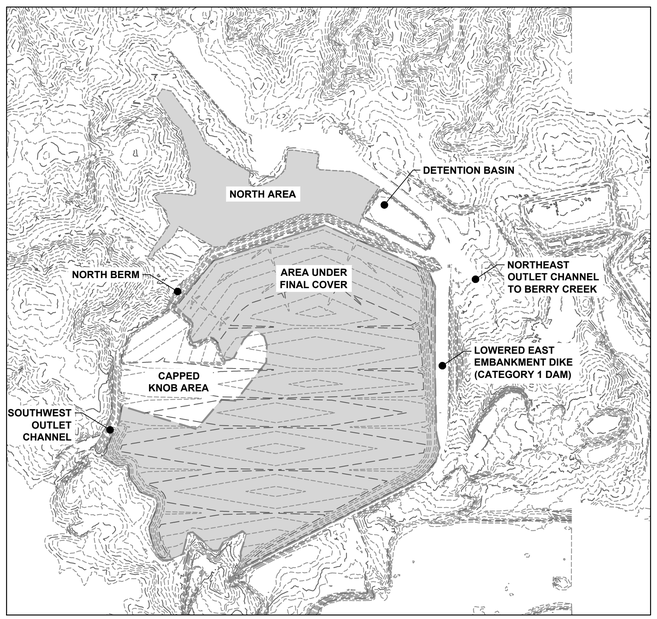
0 1000 2000
SCALE IN FEET

PHASE VII ACTIVITIES:

- BREACH DIKE AND COMPLETE GRADING FROM THE DETENTION BASIN TO THE NORTHEAST OUTLET CHANNEL
- REMOVE NORTHEAST EMBANKMENT
- LOWER EAST EMBANKMENT DIKE CREST FOR POST-CLOSURE CONDITIONS
- GRADE NORTH AREA TO PROMOTE SURFACE DRAINAGE TOWARD DRAINAGE CHANNELS TO CONVEY POST-CLOSURE SURFACE WATER TO BERRY CREEK



PHASE VII
SCALE: 1"=1000'



PHASE VIII
SCALE: 1"=1000'

PHASE VIII ACTIVITIES:

- CEASE EARTHWORK ACTIVITIES AND REMOVE SITE DEBRIS AND EXCESS MATERIALS
- ESTABLISH VEGETATION IN ALL DISTURBED AREAS AND RESEED AS NECESSARY
- REMOVE CONSTRUCTION SEDIMENT AND EROSION CONTROL MEASURES
- PERFORM SITE INSPECTION AND CONSTRUCTION PUNCHLIST
- REMOVE CONSTRUCTION TRAILERS AND DEMOBILIZE CONSTRUCTION EQUIPMENT
- NOTIFY DIRECTOR OF GEORGIA ENVIRONMENTAL PROTECTION DIVISION OF CLOSURE COMPLETION

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR
11/14/2018

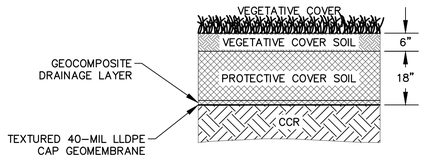
Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

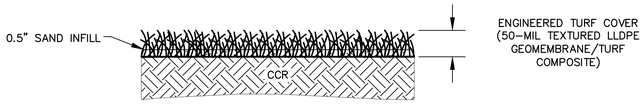
CONSTRUCTION SEQUENCING PLAN II
CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

AECOM
(919) 461-1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

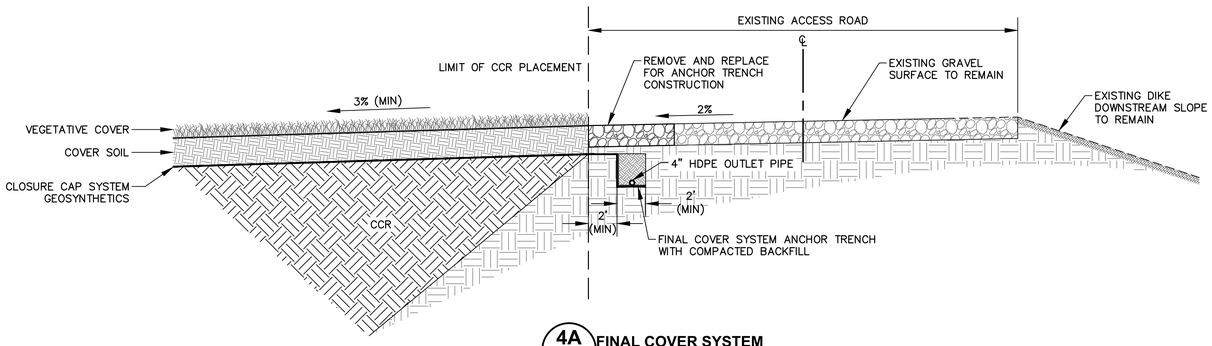
PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: NONE	SHEET 19 OF 28		
DATE: NOVEMBER 2018			



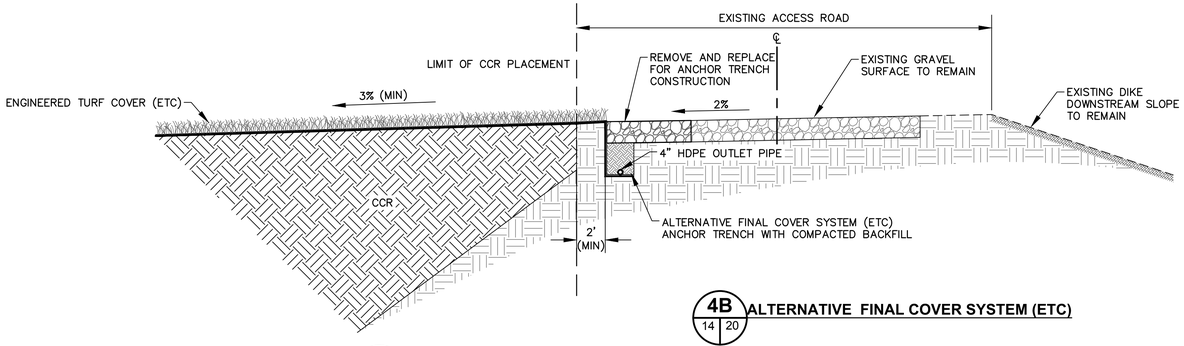
1 — FINAL COVER SYSTEM (15 | 20, 1" = 2', 16)



2 — ALTERNATIVE FINAL COVER SYSTEM (ETC) (15 | 20, 1" = 5', 16)

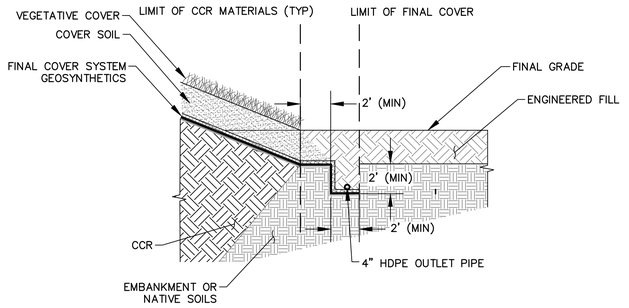


4A — FINAL COVER SYSTEM (13 | 20)

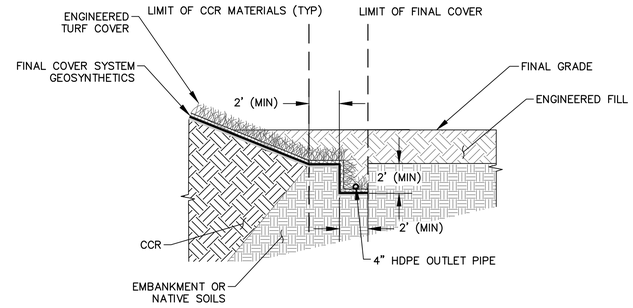


4B — ALTERNATIVE FINAL COVER SYSTEM (ETC) (14 | 20)

4 — FINAL COVER SYSTEM ALONG SOUTH PERIMETER EMBANKMENT DIKE (13 | 20, 1" = 5', 14)

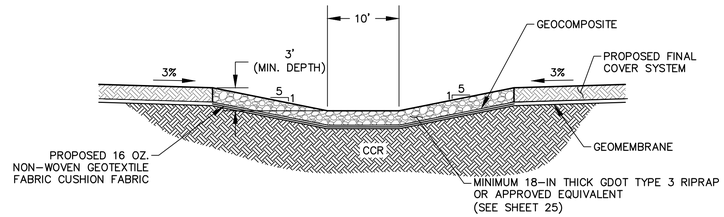


3A — FINAL COVER SYSTEM ANCHOR TRENCH (15 | 20, 16)

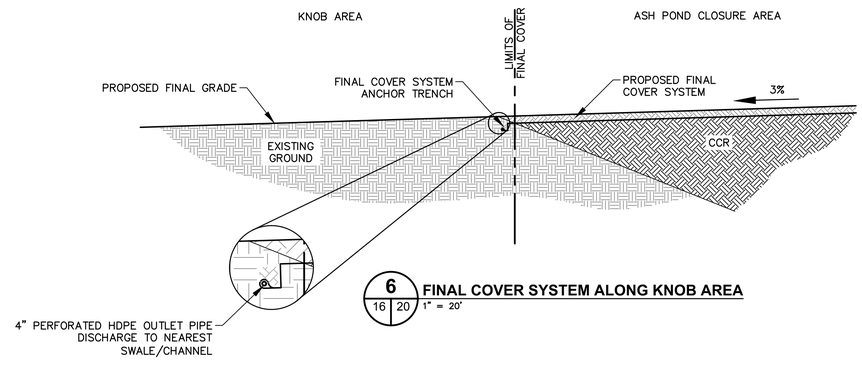


3B — ALTERNATIVE FINAL COVER SYSTEM (ETC) ANCHOR TRENCH (15 | 20, 16)

3 — FINAL COVER SYSTEM ANCHOR TRENCH (15 | 20, 1" = 5', 16)



5 — INTERIOR CAP SWALE TYPICAL DETAIL (13 | 20, 1" = 10', 14)



6 — FINAL COVER SYSTEM ALONG KNOB AREA (16 | 20, 1" = 20')

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

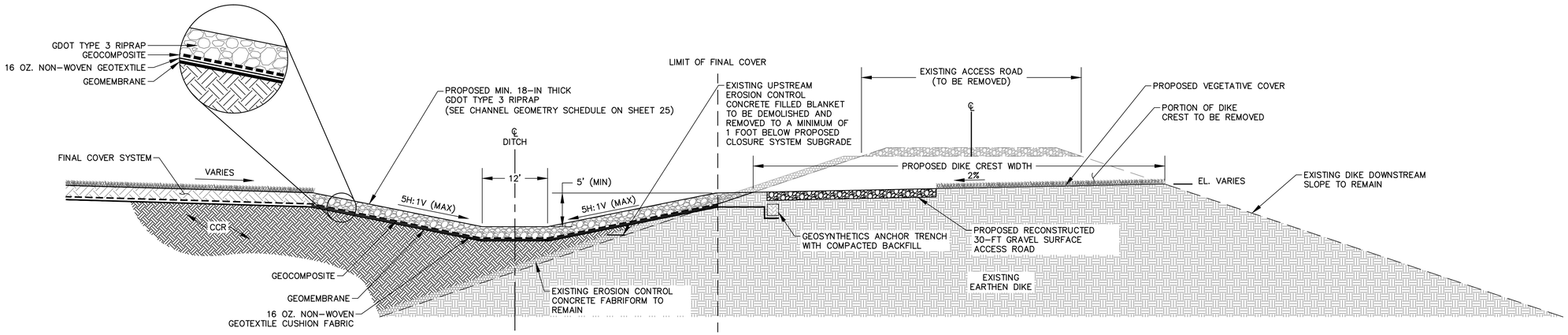
CLOSURE SYSTEM DETAILS I

CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

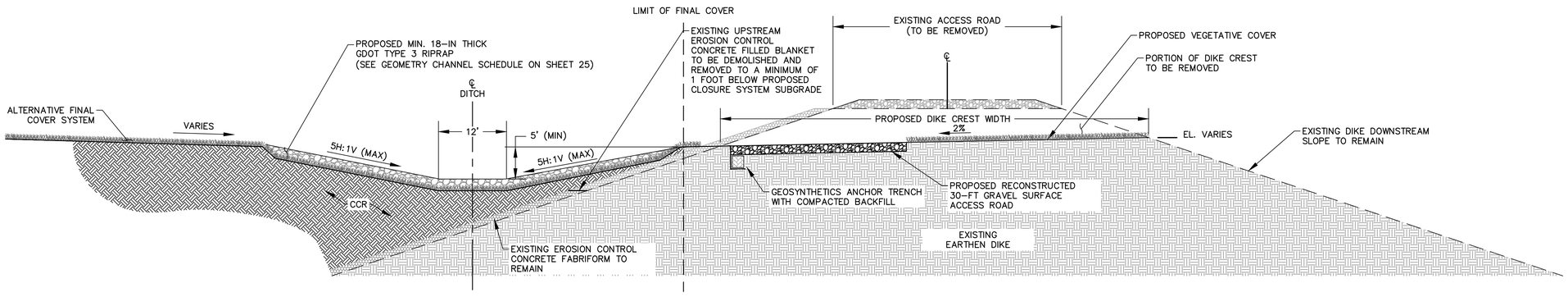
AECOM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560
(919) 461-1100
WWW.AECOM.COM

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: NOT TO SCALE	SHEET 20 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_20 Closure System Details.dwg User:Mcovinewa Nov 16, 2018 - 10:27am



1A (13 | 21) **FINAL CLOSURE SYSTEM AT EAST PERIMETER EMBANKMENT DIKE**



1B (14 | 21) **ALTERNATIVE FINAL CLOSURE SYSTEM AT EAST PERIMETER EMBANKMENT DIKE**

1 (13 | 21 / 14) **FINAL CLOSURE SYSTEM AND PERIMETER DRAINAGE CHANNEL ALONG EAST PERIMETER EMBANKMENT DIKE**
1" = 10'

GEORGIA REGISTERED No. PE040622 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

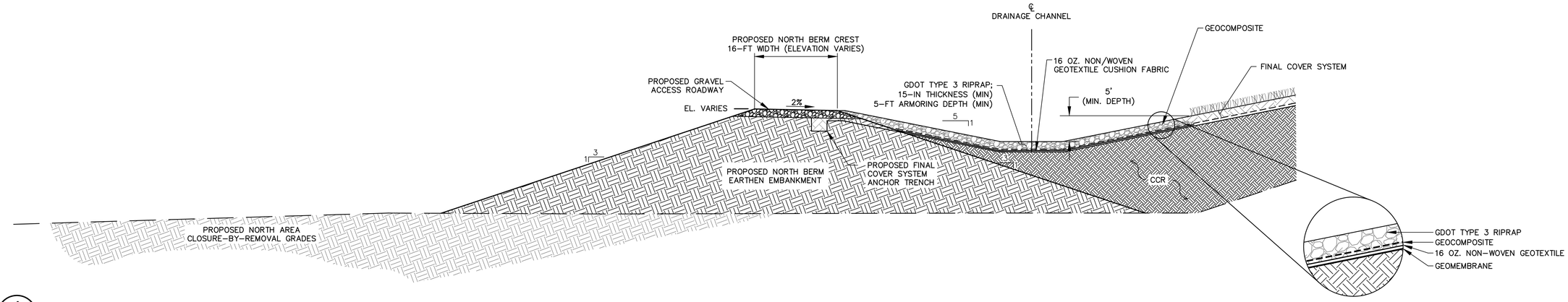
CLOSURE SYSTEM DETAILS II

CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

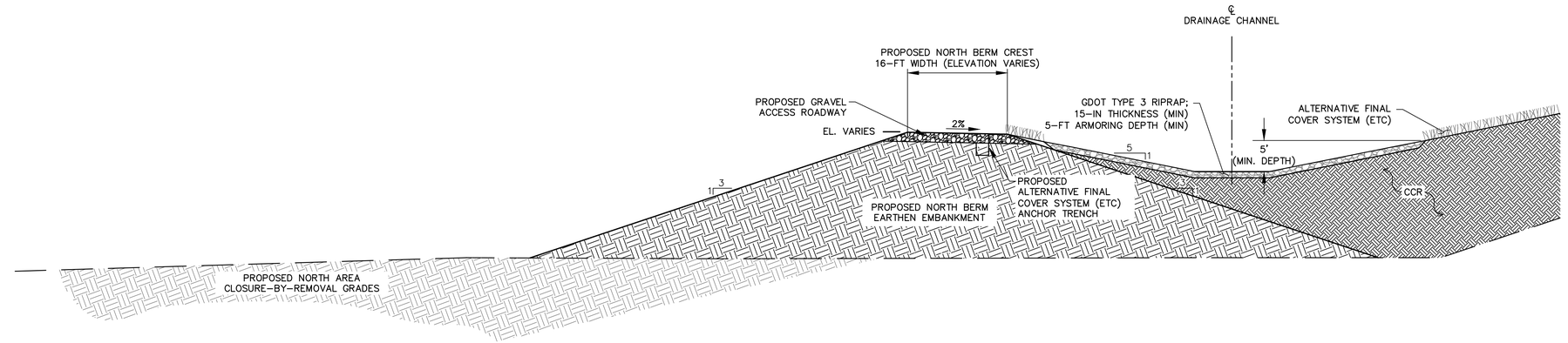
AECOM
(919) 461-1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: NOT TO SCALE	SHEET 21 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoScherer\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_20 Closure System Details.dwg User:Mcovinewa Nov 16, 2018 - 10:27am



1 TYPICAL NORTH BERM SECTION - FINAL COVER DESIGN
15 | 22
1" = 10'



2 TYPICAL NORTH BERM SECTION - ALTERNATIVE DESIGN
14 | 22
1" = 10'

GEORGIA REGISTERED No. PE040622 PROFESSIONAL ENGINEER DOUGLAS W. CARR
11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

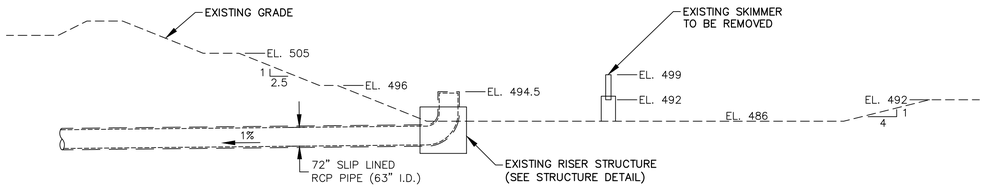
CLOSURE SYSTEM DETAILS III

CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND–1
MONROE COUNTY, GEORGIA

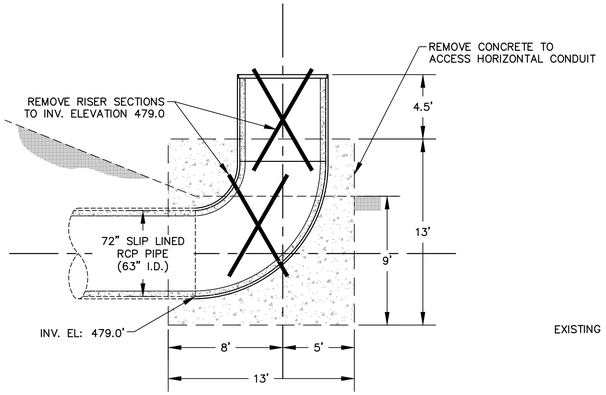
AECOM
(919) 461–1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110		DWG. NA	EDIT REVISION 0
SCALE:	NOT TO SCALE	SHEET 22 OF 28	
DATE:	NOVEMBER 2018		

G:\Akron\DCS\Projects\ENV\60563110_SoCoScherer\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_20 Closure System Details.dwg User:Mcovinewa Nov 16, 2018 - 10:27am

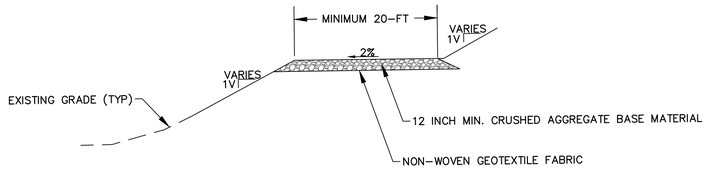


SOUTHWEST SPILLWAY CHANNEL PROFILE

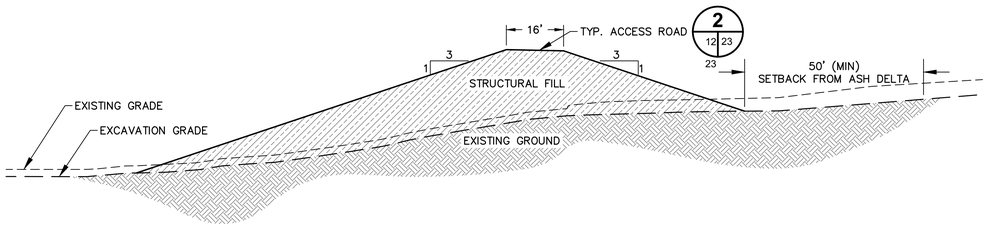


SOUTHWEST SPILLWAY RISER STRUCTURE

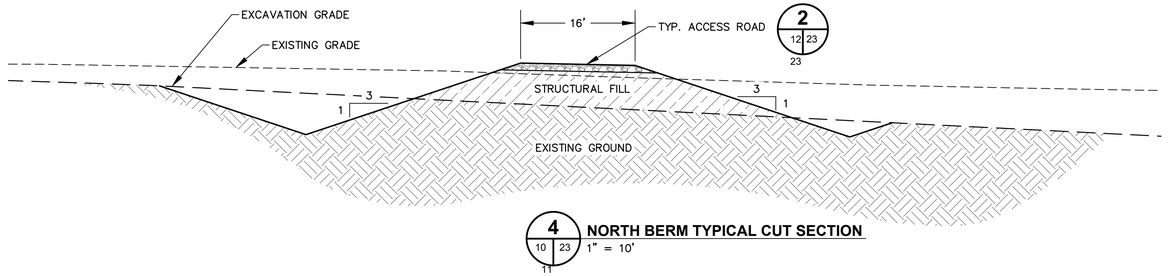
1 / 6 / 23 / 18 — SOUTHWEST MORNING GLORY SPILLWAY MODIFICATION DETAILS
1" = 20'



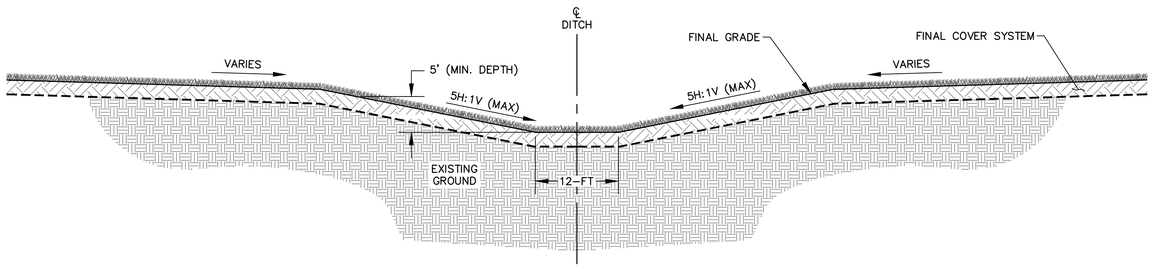
2 / 12 / 23 / 23 — TYPICAL ACCESS ROADWAY SECTION
1" = 10'



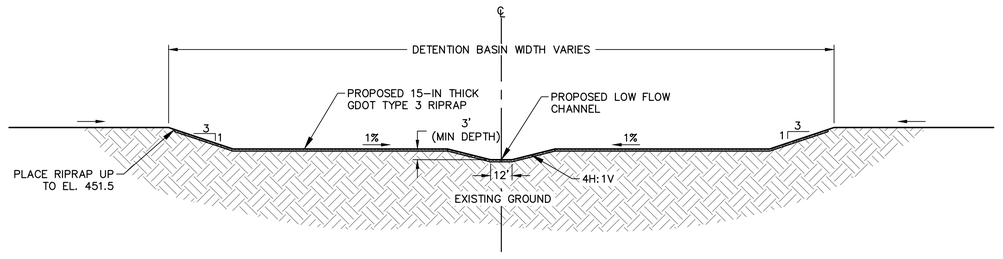
3 / 10 / 23 / 11 — NORTH BERM TYPICAL FILL SECTION
1" = 20'



4 / 10 / 23 / 11 — NORTH BERM TYPICAL CUT SECTION
1" = 10'



5 / 13 / 23 — PERIMETER CHANNEL TYPICAL SECTION
1" = 10'



6 / 12 / 23 — DETENTION BASIN TYPICAL SECTION
1" = 40'

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

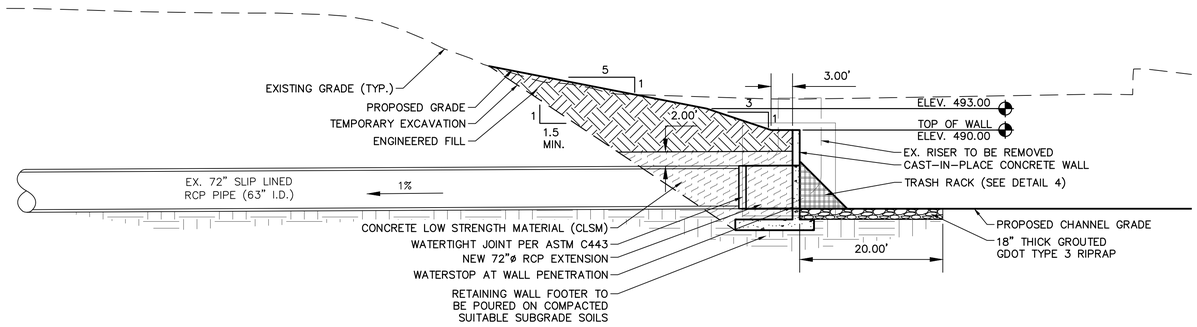
MISCELLANEOUS DETAILS I

CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

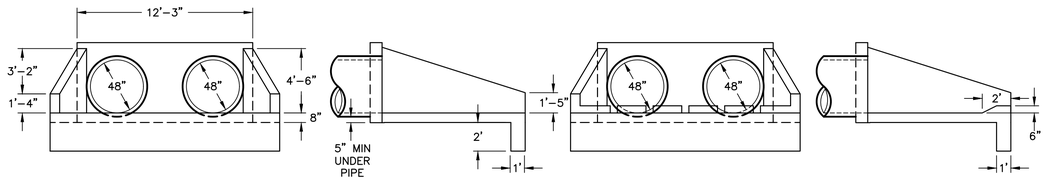
AECOM
(919) 461-1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: AS SHOWN	SHEET 23 OF 28		
DATE: NOVEMBER 2018			

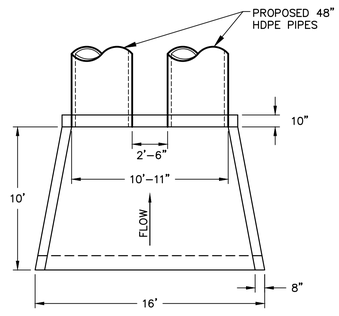
G:\Akron\DCS\Projects\ENV\60563110_SoCoScherer\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_23 Miscellaneous Details.dwg User:Mcovinewa Nov 16, 2018 - 10:28am



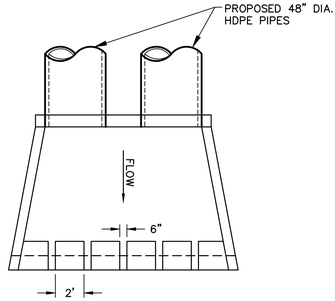
1 SOUTHWEST SPILLWAY HEADWALL SECTION
16 | 24 — 1" = 10'
17



INLET FRONT ELEVATION — INLET PROFILE — OUTLET FRONT ELEVATION — OUTLET PROFILE



INLET PLAN VIEW

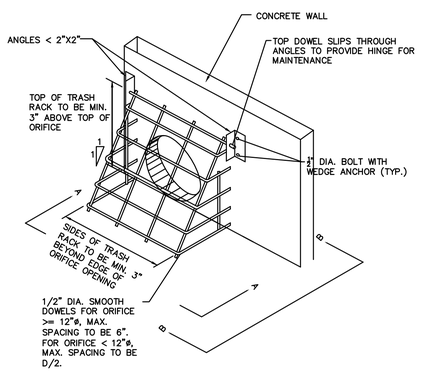


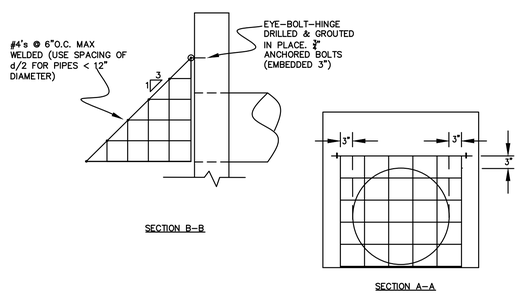
OUTLET PLAN VIEW

LETDOWN – SECTION

2 PROPOSED NORTHEAST OUTLET STRUCTURE HEADWALL
12 | 24 — 1" = 5'

3 LETDOWN STRUCTURE
11 | 24 — 1" = 10'
12
13
14





SECTION B–B

SECTION A–A

4 TRASH RACK
24 | 24 — N.T.S.

GEORGIA REGISTERED No. PE040520 PROFESSIONAL ENGINEER DOUGLAS W. CARR
11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

MISCELLANEOUS DETAILS II
CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

AECOM
(919) 461-1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

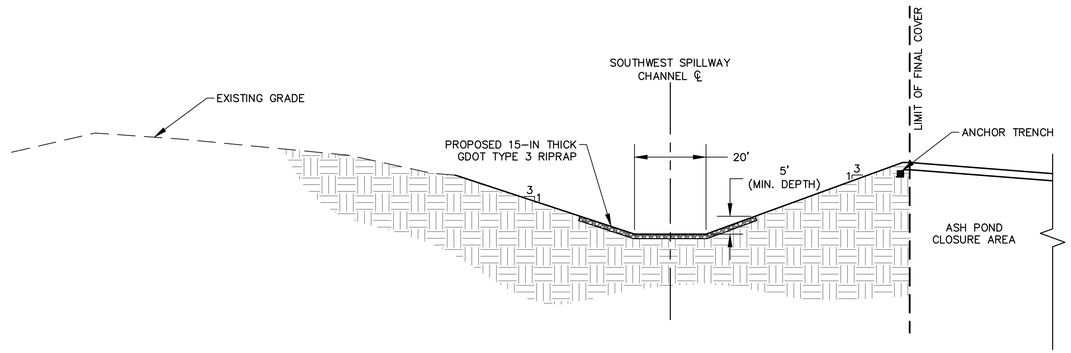
PROJ. NO.: 60563110		DWG. NA	EDIT REVISION 0
SCALE: AS SHOWN		SHEET 24 OF 28	
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_23 Miscellaneous Details.dwg User:Mcavinewa Nov 16, 2018 - 10:28am

EAST CHANNEL GEOMETRY						
DESCRIPTION	BOTTOM WIDTH (FT)	SLOPE (FT/FT)	SIDESLOPE (H:V)	ARMORING MATERIAL	MIN. ARMORING THICKNESS (IN)	MIN. ARMORING DEPTH (FT)
NORTHWEST PERIMETER CHANNEL (ON CLOSURE CAP)	12	0.003	5:1	GDOT TYPE 3 RIPRAP	15	5
NORTHEAST PERIMETER CHANNEL (ON CLOSURE CAP)	12	0.0078	5:1	GDOT TYPE 3 RIPRAP	15	5
EAST PERIMETER CHANNEL (ON CLOSURE CAP)	12	0.004	5:1	GDOT TYPE 3 RIPRAP	15	5
TRAPEZOIDAL CHANNELS ON CAP (HERRINGBONE AREA)	10	0.005	5:1	GDOT TYPE 3 RIPRAP	15	3
TRAPEZOIDAL CHANNELS ON CAP (NORTHERN CAP PORTION)	10	0.03	5:1	GDOT TYPE 3 RIPRAP	24	2
HORIZONTAL CHANNEL (NORTHERN CAP PORTION)	10	0.01	5:1	GDOT TYPE 3 RIPRAP	15	2
LETDOWNS INTO PERIMETER CHANNELS (DOWNSTREAM OF TRAPEZOIDAL CHANNELS ON CAP)	10	0.1	5:1	GDOT TYPE 1 RIPRAP	36	2
LETDOWN CHANNEL (UPSTREAM OF DETENTION BASIN)	35	0.04	5:1	GDOT TYPE 1 RIPRAP	36	4
LOW FLOW CHANNEL (IN DETENTION BASIN)	12	0.005	4:1	GDOT TYPE 3 RIPRAP	15	UP TO ELEV. 451.5
NORTHEAST CHANNEL TO BERRY CREEK (DOWNSTREAM OF DETENTION POND)	10	0.02	4:1	GDOT TYPE 3 RIPRAP	24	3
CHANNEL #13 (IN CLOSURE-BY-REMOVAL AREA)	12	0.0041	4:1	TURF REINFORCED MATTING (TRM)	-	4
NORTH AREA TYPICAL CHANNEL (IN CLOSURE-BY-REMOVAL-AREA)	12	VARIES	4:1	TURF REINFORCED MATTING (TRM)	-	4

WEST CHANNEL GEOMETRY						
DESCRIPTION	BOTTOM WIDTH (FT)	SLOPE (FT/FT)	SIDESLOPE (H:V)	ARMORING MATERIAL	MIN. ARMORING THICKNESS (IN)	MIN. ARMORING DEPTH (FT)
SOUTHWEST OUTLET CHANNEL (LEADING TO MODIFIED SOUTHWEST OUTLET STRUCTURE)	20	0.0051	3:1	GDOT TYPE 3 RIPRAP	15	5
WEST PERIMETER CHANNEL (LEADING TO SOUTHWEST OUTLET CHANNEL)	12	0.0049	5:1	GDOT TYPE 3 RIPRAP	15	5-FT OR ELEVATION 492.0 (WHICHEVER IS GREATER)
TRAPEZOIDAL CHANNELS ON CAP (HERRINGBONE AREA)	10	0.005	5:1	GDOT TYPE 3 RIPRAP	15	3
LETDOWNS INTO PERIMETER CHANNELS (DOWNSTREAM OF TRAPEZOIDAL CHANNELS ON CAP)	10	0.1	5:1	GDOT TYPE 3 RIPRAP	36	2

1 / 12 | 25 / 13 / 14 **CHANNEL GEOMETRY AND ARMORING SCHEDULE**



2 / 16 | 25 / 17 **SOUTHWEST OUTLET CHANNEL TYPICAL SECTION** 1" = 20'

GEORGIA REGISTERED No. PE040622 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

MISCELLANEOUS DETAILS III

CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND–1
MONROE COUNTY, GEORGIA

AECOM
(919) 461–1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: AS SHOWN	SHEET 25 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_23 Miscellaneous Details.dwg User:Mcavinewa Nov 16, 2018 - 10:29am

MATERIAL	RATE	DEPTH
STRAW OR HAY	–	2" TO 4"
WOOD WASTE, CHIPS, SAWDUST, BARK	–	2" TO 3"
CUTBACK ASPHALT	1,200 GAL/AC, 1/3 GAL/SY OR SEE MANUFACTURER'S RECOMMENDATIONS	–
POLYETHYLENE FILM	SECURE WITH SOIL, ANCHORS, WEIGHTS	–
GEOTEXTILES, JUTE MATTING, NETTING, ETC.	SEE MANUFACTURER'S RECOMMENDATIONS	–

- APPLY STRAW OR HAY UNIFORMLY, AS SHOWN IN TABLE, BY HAND OR MECHANICAL EQUIPMENT, AND ANCHOR BY PRESSING INTO SOIL OR USING NETTING.
- MULCH ON SLOPES GREATER THAN 3% SHOULD BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE–S OR SS–1) OR OTHER SUITABLE TACKIFIER.
- MULCH SHALL BE USED DURING THE MONTHS THAT GRASSING SHOULD NOT BE APPLIED BASED ON THE SCHEDULE BELOW.

Ds1 MULCHING RATES

SPECIES	RATE PER ACRE		PLANTING DATES
	ALONE	IN MIXTURES	
BAHIA, WILMINGTON	60 LBS	30 LBS	3/1 – 5/31
BERMUDA, COMMON (HULLED SEED)	10 LBS	6 LBS	4/1 – 5/31
FESCUE, TALL	50 LBS	30 LBS	9/1 – 10/15
LESPEDEZA, SERICEA (LESPEDEZA CUINEATE)	60 LBS (SCARIFIED)	–	3/15 – 5/31
	75 LBS (UNSCARIFIED)	–	9/1 – 2/28
LESPEDEZA, AMBRO (VIRGATA OR APPALOW)	60 LBS (SCARIFIED)	–	3/15 – 5/31
	75 LBS (UNSCARIFIED)	–	9/1 – 2/28
LOVEGRASS, WEEPING	4 LBS	2 LBS	3/15 – 5/31

PERMANENT GRASSING SHALL CONSIST OF GROUND PREPARATION, LIMING, FERTILIZATION, MULCHING, AND SEEDING. THE GROUND SHALL BE PREPARED BY PLOWING AND DISKING TO A DEPTH NOT LESS THAN 4". FERTILIZER AND LIME SHALL BE UNIFORMLY MIXED INTO THE GROUND, WITH FERTILIZER AT THE RATE OF 1500 LBS PER ACRE AND LIME AT THE RATE OF 2000 LBS PER ACRE. THE GROUND SHALL BE FINISHED OFF AS SMOOTH AND UNIFORM AND BE FREE OF ROCKS, CLODS, ROOTS, AND WEEDS. FERTILIZER SHALL BE APPLIED PER THE TABLE BELOW. WEATHER PERMITTING, SEEDING SHALL BE DONE WITHIN 24 HOURS OF FERTILIZER APPLICATION. SEED SHALL BE UNIFORMLY SPREAD AT THE RATES SHOWN BELOW. MULCHING IS REQUIRED AND SHALL BE DONE IMMEDIATELY AFTER SEEDING. MULCH SHALL BE UNIFORMLY APPLIED OVER THE AREA LEAVING APPROXIMATELY 25% OF THE GROUND SURFACE EXPOSED. THE RATE OF APPLICATION SHALL BE DOUBLED ON SLOPES STEEPER THAN 4:1.

Ds3 PERMANENT GRASSING

SPECIES	RATE PER ACRE		PLANTING DATES
	ALONE	IN MIXTURES	
LESPEDEZA, ANNUAL (LESPEDEZA STRIATA)	40 LBS	10 LBS	3/1 – 3/31
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA)	4 LBS	2 LBS	4/1 – 5/31
MILLET, PEARL (PENNESETUM GLAUCUM)	50 LBS	DO NOT MIX	5/1 – 7/31
RYEGRASS (LOLIUM TENULENTUM)	40 LBS	DO NOT MIX	9/1 – 12/15
RYE (SECALE CEREALE)	168 LBS	28 LBS	9/15 – 11/30
WHEAT	3 BU	0.5 BU	10/1 – 12/15

TEMPORARY GRASSES SHALL CONSIST OF SOWING A QUICK GRASS SUCH AS RYE, BROWN TOP MILLET, OR GRASS SUITABLE TO THE AREA AND SEASON. LIME AND FERTILIZER WILL BE OMITTED. MULCH IS NOT REQUIRED BUT SHOULD BE USED AS DICTATED BY SITE CONDITIONS. TEMPORARY GRASSING IS REQUIRED WHEN DISTURBED AREA IS LEFT EXPOSED FOR MORE THAN 14 DAYS.

Ds2 TEMPORARY GRASSING

FERTILIZER REQUIREMENTS				
TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N–P–K	RATE (LBS/AC)	N TOP DRESSING RATE (LBS/AC)
1. COOL SEASON GRASSES	FIRST	6–12–12	1500	50–100
	SECOND	6–12–12	1000	–
	MAINTENANCE	10–10–10	400	30
2 COOL SEASON GRASSES AND LEGUMES	FIRST	6–12–12	500	0–50
	SECOND	0–10–10	1000	–
	MAINTENANCE	0–10–10	400	–
3 GROUND COVERS	FIRST	10–10–10	1300	–
	SECOND	10–10–10	1300	–
	MAINTENANCE	10–10–10	1100	–
4 SHRUB LESPEDEZA	FIRST	0–10–10	700	–
	MAINTENANCE	0–10–10	700	–
5 WARM SEASON GRASSES	FIRST	6–12–12	1500	50–100
	SECOND	6–12–12	800	50–100
	MAINTENANCE	10–10–10	400	30
6 WARM SEASON GRASSES AND LEGUMES	FIRST	6–12–12	1500	50
	SECOND	0–10–10	1000	–
	MAINTENANCE	0–10–10	400	–

LIMING RATES

AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERRENIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.

NOTES:

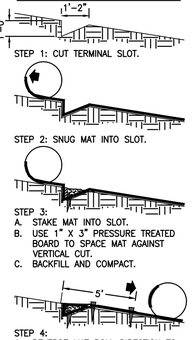
1. THE ABOVE APPLICATION RATES ARE FOR EROSION CONTROL PURPOSES ONLY.
2. RESOURCE AREA "P" REPRESENTS SOUTHERN PIEDMONT MAJOR LAND RESOURCE AREA (MLRA). SEE LANDSCAPE PLAN FOR PERMANENT VEGETATION.
3.

1 DISTURBED AREA STABILIZATION

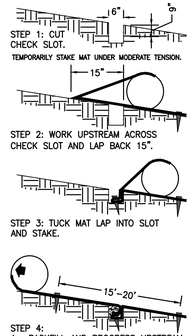
Ds1 | Ds2 | Ds3

SCALE: N.T.S.

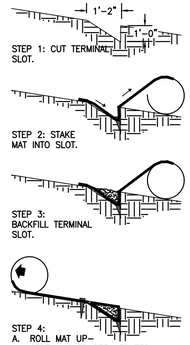
UPSTREAM TERMINAL



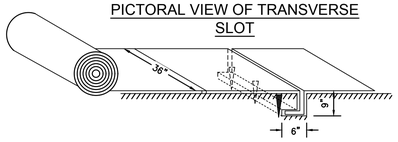
TRANSVERSE CHECK SLOT



DOWNSTREAM TERMINAL

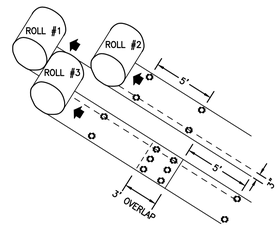


PICTORAL VIEW OF TRANSVERSE SLOT



NOTES:
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID–CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
4. WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.
5. USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE SEAMS.
6. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.

SEQUENTIAL ROLL RUN OUT IN CHANNELS



2 SLOPE STABILIZATION

Ss

SCALE: N.T.S.

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

– TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES.
– TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF–SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

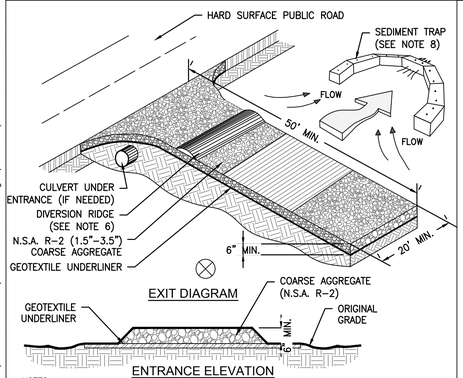
A. TEMPORARY METHODS
MULCHES. SEE STANDARD Ds1 – DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD Tb – TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATACK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
VEGETATIVE COVER. SEE STANDARD Ds2 – DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).
SPRAY–ON ADHESIVES. THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO STANDARD Tb – TACKIFIERS AND BINDERS.
TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL–TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
IRRIGATION. THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
BARRIERS. SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.
CALCIUM CHLORIDE. APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

B. PERMANENT METHODS
PERMANENT VEGETATION. SEE STANDARD Ds3 – DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
TOPSOILING. THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE STANDARD Tp – TOPSOILING.
STONE. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD Cr – CONSTRUCTION ROAD STABILIZATION.

3 DUST CONTROL

Du

SCALE: N.T.S.

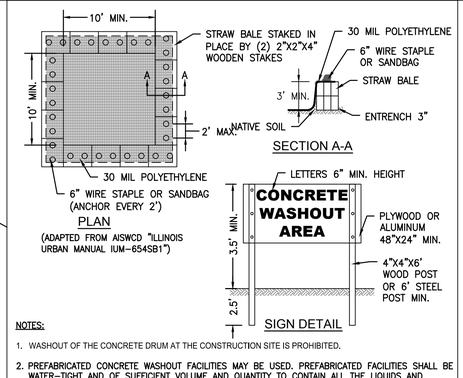


NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R–2 (1.5"–3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%..
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

4 CONSTRUCTION EXIT

Co

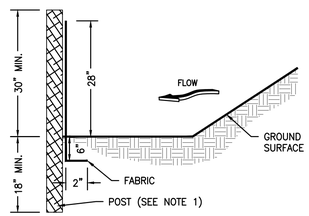
SCALE: N.T.S.



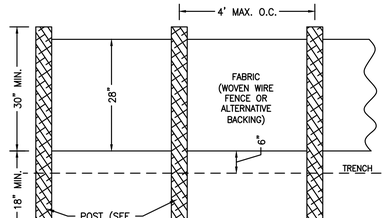
NOTES:
1. WASHOUT OF THE CONCRETE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
2. PREFABRICATED CONCRETE WASHOUT FACILITIES MAY BE USED. PREFABRICATED FACILITIES SHALL BE WATER–TIGHT AND OF SUFFICIENT VOLUME AND QUANTITY TO CONTAIN ALL THE LIQUIDS AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
3. PERFORM WASHOUT OF CONCRETE MIXER TRUCKS IN DESIGNATED AREAS ONLY.
4. EACH FACILITY SHALL HAVE APPROPRIATE SIGNAGE TO INFORM CONCRETE EQUIPMENT OPERATORS OF THE PROPER WASHOUT LOCATION(S).
5. EACH FACILITY SHALL BE LOCATED IN AN AREA PROTECTED FROM POSSIBLE DAMAGE FROM CONSTRUCTION TRAFFIC AND HAVE A STABILIZED ACCESS TO PREVENT TRACKING ONTO STREETS.
6. WASHOUT FACILITIES SHALL BE LOCATED ON LEVEL GROUND A MINIMUM OF 50FT FROM STORM DRAIN INLETS AND ALL OPEN DRAINAGE FACILITIES.
7. THE WASHOUT FACILITY SHALL BE INSPECTED DAILY AND REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN THE CAPACITY OF CONCRETE WASTE. ACCUMULATED MATERIALS SHALL BE REMOVED ONCE THE FACILITY IS TWO–THIRDS FULL.
7. WASHOUT WATER SHALL NOT BE DISCHARGED INTO THE ENVIRONMENT.
8. SOLIDIFIED CONCRETE WASTE FROM WASHOUT FACILITIES SHALL BE DISPOSED OF IN ACCORDANCE WITH STATE LAWS.

5 CONCRETE WASHOUT

SCALE: N.T.S.



SIDE VIEW



FRONT VIEW

Table 6–27.4

TYPE FENCE	C
Tensile Strength (Lbs. Min.) (1) (ASTM D–4632)	Warp–260 Fill–180
Elongation (% Max.) (ASTM D–4632)	40
AOS (Apparent Opening Size) (Max. Sieve Size) (ASTM D–4751)	#30
Flow Rate (Gal/Min/Sq.Ft.) (GDT–87)	70
Ultraviolet Stability (2) (ASTM D–4632 after 300 hours weathering in accordance with ASTM D–4355)	80
Bursting Strength (PSI Min.) (ASTM D–3786 Diaphragm Bursting Strength Tester)	175
Minimum Fabric Width (inches)	36

(1) Minimum roll average of five specimens.
(2) Percent of required initial minimum tensile strength.

Table 6–27.2 POST SIZE

	Minimum Length	Type of Post	Size of Post
Type S	4'	Steel	1.15–1.25lb/ft. min.
		Oak	2"x2"

Table 6–27.3 FASTENERS FOR WOOD POSTS

	Gauge	Crown	Legs	Staples/Post
Wire Staples	17 min.	3/4" wide	1/2" long	5 min.
	Gauge	Length	Button Heads	Nail/Post
Nails	14 min.	1"	3/4"	4 min.

Note: Filter fabric may also attached to the post by wire, cord, and pockets.

NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. ALONG ALL STATE WATERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE SENSITIVE SEDIMENT BARRIERS SHALL BE USED AND PLACED A MINIMUM 36 INCHES APART.
3. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER.

6 SEDIMENT BARRIER (SENSITIVE) TYPE C SILT FENCE

Sd1-S

SCALE: N.T.S.

GENERAL EROSION CONTROL NOTES:

1. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.' STORMWATER CONTROLS AND BEST MANAGEMENT PRACTICES SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT AND/OR THE FACILITY'S NPDES INDUSTRIAL WASTEWATER DISCHARGE INDIVIDUAL PERMIT.
2. STORM WATER DISCHARGES ASSOCIATED WITH ASH POND CLOSURE ACTIVITIES WILL BE COVERED UNDER THE APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT AND/OR THE FACILITY'S NPDES INDUSTRIAL WASTEWATER DISCHARGE INDIVIDUAL PERMIT.
3. STATE WATERS BUFFERS SHALL REMAIN UNDISTURBED, EXCEPT WHERE ENCROACHMENT IS REQUIRED TO FACILITATE ASH POND CLOSURE ACTIVITIES. UNLESS OTHERWISE EXEMPTED BY THE APPROPRIATE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT, A STATE WATERS BUFFER VARIANCE SHALL BE OBTAINED FROM GEORGIA EPD'S WATERSHED PROTECTION BRANCH PRIOR TO BUFFER ENCROACHMENT. GEORGIA EPD'S SOLID WASTE MANAGEMENT BRANCH SHALL BE NOTIFIED WHEN GPC ENVIRONMENTAL AFFAIRS APPLIES FOR A STATE WATERS BUFFER VARIANCE. CONTACT GPC ENVIRONMENTAL AFFAIRS FOR ASSISTANCE.
4. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES FOR THIS PROJECT, THE PERMITTED BOUNDARY, THE LIMITS OF DISTURBANCE AND ALL WETLANDS AND STATE WATERS BUFFERS WITHIN 200 FEET OF THE LIMITS OF DISTURBANCE OR WITHIN THE PROPERTY BOUNDARY (WHICHEVER IS CLOSER) SHALL BE CLEARLY FLAGGED AND STAKED. THESE MARKINGS SHALL BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION / CLOSURE ACTIVITIES. SHOULD ANY OF THE MARKINGS BE DISTURBED, THE CONTRACTOR SHALL NOTIFY GEORGIA POWER COMPANY IMMEDIATELY. ALL CONSTRUCTION PERSONNEL SHALL BE SHOWN THE LOCATION OF THE LIMITS OF DISTURBANCE, STATE WATER BUFFERS, STATE WATERS AND WETLANDS OUTSIDE THE LIMITS OF DISTURBANCE TO PREVENT HEAVY EQUIPMENT ENCROACHMENT INTO THESE AREAS.

GEORGIA REGISTERED No. PE040526 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

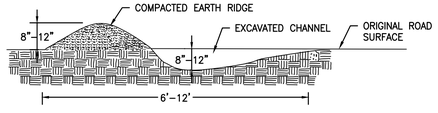
PERMIT DRAWING - NOT FOR CONSTRUCTION

EROSION CONTROL DETAILS I
CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND–1
MONROE COUNTY, GEORGIA

AECOM
(919) 461–1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

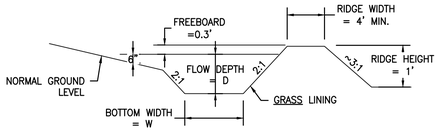
PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: NOT TO SCALE	SHEET 26 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoSchere\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_26 Erosion Control Details I.dwg User:Mcavinewa Nov 16, 2018 – 10:29am



DIVERSIONS INSTALLED TO DIVERT WATER OFF A ROAD OR RIGHT–OF–WAY SHALL CONSIST OF A SERIES OF COMPACTED RIDGES OF SOIL RUNNING DIAGONALLY ACROSS THE ROAD AT A 30° ANGLE.

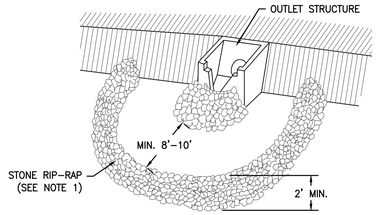
TYPICAL DIVERSION ACROSS ROAD



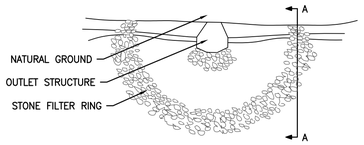
#	DA (AC)	Q10 (CFS)	SLOPE (%)	W (FT)	D10 (FT)	V10 (FT/S)
1A						
1D						
1E						
1H						
1J						
2D						
2E						
2H						
2J						

1 DIVERSION (Di)

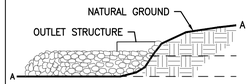
SCALE: N.T.S.



PERSPECTIVE VIEW



PLAN VIEW (NOT TO SCALE)

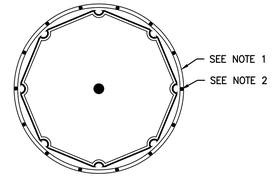


CROSS SECTION (NOT TO SCALE)

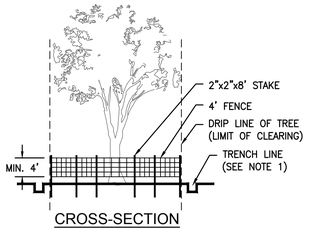
NOTES:
1. WHEN UTILIZED AT INLETS WITH DIAMETERS LESS THAN 12 INCHES, THE FILTER RING SHALL BE CONSTRUCTED OF STONE NO SMALLER THAN 3–5 INCHES (15–30 LBS). WHEN UTILIZED AT PIPES WITH DIAMETERS GREATER THAN 12 INCHES, THE FILTER RING SHALL BE CONSTRUCTED OF STONE NO SMALLER THAN 10–15 INCHES (50–100 LBS).
2. THE LARGER STONE CAN BE FACED WITH SMALLER FILTER STONE ON THE UPSTREAM SIDE FOR ADDED SEDIMENT FILTERING CAPABILITIES. HOWEVER, THE SMALLER FILTER STONE IS MORE PRONE TO CLOGGING, REQUIRING HIGHER MAINTENANCE.
3. THE FILTER RING MUST BE KEPT CLEAR OF TRASH AND DEBRIS. CONTRACTOR SHALL REMOVE SEDIMENT WHEN ACCUMULATION REACHES ½ HEIGHT OF FILTER RING.
4. STRUCTURES ARE TEMPORARY AND SHALL BE REMOVED WHEN THE LAND DISTURBING PROJECT HAS BEEN STABILIZED.

2 STONE FILTER RING (Fr)

SCALE: N.T.S.



PLAN



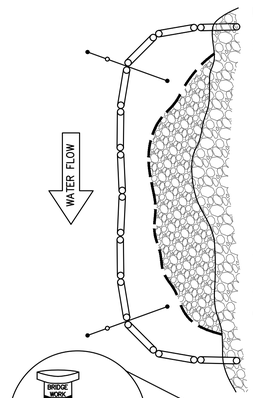
CROSS-SECTION

NOTES:
1. USE TRENCHER (I.E. DITCH WHICH) TO CUT A 4"–5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER–REBAR IS NOT TO BE USED FOR STAKES).
3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

3 TREE PROTECTION FENCE (Tr)

SCALE: N.T.S.

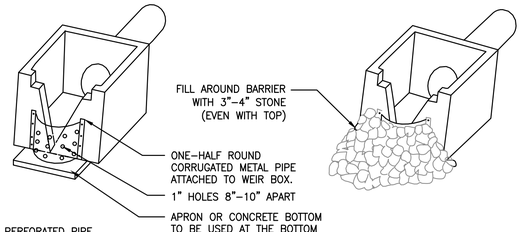
ANCHOR SYSTEM AND LAYOUT DETAILS



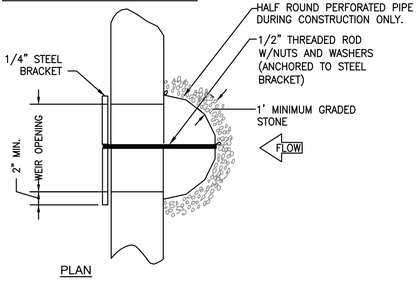
NOTES:
1. SILT CURTAINS SHOULD BE ORIENTED PARALLEL TO THE DIRECTION OF FLOW.
2. FOR SITES NOT SUBJECT TO HEAVY WAVE ACTION, THE CURTAIN HEIGHT SHALL PROVIDE SUFFICIENT SLACK TO ALLOW THE TOP OF THE CURTAIN TO RISE TO THE MAXIMUM EXPECTED HIGH–WATER LEVEL (INCLUDING WAVES) WHILE THE BOTTOM MAINTAINS CONTINUOUS CONTACT WITH THE BOTTOM OF THE WATER BODY. THE BOTTOM EDGE OF THE CURTAIN SHALL HAVE A WEIGHT SYSTEM CAPABLE OF HOLDING THE BOTTOM OF THE CURTAIN DOWN AND CONFORMING TO THE BOTTOM OF THE WATER BODY, SO AS TO PROHIBIT ESCAPE OF TURBID WATER UNDER THE CURTAIN.
3. THE SILT CURTAIN SHALL BE LOCATED BEYOND THE LATERAL LIMITS OF THE CONSTRUCTION SITE AND FIRMLY ANCHORED INTO PLACE (THE ALIGNMENT SHOULD BE SET AS CLOSE TO THE WORK AREA AS POSSIBLE BUT NO SO CLOSE AS TO BE DISRUPTED BY CONSTRUCTION EQUIPMENT).
4. DANGER BUOYS SHALL BE USED AS DIRECTED BY THE COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERS.
5. THE ENDS OF THE SILT CURTAIN SHALL BE SECURELY ANCHORED AND KEYED IN ORDER TO ENCLOSE AREA.
6. A GENERAL RULE OF THUMB FOR ATTACHING ANCHORS IS TO DO SO AT 100' INTERVALS (DEPENDING ON CURRENT AND TIDAL CONDITIONS, IT MAY BE NECESSARY TO ANCHOR THE BARRIER ON BOTH SIDES–AS SHOWN).

4 TURBIDITY CURTAIN (Tc)

SCALE: N.T.S.



ISOMETRICS



PLAN

1. REQUIRED STORMWATER STORAGE = CY
2. DRAINAGE AREA = AC
   REQUIRED SEDIMENT STORAGE = 67CY/AC * DRAINAGE AREA
   REQUIRED SEDIMENT STORAGE = #### CY
3. TOTAL REQUIRED STORAGE = #### CY
4. AVAILABLE STORAGE = CY
5. IS THE AVAILABLE STORAGE (4) GREATER THAN THE TOTAL REQUIRED STORAGE (3)? X YES ___ NO
6. IF "NO", THE SEDIMENT STORAGE CAPACITY OF THE POND MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
   ___ RAISE THE INVERT OF THE OUTLET STRUCTURE ___ INCHES
   _____ UNDERCUT THE POND _____ FEET
   _____ OTHER _____
7. CLEAN–OUT ELEVATION = FT
   (ELEVATION CORRESPONDING TO 22CY/AC * DRAINAGE AREA)
8. IS THE LENGTH–WIDTH RATIO 2:1 OR GREATER?
   ___ YES ___ NO
9. IF "NO", THE LENGTH OF FLOW MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
   ___ BAFFLES (TYPE OF BAFFLE: _____)
   ___ OTHER _____

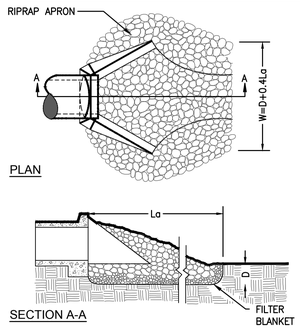
IF HALF–ROUND CMP RETROFIT IS TO BE USED:
DIAMETER = _____ INCHES HEIGHT = _____ FEET

MAINTENANCE:
1. RETROFIT STRUCTURES SHALL BE KEPT CLEAR OF TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE, WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE–THIRD OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST.
2. STRUCTURES ARE TEMPORARY AND SHALL BE REMOVED WHEN DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

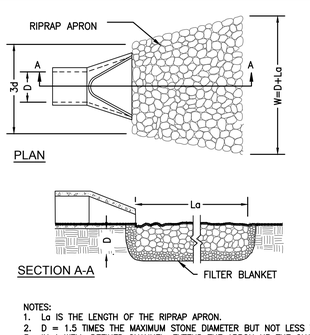
5 RETROFIT - PERFORATED HALF ROUND PIPE (Rt-P)

SCALE: N.T.S.

PIPE OUTLET TO WELL DEFINED CHANNEL



PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL

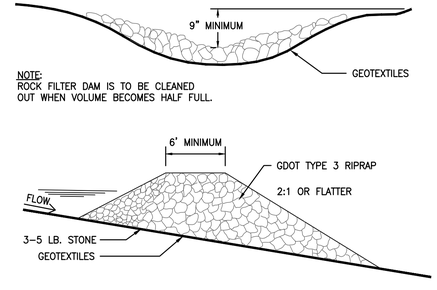


NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL–DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET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

STRUCTURE ID				
Q25	25–YR FLOW RATE (CFS)			
V25	25–YR FLOW VELOCITY (FT/S)			
La	LENGTH OF RIPRAP APRON			
d	OUTLET PIPE DIAMETER (FT)			
3d	UPSTREAM APRON WIDTH (FT)			
W	DOWNSTREAM APRON WIDTH (FT)			
D	APRON THICKNESS (IN)			
d50	AVERAGE STONE DIAMETER (IN)			
dmax	MAXIMUM STONE DIAMETER (IN)			

6 RIPRAP OUTLET PROTECTION (St)

SCALE: N.T.S.



NOTE:
ROCK FILTER DAM IS TO BE CLEANED OUT WHEN VOLUME BECOMES HALF FULL.

7 ROCK FILTER DAM (Rd)

SCALE: N.T.S.

GEORGIA REGISTERED No. PE040522 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

EROSION CONTROL DETAILS II

CCR CLOSURE

FOR

GEORGIA POWER

PLANT SCHERER ASH POND–1

MONROE COUNTY, GEORGIA

AECOM

(919) 461–1100
WWW.AECOM.COM

1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: NOT TO SCALE	SHEET 27 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoScherer\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_27 Erosion Control Details II.dwg User:Mcavinewa Nov 16, 2018 – 10:29am

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD:_____

Project Name:_____ Address:_____

City/County:_____ Date on Plans:_____

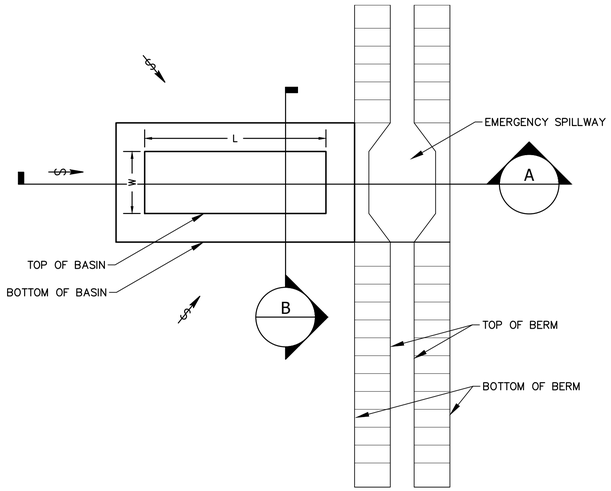
Name&email of person filling out checklist:_____

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
		1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
		2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
		3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.* (A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.)
		4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
		5 Provide the name, address and phone number of primary permittee.
		6 Note total and disturbed acreage of the project or phase under construction.
		7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
		8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
		9 Description of the nature of construction activity.
		10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
		11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
		12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.
		13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the p
		14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."*
		15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
		16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
		17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."*
		18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."*
		19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
		20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
		21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
		22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment."
		23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan."
		24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited."
		25 Provide BMPs for the remediation of all petroleum spills and leaks.
		26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed."
		27 Description of the practices that will be used to reduce the pollutants in storm water discharges."
		28 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
		29 Provide complete requirements of inspections and record keeping by the primary permittee."
		30 Provide complete requirements of sampling frequency and reporting of sampling results."
		31 Provide complete details for retention of records as per Part IV.F. of the permit."
		32 Description of analytical methods to be used to collect and analyze the samples from each location."
		33 Appendix B rationale for NTU values at all outfall sampling points where applicable."
		34 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged."
		35 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase."
		36 Graphic scale and North arrow.
		37 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

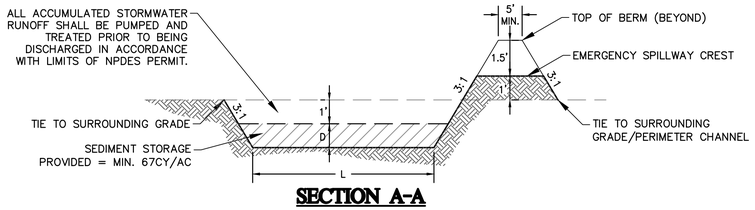
Map Scale	Ground Slope	Contour Intervals, ft
1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2.5 or 10

		38 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
		39 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition."
		40 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
		41 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
		42 Delineation and acreage of contributing drainage basins on the project site.
		43 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions."
		44 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
		45 Storm drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
		46 Soil series for the project site and their delineation.
		47 The limits of disturbance for each phase of construction.
		48 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.
		49 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
		50 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
		51 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.

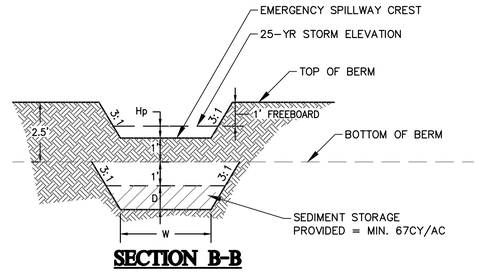
*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be ? **Effective January 1, 2018**



PLAN

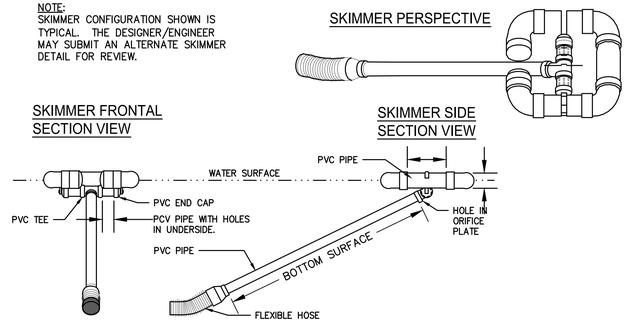


SECTION A-A



SECTION B-B

NOTE:
SKIMMER CONFIGURATION SHOWN IS TYPICAL. THE DESIGNER/ENGINEER MAY SUBMIT AN ALTERNATE SKIMMER DETAIL FOR REVIEW.



2 SKIMMER (Sk)
SCALE: N.T.S.

Sediment Basins								
Type	**A**		**B**		**C**		**D**	
DA (ac)	10		20		30		40	
Vs (CY)	670		1340		2010		2680	
Q2 (cfs)	50		100		145		165	
SAmin (SF)	21,780		43,560		63,162		71,874	
Shape	Rectangular	Triangular	Rectangular	Triangular	Rectangular	Triangular	Rectangular	Triangular
L (ft)	210	296	296	418	356	504	380	538
W (ft)	105	148	148	209	178	252	190	269
D (ft)	1	1	1	1	1	1	1	1
Q25 (cfs)	85		175		250		280	
Hp max. (ft)	0.5		0.5		0.5		0.5	
Min. Spillway Width (ft)	92		189		270		303	

Temporary Sediment Basin #		**SB-1**	**SB-2**	**SB-3**	**SB-4**	**SB-5**	**SB-6**	**SB-7**	**SB-8**	**SB-9**	**SB-10**	**SB-11**	**SB-12**	**SB-13**	**SB-14**
	Total area draining to basin (ac)	36.63	9.70	27.46	24.60	24.86	24.10	20.67	18.04	37.54	16.94	29.53	14.11	28.71	31.50
	Disturbed area draining to basin (ac)	27.49	9.70	27.46	24.60	24.86	24.10	20.67	18.04	37.54	16.94	29.53	14.11	28.71	31.50
Volume															
(1)	Vs = Min. required storage vol. (CY) = 67CY/ac drained	2,454.21	649.90	1,839.82	1,648.20	1,665.62	1,614.70	1,384.89	1,208.68	2,515.18	1,134.98	1,978.51	945.37	1,923.57	2,110.50
(2)	Vc = Vol. of basin at clean-out (CY) = 22CY/ac drained	805.86	213.40	604.12	541.20	546.92	530.20	454.74	396.88	825.88	372.68	649.66	310.42	631.62	693.00
	Sediment Basin Type	D	A	C	C	C	C	B	B	D	B	C	B	C	D

1 TEMPORARY SEDIMENT BASIN (Sd3)
SCALE: N.T.S.

GEORGIA REGISTERED No. PE040622 PROFESSIONAL ENGINEER DOUGLAS W. CARR 11/14/2018

Georgia Power

PERMIT DRAWING - NOT FOR CONSTRUCTION

EROSION CONTROL DETAILS III

CCR CLOSURE
FOR
GEORGIA POWER
PLANT SCHERER ASH POND-1
MONROE COUNTY, GEORGIA

AECOM
(919) 461-1100
WWW.AECOM.COM
1600 PERIMETER PARK DRIVE
SUITE 400
MORRISVILLE, NC 27560

PROJ. NO.: 60563110	DWG. NA	EDIT	REVISION 0
SCALE: NOT TO SCALE	SHEET 28 OF 28		
DATE: NOVEMBER 2018			

G:\Akron\DCS\Projects\ENV\60563110_SoCoScherer\900_CAD_GIS\7.0 ACAD Drawings\Sheets\63110_28 Erosion Control Details III.dwg User:Mcovinewa Nov 16, 2018 - 10:29am