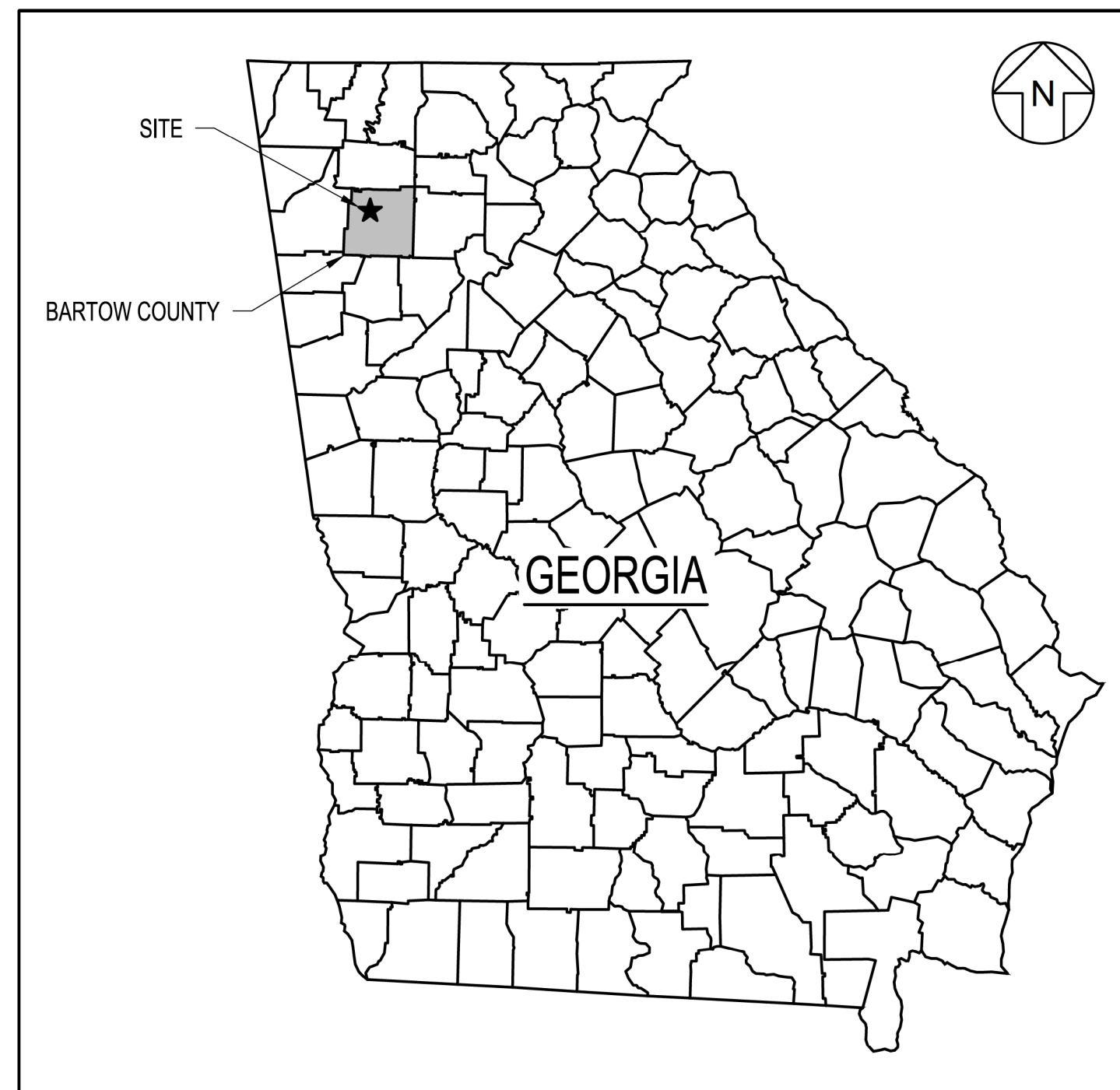


PLANT BOWEN ASH POND 1 (AP-1) CLOSURE CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA AUGUST 2021



SOURCE: MICROSOFT CORPORATION BING MAPS 2017
LOCATION MAP
NOT TO SCALE

LIST OF DRAWINGS			
DRAWING NO.	DRAWING TITLE	REVISION	DATE
1	COVER SHEET	0	AUGUST 2021
2	LEGENDS, ABBREVIATIONS, AND REFERENCE NOTES	0	AUGUST 2021
3	PERMIT BOUNDARY SURVEY AND LEGAL DESCRIPTION	0	AUGUST 2021
4	SITE PLAN	0	AUGUST 2021
5	EXISTING SITE CONDITIONS AND TOPOGRAPHY	0	AUGUST 2021
6	APPROXIMATE BOTTOM OF AP-1 GRADES	0	AUGUST 2021
7	FOUNDATION IMPROVEMENT PLAN	0	AUGUST 2021
8	EXCAVATION PLAN - OVERALL	0	AUGUST 2021
9	EXCAVATION PLAN - SOUTH AP-1	0	AUGUST 2021
10	EXCAVATION PLAN - NORTH AP-1	0	AUGUST 2021
11	TOP OF LINER GRADING PLAN - OVERALL	0	AUGUST 2021
12	TOP OF LINER GRADING PLAN - SOUTH AP-1	0	AUGUST 2021
13	TOP OF LINER GRADING PLAN - NORTH AP-1	0	AUGUST 2021
14	TOP OF CCR GRADING PLAN - OVERALL	0	AUGUST 2021
15	TOP OF CCR GRADING PLAN - SOUTH AP-1	0	AUGUST 2021
16	TOP OF CCR GRADING PLAN - NORTH AP-1	0	AUGUST 2021
17	FINAL CLOSURE GRADING PLAN - OVERALL	0	AUGUST 2021
18	FINAL CLOSURE GRADING PLAN - SOUTH AP-1	0	AUGUST 2021
19	FINAL CLOSURE GRADING PLAN - NORTH AP-1	0	AUGUST 2021
20	CLOSURE PHASING PLANS I	0	AUGUST 2021
21	CLOSURE PHASING PLANS II	0	AUGUST 2021
22	CLOSURE PHASING PLANS III	0	AUGUST 2021
23	CLOSURE PHASING PLANS IV	0	AUGUST 2021
24	SITE CROSS SECTIONS I	0	AUGUST 2021
25	SITE CROSS SECTIONS II	0	AUGUST 2021
26	SITE CROSS SECTIONS III	0	AUGUST 2021
27	LINER SYSTEM DETAILS I	0	AUGUST 2021
28	LINER SYSTEM DETAILS II	0	AUGUST 2021
29	FINAL COVER SYSTEM DETAILS	0	AUGUST 2021
30	PERIMETER DETAILS	0	AUGUST 2021
31	PERIMETER BERM CROSS SECTIONS I	0	AUGUST 2021
32	PERIMETER BERM CROSS SECTIONS II	0	AUGUST 2021
33	LEACHATE MANAGEMENT PLAN	0	AUGUST 2021
34	LEACHATE MANAGEMENT SYSTEM DETAILS I	0	AUGUST 2021
35	LEACHATE MANAGEMENT SYSTEM DETAILS II	0	AUGUST 2021
36	LEACHATE MANAGEMENT SYSTEM DETAILS III	0	AUGUST 2021
37	LEACHATE MANAGEMENT SYSTEM DETAILS IV	0	AUGUST 2021
38	STORMWATER MANAGEMENT SYSTEM PLAN - OVERVIEW	0	AUGUST 2021
39	STORMWATER MANAGEMENT SYSTEM PLAN - SOUTH AP-1	0	AUGUST 2021
40	STORMWATER MANAGEMENT SYSTEM PLAN - NORTH AP-1	0	AUGUST 2021
41	STORMWATER MANAGEMENT SYSTEM DETAILS I	0	AUGUST 2021
42	STORMWATER MANAGEMENT SYSTEM DETAILS II	0	AUGUST 2021
43	STORMWATER MANAGEMENT SYSTEM DETAILS III	0	AUGUST 2021
44	STORMWATER MANAGEMENT SYSTEM DETAILS IV	0	AUGUST 2021
45	STORMWATER MANAGEMENT SYSTEM DETAILS V	0	AUGUST 2021
46	STORMWATER MANAGEMENT SYSTEM DETAILS VI	0	AUGUST 2021
47	EROSION AND SEDIMENT CONTROL DETAILS I	0	AUGUST 2021
48	EROSION AND SEDIMENT CONTROL DETAILS II	0	AUGUST 2021
49	EROSION AND SEDIMENT CONTROL DETAILS III	0	AUGUST 2021
50	COMPLIANCE MONITORING NETWORK	0	AUGUST 2021



SOURCE: MICROSOFT CORPORATION BING MAPS 2017
VICINITY MAP
SCALE IN FEET: 0, 1,500, 3,000

PHYSICAL SITE ADDRESS:
PLANT BOWEN
317 COVERED BRIDGE ROAD SW
CARTERSVILLE, GEORGIA 30120

PREPARED FOR:



GEORGIA POWER ENVIRONMENTAL AFFAIRS
241 RALPH MCGILL BOULEVARD NE
ATLANTA, GEORGIA 30308
CONTACT: GENERAL MANAGER
TELEPHONE: 404.506.6505

PREPARED BY:



1255 ROBERTS BOULEVARD NW, SUITE 200
KENNESAW, GEORGIA 30144-3694
TELEPHONE: 678.202.9500



PERMIT DRAWING
NOT FOR CONSTRUCTION

0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB	
REV	DATE	DESCRIPTION	DRN	APP	
COVER SHEET					
PLANT BOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA					
Geosyntec consultants					
<small>1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA</small>					
PROJ. NO.	GR6601	DWG.	GR6601-001	EDIT	8.16.2021
SCALE	AS SHOWN		DRAWING		1 OF 50
DATE	AUGUST 2021				

P:\CADD\PROJECTS\GEORGIA POWER\BOWEN POWER PLANT\PERMIT\ASH POND CLOSURE (GR6601)\DRAWINGS\GR6601-001

LINETYPE LEGEND

	EDGE OF ROAD / EXISTING BUILDINGS
	RAILROAD TRACKS
	POWER TRANSMISSION LINE EASEMENT
	GAS LINE AND EASEMENT
	EXISTING PIPE
	TREE LINE
	STREAMS / WATER LINE / CREEK
	EXISTING GROUND
	APPROXIMATE TOP OF BEDROCK (NOTE 10)
	APPROXIMATE BOTTOM OF CCR
	PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE (NOTE 9)
	BOTTOM OF EXCAVATION
	PERMIT BOUNDARY
	PROPERTY BOUNDARY (NOTE 5)
	APPROXIMATE EXISTING LIMIT OF AP-1 / LIMIT OF LINER
	FINAL LIMIT OF CCR
	LEACHATE COLLECTION CORRIDOR
	LEACHATE FORCEMAIN
	FINAL COVER TOP DECK DIVERSION BERM
	FINAL COVER TOP DECK LET-DOWN CHANNEL
	FINAL COVER SIDESLOPE DRAINAGE BENCH
	FINAL COVER DOWNCHUTE CHANNEL
	STORMWATER CHANNEL
	TEXTURED HDPE OR LLDPE GEOMEMBRANE
	CLOSURETURF® SYSTEM
	DOUBLE-SIDED GEOCOMPOSITE
	NON-WOVEN GEOTEXTILE SEPARATOR OR CUSHION
	GEOSYNTHETIC CLAY LINER
	LIMIT OF DISTURBANCE
	CONTACT WATER DIVERSION
	STORMWATER (NON-CONTACT WATER) DIVERSION

SYMBOL LEGEND

	EXTRUSION WELD
	GROUNDWATER MONITORING WELL
	SLOPE GRADE
	SLOPE INDICATOR
	SLOPE LABEL
	TRAILER / BUILDING / TANK
	VEGETATION
	GROUNDWATER OR WATER SURFACE
	STORMWATER FLOW DIRECTION
	STORMWATER CHANNEL OUTLET FLUME
	LEACHATE SUMP
	LEACHATE FORCEMAIN AIR RELEASE MANHOLE
	LEACHATE FORCEMAIN CLEANOUT MANHOLE
	LEACHATE FORCEMAIN JUNCTION MANHOLE
	TEMPORARY CONTACT-WATER COLLECTION LOCATION

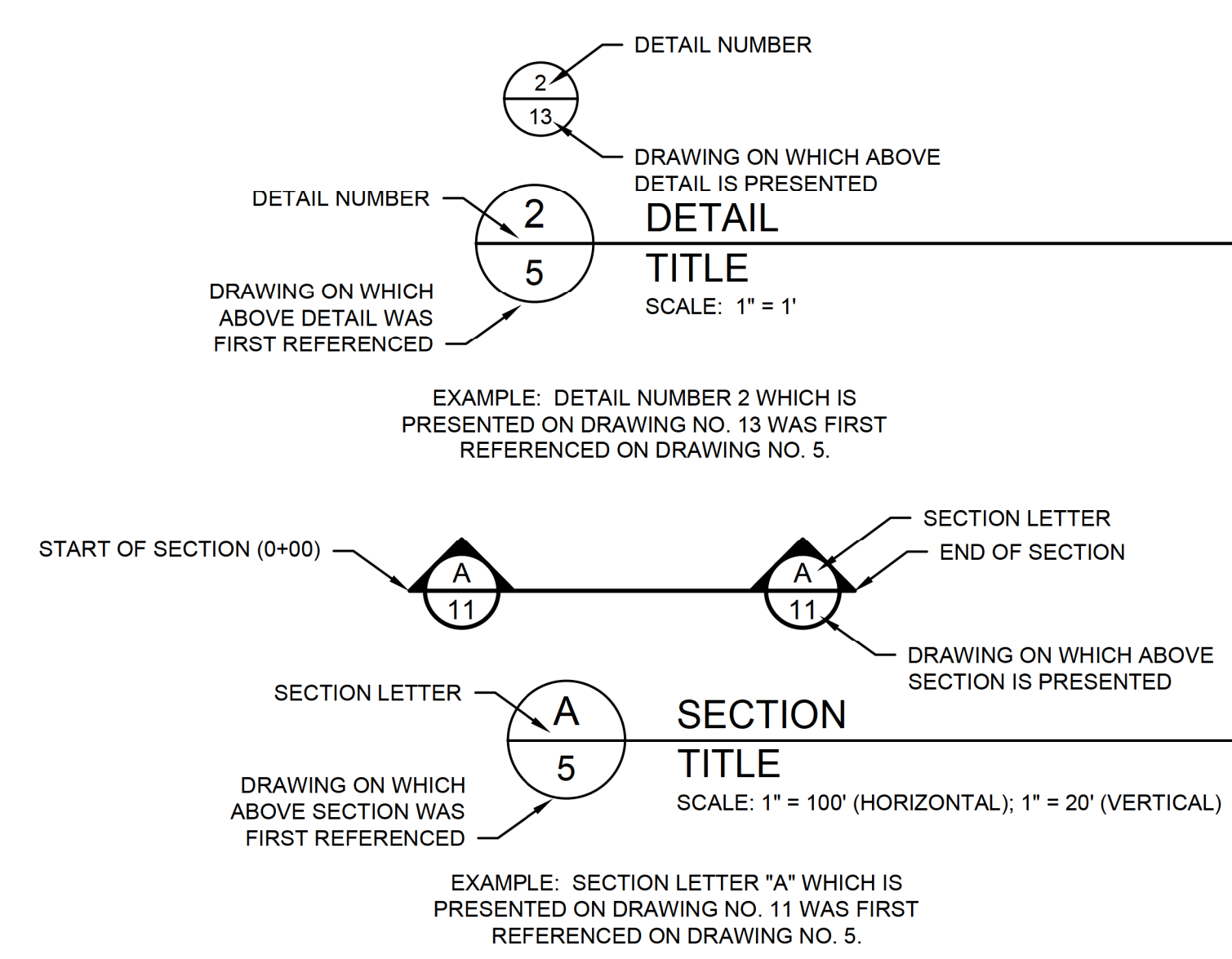
HATCH PATTERN LEGEND

	LINED STORMWATER POND
	CONCRETE
	FINE SAND FILTER LAYER
	FINE GRAVEL DRAINAGE LAYER
	MEDIUM GRAVEL DRAINAGE LAYER
	COARSE GRAVEL DRAINAGE LAYER
	FINE-SCREENED COMPACTED CLAY LINER
	COARSE-SCREENED COMPACTED CLAY LINER
	PROTECTIVE COVER SOIL / TRENCH BACKFILL / STRUCTURAL FILL
	PIPE EMBEDMENT FILL / COMPACTED GRANULAR SUBBASE
	VEGETATIVE COVER LAYER
	CCR
	AGGREGATE
	RIPRAP
	CONSOLIDATED AREA FOUNDATION IMPROVEMENTS
	OTHER AREA FOUNDATION IMPROVEMENTS
	100-YEAR FLOODPLAIN
	WETLANDS
	COVERED CCR AREA (NON-CONTACT WATER)
	TEMPORARY CCR STOCKPILE AREA
	CONTACT WATER COLLECTION AREA
	COMPACTED CLAYEY SOIL
	LINED CONTACT WATER POND

CONTOUR LEGEND

	EXISTING GROUND ELEVATION (FEET) (NOTE 1)
	APPROXIMATE BOTTOM OF CCR SURFACE ELEVATION (FEET)
	EXCAVATION SURFACE ELEVATION (FEET)
	TOP OF LINER ELEVATION (FEET)
	TOP OF CCR ELEVATION FOR SOIL-GEOSYNTHETIC COMPOSITE COVER (FEET)
	TOP OF FINAL COVER SYSTEM / TOP OF CCR FOR ALTERNATIVE COVER SYSTEM (CLOSURETURF® COVER) / FINISHED GRADE ELEVATION (FEET)
	PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET)

DETAIL AND SECTION IDENTIFICATION LEGEND



ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AC	ACRES
APP	APPROVED BY
CAD	COMPUTER-AIDED DRAFTING
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
C-TRM	COMPOSITE TURF REINFORCEMENT MAT
CCR	COAL COMBUSTION RESIDUALS
CL	CENTERLINE
COA	CONSTRUCTION QUALITY ASSURANCE
DIA	DIAMETER
DRN	DRAWN BY
DWG	DRAWING
E	EAST OR EASTING
EL	ELEVATION
EPA	ENVIRONMENTAL PROTECTION AGENCY
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FT	FEET
GDOT	GEORGIA DEPARTMENT OF TRANSPORTATION
GPC	GEORGIA POWER COMPANY
GSWCC	GEORGIA SOIL AND WATER CONSERVATION COMMISSION
GSWP	GENERAL SERVICE WATER POND
H:V	HORIZONTAL TO VERTICAL LENGTH RATIO FOR A SLOPE
HDPE	HIGH DENSITY POLYETHYLENE
HECP	HYDRAULIC EROSION CONTROL PRODUCTS
HPTRM	HIGH PERFORMANCE TURF REINFORCEMENT MAT
HWY	HIGHWAY
IN	INCH
INV	INVERT
LBS	POUNDS
LF	LINEAR FOOT
LLDPE	LINEAR LOW DENSITY POLYETHYLENE
LOD	LIMITS OF DISTURBANCE
MAX	MAXIMUM
MIN	MINIMUM
MSL	MEAN SEA LEVEL
N	NORTH / NORTHING
NAD	NORTH AMERICAN DATUM
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NE	NORTHEAST
NO.	NUMBER
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
N.S.A.	NATIONAL STONE ASSOCIATION
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OZ	OUNCE
PC	PERIMETER CHANNEL
PROJ	PROJECT
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RECP	ROLLED EROSION CONTROL PRODUCTS
REV	REVISION
RP	RECYCLE POND
S	SOUTH
SCS	SOUTHERN COMPANY SERVICES
SF	SILT FENCE
SWP	STORMWATER PIPE
TRM	TURF REINFORCEMENT MAT
TYP	TYPICAL
UV	ULTRAVIOLET
W	WEST OR WIDTH
W.S.	WATER SURFACE
WWTS	WASTEWATER TREATMENT SYSTEM
%	PERCENT OR PERCENTILE

GENERAL SITE NOTES

- IN THE VICINITY OF AP-1, TOPOGRAPHY, UTILITIES, EXISTING ROADS, STREAMS, AND TREELINES SHOWN ON THIS DRAWING SET IS FROM A LIDAR TOPOGRAPHIC SURVEY DATED 4/1/2017, PROVIDED AS AN ELECTRONIC COMPUTER-AIDED DRAFTING DRAWING FILE BY SOUTHERN COMPANY SERVICES.
- BEYOND THE AP-1 AREA MAPPED WITH LIDAR TOPOGRAPHY AS DELINEATED ON THE DRAWINGS, TOPOGRAPHY IS FROM UNITED STATES GEOLOGIC SURVEY (USGS) DIGITAL MAPPING FILE, "NED 1 N35W085 ARCGRID GEORGIA".
- ELEVATIONS ARE SHOWN IN FEET ABOVE MEAN SEA LEVEL (FT, MSL), THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- GRID COORDINATE SYSTEM CORRESPONDS TO NORTH AMERICAN DATUM OF 1983 (NAD83), GEORGIA STATE PLANE, WEST ZONE, US FOOT.
- PROPERTY BOUNDARY IS APPROXIMATE AND WAS PROVIDED AS AN ELECTRONIC CAD DRAWING FILE BY SOUTHERN COMPANY SERVICES.
- MONITORING WELL COORDINATES, GROUND SURFACE ELEVATIONS, AND SCREENED INTERVALS WERE OBTAINED FROM THE "SEPTEMBER 2020 WELL INSTALLATION ADDENDUM MEMORANDUM" DATED 29 SEPTEMBER 2020, PREPARED BY GEOSYNTEC CONSULTANTS, INC.
- EXISTING LIMITS OF AP-1 AS PRESENTED IN THIS DRAWING SET ARE APPROXIMATE AND REPRESENT THE INTERIOR CREST OF THE CONTAINMENT DIKES. LIMITS ARE BASED ON A COMBINATION OF TOPOGRAPHIC MAP INTERPRETATION, EXAMINATION OF AS-BUILT PLANS OF CONTAINMENT DIKES, AND AIRPHOTO INTERPRETATION. FROM THIS INFORMATION, AN ESTIMATE WAS MADE OF THE LATERAL LOCATION AND VERTICAL PROFILE OF THE AP-1 LIMITS.
- BOTTOM OF CCR SURFACE IS APPROXIMATE AND IS BASED ON AN ELECTRONIC CAD DRAWING PROVIDED BY SOUTHERN COMPANY SERVICES OF THE AS-CONSTRUCTED (PRE-ASH) BOTTOM OF AP-1 FROM TOPOGRAPHY DATED 10/30/1969, WITH UPDATES TO THE SURFACE MADE BY GEOSYNTEC USING ELEVATION DATA OF THE CCR-RESIDUUM INTERFACE AS ESTIMATED FROM BORINGS DURING RECENT SUBSURFACE INVESTIGATIONS IN AP-1. ON INTERIOR DIKE SIDESLOPES, BOTTOM OF CCR SURFACE WAS CREATED USING A TWO HORIZONTAL TO ONE VERTICAL (2H:1V) SLOPE.
- PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE OBTAINED FROM GROUNDWATER FLOW MODELING RESULTS AS DOCUMENTED IN THE "HYDROGEOLOGIC ASSESSMENT REPORT (REVISION 3)" (PART B, SECTION 2 OF THIS PERMIT APPLICATION).
- TOP OF BEDROCK SURFACE IS APPROXIMATE AND WAS DEVELOPED BY GEOSYNTEC USING AVAILABLE SUBSURFACE INFORMATION FROM PREVIOUS SITE INVESTIGATIONS.
- DURING CLOSURE CONSTRUCTION, CONTRACTOR WILL VERIFY BOTH LATERAL AND VERTICAL EXTENT OF CCR IN THE FIELD.
- EXCAVATION SURFACE IS APPROXIMATE AND WAS DEVELOPED BASED ON THE ESTIMATED BOTTOM OF CCR AND TO MEET THE FOLLOWING CRITERIA: (I) EXCAVATE AT LEAST SIX INCHES BELOW THE BOTTOM OF CCR SURFACE IN ALL AREAS OF AP-1; (II) CONDUCT ADDITIONAL EXCAVATION AS NEEDED BENEATH THE FLOOR AREAS OF THE CONSOLIDATED LINED FOOTPRINT AND BENEATH THE BASE OF THE NEW NORTH AND SOUTH CONTAINMENT DIKES TO PROVIDE AN 8-FT (MIN) COMPACTED SOIL BUFFER ZONE BELOW THE LINER SYSTEM; AND (III) CONDUCT ADDITIONAL EXCAVATION IN THE AREAS SOUTH AND NORTH OF THE CONSOLIDATED LINED FOOTPRINT (CLOSURE-BY-REMOVAL AREAS) AS NEEDED TO GRADE TO DRAIN UNDER FINAL CLOSED CONDITIONS.
- EXCAVATION GRADES WILL BE ADJUSTED AS NECESSARY DURING CLOSURE CONSTRUCTION BASED ON APPLYING THE ABOVE CRITERIA TO THE ACTUAL FIELD LOCATED BOTTOM OF CCR, AS WELL AS BASED ON FOUNDATION EVALUATIONS AND IMPROVEMENTS CONDUCTED IN ACCORDANCE WITH THE "FOUNDATION IMPROVEMENT PLAN" (INCLUDED IN THE "CLOSURE PLAN" IN PART A, SECTION 7 OF THIS PERMIT APPLICATION).
- MATERIAL PROPERTIES FOR THE FILL SOIL, LINER SYSTEM, LEACHATE COLLECTION SYSTEM, AND FINAL COVER SYSTEM ARE PROVIDED IN THE "CONSTRUCTION QUALITY ASSURANCE (COA) PLAN" (PART A, SECTION 5 OF THIS PERMIT APPLICATION).
- DEWATERING OF CCR DURING CLOSURE CONSTRUCTION WILL BE PERFORMED AS NEEDED.
- INTERIM STORM WATER MANAGEMENT DURING CLOSURE CONSTRUCTION - INCLUDING MANAGEMENT OF CONTACT WATER AND "CLEAN" (I.E., NON-CONTACT) STORMWATER - WILL BE CONDUCTED IN ACCORDANCE WITH THE STORMWATER AND CONTACT WATER MANAGEMENT PROCEDURES DESCRIBED IN THE "CLOSURE PLAN" (PART A, SECTION 7 OF THIS PERMIT APPLICATION). IN SUMMARY: CONTACT WATER WILL BE PUMPED OR CONVEYED BY GRAVITY TO DESIGNATED STORAGE AREAS IN AP-1, WHERE IT WILL BE PUMPED TO AN ON-SITE WASTEWATER TREATMENT SYSTEM (WWTS) OR OTHERWISE PROPERLY MANAGED IN ACCORDANCE WITH THE PLANT'S NPDES PERMIT REQUIREMENTS AND THEN DISCHARGED OFF-SITE VIA NPDES OUTFALL NO. 01A. NON-CONTACT STORMWATER WILL BE DISCHARGED TO RECEIVING WATER BODIES WITHOUT TREATMENT.
- DUST CONTROL DURING CLOSURE CONSTRUCTION WILL BE MANAGED AS DESCRIBED IN THE "CLOSURE PLAN" (PART A, SECTION 7 OF THIS PERMIT APPLICATION).
- INTERNAL HAUL ROADS, ACCESS RAMPS, AND INTERIM STORMWATER FEATURE LOCATIONS WILL BE EVALUATED AS PART OF THE DETAILED DESIGN. ADDITIONAL BERMS AND EXTERIOR DIVERSIONS WILL BE CONSTRUCTED, AS NEEDED, TO ADEQUATELY MANAGE STORMWATER RUNOFF.
- VOLUME OF IN-PLACE CCR TO BE REMOVED FROM AP-1 IS ESTIMATED TO DECREASE (SHRINK) BY APPROXIMATELY 10 PERCENT UPON DEWATERING, PLACEMENT, AND COMPACTION WITHIN THE CONSOLIDATED LINED FOOTPRINT. AS PHASED CLOSURE CONSTRUCTION PROGRESSES, ACTUAL CCR QUANTITIES AND SHRINKAGE FACTORS WILL BE TRACKED AND COMPARED TO THE REMAINING CAPACITY, AND THE SIZE OF THE CONSOLIDATED LINED FOOTPRINT AND/OR ELEVATIONS OF THE FINAL COVER GRADES WILL BE REVISED ACCORDINGLY TO ACCOMMODATE THE ACTUAL SITE-SPECIFIC CCR VOLUME, WHILE MAINTAINING COMPLIANCE WITH APPLICABLE DESIGN CRITERIA.

0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB
REV	DATE	DESCRIPTION	DRN	APP

LEGENDS, ABBREVIATIONS, AND REFERENCE NOTES

PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA

Geosyntec
consultants

1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

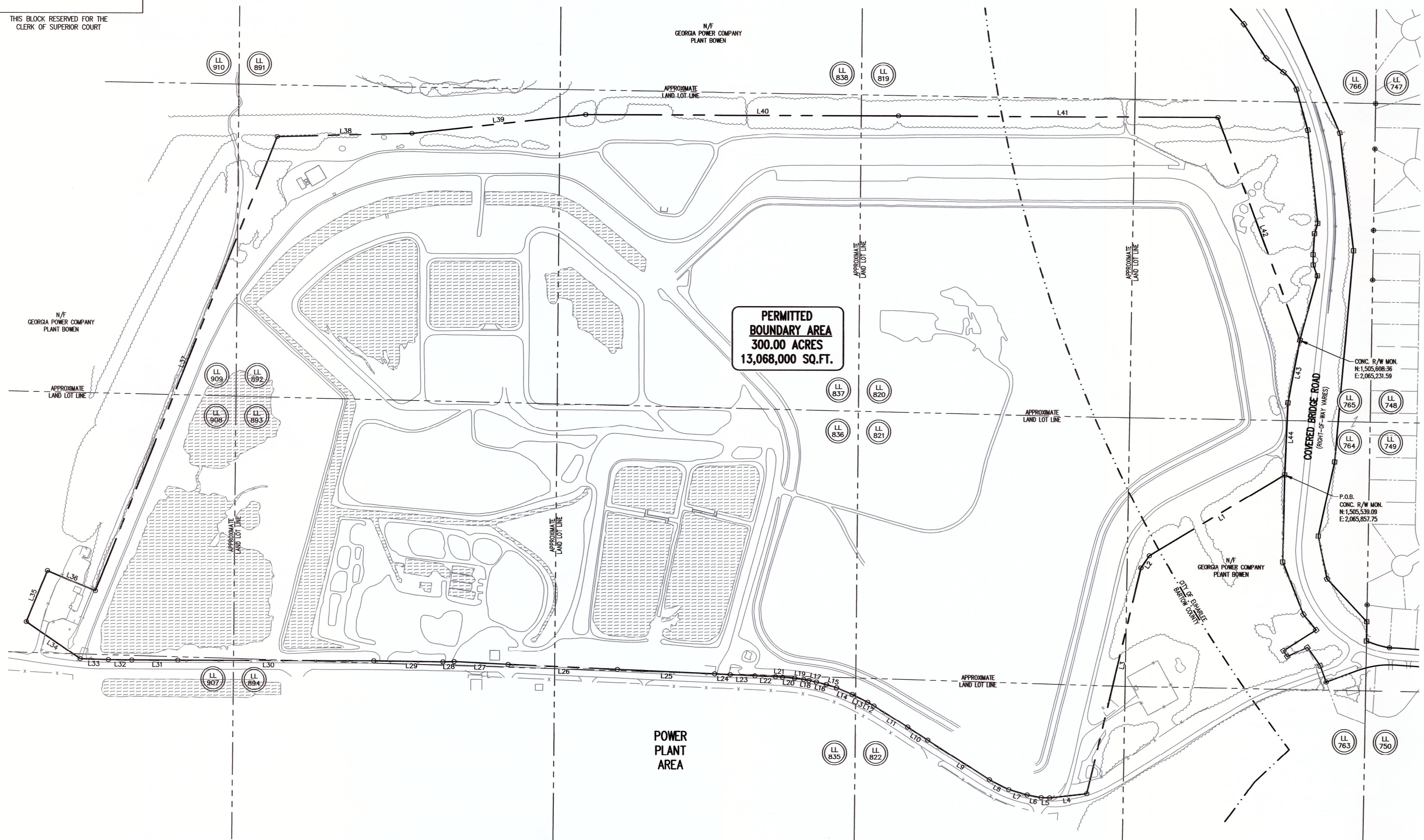
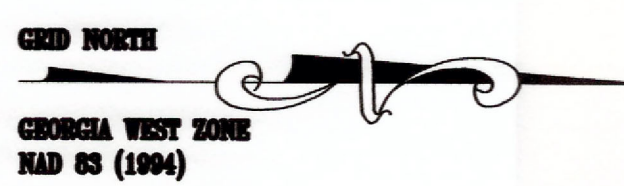
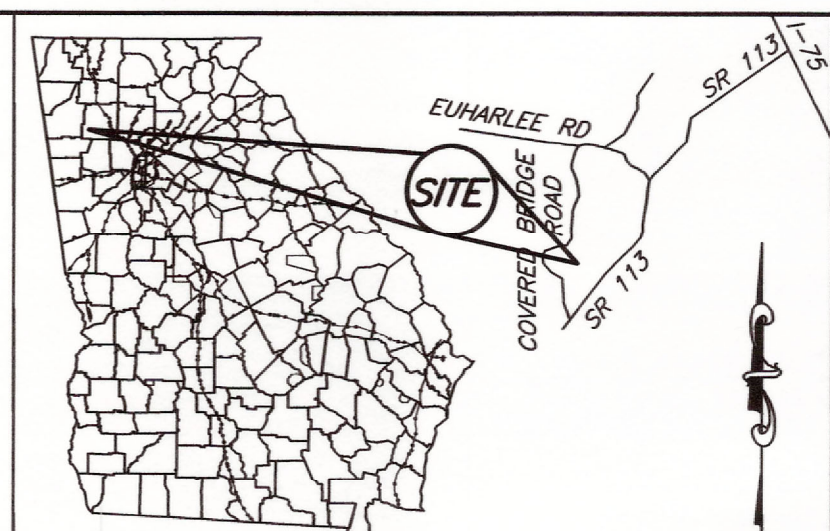
PROJ. NO.	GR6601	DWG.	GR6601-002	EDIT	08.16.21
SCALE	N/A	DRAWING 2 OF 50			
DATE	AUGUST 2021				



PERMIT DRAWING
NOT FOR CONSTRUCTION

P:\CAD\PROJECTS\GEORGIA POWER\BOWEN ASH POND CLOSURE (GR6601)\DRAWINGS\GR6601-002

THIS BLOCK RESERVED FOR THE CLERK OF SUPERIOR COURT



MONUMENTATION LEGEND

- Iron Pin Set
- ⊙ Iron Pin Found
- ⊠ Monument Set
- ⊡ Monument Found
- ⊕ Computed Point
- ⊗ Control or Traverse Point
- ⊛ Geodetic Control Point
- ⊙ Benchmark or Temporary Benchmark (TBM)

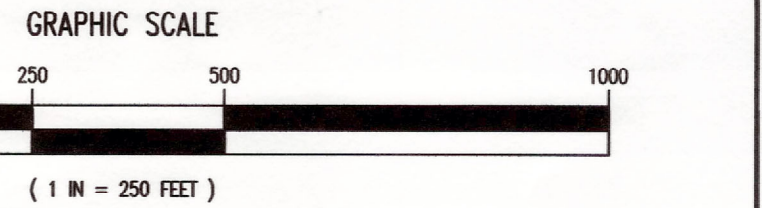
UTILITY LEGEND

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

- NOTES AND REFERENCES**
- THE SURVEY SHOWN HEREON IS A SPECIAL PURPOSE SURVEY TO ESTABLISH THE BOUNDARY OF THE PLANT BOWEN ASH POND 1 PERMITTED LANDS PER THE REQUIREMENTS OF THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION.
 - BACKGROUND INFORMATION SHOWN HEREON TAKEN FROM FIELDWORK PERFORMED BY METRO ENGINEERING, INC. FOR AN AERIAL LIDAR TOPOGRAPHIC SURVEY, DATED 4/1/2017.
 - RIGHT-OF-WAY INFORMATION FOR COVERED BRIDGE ROAD SHOWN HEREON TAKEN FROM FIELDWORK PERFORMED BY JACOBS ENGINEERING INC., FOR A SURVEY TITLED "PLANT BOWEN R/W DEDICATION OF COVERED BRIDGE ROAD, OLD STILESBORO ROAD, AND ATWOOD ROAD", DATED AUGUST 1, 2011, GPC MAP FILE NO. P-256-1.
 - LOCATION OF RIGHT-OF-WAY MONUMENTS ALONG THE COMMON LINE BETWEEN THE PLANT BOWEN ASH POND 1 PERMITTED LANDS BOUNDARY AND THE RIGHT-OF-WAY OF COVER BRIDGE ROAD WERE VERIFIED BY ADDITIONAL SURVEY FIELDWORK ON SEPTEMBER 28, 2018.
 - REFERENCE WAS MADE TO THE FOLLOWING MAPS & SURVEYS:
 - A.) SURVEY PREPARED BY CLYDE N. ELDORIDGE AERIAL SURVEYS TITLED "ETOWAH RIVER PROJECT (N.I.A. PLANT BOWEN)", DATED MAY 10, 1967, GPC MAP FILE NO. E1-D.
 - B.) SURVEY PREPARED BY SMITH & SMITH SURVEYORS, P.C. TITLED "QUICKLAMP SURVEY FOR BARTOW COUNTY PORTION OF COVERED BRIDGE ROAD CONVEYED TO GEORGIA POWER COMPANY", DATED 5/30/2008, GPC MAP FILE NO. P119-8.

LEGAL DESCRIPTION
PLANT BOWEN - ASH POND 1
PERMITTED BOUNDARY AREA

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN LAND LOTS 764, 765, 820, 821, 822, 835, 836, 837, 892, 893, 894, 907, 908 AND 909 OF THE 17TH DISTRICT, 3RD SECTION OF BARTOW COUNTY, CITY OF EUHARLEE, GEORGIA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGINNING AT A CONCRETE RIGHT-OF-WAY MONUMENT ON THE RIGHT OF WAY OF COVERED BRIDGE ROAD (RIGHT-OF-WAY WIDTH VARIES) HAVING GEORGIA STATE PLANE, WEST ZONE COORDINATES NAD 83(94) OF NORTH 1,505,539.09 AND EAST 2,065,857.75; THENCE SOUTH 30°51'6" EAST A DISTANCE OF 733.45 FEET TO A POINT; THENCE SOUTH 56°14'47" EAST A DISTANCE OF 69.73 FEET TO A POINT; THENCE SOUTH 76°39'05" EAST A DISTANCE OF 1076.61 FEET TO A POINT; THENCE SOUTH 06°29'22" EAST A DISTANCE OF 173.84 FEET TO A POINT; THENCE SOUTH 01°38'41" WEST A DISTANCE OF 38.52 FEET TO A POINT; THENCE SOUTH 10°11'24" WEST A DISTANCE OF 86.26 FEET TO A POINT; THENCE SOUTH 16°49'09" WEST A DISTANCE OF 88.84 FEET TO A POINT; THENCE SOUTH 26°75'53" WEST A DISTANCE OF 101.02 FEET TO A POINT; THENCE SOUTH 32°22'21" WEST A DISTANCE OF 140.69 FEET TO A POINT; THENCE SOUTH 32°32'11" WEST A DISTANCE OF 110.19 FEET TO A POINT; THENCE SOUTH 32°14'32" WEST A DISTANCE OF 185.80 FEET TO A POINT; THENCE SOUTH 30°00'00" WEST A DISTANCE OF 33.53 FEET TO A POINT; THENCE SOUTH 26°13'46" WEST A DISTANCE OF 80.22 FEET TO A POINT; THENCE SOUTH 22°39'27" WEST A DISTANCE OF 78.79 FEET TO A POINT; THENCE SOUTH 17°43'09" WEST A DISTANCE OF 49.93 FEET TO A POINT; THENCE SOUTH 13°38'04" WEST A DISTANCE OF 47.63 FEET TO A POINT; THENCE SOUTH 11°57'27" WEST A DISTANCE OF 34.98 FEET TO A POINT; THENCE SOUTH 09°38'17" WEST A DISTANCE OF 25.28 FEET TO A POINT; THENCE SOUTH 07°51'47" WEST A DISTANCE OF 42.34 FEET TO A POINT; THENCE SOUTH 04°40'42" WEST A DISTANCE OF 56.46 FEET TO A POINT; THENCE SOUTH 03°29'21" WEST A DISTANCE OF 32.24 FEET TO A POINT; THENCE SOUTH 02°30'06" WEST A DISTANCE OF 96.48 FEET TO A POINT; THENCE SOUTH 02°30'38" WEST A DISTANCE OF 114.37 FEET TO A POINT; THENCE SOUTH 02°33'49" WEST A DISTANCE OF 72.12 FEET TO A POINT; THENCE SOUTH 02°23'01" WEST A DISTANCE OF 452.42 FEET TO A POINT; THENCE SOUTH 02°26'24" WEST A DISTANCE OF 507.81 FEET TO A POINT; THENCE SOUTH 02°51'01" WEST A DISTANCE OF 251.35 FEET TO A POINT; THENCE SOUTH 02°01'12" EAST A DISTANCE OF 51.84 FEET TO A POINT; THENCE SOUTH 00°45'33" WEST A DISTANCE OF 321.53 FEET TO A POINT; THENCE SOUTH 00°05'50" EAST A DISTANCE OF 909.94 FEET TO A POINT; THENCE SOUTH 00°01'27" WEST A DISTANCE OF 214.11 FEET TO A POINT; THENCE SOUTH 00°40'09" WEST A DISTANCE OF 109.55 FEET TO A POINT; THENCE SOUTH 00°02'59" EAST A DISTANCE OF 1452.94 FEET TO A POINT; THENCE NORTH 00°09'28" EAST A DISTANCE OF 1482.29 FEET TO A POINT; THENCE NORTH 69°35'38" EAST A DISTANCE OF 1100.66 FEET TO A CONCRETE RIGHT-OF-WAY MONUMENT ON THE RIGHT-OF-WAY OF COVERED BRIDGE ROAD; THENCE ALONG SAID RIGHT-OF-WAY SOUTH 79°19'06" EAST A DISTANCE OF 296.60 FEET TO A CONCRETE RIGHT-OF-WAY MONUMENT; THENCE SOUTH 87°33'15" EAST A DISTANCE OF 335.01 FEET TO THE POINT OF BEGINNING. SAID TRACT CONTAINING 300.00 ACRES MORE OR LESS AND BEING MORE FULLY DEPICTED ON A PLAT OF SURVEY PREPARED BY GEORGIA POWER COMPANY TITLED "PLANT BOWEN ASH POND 1 PERMITTED BOUNDARY AREA", DATED 10/3/2018, GPC MAP FILE NO. P469-1, SAID PLAT IS INCORPORATED HEREIN BY REFERENCE.



LINE TABLE										
LINE	BEARING	DIST	LINE	BEARING	DIST	LINE	BEARING	DIST	LINE	
L1	S30°59'16"E	733.45	L12	S30°00'00"W	33.53	L23	S02°30'38"W	114.37	L34	S34°31'55"W
L2	S56°14'47"E	69.73	L13	S26°13'46"W	80.22	L24	S02°53'49"W	72.12	L35	N67°27'06"W
L3	S78°39'05"E	1076.61	L14	S22°39'27"W	78.79	L25	S02°23'51"W	452.42	L36	N22°32'54"E
L4	S06°29'22"E	173.84	L15	S17°43'09"W	49.93	L26	S02°26'24"W	507.81	L37	N68°17'14"W
L5	S01°38'41"W	38.52	L16	S13°38'04"W	47.63	L27	S02°51'01"W	251.35	L38	N01°34'19"W
L6	S10°11'24"W	86.26	L17	S11°57'27"W	34.98	L28	S02°01'12"E	51.84	L39	N06°19'01"W
L7	S16°49'09"W	88.84	L18	S09°38'17"W	25.28	L29	S00°45'33"W	321.53	L40	N00°02'59"E
L8	S26°75'53"W	101.02	L19	S07°51'47"W	42.34	L30	S00°06'50"E	909.94	L41	N00°09'28"E
L9	S32°27'25"W	340.69	L20	S04°40'42"W	56.46	L31	S00°01'27"W	214.11	L42	N69°35'38"E
L10	S32°32'11"W	110.19	L21	S03°59'21"W	32.24	L32	S00°40'09"W	109.55	L43	S79°19'06"E
L11	S32°14'32"W	185.80	L22	S02°30'06"W	96.48	L33	S01°52'17"W	130.90	L44	S87°33'15"E

SURVEY ACCURACY STATEMENT
All survey control for field data upon which this plat is based was obtained using a Global Positioning System (GPS). The GPS data has a positional uncertainty due to random errors in measurement of 0.04 feet +/- at the 95% level of confidence based on the Root Mean Square Error (RMSE) method of calculation.
Equipment used to obtain horizontal and vertical geodetic coordinate positions was a Trimble R10 GPS antenna in continuous real time kinematic mode utilizing EOPs GNSS real time corrections. No closed traverse was established from which a field closure can be calculated. Field work was completed on September 28, 2018.
This plat has been calculated for closure and is found to be accurate within one foot in 934,055.

LATITUDE: N34°07'45.09"
LONGITUDE: W84°55'47.53"
F.I.R.M. FLOOD NOTE:
A PORTION OF THE PROPERTY SHOWN HEREON IS LOCATED IN ZONE X AND ZONE A, PER FEDERAL INSURANCE RATE MAP OF BARTOW COUNTY, GEORGIA, PANEL 335 OF 385, MAP NUMBER 13015C0335G AND PANEL 245 OF 385, MAP NUMBER 13015C0245G, EFFECTIVE DATE: SEPTEMBER 28, 2007.



NOTE: THIS PLAT IS NOT VALID FOR RECORDING PURPOSES UNLESS SURVEYOR'S SIGNATURE APPEARS HEREON IN A CONTRASTING COLOR OF INK.
AS REQUIRED BY SUBSECTION (D) OF O.C.G.A. SECTION 5-6-67, THIS PLAT HAS BEEN PREPARED BY A LAND SURVEYOR. THIS PLAT HAS BEEN APPROVED BY ALL APPLICABLE LOCAL JURISDICTIONS THAT REQUIRE PRIOR APPROVAL FOR RECORDING THIS TYPE OF PLAT OR ONE OR MORE OF THE APPLICABLE LOCAL JURISDICTIONS DO NOT REQUIRE APPROVAL OF THIS TYPE OF PLAT, FOR ANY APPLICABLE LOCAL JURISDICTION THAT REQUIRES APPROVAL OF THIS TYPE OF PLAT, THE NAMES OF THE INDIVIDUALS SIGNING OR APPROVING THIS PLAT, THE AGENCY OR OFFICE OF THAT INDIVIDUAL, AND THE DATE OF APPROVAL ARE LISTED IN THE APPROVAL TABLE SHOWN HEREON. FOR ANY APPLICABLE LOCAL JURISDICTION THAT DOES NOT REQUIRE APPROVAL OF THIS TYPE OF PLAT, THE NAME OF SUCH LOCAL JURISDICTION AND THE NUMBER OF THE APPLICABLE ORDINANCE OR RESOLUTION PROVIDING THAT NO SUCH APPROVAL IS REQUIRED ARE LISTED IN THE APPROVAL TABLE SHOWN HEREON. SUCH APPROVALS, AFFIRMATIONS, OR ORDINANCE OR RESOLUTION NUMBERS SHOULD BE CONFIRMED WITH THE APPROPRIATE GOVERNMENTAL BODIES BY ANY PURCHASER OR USER OF THIS PLAT AS TO WHETHER USE OF ANY PARCEL, FURTHERMORE, THE UNDERSIGNED LAND SURVEYOR CERTIFIES THAT THIS PLAT COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN THE RULES AND REGULATIONS OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN O.C.G.A. SECTION 15-6-67.
William H. Bechtler 9-23-2019
WILLIAM H. BECHTLER, GA PLS NO. 3055 DATE

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

PATH - T:\Working\Plants\Bowen\2018060123 Plant Bowen - Ash Pond - Permitted Boundary Area Survey

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

SURVEY OF
PLANT BOWEN - ASH POND 1
PERMITTED SITE BOUNDARY

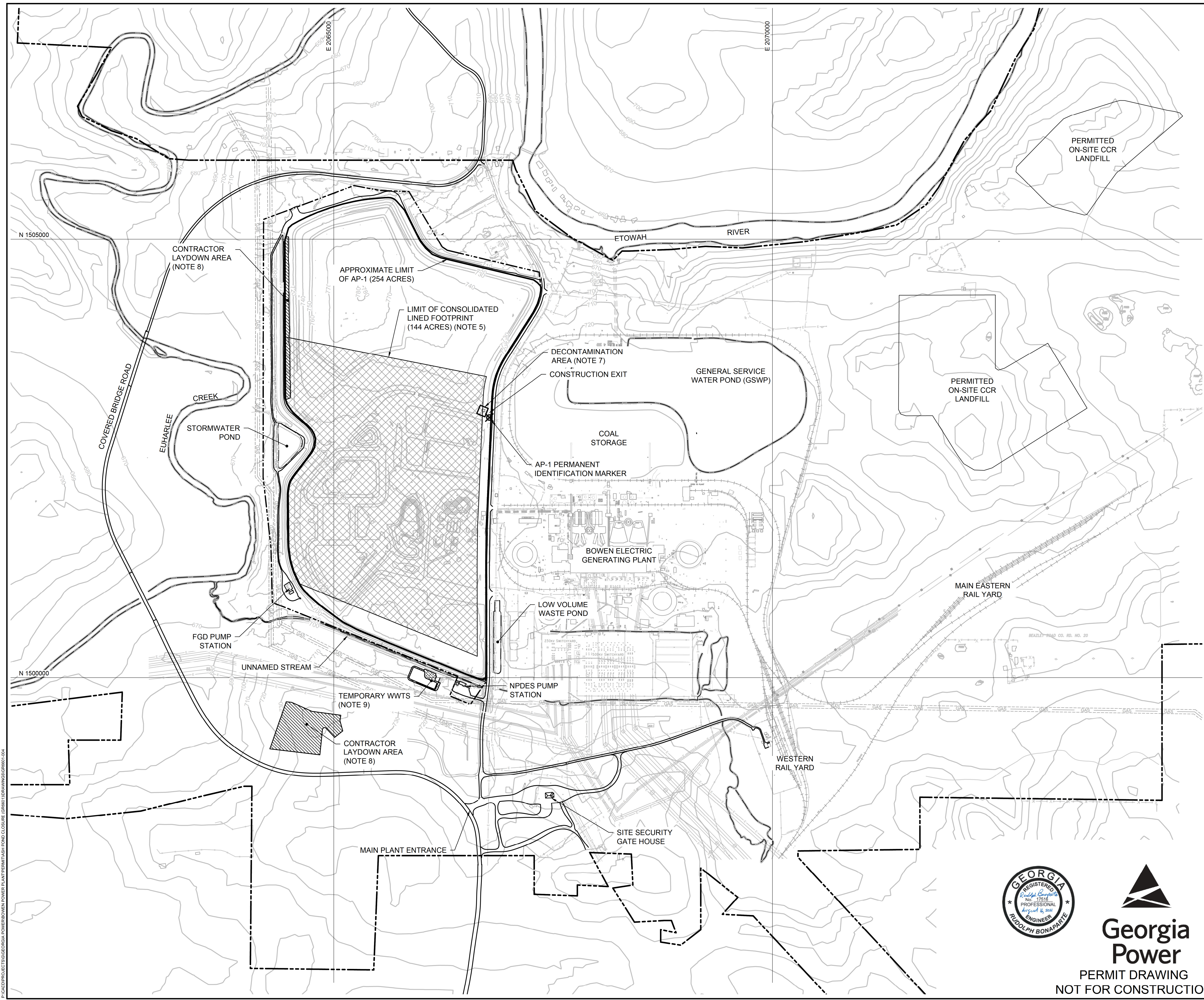
LAND LOTS 764, 765, 820, 821, 822, 835, 836, 837, 892, 893, 894, 907, 908 & 909, 17TH DISTRICT, 3RD SECTION, BARTOW COUNTY, GEORGIA

APPROVALS: _____

DATE: _____

DRAWING NUMBER: **P469-1**

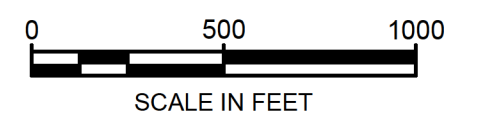
Sheet 1 of 1



LEGEND

- 730 EXISTING GROUND ELEVATION (FEET) (NOTE 1)
- MAIN SITE AND AP-1 ACCESS ROAD
- APPROXIMATE EXISTING LIMIT OF AP-1 (NOTE 1)
- LIMIT OF CONSOLIDATED LINED FOOTPRINT (NOTE 5)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY (NOTE 6)
- TEMPORARY WWTS PAD

- NOTES:**
1. SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 2. ACREAGE OF AP-1 REPRESENTS THE TWO-DIMENSIONAL (2D) PLAN AREA WITHIN THE ESTIMATED AP-1 LIMITS (ALSO REPRESENTING THE POTENTIAL LATERAL LIMITS OF CCR).
 3. TOPOGRAPHIC CONTOUR INTERVALS ARE PRESENTED AT 10-FT INTERVALS ON THIS DRAWING, FOR CLARITY. SEE DRAWING 5 FOR TOPOGRAPHIC CONTOURS AT 2-FT CONTOUR INTERVALS.
 4. SEE DRAWING 5 FOR AN EXISTING CONDITIONS PLAN IN THE VICINITY OF AP-1, SHOWN AT AN ENLARGED SCALE.
 5. LIMIT OF CONSOLIDATED LINED FOOTPRINT REFERS TO LIMIT OF LINER.
 6. ALONG EASTERN SIDE OF AP-1, PERMIT BOUNDARY IS ALIGNED WITH APPROXIMATE LIMIT OF AP-1, AND THUS OBLISCURED IN THIS AREA ON THIS DRAWING. REFER TO DRAWING 3 FOR THE PERMIT BOUNDARY SURVEY AND LEGAL DESCRIPTION.
 7. A DECONTAMINATION STATION WILL BE ESTABLISHED AT THE APPROXIMATE LOCATION SHOWN. EQUIPMENT WILL BE DECONTAMINATED (I.E., CCR PARTICLES REMOVED) PRIOR TO EXITING THE AP-1 FOOTPRINT. AS PHASED CLOSURE CONSTRUCTION APPROACHES THIS AREA, THE DECONTAMINATION STATION MAY BE RELOCATED SLIGHTLY AS NEEDED TO ACCOMMODATE CONSTRUCTION OPERATIONS.
 8. CONTRACTOR LAYDOWN AREAS FOR STAGING OF CONSTRUCTION MATERIALS AND EQUIPMENT WILL BE AT THE APPROXIMATE LOCATIONS SHOWN. EQUIPMENT MAY ALSO BE STAGED WITHIN THE AP-1 ADJACENT TO WORK AREAS.
 9. A TEMPORARY WWTS WILL BE ESTABLISHED AT THE APPROXIMATE LOCATION SHOWN FOR TREATMENT OF LEACHATE AND CONTACT WATER GENERATED DURING CLOSURE CONSTRUCTION. AT THE COMPLETION OF CLOSURE CONSTRUCTION, LEACHATE WILL BE ROUTED TO A PERMANENT ON-SITE WWTS LOCATED OUTSIDE THE AP-1 PERMIT BOUNDARY, ON THE PLANT BOWEN PROPERTY.



REV	DATE	DESCRIPTION	DRN	APP
0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB

SITE PLAN

PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA



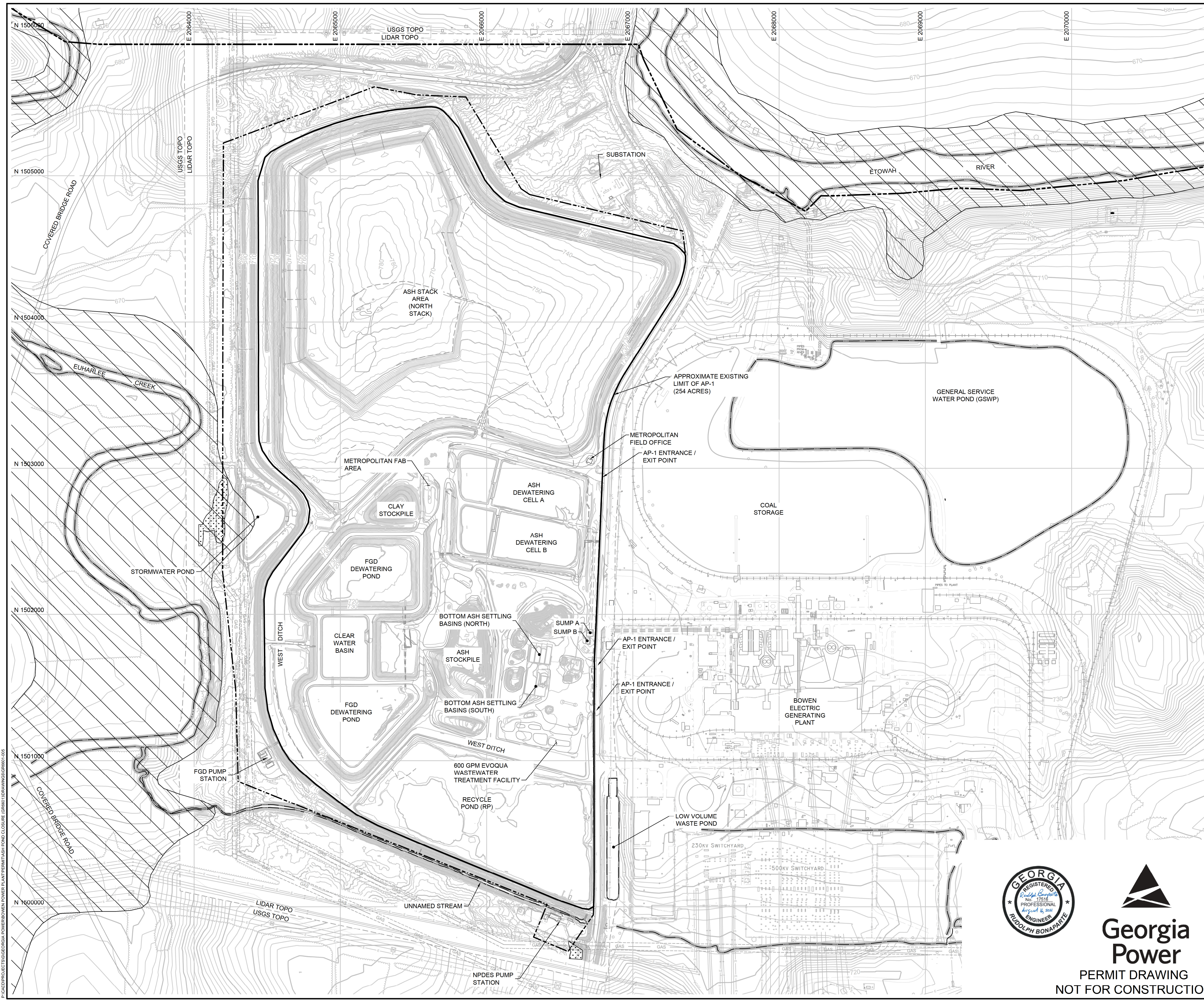
1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

PROJ. NO.	GR6601	DWG.	GR6601-004	EDIT	8/16/21
SCALE	1" = 500'	DRAWING 4 OF 50			
DATE	AUGUST 2021				



PERMIT DRAWING
NOT FOR CONSTRUCTION

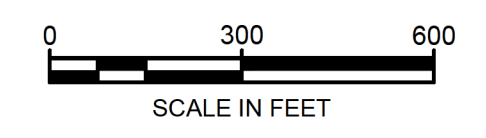
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LEGEND

- EXISTING GROUND ELEVATION (FEET) (NOTE 1)
- EXISTING ROAD
- EXISTING PIPE
- PLANT BUILDINGS / STRUCTURES
- WATER-LINE / CREEK
- APPROXIMATE EXISTING LIMIT OF AP-1 (NOTE 1)
- PROPERTY BOUNDARY (NOTE 5)
- PERMIT BOUNDARY
- WETLAND (NOTE 3)
- 100-YEAR FLOODPLAIN (NOTE 4)

- NOTES:**
1. SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 2. TOPOGRAPHIC CONTOURS ARE PRESENTED AT 2-FT INTERVALS.
 3. WETLAND LOCATIONS ARE AS DELINEATED BY ECOLOGICAL SOLUTIONS, INC. IN JUNE 2018.
 4. 100-YEAR FLOODPLAIN IS TAKEN FROM FEMA FLOOD INSURANCE RATE MAP NUMBERS 13015C0245G AND 13015C0335G, BOTH DATED 28 SEPTEMBER 2007.
 5. ALONG EASTERN SIDE OF AP-1, PERMIT BOUNDARY IS ALIGNED WITH APPROXIMATE LIMIT OF AP-1, AND THUS OBSCURED IN THIS AREA ON THIS DRAWING. REFER TO DRAWING 3 FOR THE PERMIT BOUNDARY SURVEY AND LEGAL DESCRIPTION.



REV	DATE	DESCRIPTION	DRN	APP
0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB

EXISTING SITE CONDITIONS AND TOPOGRAPHY

PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA

Geosyntec
consultants

1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

PROJ. NO.	GR6601	DWG.	GR6601-005	EDIT	8/16/21
SCALE	1" = 300'	DRAWING 5 OF 50			
DATE	AUGUST 2021				



Georgia Power
PERMIT DRAWING
NOT FOR CONSTRUCTION

P:\CAD\PROJECTS\GEORGIA POWER\BOWEN POWER PLANT\PERMIT\ASH POND CLOSURE (GR6601)\DRAWINGS\DRW01.DWG



LEGEND

- APPROXIMATE BOTTOM OF CCR SURFACE ELEVATION (FEET) (NOTES 2, 3, AND 4)
- - - PERMIT BOUNDARY (NOTE 5)
- APPROXIMATE EXISTING LIMIT OF AP-1 (NOTE 1)

NOTES:

1. SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
2. CONTOURS SHOWN ON THIS DRAWING WITHIN LIMITS OF AP-1 REPRESENT BOTTOM OF AP-1 (I.E., BOTTOM OF CCR) GRADES. SEE NOTE 8 ON DRAWING 2. CONTOURS SHOWN ON THIS DRAWING BEYOND LIMITS OF AP-1 ARE EXISTING GROUND TOPOGRAPHY.
3. DURING CLOSURE CONSTRUCTION, CONTRACTOR WILL VERIFY BOTH LATERAL AND VERTICAL EXTENTS OF CCR IN THE FIELD.
4. AREAS WITHIN LATERAL EXTENT OF CCR IN AP-1 (AS FIELD-VERIFIED DURING CLOSURE CONSTRUCTION) WILL HAVE AN ADDITIONAL SIX-INCHES MINIMUM OF MATERIAL REMOVAL BELOW BOTTOM OF CCR. EXCAVATED CCR (INCLUDING SIX-INCHES MINIMUM OF ADDITIONAL MATERIAL EXCAVATION) WILL BE PLACED IN THE CONSOLIDATED LINED AREA.
5. ALONG EASTERN SIDE OF AP-1, PERMIT BOUNDARY IS ALIGNED WITH APPROXIMATE LIMIT OF AP-1, AND THUS OBSCURED IN THIS AREA ON THIS DRAWING. REFER TO DRAWING 3 FOR THE PERMIT BOUNDARY SURVEY AND LEGAL DESCRIPTION.



REV	DATE	DESCRIPTION	DRN	APP
0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB

APPROXIMATE BOTTOM OF AP-1 GRADES

PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA

Geosyntec
consultants

1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.3660
WWW.GEOSYNTEC.COM

PROJ. NO.	GR6601	DWG.	GR6601-006	EDIT	8/16/21
SCALE	1" = 300'	DRAWING 6 OF 50			
DATE	AUGUST 2021				



Georgia Power
PERMIT DRAWING
NOT FOR CONSTRUCTION

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LEGEND

	EXCAVATION SURFACE ELEVATION (FEET) (NOTES 2 AND 3)
	PERMIT BOUNDARY (NOTE 4)
	APPROXIMATE EXISTING LIMIT OF AP-1 (NOTE 1)
	CONSOLIDATED AREA FOUNDATION IMPROVEMENTS (NOTE 3)
	OTHER AREA FOUNDATION IMPROVEMENTS (NOTE 3)

- NOTES:**
- SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - EXCAVATION CONTOURS ON THIS DRAWING ARE THE SAME AS DRAWING 8. SEE NOTE 3, DRAWING 8 FOR BASIS FOR EXCAVATION CONTOURS.
 - FOUNDATION IMPROVEMENTS WILL BE PERFORMED IN ACCORDANCE WITH THE 'FOUNDATION IMPROVEMENT PLAN' INCLUDED WITH THIS PERMIT APPLICATION. A SUMMARY OF ACTIVITIES IS PROVIDED BELOW.
 - CONSOLIDATED LINED AREAS:** AS HIGHLIGHTED ON THIS DRAWING, WITHIN THE FLOOR AREAS OF THE CONSOLIDATED LINED FOOTPRINT AND BENEATH THE BASE OF THE NEW NORTH AND SOUTH DIKES, AFTER REMOVAL OF CCR (AND SIX-INCHES OF ADDITIONAL MATERIAL BELOW CCR), THE FOLLOWING ACTIVITIES WILL BE PERFORMED: (I) ADDITIONAL OVER-EXCAVATION AS PRESENTED AND DESCRIBED ON DRAWING 8; (II) FOUNDATION EVALUATION AND MITIGATION IN ACCORDANCE WITH THE FOUNDATION IMPROVEMENT PLAN; (III) COMPACTED SOIL FILL LAYER PLACEMENT TO ACHIEVE LINER SUBGRADE (BOTTOM OF CLAY LINER) GRADES.
 - OTHER AREAS:** AS HIGHLIGHTED ON THIS DRAWING, WITHIN AP-1 IN THE OTHER AREAS BEYOND THE CONSOLIDATED LINED AREA (PRIMARILY TO THE NORTH AND SOUTH), AFTER REMOVAL OF CCR (AND SIX-INCHES OF ADDITIONAL MATERIAL BELOW CCR), THE FOLLOWING ACTIVITIES WILL BE PERFORMED: (I) ADDITIONAL EXCAVATION AS PRESENTED AND DESCRIBED ON DRAWING 8; (II) FOUNDATION EVALUATION AND MITIGATION IN ACCORDANCE WITH THE FOUNDATION IMPROVEMENT PLAN; (III) COMPACTED SOIL FILL PLACEMENT AS NEEDED TO GRADE TO DRAIN UNDER FINAL CLOSED CONDITIONS.
 - ALONG EASTERN SIDE OF AP-1, PERMIT BOUNDARY IS ALIGNED WITH APPROXIMATE LIMIT OF AP-1, AND THUS OBSCURED IN THIS AREA ON THIS DRAWING. REFER TO DRAWING 3 FOR THE PERMIT BOUNDARY SURVEY AND LEGAL DESCRIPTION.

P:\CAD\PROJECTS\GEORGIA POWER\BOWEN POWER PLANT\PERMIT\ASH POND CLOSURE (GR6601)\DRAWINGS\DRW01.DWG



**PERMIT DRAWING
NOT FOR CONSTRUCTION**

REV	DATE	DESCRIPTION	DRN	APP
0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB

FOUNDATION IMPROVEMENT PLAN

**PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA**

Geosyntec
consultants

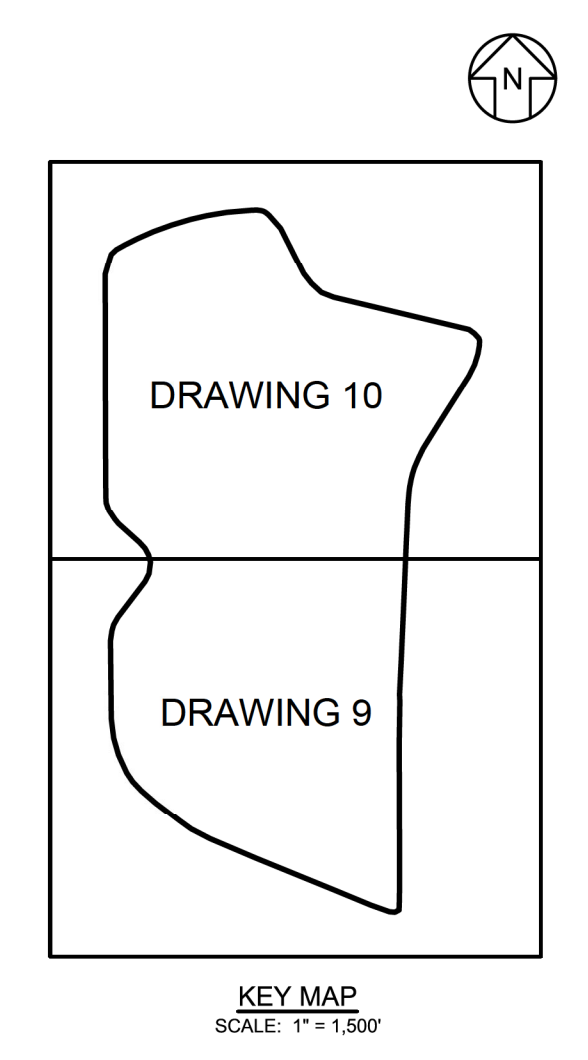
1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

PROJ. NO.	GR6601	DWG.	GR6601-007	EDIT	8/16/21
SCALE	1" = 300'	DRAWING 7 OF 50			
DATE	AUGUST 2021				

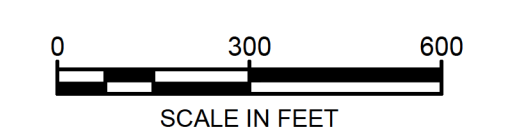


LEGEND

	EXCAVATION SURFACE ELEVATION (FEET) (NOTES 2 AND 3)
	PERMIT BOUNDARY (NOTE 6)
	APPROXIMATE EXISTING LIMIT OF AP-1 (NOTE 1)
	APPROXIMATE LIMIT OF CONSOLIDATED AREA FOUNDATION IMPROVEMENTS



- NOTES:**
- SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - CONTOURS SHOWN ON THIS DRAWING WITHIN LIMITS OF AP-1 REPRESENT ESTIMATED MINIMUM BOTTOM OF EXCAVATION GRADES. CONTOURS SHOWN ON THIS DRAWING BEYOND LIMITS OF AP-1 ARE EXISTING GROUND TOPOGRAPHY.
 - EXCAVATION SURFACE IS APPROXIMATE, AND WAS DEVELOPED BASED ON THE ESTIMATED BOTTOM OF CCR AND TO MEET THE FOLLOWING CRITERIA: (I) EXCAVATE AT LEAST SIX INCHES BELOW THE BOTTOM OF CCR SURFACE IN ALL AREAS OF AP-1; (II) CONDUCT ADDITIONAL OVER-EXCAVATION AS NEEDED BENEATH THE FLOOR AREAS OF THE CONSOLIDATED LINED FOOTPRINT AND BENEATH THE BASE OF THE NEW NORTH AND SOUTH CONTAINMENT DIKES TO CONDUCT FOUNDATION IMPROVEMENTS AND PROVIDE AN 8-FT (MIN) COMPACTED SOIL BUFFER ZONE BELOW THE LINER SYSTEM; AND (III) CONDUCT ADDITIONAL EXCAVATION IN THE AREAS SOUTH AND NORTH OF THE CONSOLIDATED LINED FOOTPRINT AS NEEDED TO DRAIN UNDER FINAL CLOSED CONDITIONS.
 - EXCAVATION GRADES WILL BE ADJUSTED AS NECESSARY DURING CLOSURE CONSTRUCTION BASED ON APPLYING THE ABOVE CRITERIA TO THE ACTUAL FIELD-LOCATED BOTTOM OF CCR, AS WELL AS BASED ON FOUNDATION EVALUATIONS AND IMPROVEMENTS CONDUCTED IN ACCORDANCE WITH THE "FOUNDATION IMPROVEMENT PLAN" INCLUDED WITH THIS PERMIT APPLICATION.
 - EXCAVATION CONTOURS SHOWN ON THIS DRAWING ARE APPROXIMATE. ACTUAL EXCAVATION GRADES MAY EXTEND DEEPER AND SMOOTHED AS NEEDED TO FACILITATE CONSTRUCTION AND ACCOMPLISH FOUNDATION IMPROVEMENTS, FOLLOWED BY COMPACTED FILL PLACEMENT AS NECESSARY, PER NOTE 3.
 - ALONG EASTERN SIDE OF AP-1, PERMIT BOUNDARY IS ALIGNED WITH APPROXIMATE LIMIT OF AP-1, AND THUS OBTUSCURED IN THIS AREA ON THIS DRAWING. REFER TO DRAWING 3 FOR THE PERMIT BOUNDARY SURVEY AND LEGAL DESCRIPTION.



REV	DATE	DESCRIPTION	DRN	APP
0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB

EXCAVATION PLAN - OVERALL

PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA

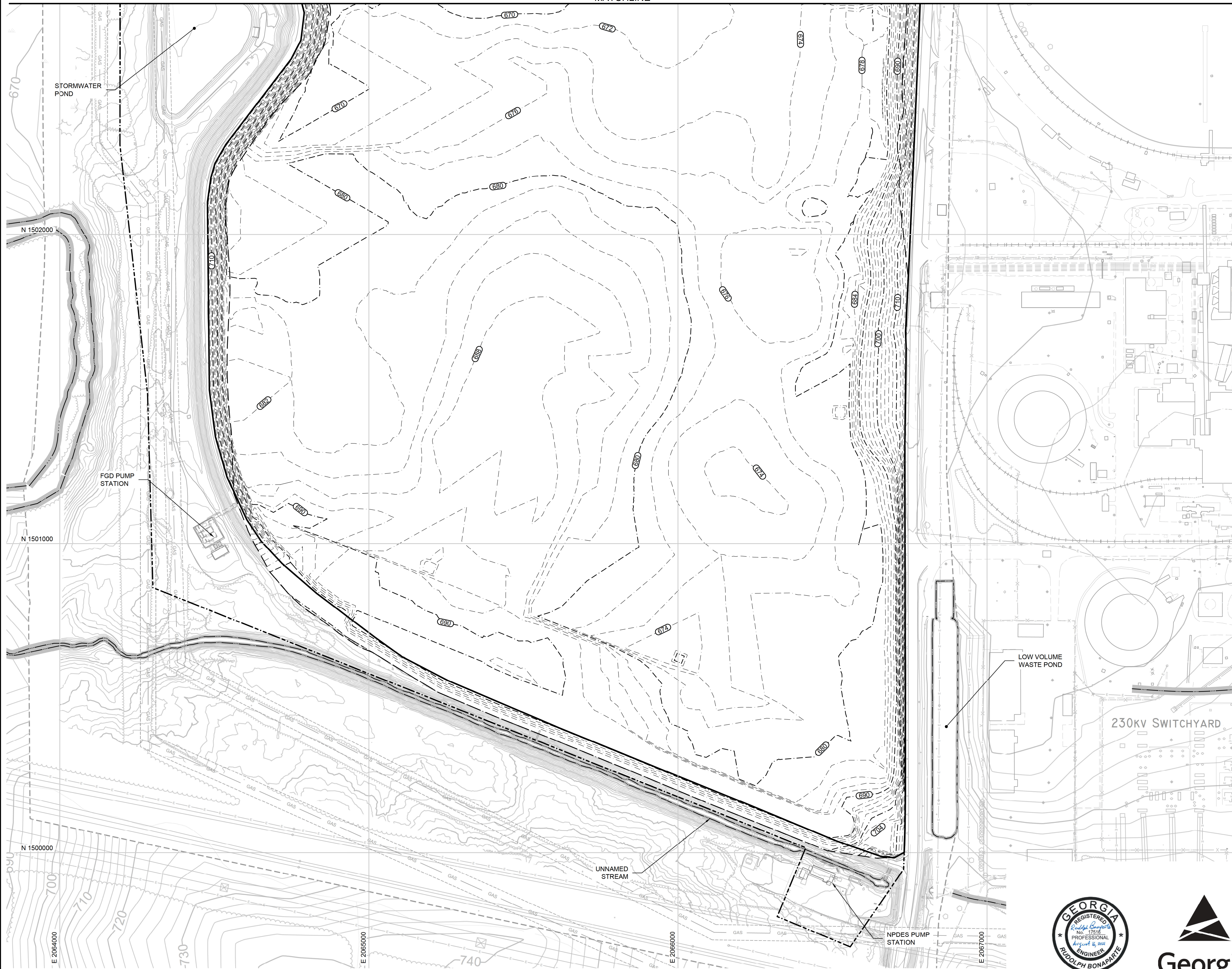
Geosyntec consultants		1255 ROBERTS' BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA		PHONE: 678.202.9500 WWW.GEOSYNTEC.COM	
PROJ. NO.	GR6601	DWG.	GR6601-008	EDIT	8/16/21
SCALE	1" = 300'	DRAWING			8 OF 50
DATE	AUGUST 2021				



PERMIT DRAWING
NOT FOR CONSTRUCTION

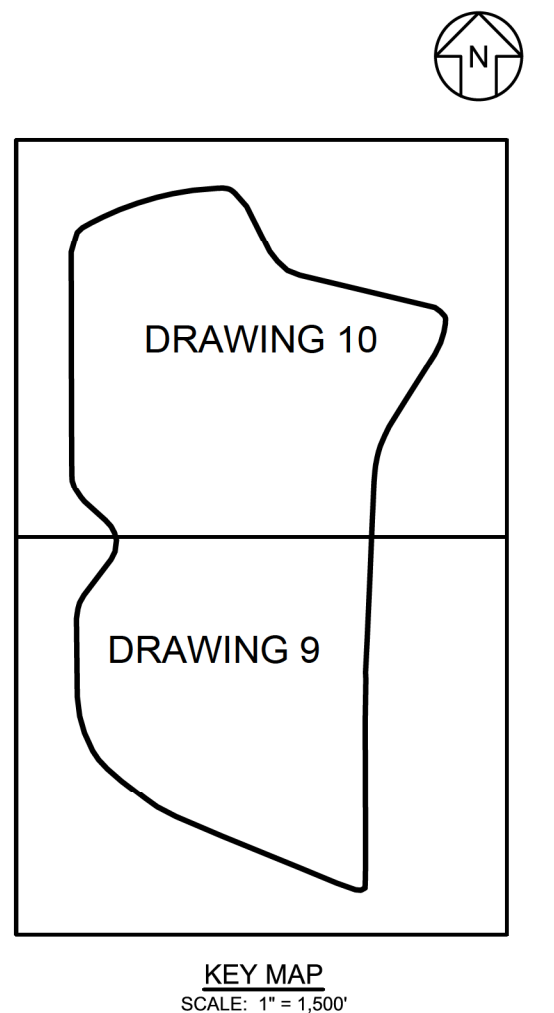
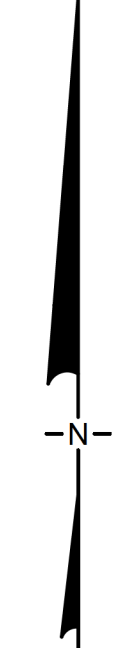
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MATCHLINE

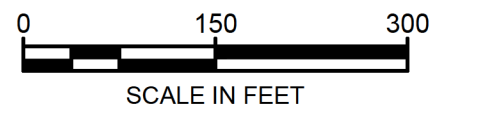


LEGEND

	EXCAVATION SURFACE ELEVATION (FEET) (NOTES 2 AND 3)
	PERMIT BOUNDARY (NOTE 6)
	APPROXIMATE EXISTING LIMIT OF AP-1 (NOTE 1)
	APPROXIMATE LIMIT OF CONSOLIDATED AREA FOUNDATION IMPROVEMENTS



- NOTES:**
- SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - CONTOURS SHOWN ON THIS DRAWING WITHIN LIMITS OF AP-1 REPRESENT ESTIMATED MINIMUM BOTTOM OF EXCAVATION GRADES. CONTOURS SHOWN ON THIS DRAWING BEYOND LIMITS OF AP-1 ARE EXISTING GROUND TOPOGRAPHY.
 - EXCAVATION SURFACE IS APPROXIMATE, AND WAS DEVELOPED BASED ON THE ESTIMATED BOTTOM OF CCR AND TO MEET THE FOLLOWING CRITERIA: (I) EXCAVATE AT LEAST SIX INCHES BELOW THE BOTTOM OF CCR SURFACE IN ALL AREAS OF AP-1; (II) CONDUCT ADDITIONAL OVER-EXCAVATION AS NEEDED BENEATH THE FLOOR AREAS OF THE CONSOLIDATED LINED FOOTPRINT AND BENEATH THE BASE OF THE NEW NORTH AND SOUTH CONTAINMENT DIKES TO CONDUCT FOUNDATION IMPROVEMENTS AND PROVIDE AN 8-FT (MIN) COMPACTED SOIL BUFFER ZONE BELOW THE LINER SYSTEM; AND (III) CONDUCT ADDITIONAL EXCAVATION IN THE AREAS SOUTH AND NORTH OF THE CONSOLIDATED LINED FOOTPRINT AS NEEDED TO GRADE TO DRAIN UNDER FINAL CLOSED CONDITIONS.
 - EXCAVATION GRADES WILL BE ADJUSTED AS NECESSARY DURING CLOSURE CONSTRUCTION BASED ON APPLYING THE ABOVE CRITERIA TO THE ACTUAL FIELD-LOCATED BOTTOM OF CCR, AS WELL AS BASED ON FOUNDATION EVALUATIONS AND IMPROVEMENTS CONDUCTED IN ACCORDANCE WITH THE "FOUNDATION IMPROVEMENT PLAN" INCLUDED WITH THIS PERMIT APPLICATION.
 - EXCAVATION CONTOURS SHOWN ON THIS DRAWING ARE APPROXIMATE. ACTUAL EXCAVATION GRADES MAY EXTEND DEEPER AND BE SMOOTHED AS NEEDED TO FACILITATE CONSTRUCTION AND ACCOMPLISH FOUNDATION IMPROVEMENTS, FOLLOWED BY COMPACTED FILL PLACEMENT AS NECESSARY, PER NOTE 3.
 - ALONG EASTERN SIDE OF AP-1, PERMIT BOUNDARY IS ALIGNED WITH APPROXIMATE LIMIT OF AP-1, AND THUS OBLSCURED IN THIS AREA ON THIS DRAWING. REFER TO DRAWING 3 FOR THE PERMIT BOUNDARY SURVEY AND LEGAL DESCRIPTION.



REV	DATE	DESCRIPTION	DRN	APP
0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB

EXCAVATION PLAN - SOUTH AP-1

PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA



1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

PROJ. NO.	GR6601	DWG.	GR6601-009	EDIT	8/16/21
SCALE	1" = 150'	DRAWING 9 OF 50			
DATE	AUGUST 2021				



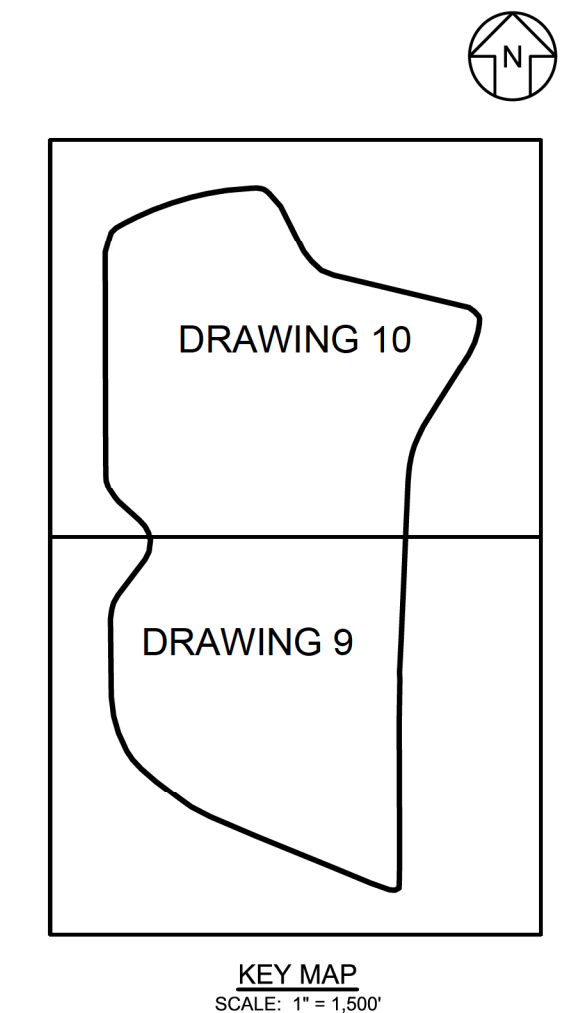
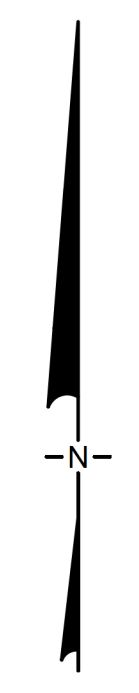
Georgia Power
PERMIT DRAWING
NOT FOR CONSTRUCTION

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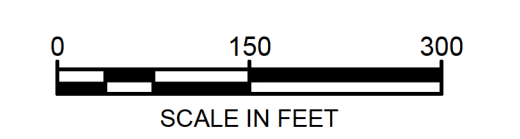


LEGEND

	EXCAVATION SURFACE ELEVATION (FEET) (NOTES 2 AND 3)
	PERMIT BOUNDARY (NOTE 6)
	APPROXIMATE EXISTING LIMIT OF AP-1 (NOTE 1)
	APPROXIMATE LIMIT OF CONSOLIDATED AREA FOUNDATION IMPROVEMENTS



- NOTES:**
- SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - CONTOURS SHOWN ON THIS DRAWING WITHIN LIMITS OF AP-1 REPRESENT ESTIMATED MINIMUM BOTTOM OF EXCAVATION GRADES. CONTOURS SHOWN ON THIS DRAWING BEYOND LIMITS OF AP-1 ARE EXISTING GROUND TOPOGRAPHY.
 - EXCAVATION SURFACE IS APPROXIMATE, AND WAS DEVELOPED BASED ON THE ESTIMATED BOTTOM OF CCR AND TO MEET THE FOLLOWING CRITERIA: (I) EXCAVATE AT LEAST SIX INCHES BELOW THE BOTTOM OF CCR SURFACE IN ALL AREAS OF AP-1; (II) CONDUCT ADDITIONAL OVER-EXCAVATION AS NEEDED BENEATH THE FLOOR AREAS OF THE CONSOLIDATED LINED FOOTPRINT AND BENEATH THE BASE OF THE NEW NORTH AND SOUTH CONTAINMENT DIKES TO CONDUCT FOUNDATION IMPROVEMENTS AND PROVIDE AN 8-FT (MIN) COMPACTED SOIL BUFFER ZONE BELOW THE LINER SYSTEM; AND (III) CONDUCT ADDITIONAL EXCAVATION IN THE AREAS SOUTH AND NORTH OF THE CONSOLIDATED LINED FOOTPRINT AS NEEDED TO GRADE TO DRAIN UNDER FINAL CLOSED CONDITIONS.
 - EXCAVATION GRADES WILL BE ADJUSTED AS NECESSARY DURING CLOSURE CONSTRUCTION BASED ON APPLYING THE ABOVE CRITERIA TO THE ACTUAL FIELD-LOCATED BOTTOM OF CCR, AS WELL AS BASED ON FOUNDATION EVALUATIONS AND IMPROVEMENTS CONDUCTED IN ACCORDANCE WITH THE "FOUNDATION IMPROVEMENT PLAN" INCLUDED WITH THIS PERMIT APPLICATION.
 - EXCAVATION CONTOURS SHOWN ON THIS DRAWING ARE APPROXIMATE. ACTUAL EXCAVATION GRADES MAY EXTEND DEEPER AND BE SMOOTHED AS NEEDED TO FACILITATE CONSTRUCTION AND ACCOMPLISH FOUNDATION IMPROVEMENTS, FOLLOWED BY COMPACTED FILL PLACEMENT AS NECESSARY, PER NOTE 3.
 - ALONG EASTERN SIDE OF AP-1, PERMIT BOUNDARY IS ALIGNED WITH APPROXIMATE LIMIT OF AP-1, AND THUS OBSCURED IN THIS AREA ON THIS DRAWING. REFER TO DRAWING 3 FOR THE PERMIT BOUNDARY SURVEY AND LEGAL DESCRIPTION.



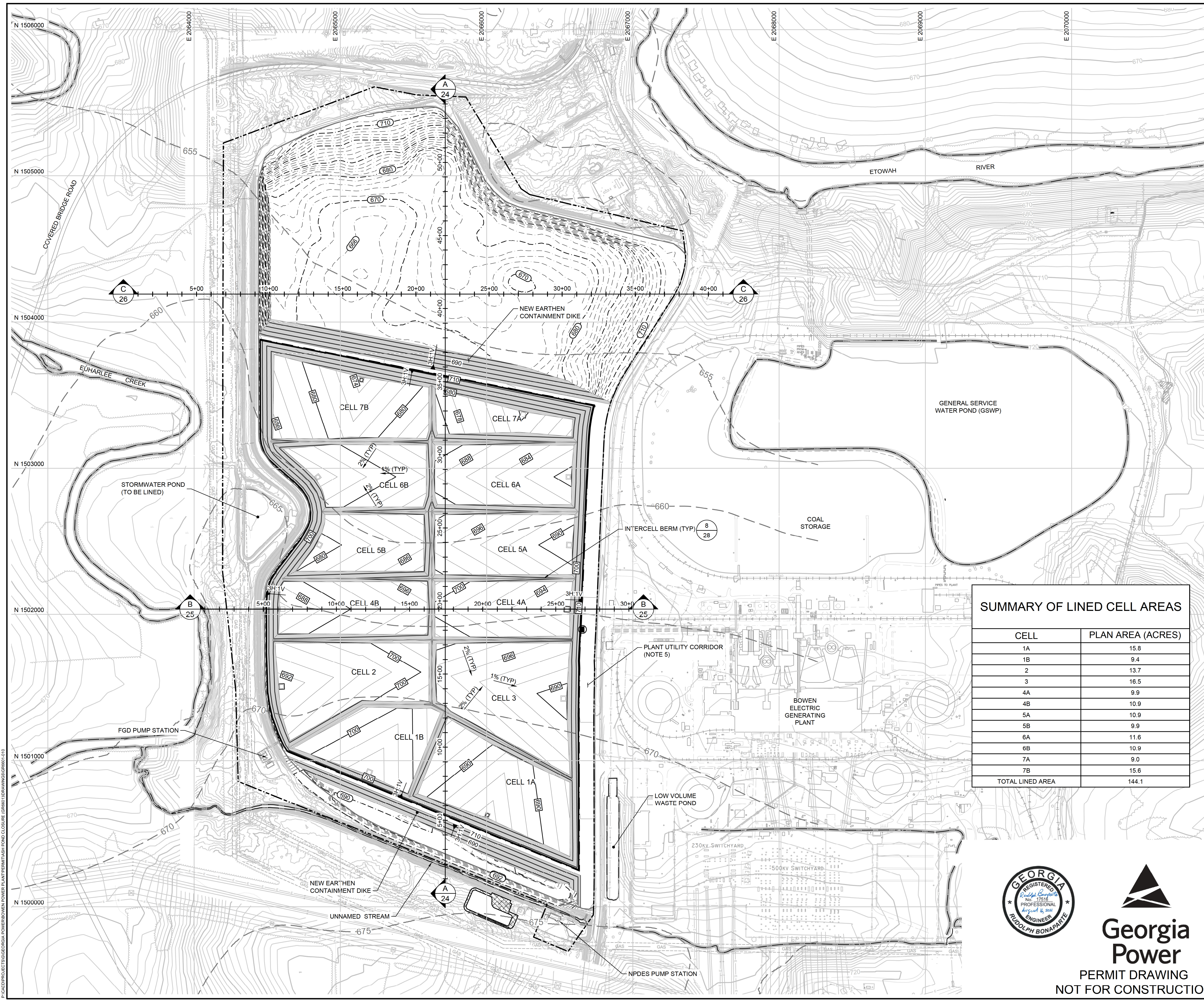
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Georgia Power
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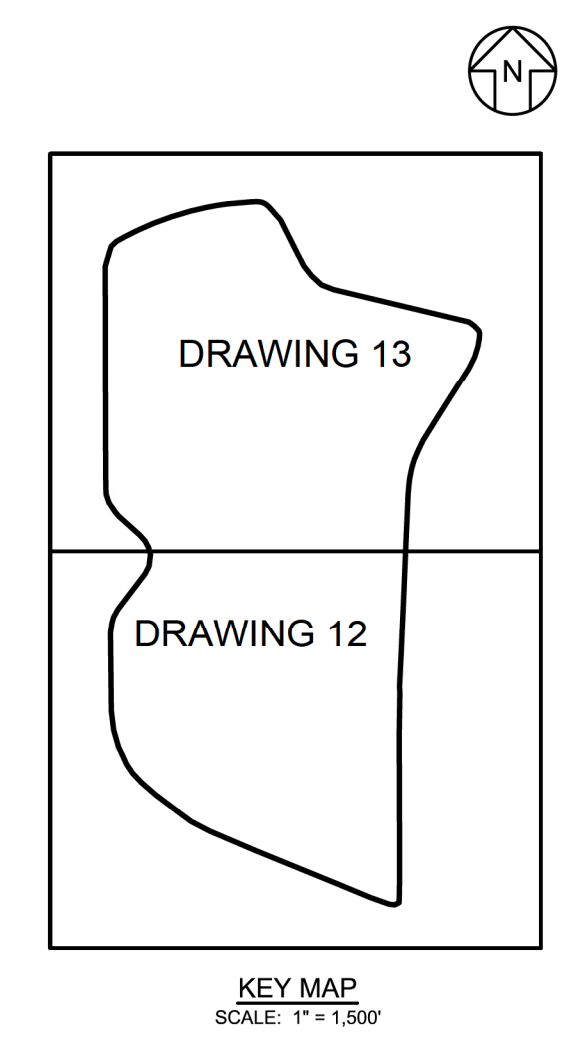
0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB	
REV	DATE	DESCRIPTION	DRN	APP	
EXCAVATION PLAN - NORTH AP-1					
PLANT BOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA					
Geosyntec consultants					
<small>1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA</small>					
PROJ. NO.	GR6601	DWG.	GR6601-009A	EDIT	8/16/21
SCALE	1" = 150'				
DATE	AUGUST 2021				
DRAWING 10 OF 50					

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LEGEND

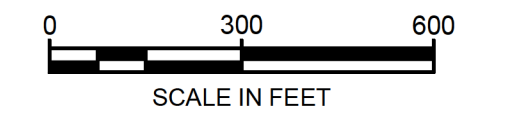
- 710 EXISTING GROUND ELEVATION (FEET) (NOTE 1)
- PERMIT BOUNDARY
- EXCAVATION SURFACE ELEVATION (FEET)
- TOP OF LINER ELEVATION (FEET)
- LIMIT OF LINER (NOTE 2)
- APPROXIMATE EXISTING LIMIT OF AP-1 (NOTE 1)
- PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET) (NOTE 1)
- TEMPORARY WWT'S PAD



- NOTES:**
- SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - TOP OF LINER GRADES SHOWN ON THIS DRAWING REPRESENT THE TOP OF THE GEOMEMBRANE COMPONENT OF THE LINER SYSTEM WITHIN THE CONSOLIDATED LINED FOOTPRINT AREA. WITHIN THE REMAINDER OF AP-1 (OUTSIDE THE CONSOLIDATED LINED FOOTPRINT AREA), GRADES REPRESENT EXTERIOR NORTH AND SOUTH CONTAINMENT DIKE SLOPES, WHICH TIE-IN TO THE ESTIMATED BOTTOM OF EXCAVATION GRADES CONTOURS SHOWN ON THIS DRAWING BEYOND LIMITS OF AP-1 ARE EXISTING GROUND TOPOGRAPHY. LOW POINTS OF CELLS WILL NOT BE LOWERED WITHOUT GA EPD APPROVAL. MINOR CHANGES TO LINER GRADES SHOWN ON THIS DRAWING MAY BE MADE DURING DETAILED DESIGN (E.G., RAISED TO PROVIDE SEPARATION FROM THE PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE PRESENTED IN THE "HYDROGEOLOGIC ASSESSMENT REPORT (REVISION 3)" (PART B, SECTION 2 OF THIS PERMIT APPLICATION)); LINER GRADES MAY BE RAISED AS NECESSARY DURING CONSTRUCTION BASED ON CONDITIONS ENCOUNTERED.
 - CLOSURE WILL BE CONDUCTED IN PHASES, RESULTING IN PLAN TO CONSTRUCT LINED CELLS AND PLACE CCR IN ASCENDING NUMERICAL ORDER. AS NEEDED TO FACILITATE CLOSURE CONSTRUCTION TIMING AND SEQUENCING, MULTIPLE CELLS MAY BE CONSTRUCTED AND OPERATED AT A TIME. CELLS MAY ALSO BE CONSTRUCTED OUT-OF-SEQUENCE, WITH MINOR ADJUSTMENTS TO INTERCELL BOUNDARIES, OR SUBDIVIDED INTO PARTIAL CELL AREAS TO FACILITATE CLOSURE ACTIVITIES. REFER TO DRAWINGS 20 THROUGH 23 FOR THE CLOSURE PHASING PLANS.
 - REFER TO DRAWINGS 33 THROUGH 37 FOR THE LEACHATE MANAGEMENT SYSTEM PLAN AND DETAILS.
 - THE PLANT UTILITY CORRIDOR REFERS TO A 100-FT WIDE CORRIDOR IMMEDIATELY EAST OF THE CONSOLIDATED LINED AREA THAT WILL BE CONSTRUCTED IN CONJUNCTION WITH THE CLOSURE PROJECT. CORRIDOR MAY BE USED FOR PLANT-RELATED UTILITIES AND INFRASTRUCTURE.

SUMMARY OF LINED CELL AREAS

CELL	PLAN AREA (ACRES)
1A	15.8
1B	9.4
2	13.7
3	16.5
4A	9.9
4B	10.9
5A	10.9
5B	9.9
6A	11.6
6B	10.9
7A	9.0
7B	15.6
TOTAL LINED AREA	144.1



0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB
REV	DATE	DESCRIPTION	DRN	APP

TOP OF LINER GRADING PLAN - OVERALL

PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA

Geosyntec consultants

1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

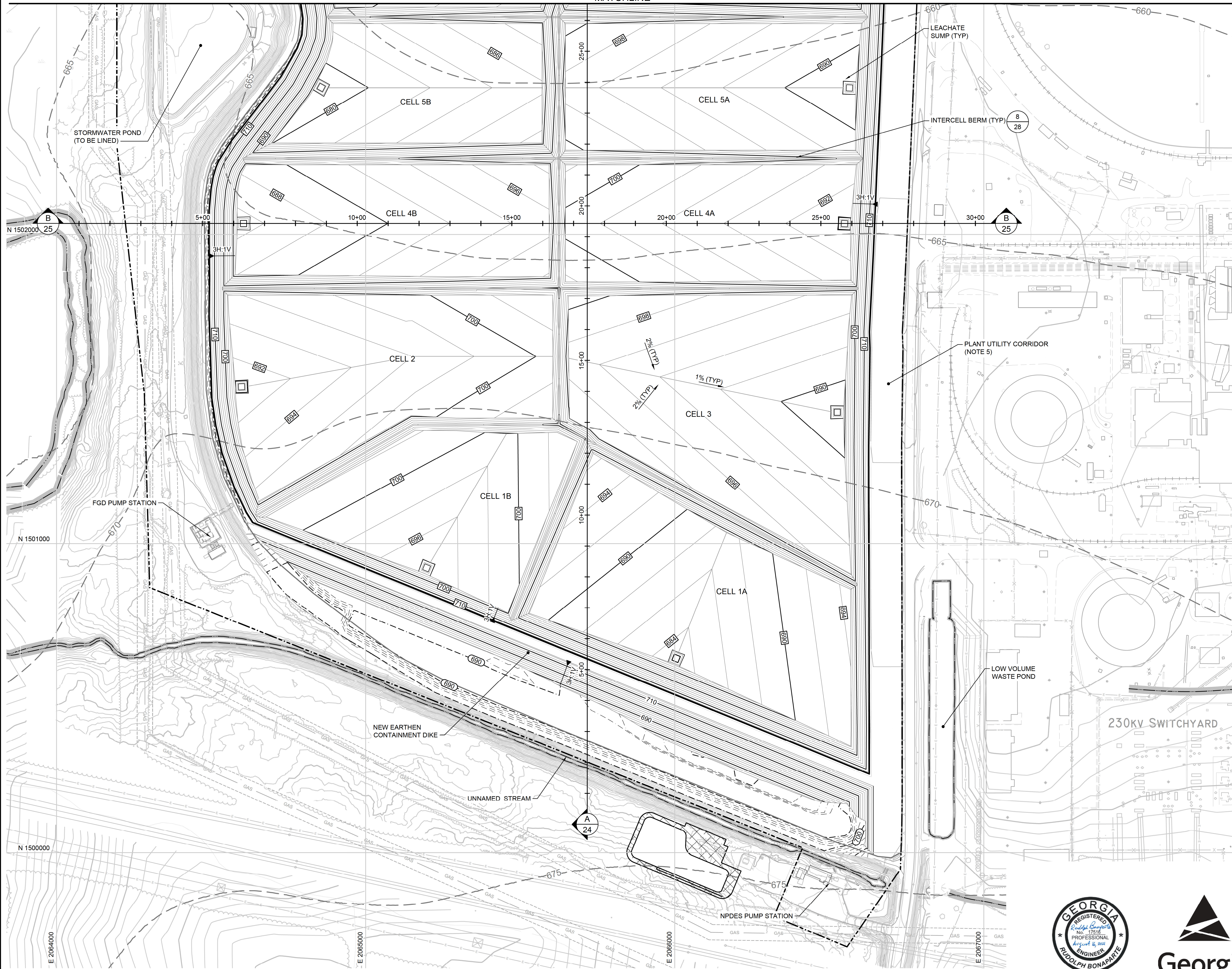
PROJ. NO.	GR6601	DWG.	GR6601-010	EDIT	8/16/21
SCALE	1" = 300'		DRAWING 11 OF 50		
DATE	AUGUST 2021				



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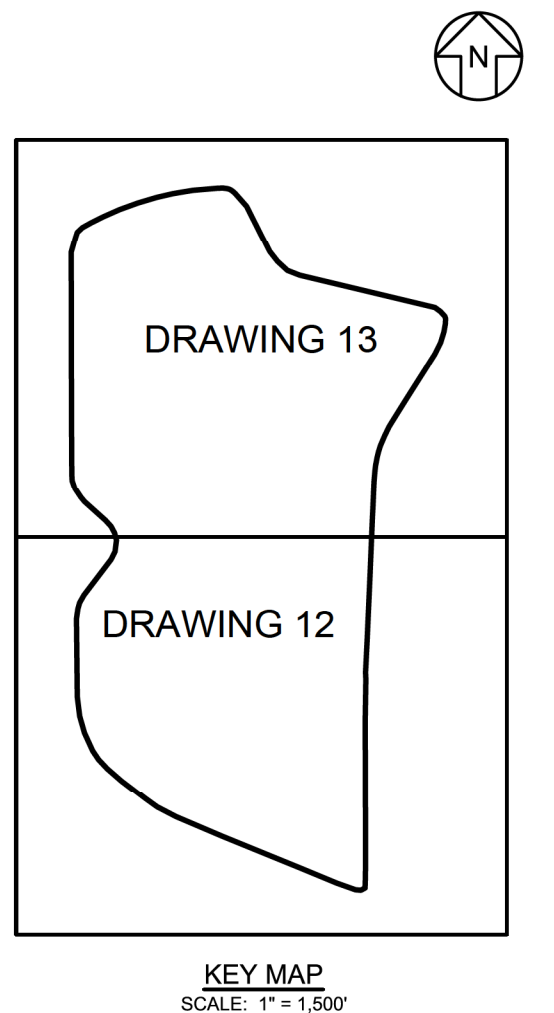
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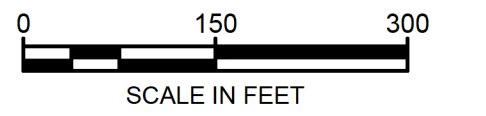


LEGEND

- 710 EXISTING GROUND ELEVATION (FEET) (NOTE 1)
- PERMIT BOUNDARY
- 670 EXCAVATION SURFACE ELEVATION (FEET)
- 680 TOP OF LINER ELEVATION (FEET)
- LIMIT OF LINER (NOTE 2)
- APPROXIMATE EXISTING LIMIT OF AP-1 (NOTE 1)
- 680- PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET) (NOTE 1)
- LEACHATE SUMP
- TEMPORARY WWTS PAD



- NOTES:
- SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - TOP OF LINER GRADES SHOWN ON THIS DRAWING REPRESENT THE TOP OF THE GEOMEMBRANE COMPONENT OF THE LINER SYSTEM WITHIN THE CONSOLIDATED LINED FOOTPRINT AREA. WITHIN THE REMAINDER OF AP-1 (OUTSIDE THE CONSOLIDATED LINED FOOTPRINT AREA), GRADES REPRESENT EXTERIOR NORTH AND SOUTH CONTAINMENT DIKE SLOPES, WHICH TIE-IN TO THE ESTIMATED BOTTOM OF EXCAVATION GRADES. CONTOURS SHOWN ON THIS DRAWING BEYOND LIMITS OF AP-1 ARE EXISTING GROUND TOPOGRAPHY. LOW POINTS OF CELLS WILL NOT BE LOWERED WITHOUT GA EPD APPROVAL. MINOR CHANGES TO LINER GRADES SHOWN ON THIS DRAWING MAY BE MADE DURING DETAILED DESIGN (E.G., RAISED TO PROVIDE SEPARATION FROM THE PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE PRESENTED IN THE "HYDROGEOLOGIC ASSESSMENT REPORT (REVISION 3)" (PART B, SECTION 2 OF THIS PERMIT APPLICATION)). LINER GRADES MAY BE RAISED AS NECESSARY DURING CONSTRUCTION BASED ON CONDITIONS ENCOUNTERED.
 - CLOSURE WILL BE CONDUCTED IN PHASES, RESULTING IN PLAN TO CONSTRUCT LINED CELLS AND PLACE CLR IN ASCENDING NUMERICAL ORDER AS NEEDED TO FACILITATE CLOSURE CONSTRUCTION TIMING AND SEQUENCING. MULTIPLE CELLS MAY BE CONSTRUCTED AND OPERATED AT A TIME. CELLS MAY ALSO BE CONSTRUCTED OUT-OF-SEQUENCE, WITH MINOR ADJUSTMENTS TO INTERCELL BOUNDARIES, OR SUBDIVIDED INTO PARTIAL CELL AREAS TO FACILITATE CLOSURE ACTIVITIES. REFER TO DRAWINGS 20 THROUGH 23 FOR THE CLOSURE PHASING PLANS.
 - REFER TO DRAWINGS 33 THROUGH 37 FOR THE LEACHATE MANAGEMENT SYSTEM PLAN AND DETAILS.
 - THE PLANT UTILITY CORRIDOR REFERS TO A 100-FT WIDE CORRIDOR IMMEDIATELY EAST OF THE CONSOLIDATED LINED AREA THAT WILL BE CONSTRUCTED IN CONJUNCTION WITH THE CLOSURE PROJECT. CORRIDOR MAY BE USED FOR PLANT-RELATED UTILITIES AND INFRASTRUCTURE.



REV	DATE	DESCRIPTION	DRN	APP
0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB

TOP OF LINER GRADING PLAN - SOUTH AP-1

PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA

Geosyntec
consultants

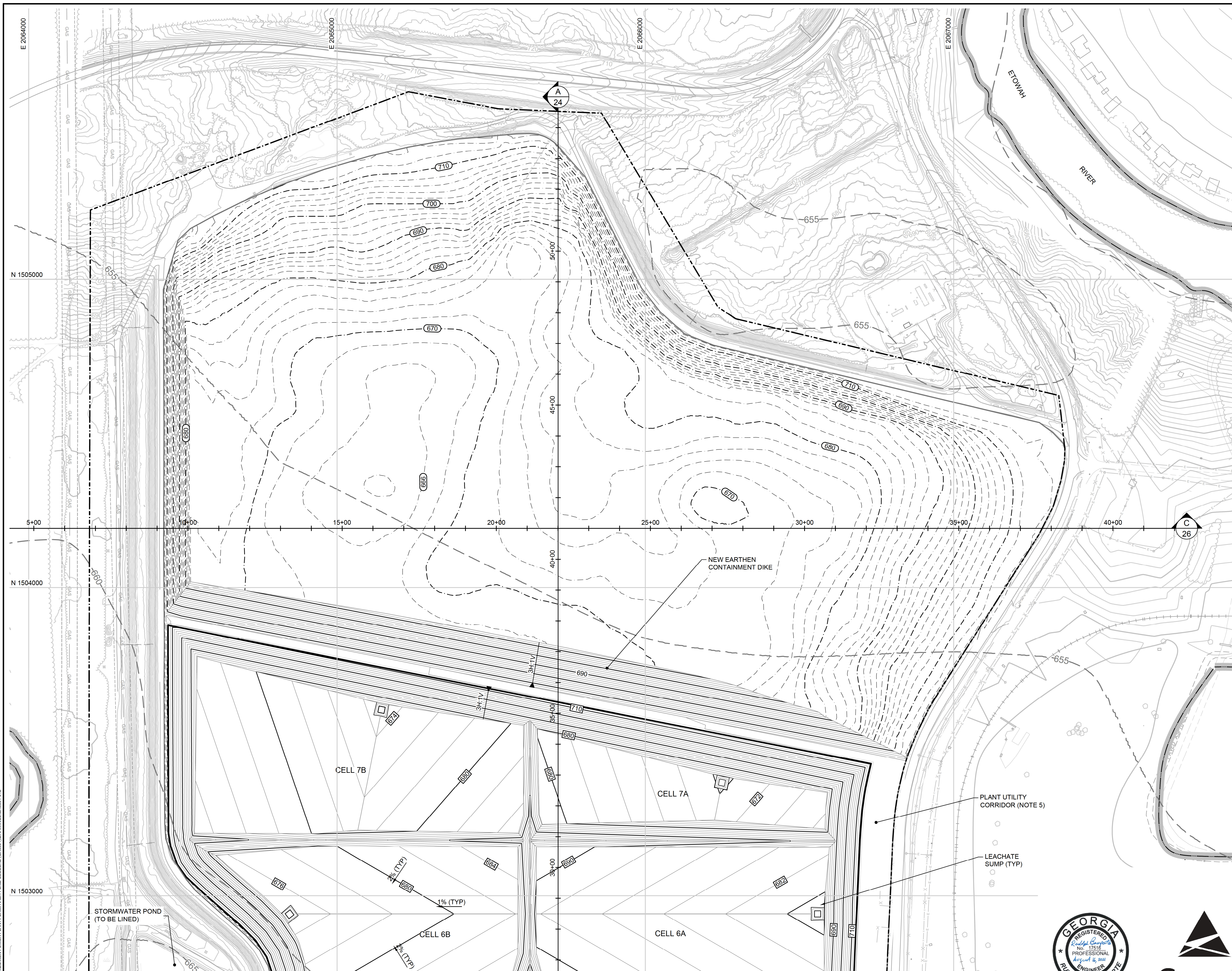
1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

PROJ. NO.	GR6601	DWG.	GR6601-011	EDIT	8/16/21
SCALE	1" = 150'	DRAWING 12 OF 50			
DATE	AUGUST 2021				



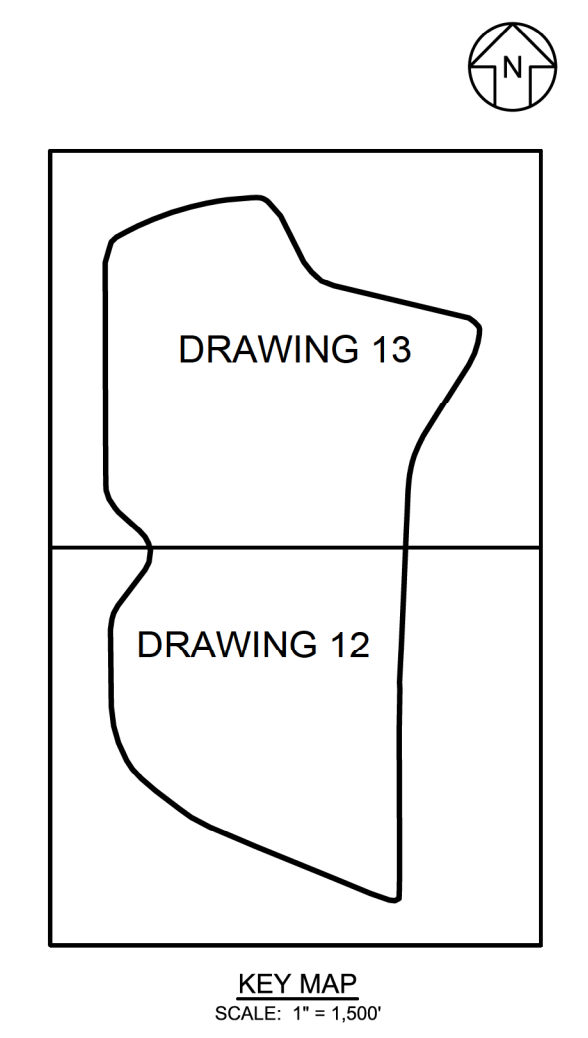
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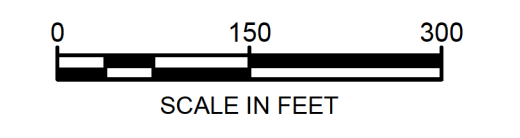


LEGEND

	710	EXISTING GROUND ELEVATION (FEET) (NOTE 1)
		PERMIT BOUNDARY
	670	EXCAVATION SURFACE ELEVATION (FEET)
	680	TOP OF LINER ELEVATION (FEET)
		LIMIT OF RETROFIT LINER
		APPROXIMATE EXISTING LIMIT OF AP-1 (NOTE 1)
	680	PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET) (NOTE 1)
		LEACHATE SUMP



- NOTES:**
- SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - TOP OF LINER GRADES SHOWN ON THIS DRAWING REPRESENT THE TOP OF THE GEOMEMBRANE COMPONENT OF THE LINER SYSTEM WITHIN THE CONSOLIDATED LINED FOOTPRINT AREA. WITHIN THE REMAINDER OF AP-1 (OUTSIDE THE CONSOLIDATED LINED FOOTPRINT AREA), GRADES REPRESENT EXTERIOR NORTH AND SOUTH CONTAINMENT DIKE SLOPES, WHICH TIE-IN TO THE ESTIMATED BOTTOM OF EXCAVATION GRADES. CONTOURS SHOWN ON THIS DRAWING BEYOND LIMITS OF AP-1 ARE EXISTING GROUND TOPOGRAPHY. LOW POINTS OF CELLS WILL NOT BE LOWERED WITHOUT GA EPD APPROVAL. MINOR CHANGES TO LINER GRADES SHOWN ON THIS DRAWING MAY BE MADE DURING DETAILED DESIGN (E.G., RAISED TO PROVIDE SEPARATION FROM THE PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE PRESENTED IN THE "HYDROGEOLOGIC ASSESSMENT REPORT (REVISION 3)" (PART B, SECTION 2 OF THIS PERMIT APPLICATION)). LINER GRADES MAY BE RAISED AS NECESSARY DURING CONSTRUCTION BASED ON CONDITIONS ENCOUNTERED.
 - CLOSURE WILL BE CONDUCTED IN PHASES, RESULTING IN PLAN TO CONSTRUCT LINED CELLS AND PLACE COR IN ASCENDING NUMERICAL ORDER, AS NEEDED TO FACILITATE CLOSURE CONSTRUCTION TIMING AND SEQUENCING. MULTIPLE CELLS MAY BE CONSTRUCTED AND OPERATED AT A TIME. CELLS MAY ALSO BE CONSTRUCTED OUT-OF-SEQUENCE, WITH MINOR ADJUSTMENTS TO INTERCELL BOUNDARIES, OR SUBDIVIDED INTO PARTIAL CELL AREAS TO FACILITATE CLOSURE ACTIVITIES. REFER TO DRAWINGS 20 THROUGH 23 FOR THE CLOSURE PHASING PLANS.
 - REFER TO DRAWINGS 33 THROUGH 37 FOR THE LEACHATE MANAGEMENT SYSTEM PLAN AND DETAILS.
 - THE PLANT UTILITY CORRIDOR REFERS TO A 100-FT WIDE CORRIDOR IMMEDIATELY EAST OF THE CONSOLIDATED LINED AREA THAT WILL BE CONSTRUCTED IN CONJUNCTION WITH THE CLOSURE PROJECT. CORRIDOR MAY BE USED FOR PLANT-RELATED UTILITIES AND INFRASTRUCTURE.



0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB
REV	DATE	DESCRIPTION	DRN	APP

TOP OF LINER GRADING PLAN - NORTH AP-1

PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA



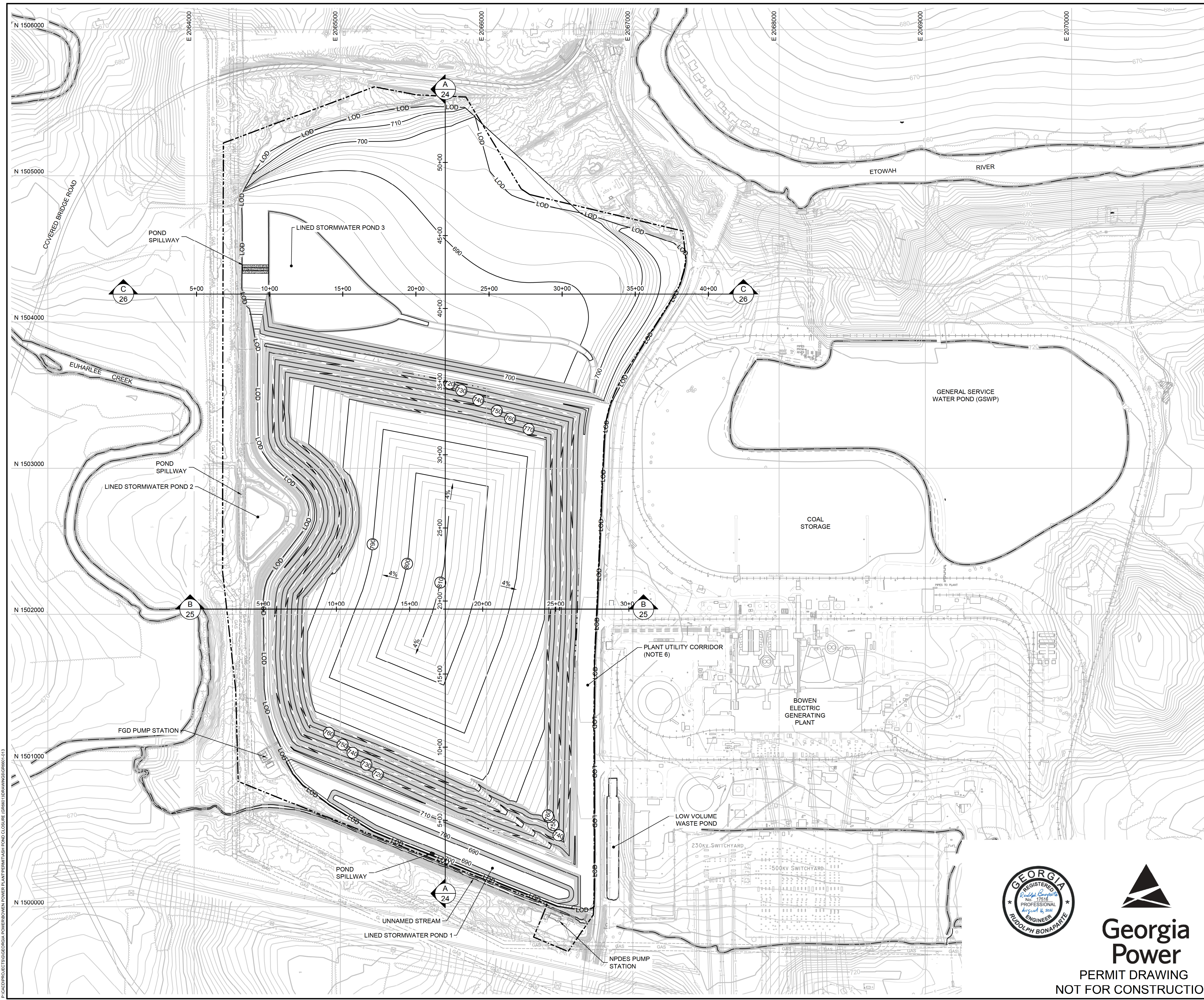
1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

PROJ. NO.	GR6601	DWG.	GR6601-012	EDIT	8/16/21
SCALE	1" = 150'	DRAWING 13 OF 50			
DATE	AUGUST 2021				



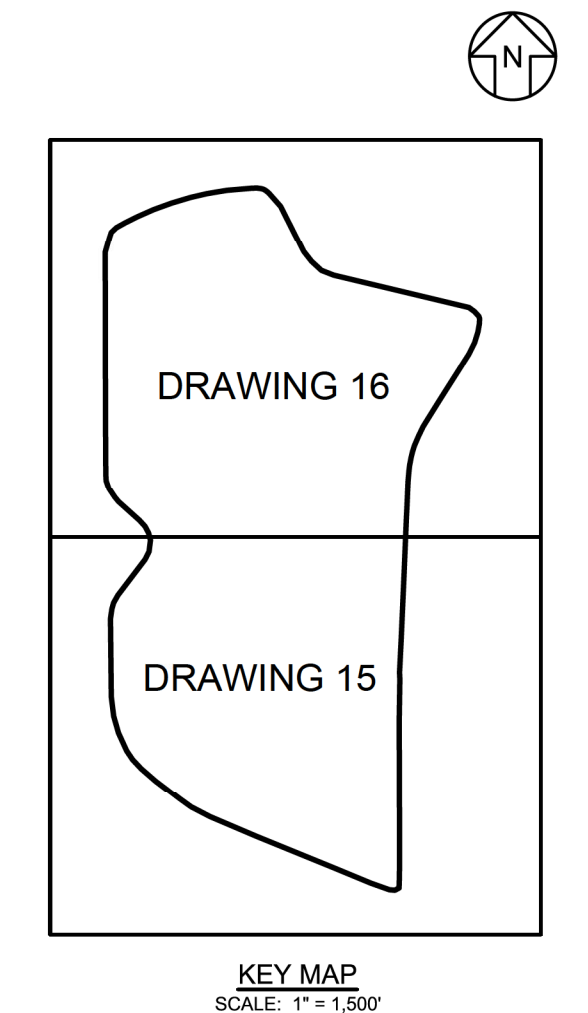
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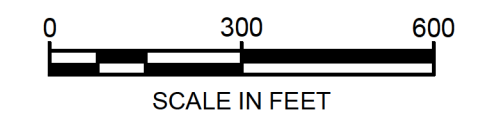


LEGEND

	FINISHED GROUND ELEVATION (FEET)
	PERMIT BOUNDARY
	TOP OF CCR ELEVATION FOR SOIL-GEOSYNTHETIC COMPOSITE COVER (FEET)
	LIMIT OF DISTURBANCE



- NOTES:**
- SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - TOP OF CCR GRADES SHOWN ON THIS DRAWING REPRESENT THE TOP OF CCR ELEVATIONS FOR THE SOIL-GEOSYNTHETIC COMPOSITE FINAL COVER OPTION. BEYOND THE FINAL COVER LIMITS, PROPOSED FINISHED GRADES ARE SHOWN, WHICH TIE-IN TO EXISTING GROUND TOPOGRAPHY AT THE LIMIT OF DISTURBANCE. SEE DRAWING 2, GENERAL SITE NOTE 19.
 - REFER TO DRAWINGS 20 THROUGH 23 FOR THE CLOSURE PHASING PLANS.
 - REFER TO DRAWINGS 38 THROUGH 49 FOR THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL PLAN AND DETAILS.
 - FOR CLARITY, FINAL CLOSURE STORMWATER MANAGEMENT FEATURES ARE NOT SHOWN ON THIS DRAWING. REFER TO DRAWING 38 FOR A DRAWING SHOWING THE LAYOUT PLAN AND IDENTIFICATION OF THESE FEATURES.
 - THE PLANT UTILITY CORRIDOR REFERS TO A 100-FT WIDE CORRIDOR IMMEDIATELY EAST OF THE CONSOLIDATED LINED AREA THAT WILL BE CONSTRUCTED IN CONJUNCTION WITH THE CLOSURE PROJECT. CORRIDOR MAY BE USED FOR PLANT-RELATED UTILITIES AND INFRASTRUCTURE.
 - IN ADDITION TO PERMANENT STORMWATER PONDS SHOWN, TEMPORARY LINED STORMWATER PONDS WILL BE UTILIZED DURING CONSTRUCTION AS NEEDED.



0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB
REV	DATE	DESCRIPTION	DRN	APP

TOP OF CCR GRADING PLAN - OVERALL

PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA

Geosyntec
consultants

1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

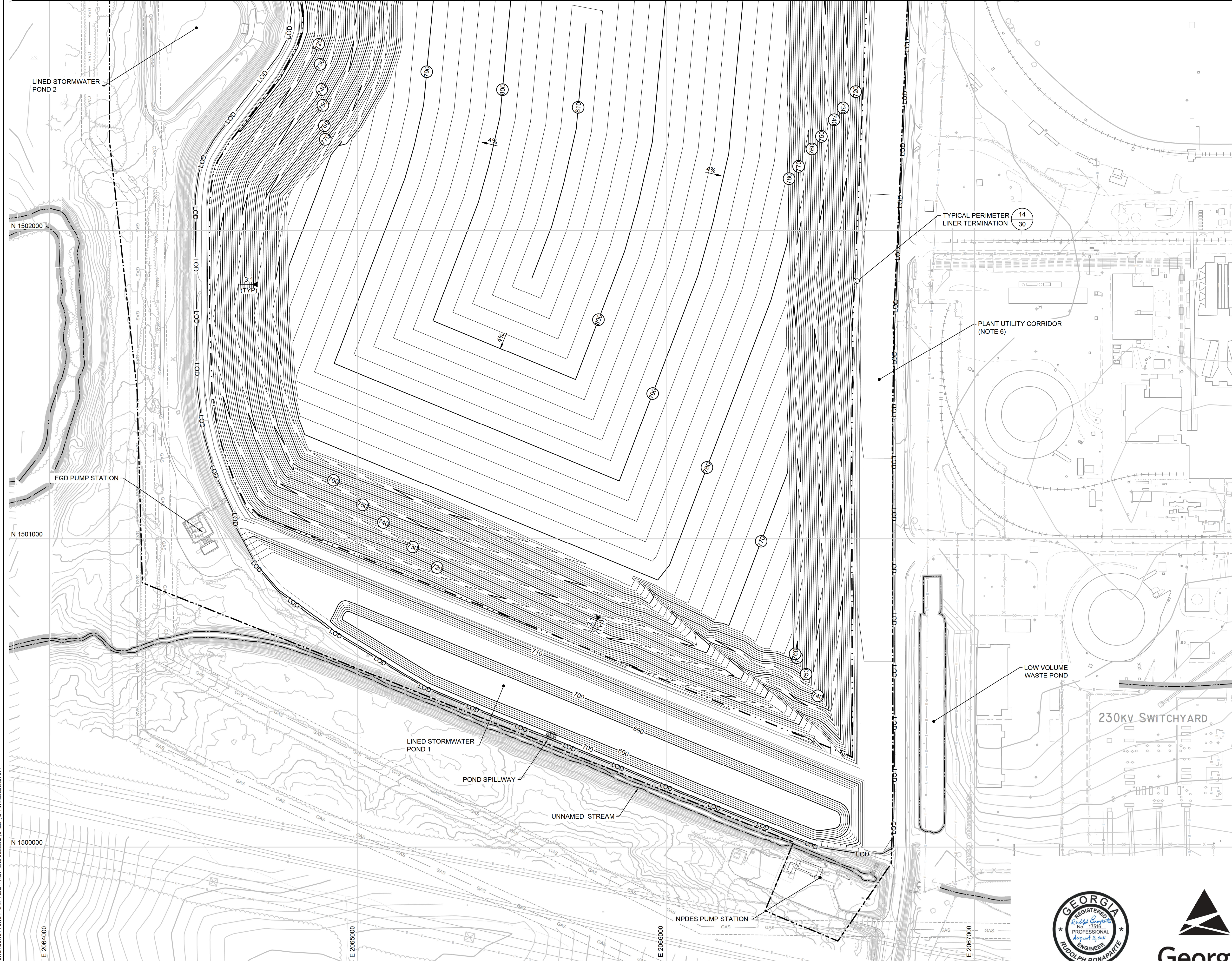
PROJ. NO.	GR6601	DWG.	GR6601-013	EDIT	8/16/21
SCALE	1" = 300'	DRAWING 14 OF 50			
DATE	AUGUST 2021				



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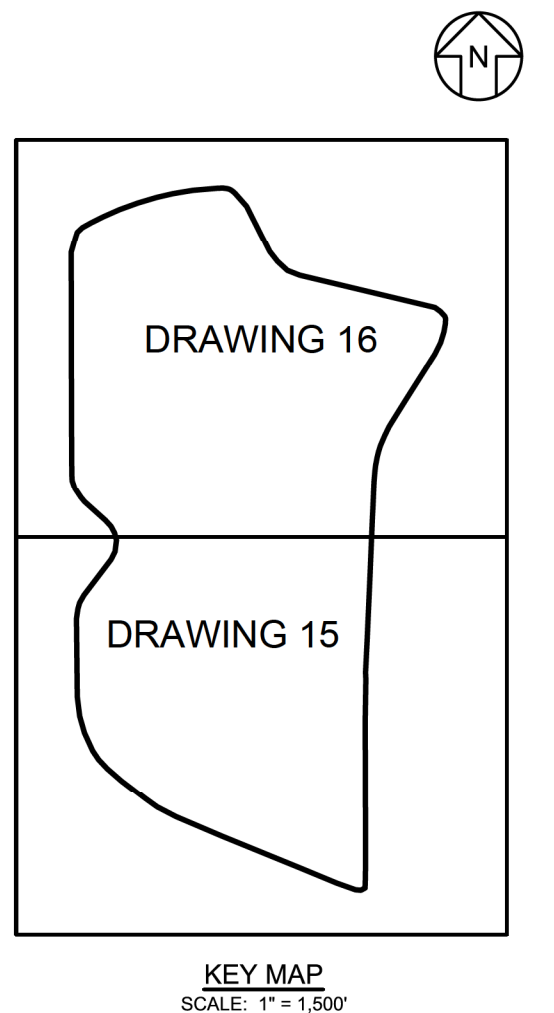
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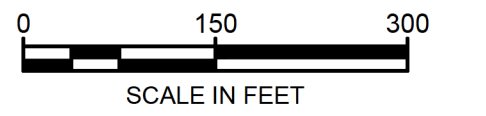
LEGEND

- 670 FINISHED GROUND ELEVATION (FEET)
- 770 TOP OF CCR ELEVATION FOR SOIL-GEOSYNTHETIC COMPOSITE COVER (FEET)
- PERMIT BOUNDARY
- LOD LIMIT OF DISTURBANCE
- FINAL LIMIT OF CCR



NOTES:

1. SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
2. TOP OF CCR GRADES SHOWN ON THIS DRAWING REPRESENT THE TOP OF CCR ELEVATIONS FOR THE SOIL-GEOSYNTHETIC COMPOSITE FINAL COVER OPTION. BEYOND THE FINAL COVER LIMITS, PROPOSED FINISHED GRADES ARE SHOWN, WHICH TIE-IN TO EXISTING GROUND TOPOGRAPHY AT THE LIMIT OF DISTURBANCE. SEE DRAWING 2, GENERAL SITE NOTE 19.
3. REFER TO DRAWINGS 20 THROUGH 23 FOR THE CLOSURE PHASING PLANS.
4. REFER TO DRAWINGS 38 THROUGH 49 FOR THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL PLAN AND DETAILS.
5. FOR CLARITY, FINAL CLOSURE STORMWATER MANAGEMENT FEATURES ARE NOT SHOWN ON THIS DRAWING. REFER TO DRAWING 38 FOR A DRAWING SHOWING THE LAYOUT PLAN AND IDENTIFICATION OF THESE FEATURES.
6. THE PLANT UTILITY CORRIDOR REFERS TO A 100-FT WIDE CORRIDOR IMMEDIATELY EAST OF THE CONSOLIDATED LINED AREA THAT WILL BE CONSTRUCTED IN CONJUNCTION WITH THE CLOSURE PROJECT. CORRIDOR MAY BE USED FOR PLANT-RELATED UTILITIES AND INFRASTRUCTURE.
7. IN ADDITION TO PERMANENT STORMWATER PONDS SHOWN, TEMPORARY LINED STORMWATER PONDS WILL BE UTILIZED DURING CONSTRUCTION AS NEEDED.



REV	DATE	DESCRIPTION	DRN	APP
0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB

TOP OF CCR GRADING PLAN - SOUTH

PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA



1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

PROJ. NO.	GR6601	DWG.	GR6601-014	EDIT	8/16/21
SCALE	1" = 150'	DRAWING 15 OF 50			
DATE	AUGUST 2021				



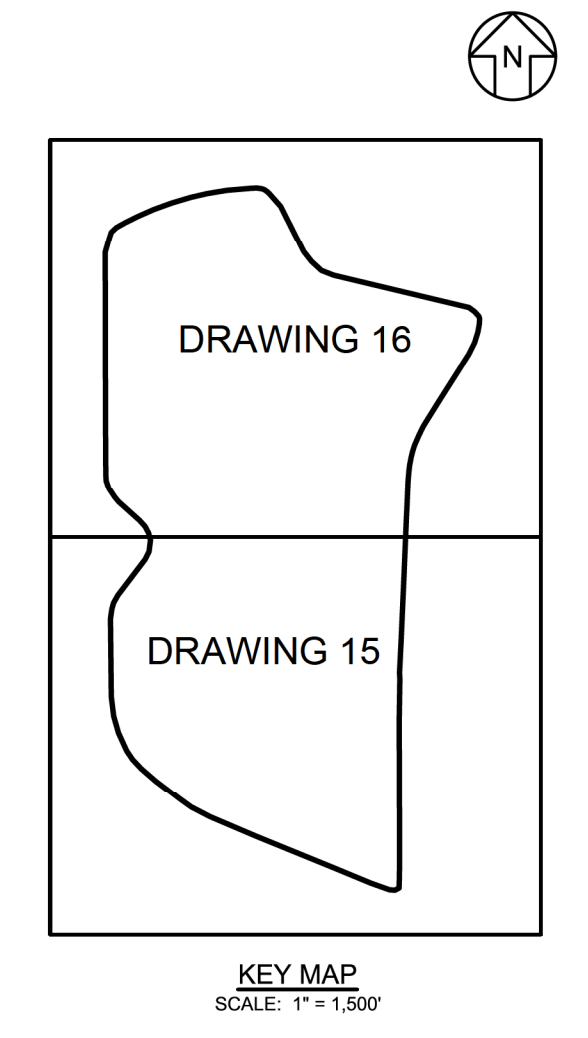
PERMIT DRAWING
NOT FOR CONSTRUCTION

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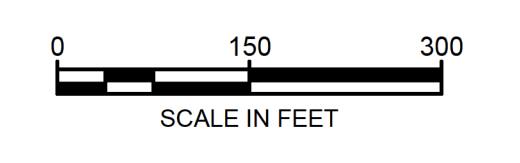


LEGEND

— 670 —	FINISHED GROUND ELEVATION (FEET)
○ 710 ○	TOP OF CCR ELEVATION FOR SOIL-GEOSYNTHETIC COMPOSITE COVER (FEET)
- - - - -	PERMIT BOUNDARY
— LOD —	LIMIT OF DISTURBANCE
· · · · ·	FINAL LIMIT OF CCR



- NOTES:**
- SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - TOP OF CCR GRADES SHOWN ON THIS DRAWING REPRESENT THE TOP OF CCR ELEVATIONS FOR THE SOIL-GEOSYNTHETIC COMPOSITE FINAL COVER OPTION. BEYOND THE FINAL COVER LIMITS, PROPOSED FINISHED GRADES ARE SHOWN, WHICH TIE-IN TO EXISTING GROUND TOPOGRAPHY AT THE LIMIT OF DISTURBANCE. SEE DRAWING 2, GENERAL SITE NOTE 19.
 - REFER TO DRAWINGS 20 THROUGH 23 FOR THE CLOSURE PHASING PLANS.
 - REFER TO DRAWINGS 38 THROUGH 49 FOR THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL PLAN AND DETAILS.
 - FOR CLARITY, FINAL CLOSURE STORMWATER MANAGEMENT FEATURES ARE NOT SHOWN ON THIS DRAWING. REFER TO DRAWING 38 FOR A DRAWING SHOWING THE LAYOUT PLAN AND IDENTIFICATION OF THESE FEATURES.
 - THE PLANT UTILITY CORRIDOR REFERS TO A 100-FT WIDE CORRIDOR IMMEDIATELY EAST OF THE CONSOLIDATED LINED AREA THAT WILL BE CONSTRUCTED IN CONJUNCTION WITH THE CLOSURE PROJECT. CORRIDOR MAY BE USED FOR PLANT-RELATED UTILITIES AND INFRASTRUCTURE.
 - IN ADDITION TO PERMANENT STORMWATER PONDS SHOWN, TEMPORARY LINED STORMWATER PONDS WILL BE UTILIZED DURING CONSTRUCTION AS NEEDED.



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MATCHLINE

TYPICAL PERIMETER LINER TERMINATION 14/30

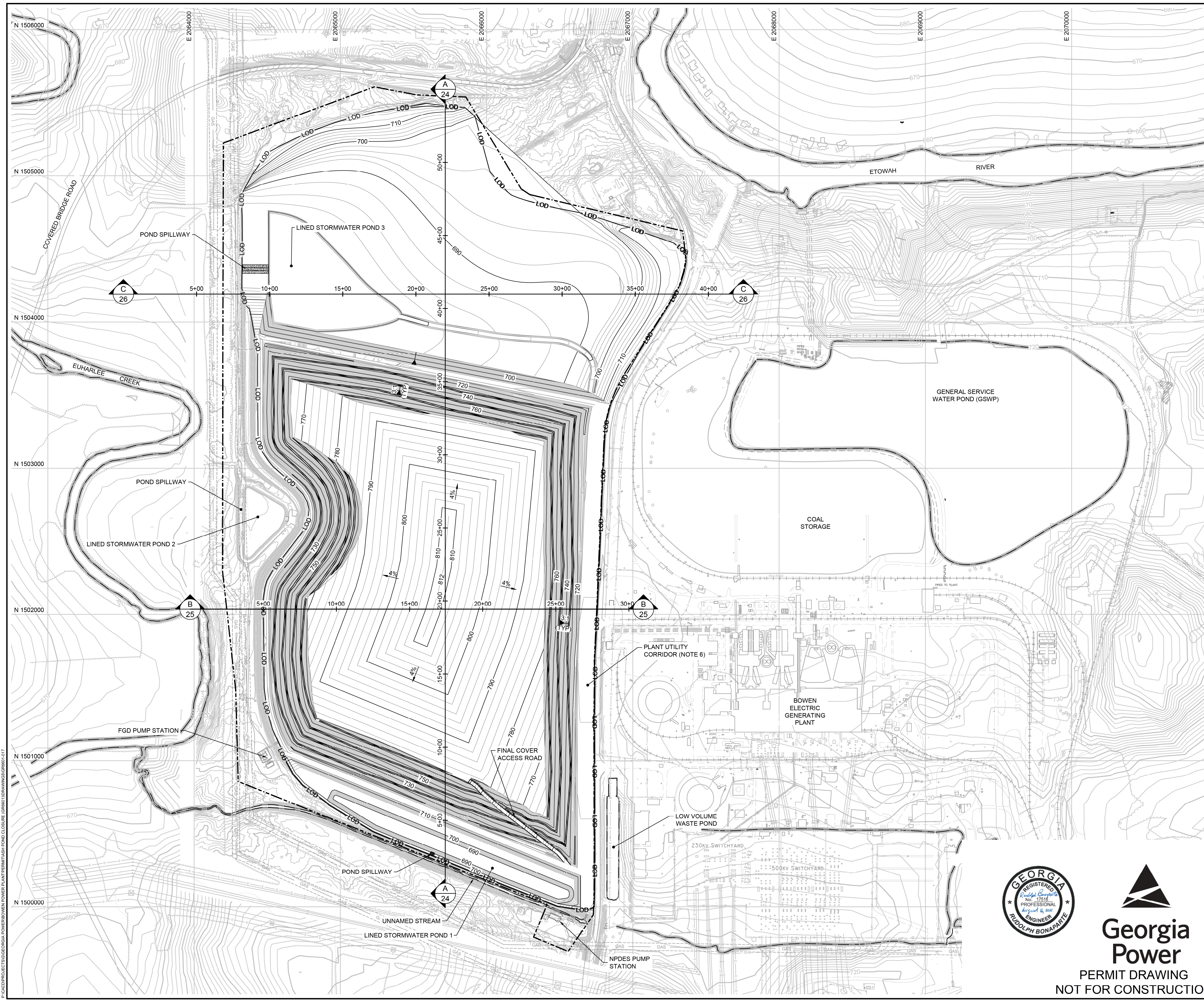
PLANT UTILITY CORRIDOR (NOTE 6)



Georgia Power
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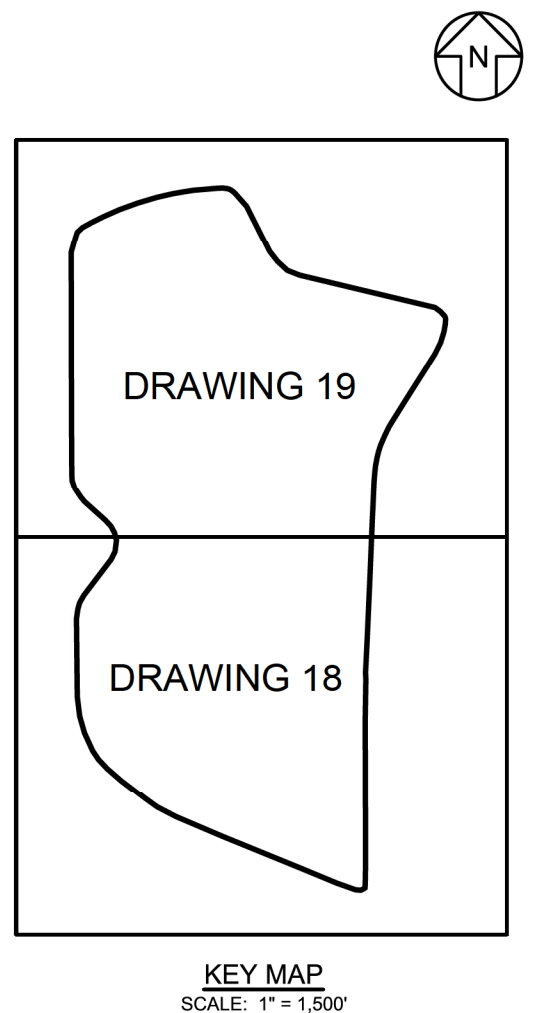
0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB
REV	DATE	DESCRIPTION	DRN	APP
TOP OF CCR GRADING PLAN - NORTH				
PLANT BOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA				
Geosyntec consultants				
<small>1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA</small>				
<small>PROJ. NO. GR6601</small>		<small>DWG. GR6601-015</small>		<small>EDIT 8/16/21</small>
<small>SCALE 1" = 150'</small>		DRAWING 16 OF 50		
<small>DATE AUGUST 2021</small>				

PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

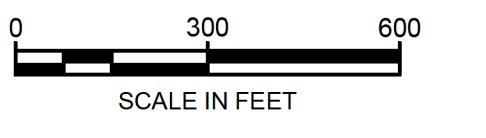


LEGEND

— 670 —	TOP OF FINAL COVER SYSTEM / TOP OF CCR FOR ALTERNATIVE COVER SYSTEM (CLOSURETURF® COVER) / FINISHED GRADE ELEVATION (FEET)
- - - - -	PERMIT BOUNDARY
— LOD —	LIMIT OF DISTURBANCE
- · - · - ·	FINAL LIMIT OF CCR



- NOTES:**
- SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - TOP OF FINAL COVER GRADES SHOWN ON THIS DRAWING REPRESENT BOTH THE TOP OF SOIL-GEOSYNTHETIC COMPOSITE FINAL COVER SYSTEM AND THE TOP OF CLOSURETURF® ALTERNATIVE FINAL COVER SYSTEM ELEVATIONS WITHIN THE FINAL COVER LIMITS. THESE GRADES ALSO REPRESENT THE TOP OF CCR ELEVATIONS FOR THE CLOSURETURF® ALTERNATIVE FINAL COVER SYSTEM. BEYOND THE FINAL COVER LIMITS, PROPOSED FINISHED GRADES ARE SHOWN, WHICH TIE-IN TO EXISTING GROUND TOPOGRAPHY AT THE LIMIT OF DISTURBANCE. SEE DRAWING 2, GENERAL SITE NOTE 19. BASED ON FIELD CONDITIONS ENCOUNTERED, THE ELEVATION OF THE FINAL COVER MAY VARY, PROVIDED THAT THE ENGINEERING DESIGN CRITERIA ARE MET. THE MAXIMUM FINAL COVER ELEVATION WILL NOT BE EXCEEDED WITHOUT GA EPD AUTHORIZATION.
 - REFER TO DRAWINGS 20 THROUGH 23 FOR THE CLOSURE PHASING PLANS.
 - REFER TO DRAWINGS 38 THROUGH 49 FOR THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL PLAN AND DETAILS.
 - FOR CLARITY, FINAL CLOSURE STORMWATER MANAGEMENT FEATURES ARE NOT SHOWN ON THIS DRAWING. REFER TO DRAWING 38 FOR A DRAWING SHOWING THE LAYOUT PLAN AND IDENTIFICATION OF THESE FEATURES.
 - THE PLANT UTILITY CORRIDOR REFERS TO A 100-FT WIDE CORRIDOR IMMEDIATELY EAST OF THE CONSOLIDATED LINED AREA THAT WILL BE CONSTRUCTED IN CONJUNCTION WITH THE CLOSURE PROJECT. CORRIDOR MAY BE USED FOR PLANT-RELATED UTILITIES AND INFRASTRUCTURE.
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REV	DATE	DESCRIPTION	DRN	APP
0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB

FINAL CLOSURE GRADING PLAN - OVERALL

PLANT BOWEN ASH POND 1 (AP-1)
CLOSURE DRAWINGS
BARTOW COUNTY, GEORGIA

Geosyntec
consultants

1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA	PHONE: 678.202.9500 WWW.GEOSYNTEC.COM
PROJ. NO. GR6601	DWG. GR6601-017
SCALE 1" = 300'	EDIT 8/16/21
DATE AUGUST 2021	DRAWING 17 OF 50



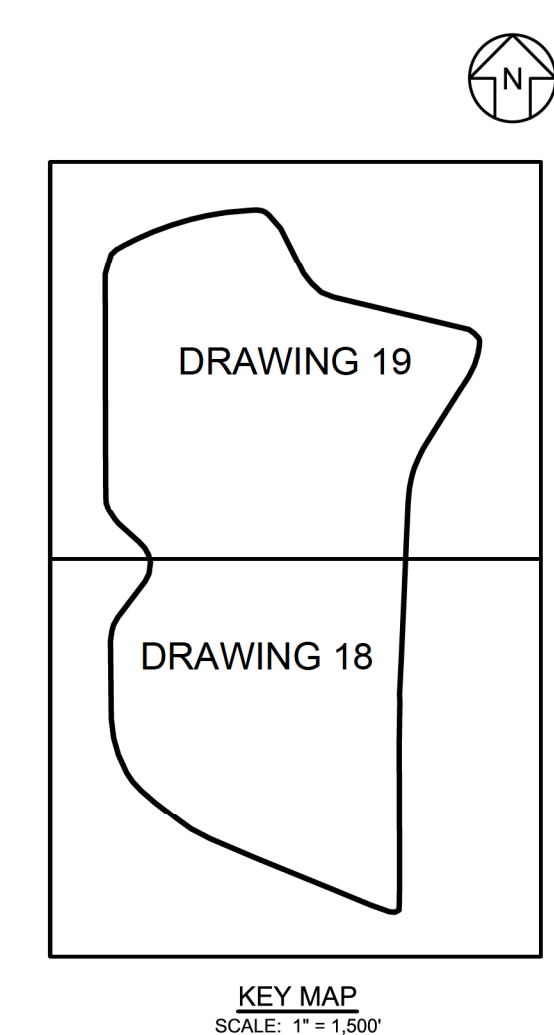
Georgia Power
PERMIT DRAWING
NOT FOR CONSTRUCTION

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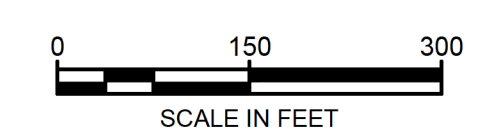
MATCHLINE

LEGEND

- 670 — TOP OF FINAL COVER SYSTEM / TOP OF CCR FOR ALTERNATIVE COVER SYSTEM (CLOSURETURF® COVER) / FINISHED GRADE ELEVATION (FEET)
- - - - PERMIT BOUNDARY
- LOD — LIMIT OF DISTURBANCE
- · - · - · FINAL LIMIT OF CCR



- NOTES:
- SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - TOP OF FINAL COVER GRADES SHOWN ON THIS DRAWING REPRESENT BOTH THE TOP OF SOIL-GEOSYNTHETIC COMPOSITE FINAL COVER SYSTEM AND THE TOP OF CLOSURETURF® ALTERNATIVE FINAL COVER SYSTEM ELEVATIONS WITHIN THE FINAL COVER LIMITS. THESE GRADES ALSO REPRESENT THE TOP OF CCR ELEVATIONS FOR THE CLOSURETURF® ALTERNATIVE FINAL COVER SYSTEM. BEYOND THE FINAL COVER LIMITS, PROPOSED FINISHED GRADES ARE SHOWN, WHICH TIE-IN TO EXISTING GROUND TOPOGRAPHY AT THE LIMIT OF DISTURBANCE. SEE DRAWING 2, GENERAL SITE NOTE 19. BASED ON FIELD CONDITIONS ENCOUNTERED, THE ELEVATION OF THE FINAL COVER MAY VARY, PROVIDED THAT THE ENGINEERING DESIGN CRITERIA ARE MET. THE MAXIMUM FINAL COVER ELEVATION WILL NOT BE EXCEEDED WITHOUT GA EPD AUTHORIZATION.
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PERMIT DRAWING
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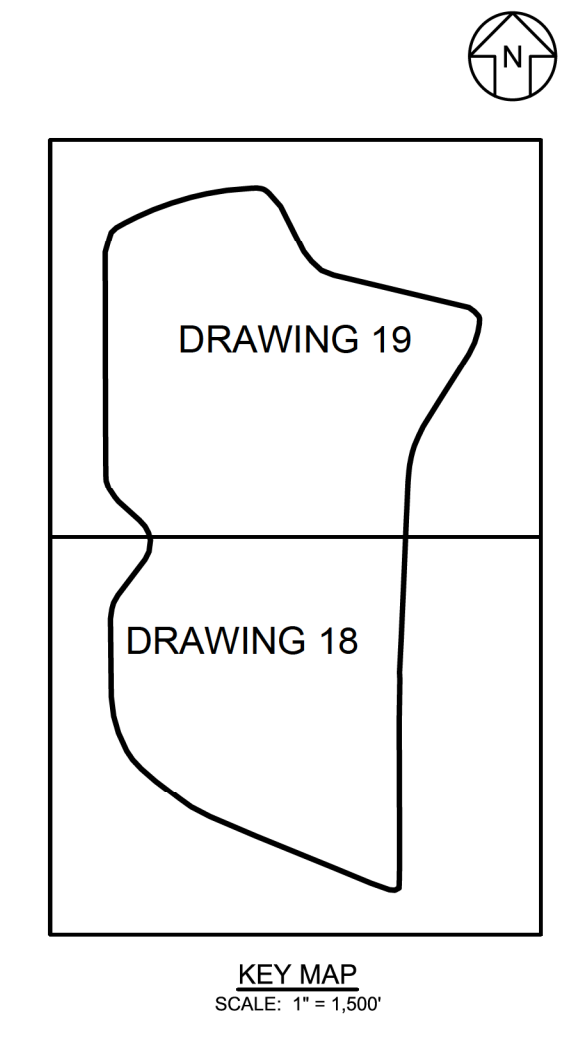
0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB	
REV	DATE	DESCRIPTION	DRN	APP	
FINAL CLOSURE GRADING PLAN - SOUTH AP-1					
PLANT BOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA					
Geosyntec consultants					
<small>1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA</small>					
PROJ. NO.	GR6601	DWG.	GR6601-018	EDIT	8/16/21
SCALE	1" = 150'	DRAWING 18 OF 50			
DATE	AUGUST 2021				

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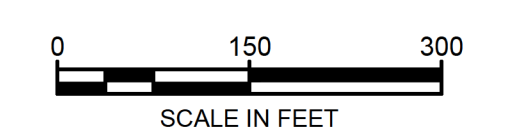


LEGEND

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PERMIT DRAWING
NOT FOR CONSTRUCTION

0	AUG. 2021	SUBMITTAL TO GA EPD	JV/KH	RB	
REV	DATE	DESCRIPTION	DRN	APP	
FINAL CLOSURE GRADING PLAN - NORTH AP-1					
PLANT BOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA					
Geosyntec consultants					
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA PHONE: 678.202.9500 WWW.GEOSYNTEC.COM					
PROJ. NO.	GR6601	DWG.	GR6601-019	EDIT	8/16/21
SCALE	1" = 150'	DRAWING 19 OF 50			
DATE	AUGUST 2021				

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