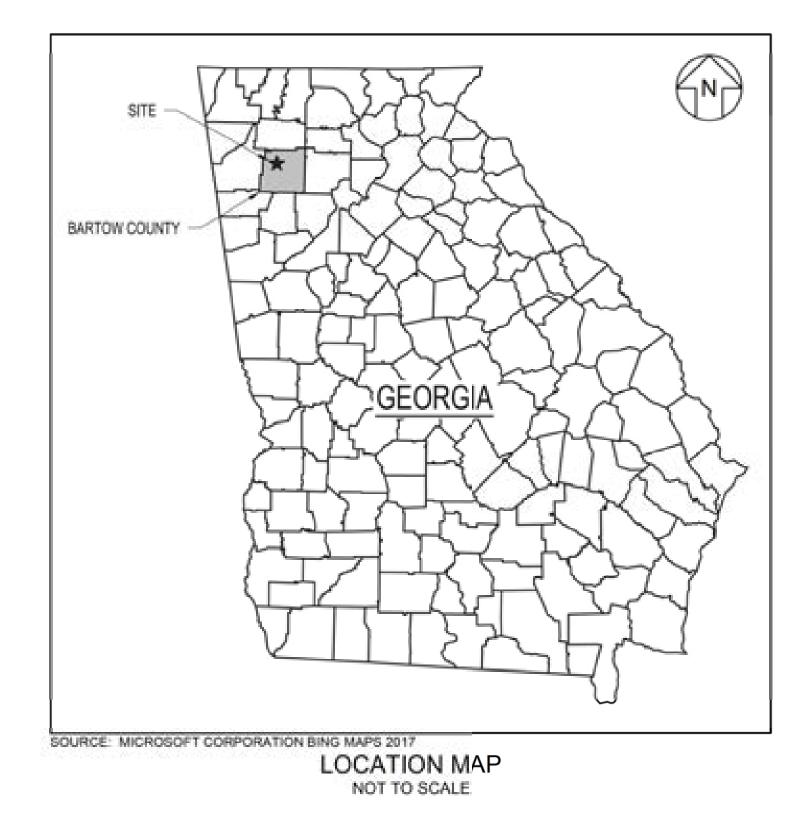
PLANT BOWEN ASH POND 1 (AP-1) CLOSURE **CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA AUGUST 2021**



PREPARED FOR:



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

PREPARED BY:

Geosyntec[▷] consultants

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

RAWING 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







1,500 SCALE IN FEET

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

0	AUG. 2021	SUBMITTAL TO GA EPD	13/2004	85
REV	DATE	DESCRIPTION	DRN	APP

COVER SHEET

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

Geosyntec^o

consultants

Georgia Powe PERMIT DRAWIN NOT FOR CONSTRU

	RD, NW, SUITE 200 144 USA					102.9500 EC.COM
OJ. NO.	GR6601	DWG. GR6601-00	E	DIT	8.1	6.2021
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(E	AUGUST 2021	DRAWING	<u>.</u>	0	T :0	50
	DJ. NO.	ALE AS SHOWN	DJ. NO. GR6601 DWG. GR6601-001 ALE AS SHOWN DRAWING	DJ. NO. GR6601 DWG. GR6601-001 EI	DJ. NO. GR6601 DWG. GR6601-001 EDIT	DJ. NO. GR6601 DWG. GR6601-001 EDIT 8.1

	LINETYPE LEGEND		HATCH PATTERN LEGEND		ABBREVIATIONS
	EDGE OF ROAD / EXISTING BUILDINGS		LINED STORMWATER POND	AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION C
+ + + + + + + + + + + + + + + + + + +	RAILROAD TRACKS		CONCRETE	AC	ACRES
······································	POWER TRANSMISSION LINE EASEMENT		FINE SAND FILTER LAYER	APP	APPROVED BY
GAS GAS	GAS LINE AND EASEMENT			CAD	COMPUTER-AIDED DRAFTING
	EXISTING PIPE		FINE GRAVEL DRAINAGE LAYER	ASTM C-TRM	AMERICAN SOCIETY FOR TESTING AND MATERIALS COMPOSITE TURF REINFORCEMENT MAT
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	TREE LINE		MEDIUM GRAVEL DRAINAGE LAYER	CCR	COAL COMBUSTION RESIDUALS
	STREAMS / WATER LINE / CREEK		COARSE GRAVEL DRAINAGE LAYER	¢	CENTERLINE
	EXISTING GROUND		FINE-SCREENED COMPACTED CLAY LINER	CQA	CONSTRUCTION QUALITY ASSURANCE
	APPROXIMATE TOP OF BEDROCK (NOTE 10)	7////////	COARSE-SCREENED COMPACTED CLAY LINER	DIA	DIAMETER DRAWN BY
	APPROXIMATE BOTTOM OF CCR		PROTECTIVE COVER SOIL / TRENCH BACKFILL / STRUCTURAL FILL	DWG	DRAWING
				ε	EAST OR EASTING
	PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE (NOTE 9)		PIPE EMBEDMENT FILL / COMPACTED GRANULAR SUBBASE	EL.	ELEVATION
	BOTTOM OF EXCAVATION		VEGETATIVE COVER LAYER	EPA	ENVIRONMENTAL PROTECTION AGENCY
	PERMIT BOUNDARY		CCR	FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY FEET
	PROPERTY BOUNDARY (NOTE 5)		AGGREGATE	GDOT	GEORGIA DEPARTMENT OF TRANSPORTATION
	APPROXIMATE EXISTING LIMIT OF AP-1 / LIMIT OF LINER	2°2°2°0°	RIPRAP	GPC	GEORGIA POWER COMPANY
	FINAL LIMIT OF CCR		CONSOLIDATED AREA FOUNDATION IMPROVEMENTS	GSWCC	GEORGIA SOIL AND WATER CONSERVATION COMMISSION
	LEACHATE COLLECTION CORRIDOR		OTHER AREA FOUNDATION IMPROVEMENTS	GSWP	GENERAL SERVICE WATER POND
LC LC	LEACHATE FORCEMAIN			HOPE	HORIZONTAL TO VERTICAL LENGTH RATIO FOR A SLOPE HIGH DENSITY_POLYETHYLENE
LFM-			100-YEAR FLOODPLAIN	HECP	HYDRAULIC EROSION CONTROL PRODUCTS
	FINAL COVER TOP DECK DIVERSION BERM		WETLANDS	HPTRM	HIGH PERFORMANCE TURF REINFORCEMENT MAT
	FINAL COVER SIDESLOPE DRAINAGE BENCH		COVERED CCR AREA (NON-CONTACT WATER)	HWY	HIGHWAY
DCDC	FINAL COVER DOWNCHUTE CHANNEL		TEMPORARY CCR STOCKPILE AREA	IN	INCH
	STORMWATER CHANNEL		CONTACT WATER COLLECTION AREA	LBS	POUNDS
	TEXTURED HIDPE OR LLDPE GEOMEMBRANE		COMPACTED CLAYEY SOIL	LF	LINEAR FOOT
<u>uuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuu</u>	CLOSURETURFID SYSTEM			LLDPE	LINEAR LOW DENSITY POLYETHYLENE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	DOUBLE-SIDED GEOCOMPOSITE		LINED CONTACT WATER POND	LOD	LIMITS OF DISTURBANCE
	NON-WOVEN GEOTEXTILE SEPARATOR OR CUSHION		CONTOUR LEGEND	MAX	MAXIMUM
	GEOSYNTHETIC CLAY LINER		O OTTO OTTEL OLITO	MIN MSL	MINIMUM MEAN SEA LEVEL
LOD	LIMIT OF DISTURBANCE	710	EXISTING GROUND ELEVATION (FEET) (NOTE 1)	N	NORTH / NORTHING
$ \longrightarrow$	CONTACT WATER DIVERSION	700	APPROXIMATE BOTTOM OF CCR SURFACE ELEVATION (FEET)	NAD	NORTH AMERICAN DATUM
	STORMWATER (NON-CONTACT WATER) DIVERSION	670	EXCAVATION SURFACE ELEVATION (FEET)	NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
			TOP OF LINER ELEVATION (FEET)	NE	NORTHEAST
	SYMBOL LEGEND		TOP OF CCR ELEVATION FOR SOIL-GEOSYNTHETIC COMPOSITE COVER (FEET)	NO. NPDES	NUMBER NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
			TOP OF FINAL COVER SYSTEM / TOP OF CCR FOR	N.S.A.	NATIONAL STONE ASSOCIATION
	EXTRUSION WELD	/80	ALTERNATIVE COVER SYSTEM (CLOSURETURF® COVER) / FINISHED GRADE ELEVATION (FEET)	NTS	NOT TO SCALE
•	GROUNDWATER MONITORING WELL	680	PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET)	NW	NORTHWEST
4%	SLOPE GRADE	DETAIL A	ND SECTION IDENTIFICATION LEGEND	oc	ON CENTER OUNCE
	SLOPE INDICATOR			OZ PG	PERIMETER CHANNEL
1	SLOPE LABEL		2 DETAIL NUMBER	PROJ	PROJECT
	TRAILER / BUILDING / TANK		DRAWING ON WHICH ABOVE	RCP	REINFORCED CONCRETE PIPE
84144	VEGETATION	DETAIL NUMBE		RD	ROAD
*	GROUNDWATER OR WATER SURFACE	DRAWING ON WHI	5 TITLE	RECP	ROLLED EROSION CONTROL PRODUCTS
→	STORMWATER FLOW DIRECTION	ABOVE DETAIL W FIRST REFERENCE	AS SCALE 1'=1'	REV	REVISION ENVIRONMENT/
≻==≍	STORMWATER CHANNEL OUTLET FLUME		EXAMPLE: DETAIL NUMBER 2 WHICH IS	5	RECYCLE POND Ap SOUTH Solid Waste N
	LEACHATE SUMP		PRESENTED ON DRAWING NO. 13 WAS FIRST REFERENCED ON DRAWING NO. 5.	scs	SOUTHERN COMPANY SERVICES
۲	LEACHATE FORCEMAIN AIR RELEASE MANHOLE	START OF SECTION (0+00)	SECTION LETTER	SF	SILT FENCE
±	LEACHATE FORCEMAIN CLEANOUT MANHOLE	STATION SECTION (DIVO)	A 11 11 A 11 A 11 A 11 A A 11 A A 11 A A 11 A A A 11 A	SWP	STORMWATER PIPE
+ 	LEACHATE FORCEMAIN JUNCTION MANHOLE		- DRAWING ON WHICH ABOVE	TRM	TURF REINFORCEMENT MAT
∎→	TEMPORARY CONTACT-WATER COLLECTION LOCATION	SECTION LE		uv	ULTRAVIOLET
		DRAWING ON W		w	WEST OR WIDTH
		ABOVE SECTION FIRST REFEREN		W.S.	WATER SURFACE
			EXAMPLE: SECTION LETTER "A" WHICH IS PRESENTED ON DRAWING NO. 11 WAS FIRST	WWTS	WASTEWATER TREATMENT SYSTEM
			REFERENCED ON DRAWING NO. 5.	%	PERCENT OR PERCENTILE

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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

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GENERAL	SITE NOTES	
Official Article		

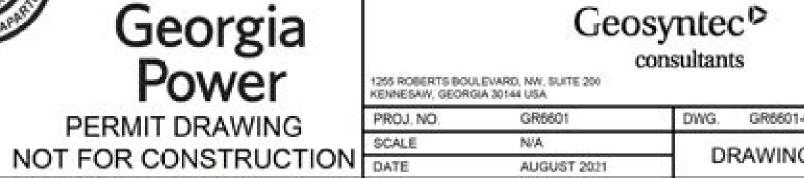
- 1. IN THE VICINITY OF AP-1, TOPOGRAPHY, UTILITIES, EXISTING ROADS, STREAMS, AND TREELINES SHOWN ON THIS DRAWING SET IS FROM A LIDAR TOPOGRAPHIC SURVEY DATED 4/1/2017, PROVIDED AS AN ELECTRONIC COMPUTER-AIDED DRAFTING DRAWING FILE BY SOUTHERN COMPANY SERVICES.
- 2. BEYOND THE AP-1 AREA MAPPED WITH LIDAR TOPOGRAPHY AS DELINEATED ON THE DRAWINGS, TOPOGRAPHY IS FROM UNITED STATES GEOLOGIC SURVEY (USGS) DIGITAL MAPPING FILE, 'NED 1 N35W085 ARCGRID GEORGIA".
- 3. ELEVATIONS ARE SHOWN IN FEET ABOVE MEAN SEA LEVEL (FT, MSL), THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- 4. GRID COORDINATE SYSTEM CORRESPONDS TO NORTH AMERICAN DATUM OF 1983 (NAD83), GEORGIA STATE PLANE, WEST ZONE, US FOOT.
- 5. 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.
- 7. 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.
- 8. 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.
- 9. PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE OBTAINED FROM GROUNDWATER FLOW MODELING RESULTS AS DOCUMENTED IN THE "HYDROGEOLOGIC ASSESSMENT REPORT (REVISION 3)" (PART 8, SECTION 2 OF THIS PERMIT APPLICATION).
- 10. TOP OF BEDROCK SURFACE IS APPROXIMATE AND WAS DEVELOPED BY GEOSYNTEC USING AVAILABLE SUBSURFACE INFORMATION FROM PREVIOUS SITE INVESTIGATIONS.
- 11. DURING CLOSURE CONSTRUCTION, CONTRACTOR WILL VERIFY BOTH LATERAL AND VERTICAL EXTENT OF CCR IN THE FIELD.
- 12. 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.
- 13. 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).
- 14. MATERIAL PROPERTIES FOR THE FILL SOIL, LINER SYSTEM, LEACHATE COLLECTION SYSTEM, AND FINAL COVER SYSTEM ARE PROVIDED IN THE "CONSTRUCTION QUALITY ASSURANCE (CQA) PLAN" (PART A, SECTION 5 OF THIS PERMIT APPLICATION).
- 15. DEWATERING OF CCR DURING CLOSURE CONSTRUCTION WILL BE PERFORMED AS NEEDED.
- 16. 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.
- 17. DUST CONTROL DURING CLOSURE CONSTRUCTION WILL BE MANAGED AS DESCRIBED IN THE "CLOSURE PLAN" (PART A, SECTION 7 OF THIS PERMIT APPLICATION).
- 18. 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.
- 19. 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	11//104	85
REV	DATE	DESCRIPTION	DRN	APP

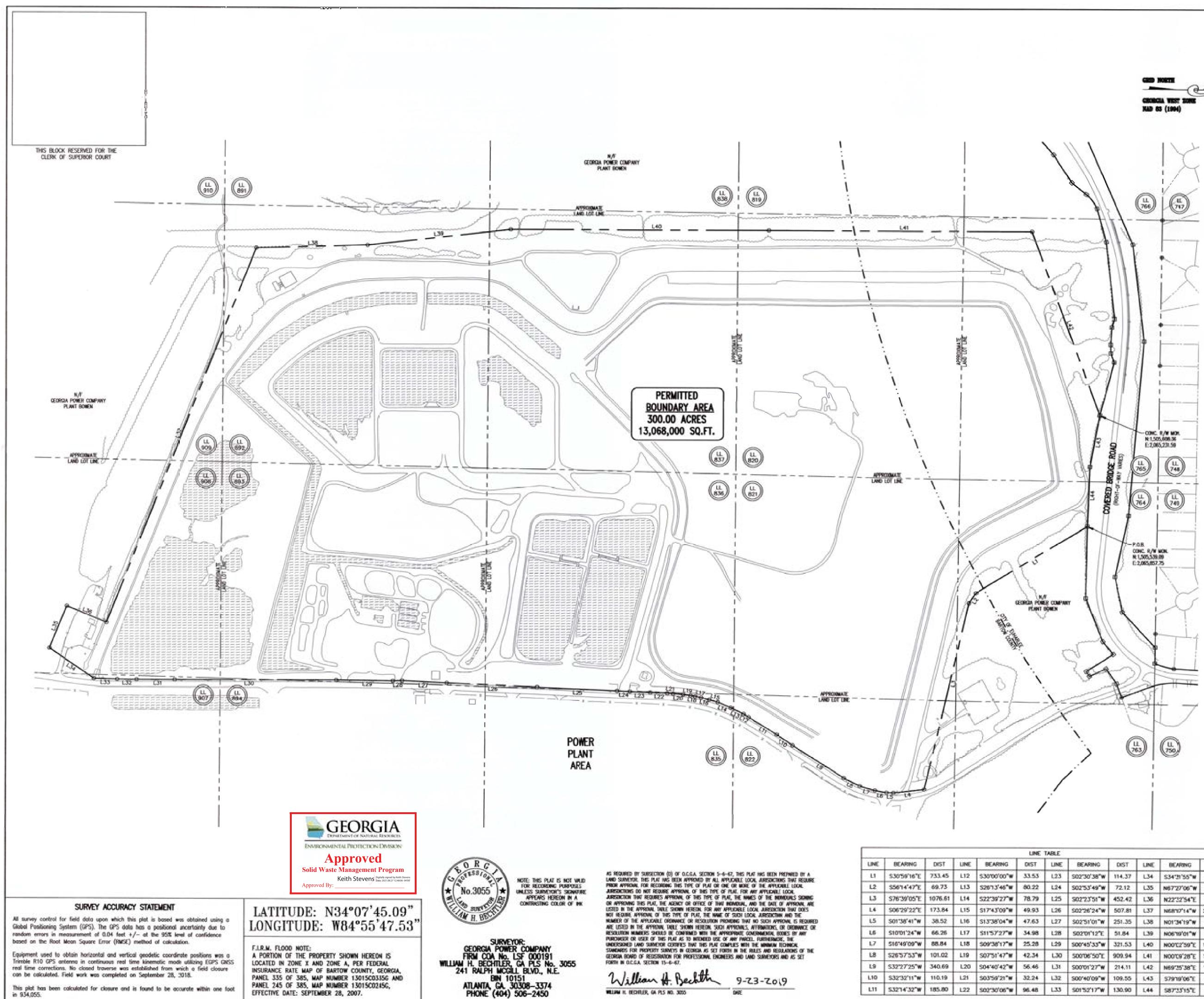
LEGENDS, ABBREVIATIONS, AND REFERENCE NOTES

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

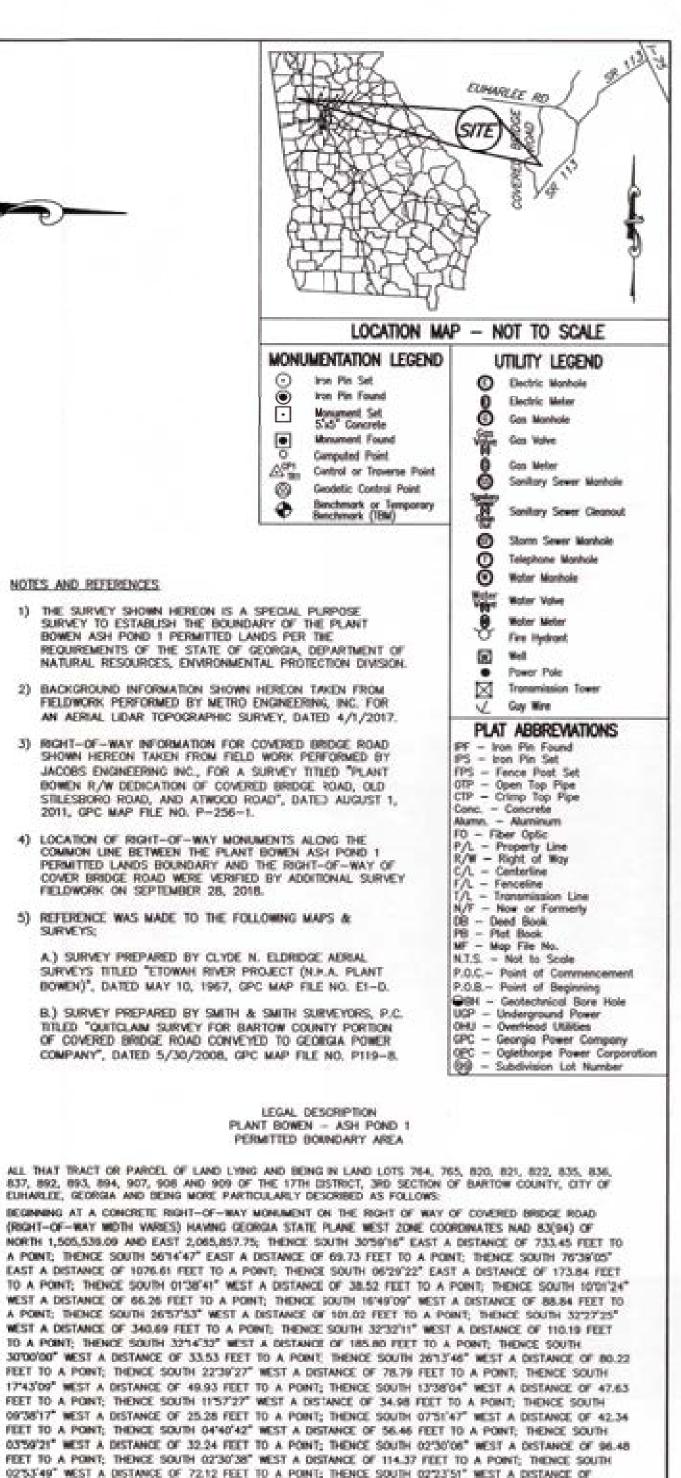


PHONE: 678,202,9500

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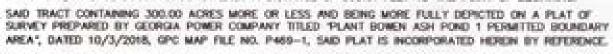


VENC	DIST	LINE	BEARING	DIST
0'38"W	114.37	L34	\$34'31'55'W	304.64
3'49 " W	72.12	L35	N67'27'05"W	255.68
3'51"W	452.42	L36	N22'32'54'E	241.19
6'24'W	507.81	L37	N681714"W	2273.67
w"10'fi	251.35	L38	N01'34'19"W	625,42
112°E	51.84	1.39	N05'19'01"W	812.07
5'33'W	321.53	L40	N00°C2'59°E	1452.94
6'50'E	909.94	L41	N00'09'28"E	1482.29
1'27 " W	214.11	L42	N69'35'38'E	1100.66
w*e0'0	109.55	L43	\$7919'06"E	296.60
217 W	130.90	L44	\$873315°E	335.01

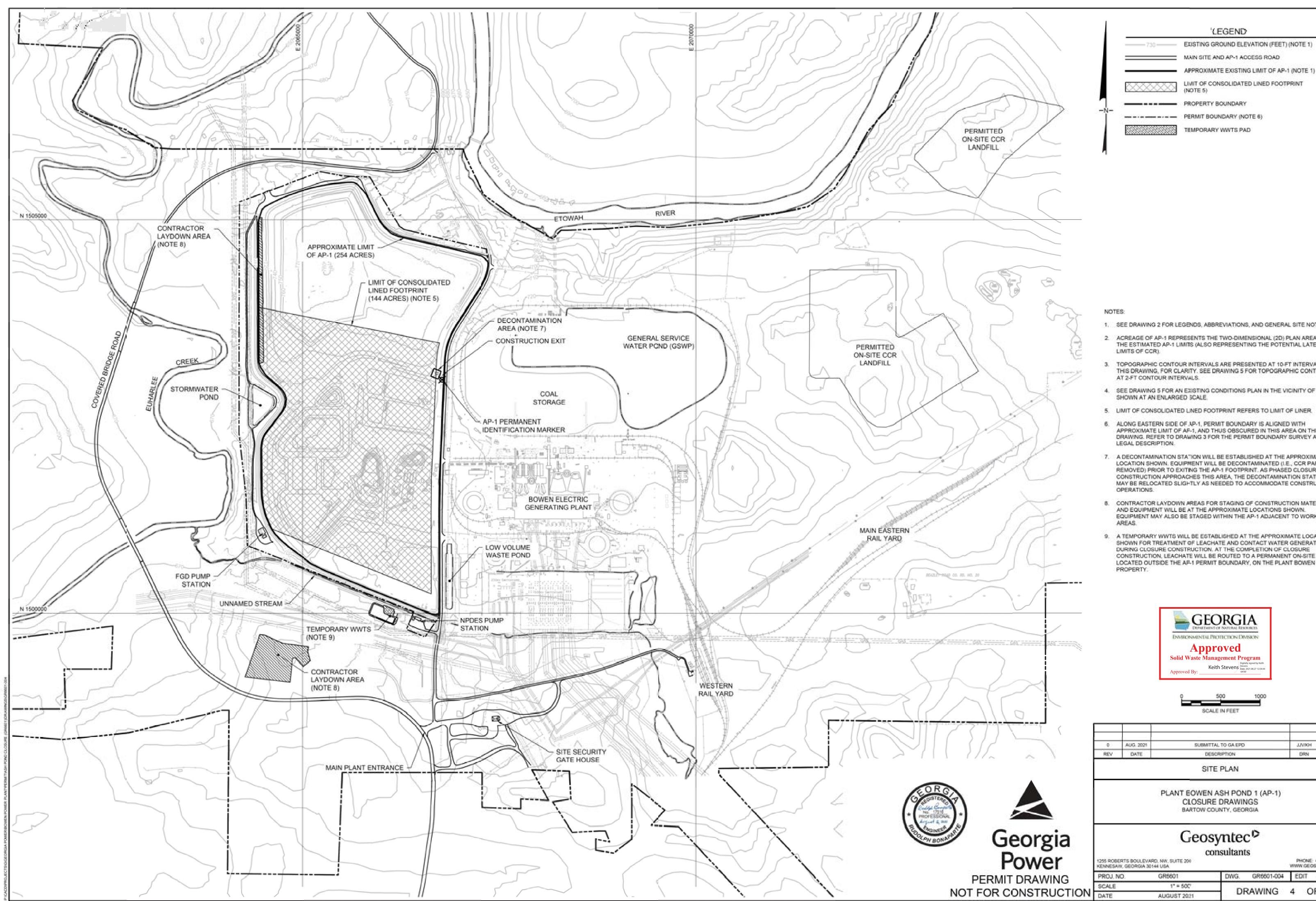


03'59'21" WEST & DISTANCE OF 32.24 FEET TO & POINT; THENCE SOUTH 02'30'06" WEST & DISTANCE OF 96.48 FEET TO A POINT; THENCE SOUTH 02'30'38" WEST A DISTANCE OF 114.37 FEET TO A POINT; THENCE SOUTH 02%3"49" WEST A DISTANCE OF 72.12 FEET TO A POINT; THENCE SOUTH 02%3"51" WEST A DISTANCE OF 452.42 FEET TO A POINT; THENCE SOUTH 02'26'24" WEST A DISTANCE OF 507.81 FEET TO A POINT; THENCE SOUTH 02"51"01" WEST & DISTANCE OF 251.35 FEET TO & POINT: THENCE SOUTH 02"01"12" EAST & 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 00706'50" EAST A DISTANCE OF 909.94 FEET TO A POINT; THENCE SOUTH 00701'27" 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 0152'17" WEST A DISTANCE OF 130.90 FUET TO A POINT; THENCE SOUTH 34'31'35" WEST A DISTANCE OF 304.64 FEET TO A POINT: THENCE NORTH 37'27'06" WEST A DISTANCE OF 255.68 FEET TO A POINT: THENCE NORTH 22'32'54" EAST A DISTANCE OF \$41.19 FEET TO A POINT; THENCE NORTH 68'17'14" WEST A DISTANCE OF 2273.67 FEET TO A POINT, THENCE MORTH 01'34'19" WEST A DISTANCE OF 625.42 FEET TO A POINT: THENCE NORTH OFTS'OI" WEST A DISTANCE OF \$12.07 FEET TO A POINT; THENCE NORTH 00'02'59" EAST A DISTANCE OF 1452.94 FEET TO A POINT; THENCE NORTH 00'D9'28" 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 FIGHT-OF-WAY SOUTH 7919'06" EAST A DISTANCE OF 296.60 FEET 10 A CONCRETE RIGHT-OF-WAY MONUMENT: THENCE SOUTH 87'33'15" EAST A DISTANCE OF 335.01 FEET TO THE POINT OF BEGINNING.

SURVEYS:



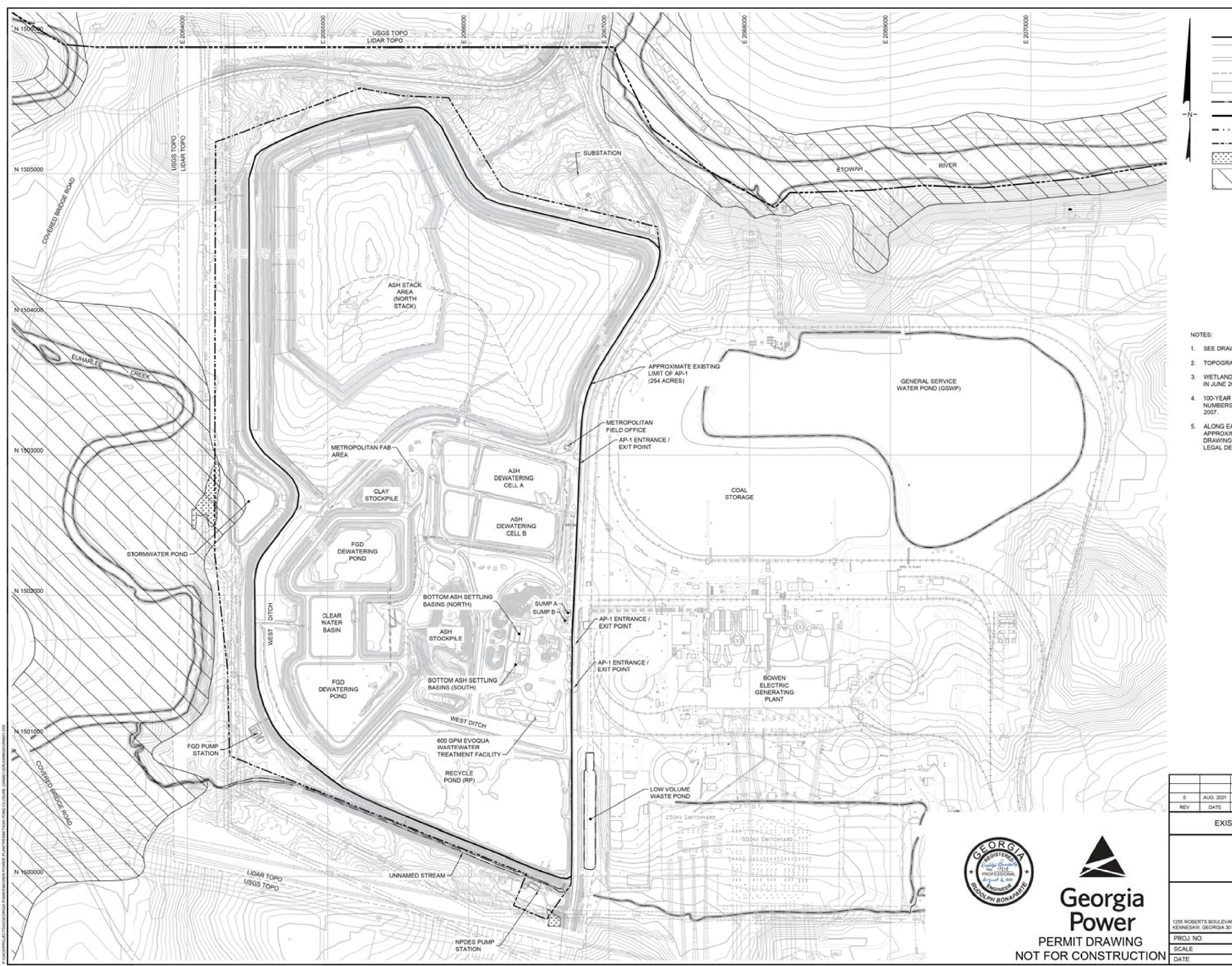
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TITT	and the second	EORGI	A POW Engi	ER CO	., AT	LANT	A, GA.
1111				SURVEY	OF		
800	LAND LC	015 764.	765, 820, 7th DISTRO	ED SIT		NDAR	
	LAND LC	015 764.	PERMITI 765, 820,	ED SIT	E BOU	NDAR	i .
9		015 764.	PERMITI 765, 820,	ED SIT	E BOU	NDAR	7, 892, 893, 894 COUNTY, GEORGI
9		015 764.	PERMITI 765, 820,	ED SIT	E BOU	NDAR 836, 83 BARTOW TR CALE	7, 892, 893, 894 COUNTY, GEORGI Checked DATE SEPIDMER 23, 201
		015 764.	PERMITI 765, 820,	ED SIT	E BOU	NDAR BARTOW TR. CALE 250' DRAWINI	7, 892, 893, 894 COUNTY, GEORGI Checked DATE SEPIDMER 23, 201



- 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
- 3. TOPOGRAPHIC CONTOUR INTERVALS ARE PRESENTED AT 10-FT INTERVALS ON THIS DRAWING, FOR CLARITY. SEE DRAWING 5 FOR TOPOGRAPHIC CONTOURS
- 4. SEE DRAWING 5 FOR AN EXISTING CONDITIONS PLAN IN THE VICINITY OF AP-1,
- 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 AF-1, AND THUS OBSCURED IN THIS AREA ON THIS DRAWING. REFER TO DRAWING 3 FOR THE PERMIT BOUNDARY SURVEY AND
- 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
- 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
- 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

12/00/ 85 DRN APP

PHONE: 678.202.9500 WWW.GEOSYNTEC.COM DWG. GR6601-004 EDIT 8/16/21 DRAWING 4 OF 50



	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)
\sum	100-YEAR FLOODPLAIN (NOTE 4)

- 1. SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
- 2. TOPOGRAPHIC CONTOURS ARE PRESENTED AT 2-FT INTERVALS.
- WETLAND LOCATIONS ARE AS DELINEATED BY ECOLOGICAL SOLUTIONS, INC. IN JUNE 2018.
- 100-YEAR FLOODPLAIN IS TAKEN FROM FEMA FLOOD INSURANCE RATE MAP NUMBERS 13015C0245G AND 13015C0335G, BOTH DATED 28 SEPTEMBER 2007.
- 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.



Solid Waste Management Program Keith Stevens Digitally signed by Keith Steven Approved By:

> 300 SCALE IN FEET

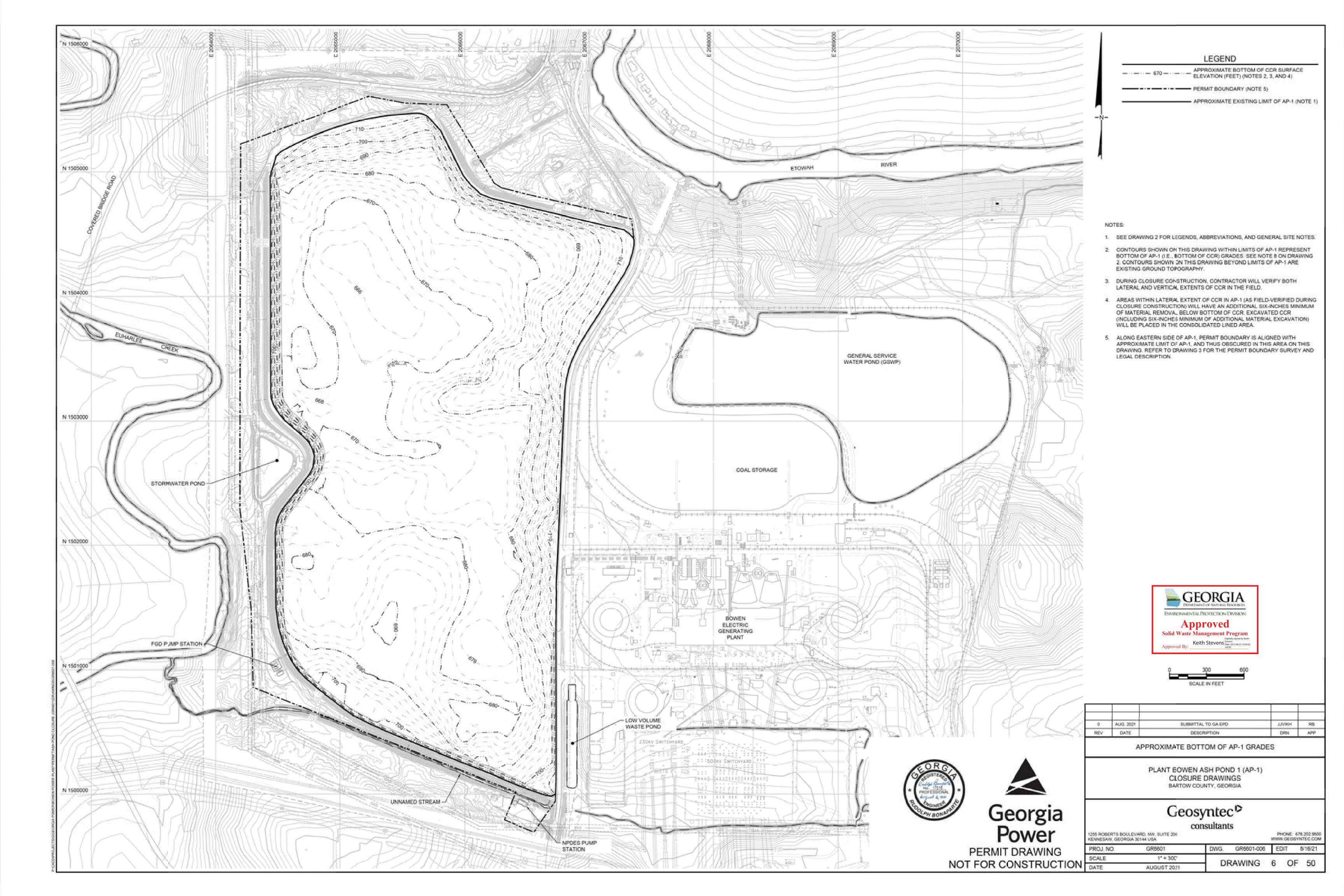
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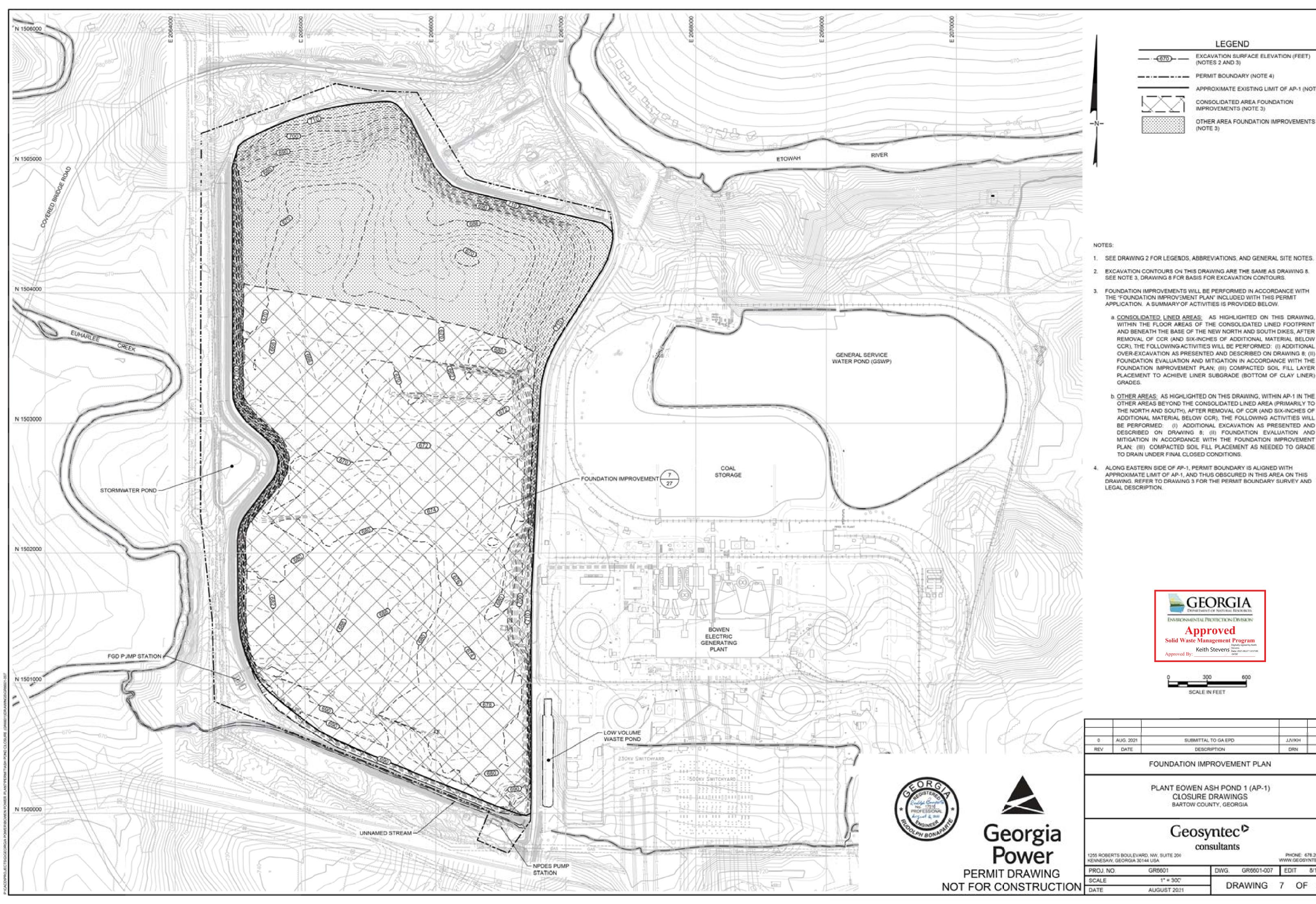
EXISTING SITE CONDITIONS AND TOPOGRAPHY

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

Geosyntec^o

CONSUITANTS 1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA WWW.GEOSYNTEC.COM						
PROJ. NO.	GR6601	DWG. GR6601-0	05 EDIT 8/16/21			
SCALE	1" = 300"	DDAMINO	5 OF 50			
DATE	AUGUST 2021	DRAWING 5 C				





APPROXIMATE EXISTING LIMIT OF AP-1 (NOTE 1)

CONSOLIDATED AREA FOUNDATION

OTHER AREA FOUNDATION IMPROVEMENTS

- 1. SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
- 2. EXCAVATION CONTOURS ON THIS DRAWING ARE THE SAME AS DRAWING 8.
- FOUNDATION IMPROVEMENTS WILL BE PERFORMED IN ACCORDANCE WITH THE "FOUNDATION IMPROVEMENT PLAN" INCLUDED WITH THIS PERMIT.
- a 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)
- b. 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

4. 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

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PLANT EOWEN ASH POND 1 (AP-1)

PHONE: 678 202 9500 WWW.GEOSYNTEC.COM DWG. GR6601-007 EDIT 8/16/21 DRAWING 7 OF 50



			LEGEND		
	(EXCAVATION SURFACE EL (NOTES 2 AND 3)	LEVATION (FEET)	
			PERMIT BOUNDARY (NOT	E 6)	
			APPROXIMATE EXISTING		OTE 1
			APPROXIMATE LIMIT OF C FOUNDATION IMPROVEME	ALCONDUCT STREET	REA
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NOTES			EY MAP LE: 1" = 1,507		
NOTES: 1. SEE	DRAWING 2	FOR LEGENDS, A	BBREVIATIONS, AND GEN	ERAL SITE NOTE	S.
2. CON EST	TOURS SHO	WN ON THIS DRA	WING WITHIN LIMITS OF A EXCAVATION GRADES. O F AP-1 ARE EXISTING GRO	P-1 REPRESENT	VN O
EST	IMATED BOT	TOM OF CCR AND	XIMATE, AND WAS DEVEL TO MEET THE FOLLOWIN	G CRITERIA: (I)	
ARE	AS OF AP-1; EATH THE FL	II) CONDUCT AD OOR AREAS OF	BELOW THE BOTTOM OF DITIONAL OVER-EXCAVAT THE CONSOLIDATED LINES	ION AS NEEDED D FOOTPRINT AN	D
BEN	EATH THE BA	SE OF THE NEW	NORTH AND SOUTH CON EMENTS AND PROVIDE AN BELOW THE LINER SYSTE	TAINMENT DIKES	то
ADD CON	SOLIDATED	AVATION IN THE LINED FOOTPRIN	AREAS SOUTH AND NORT IT AS NEEDED TO GRADE	H OF THE	00.50
	AVATION GR		JUSTED AS NECESSARY	DURING CLOSUR	E
FIEL	D-LOCATED	BOTTOM OF COR	YING THE ABOVE CRITERI AS WELL AS BASED ON F	OUNDATION	
FO	UNDATION IM	PROVEMENT PL	AN" INCLUDED WITH THIS I	PERMIT APPLICA	TION
EXC FAC	AVATION GR	ADES MAY EXTER STRUCTION AND	I ON THIS DRAWING ARE A ND DEEPER AND SMOOTH ACCOMPLISH FOUNDATIC PLACEMENT AS NECESSA	ED AS NEEDED 1 IN IMPROVEMEN	O TS,
6. ALO	NG EASTERN	SIDE OF AP-1, P	ERMIT BOUNDARY IS ALIC THUS OBSCURED IN THE	NED WITH	
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DRAWING 8 OF 50

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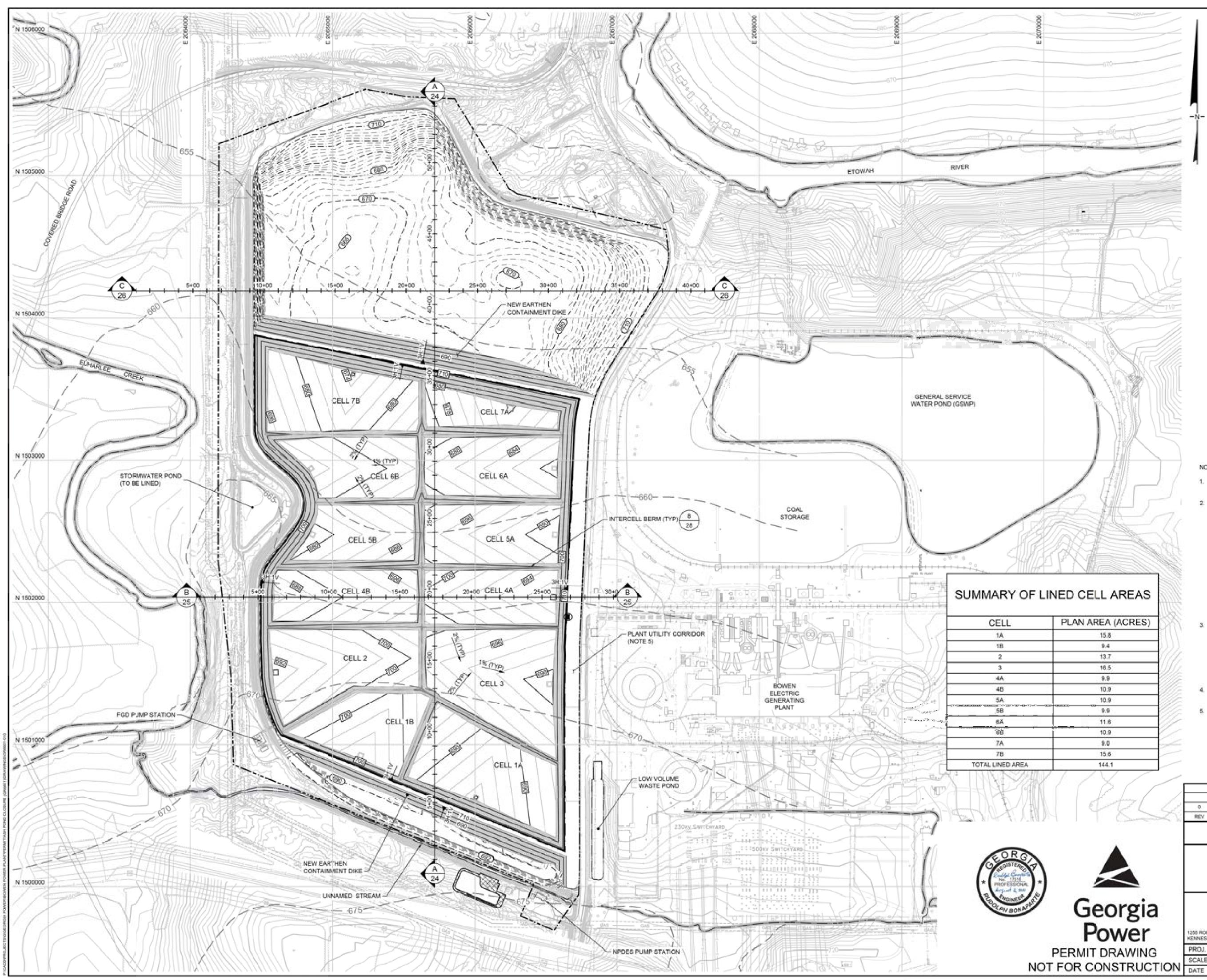
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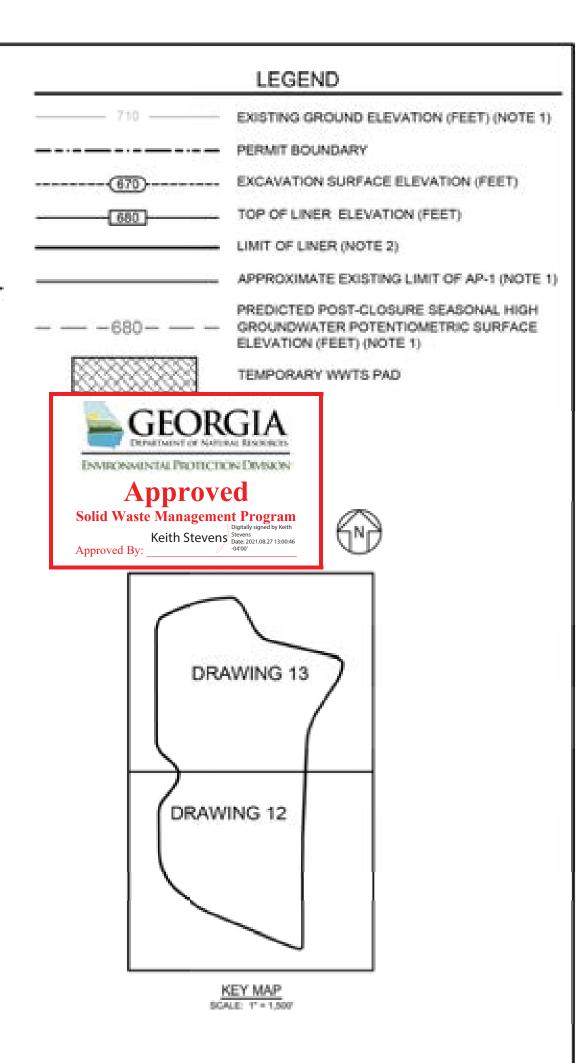
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NOTES:

- 1. SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
- 2. TOP OF LINER GRADES SHOWN ON THIS DRAWING REPRESENT THE TOP OF THE GEOMEMBRANE COMPONENT OF THE LINER SYSTEM WITHIN THE CONSOLIDATED LINED FCOTPRINT 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 REPOR (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 CORFIDOR 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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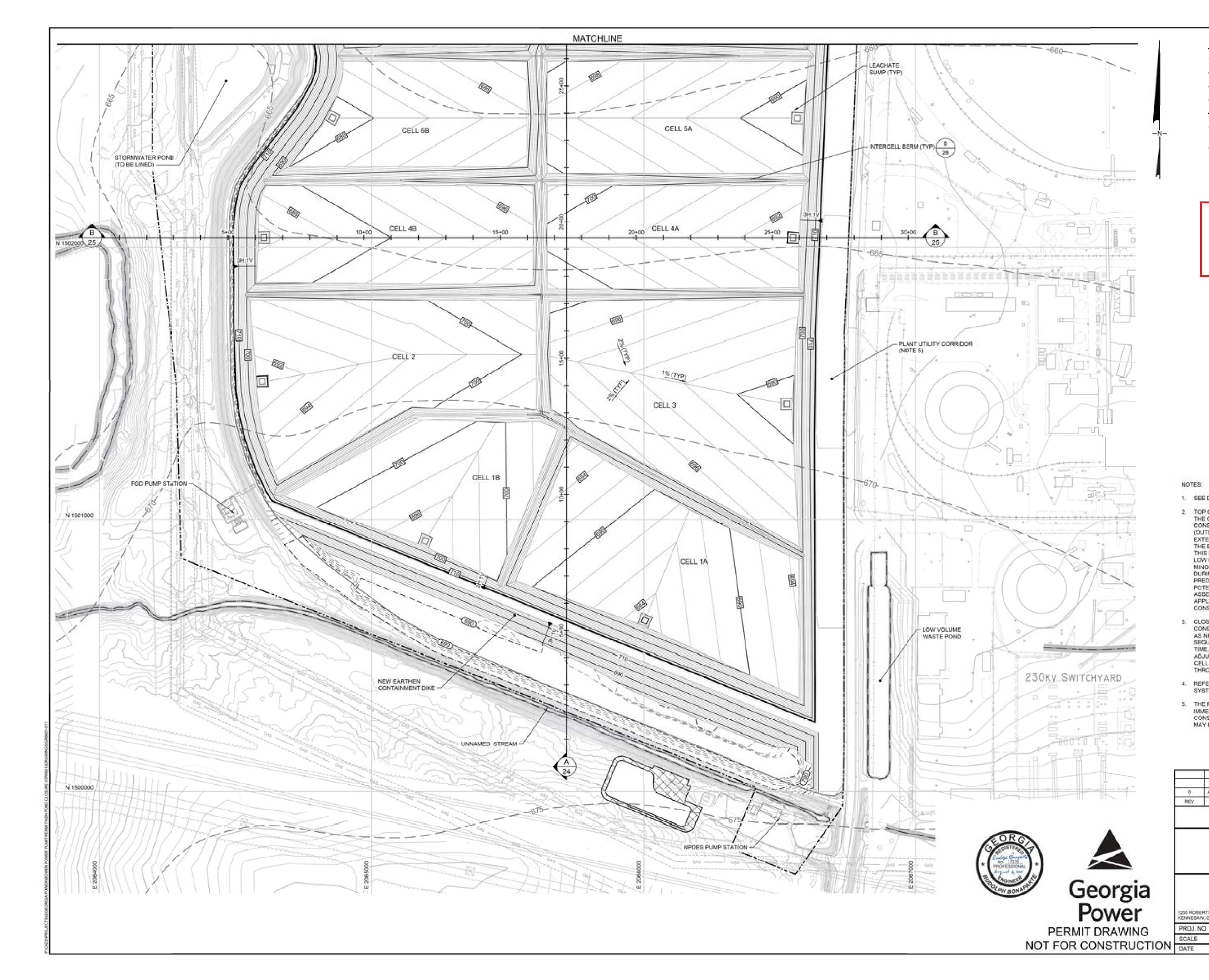
TOP OF LINER GRADING PLAN - OVERALL

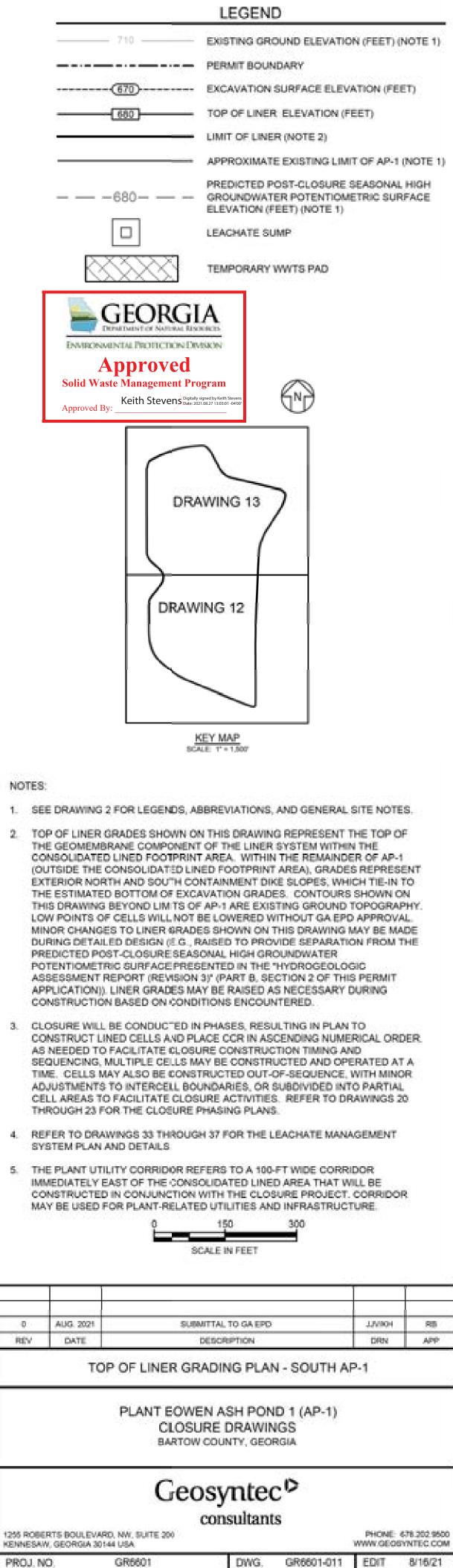
PLANT EOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA

Geosyntec^o

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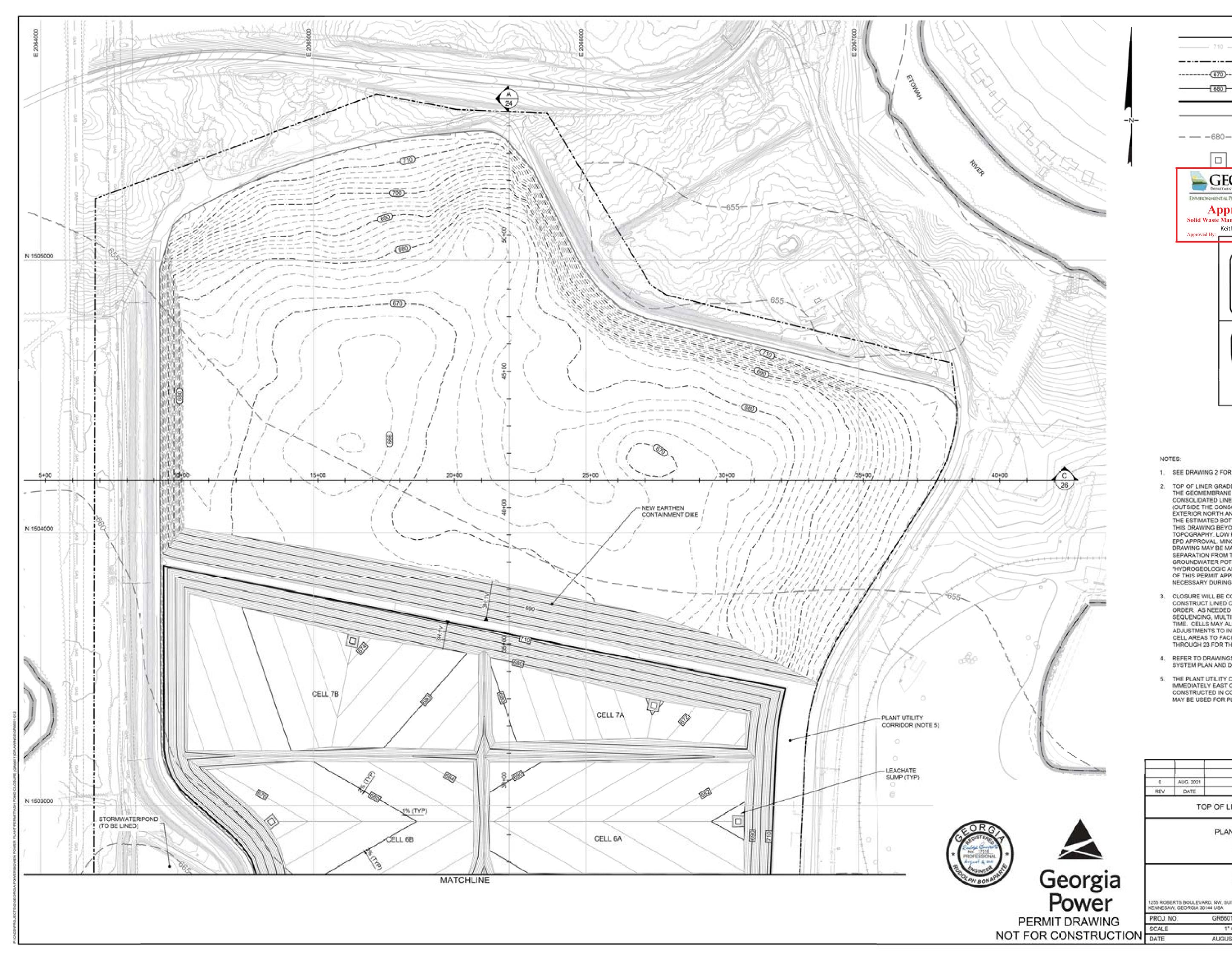




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DRAWING 12 OF 50

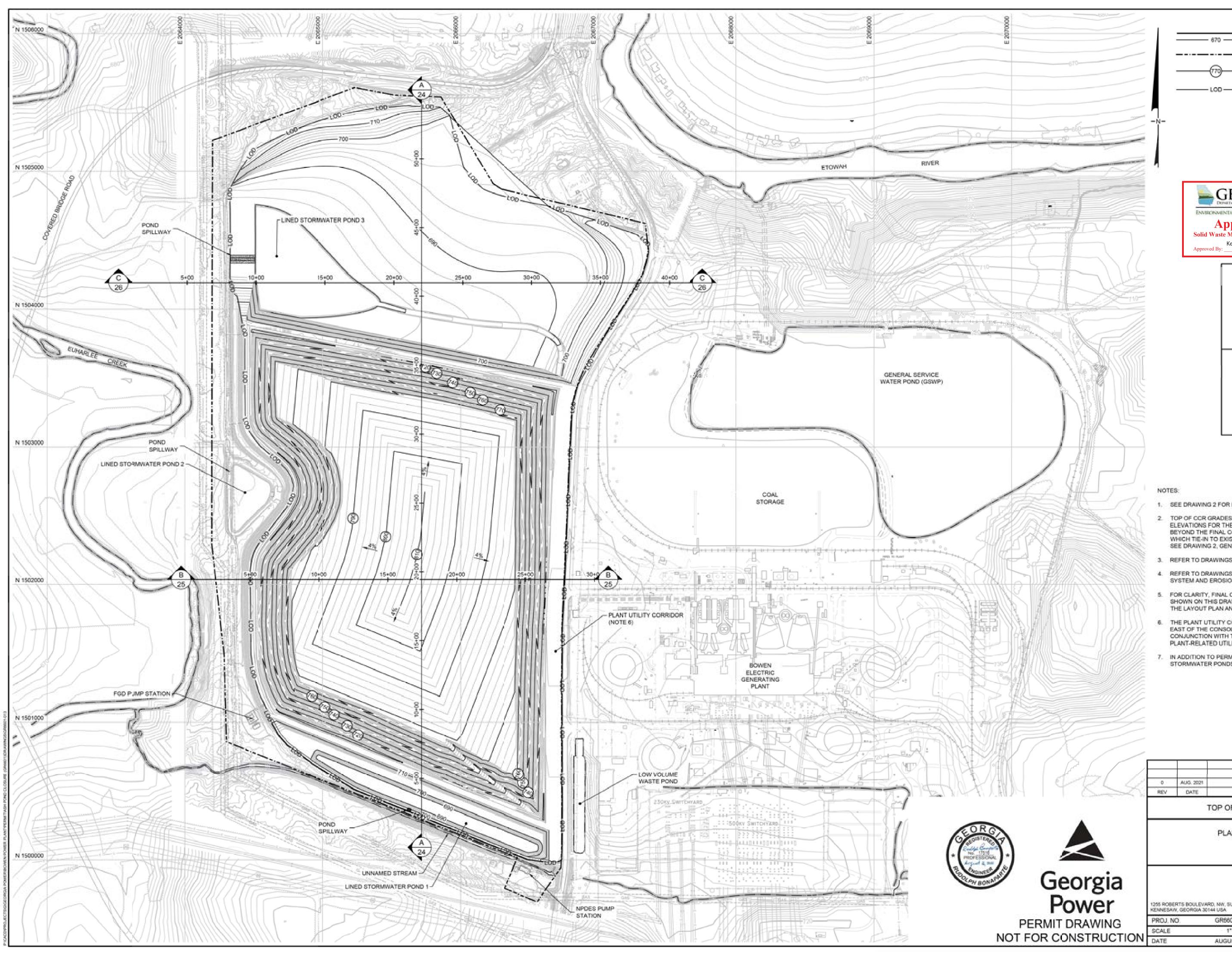


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NOTES:	
 SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTE 	
2. TOP OF LINER GRADES SHOWN ON THIS DRAWING REPRESENT THE TOP O THE GEOMEMBRANE COMPONENT OF THE LINER SYSTEM WITHIN THE CONSOLIDATED LINED FCOTPRINT AREA. WITHIN THE REMAINDER OF AP-1 (OUTSIDE THE CONSOLIDATED LINED FOOTPRINT AREA), GRADES REPRES EXTERIOR NORTH AND SOUTH CONTAINMENT DIKE SLOPES, WHICH TIE-IN THE ESTIMATED BOTTOM OF EXCAVATION GRADES. CONTOURS SHOWN O THIS DRAWING BEYOND LIMITS OF AP-1 ARE EXISTING GROUND TOPOGRAPHY. LOW POINTS OF CELLS WILL NOT BE LOWERED WITHOUT G EPD APPROVAL. MINOR CHANGES TO LINER GRADES SHOWN ON THIS DRAWING MAY BE MADE DURING DETAILED DESIGN (E.G., RAISED TO PROV SEPARATION FROM THE PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE PRESENTED IN THE "HYDROGEOLOGIC ASSESSMENT REPORT (REVISION 3)" (PART B, SECTION OF THIS PERMIT APPLICATION)). LINER GRADES MAY BE RAISED AS NECESSARY DURING CONSTRUCTION BASED ON CONDITIONS ENCOUNTER	ENT TO N A 1DE 2
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 REFER TO DRAWINGS 33 THROUGH 37 FOR THE LEACHATE MANAGEMENT SYSTEM PLAN AND DETAILS. 	
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PLANT EOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA	
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1" = 150'

AUGUST 2021

DRAWING 13 OF 50

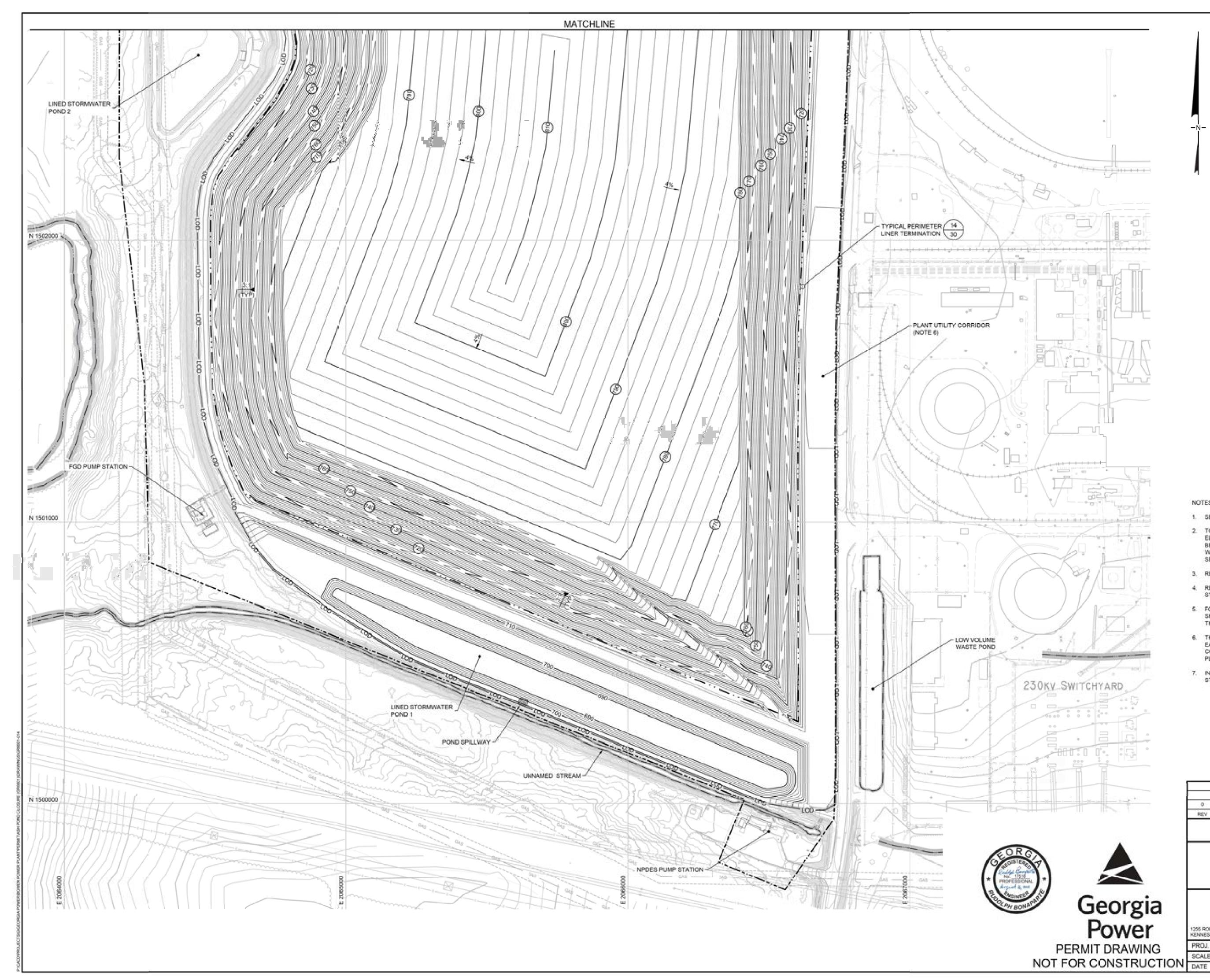


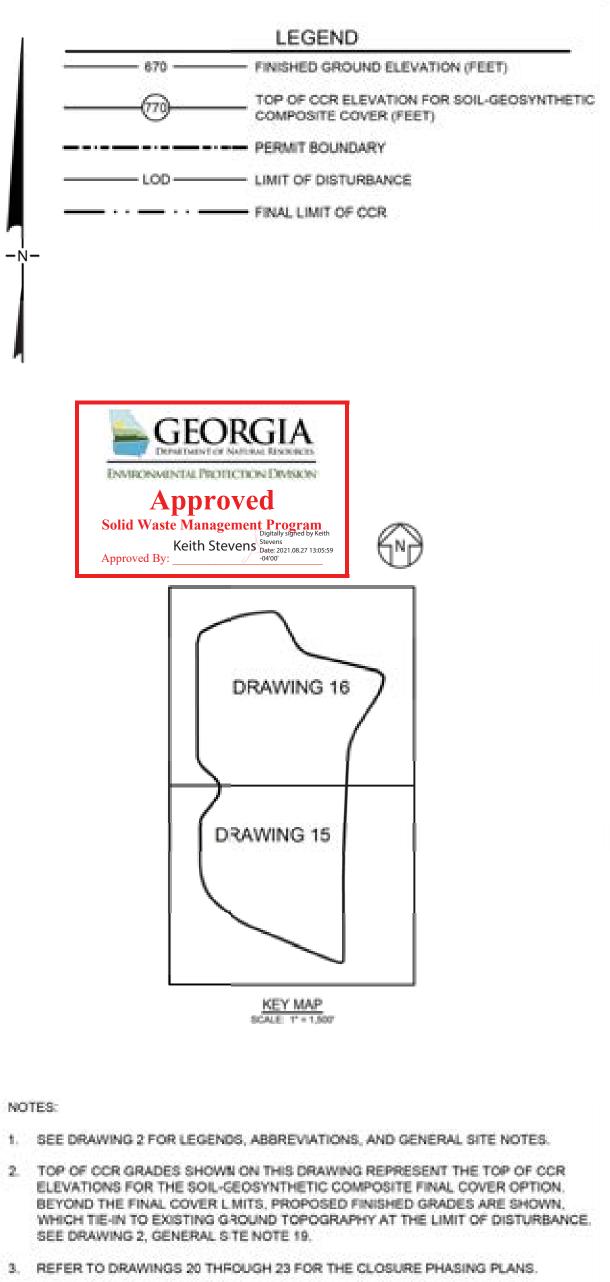
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_	NOTES:
10	SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES. TOP OF CCR GRADES SHOWN ON THIS DRAWING REPRESENT THE TOP OF CCR
A	ELEVATIONS FOR THE SOIL-GEOSYNTHETIC COMPOSITE FINAL COVER OPTION. BEYOND THE FINAL COVER LIMITS, PROPOSED 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.
	 REFER TO DRAWINGS 38 THROUGH 49 FOR THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL PLAN AND DETAILS.
ULL .	5. FOR CLARITY, FINAL CLOSURE STORMWATER MANAGEMENT FEATURES ARE NOT SHOWN ON THIS DRAWING. REFER TO DRAWING 38 FOR A DRAWING SHOWING
911	THE LAYOUT PLAN AND IDENTIFICATION OF THESE FEATURES.
1))),	 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
UM.	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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	Geosyntec
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1" = 300"

AUGUST 2021

DRAWING 14 OF 50





- 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 CORRIDCR 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.

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

Geosyntec^D consultants

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	1000 States	LEGEND
_	670	FINISHED GROUND ELEVATION (FEET)
-		TOP OF CCR ELEVATION FOR SOIL-GEOSYNTHETIC COMPOSITE COVER (FEET)
		PERMIT BOUNDARY
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- 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 CORRIDCR 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.

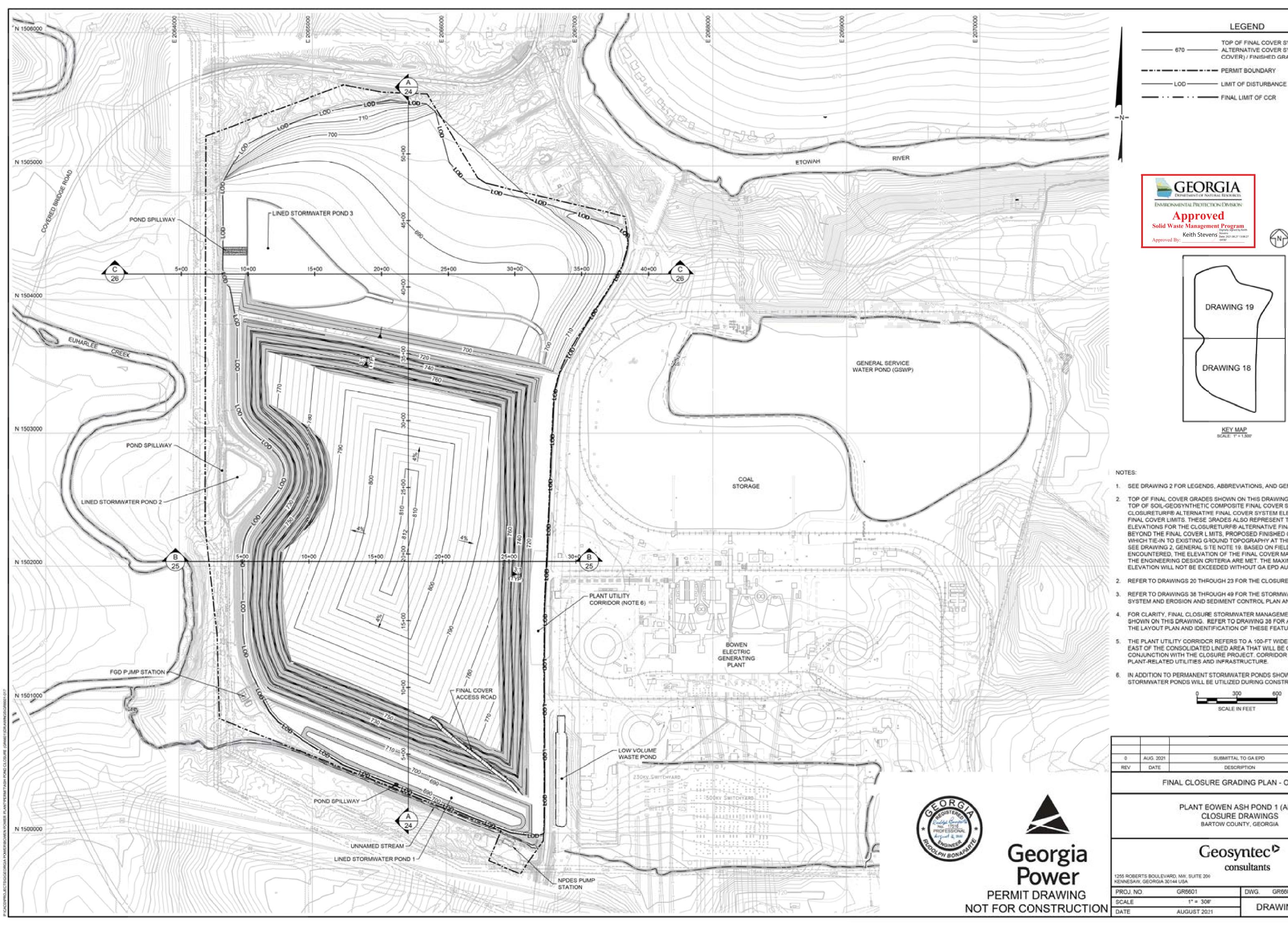
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TOP OF CCR GRADING PLAN - NORTH

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

Geosyntec^D consultants

1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA PHONE: 678 202 9500 WWW.GEOSYNTEC.COM DWG. GR6601-015 EDIT 8/16/21 PROJ, NO. GR6601 1" = 150" DRAWING 16 OF 50 AUGUST 2021



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
EXAMPLE A PROTECTION DATA REVERSE EXAMPLE A PROTECTION DATA REVERSE Approved By: Digital Solid Vaste Management Program Digital Solid Vaste Management Program Di
DRAWING 19 DRAWING 18 DRAWING 18 KEY MAP SCALE 1'+ 1.00
TES:
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 L MITS, 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 CORRIDCR 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.
o <u> </u>

SUBMITTAL TO GA EPD 13/004 RB DRN APP

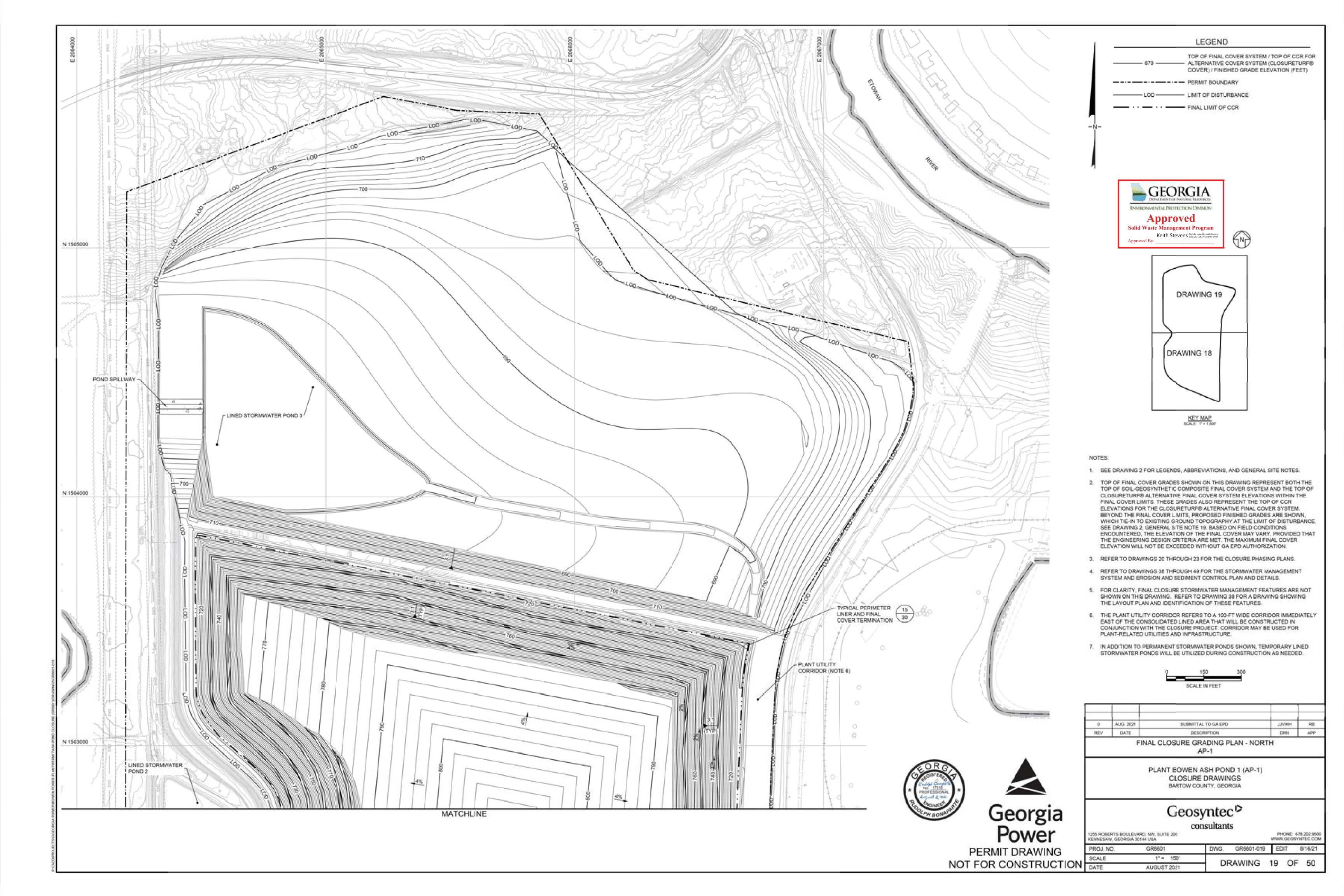
FINAL CLOSURE GRADING PLAN - OVERALL

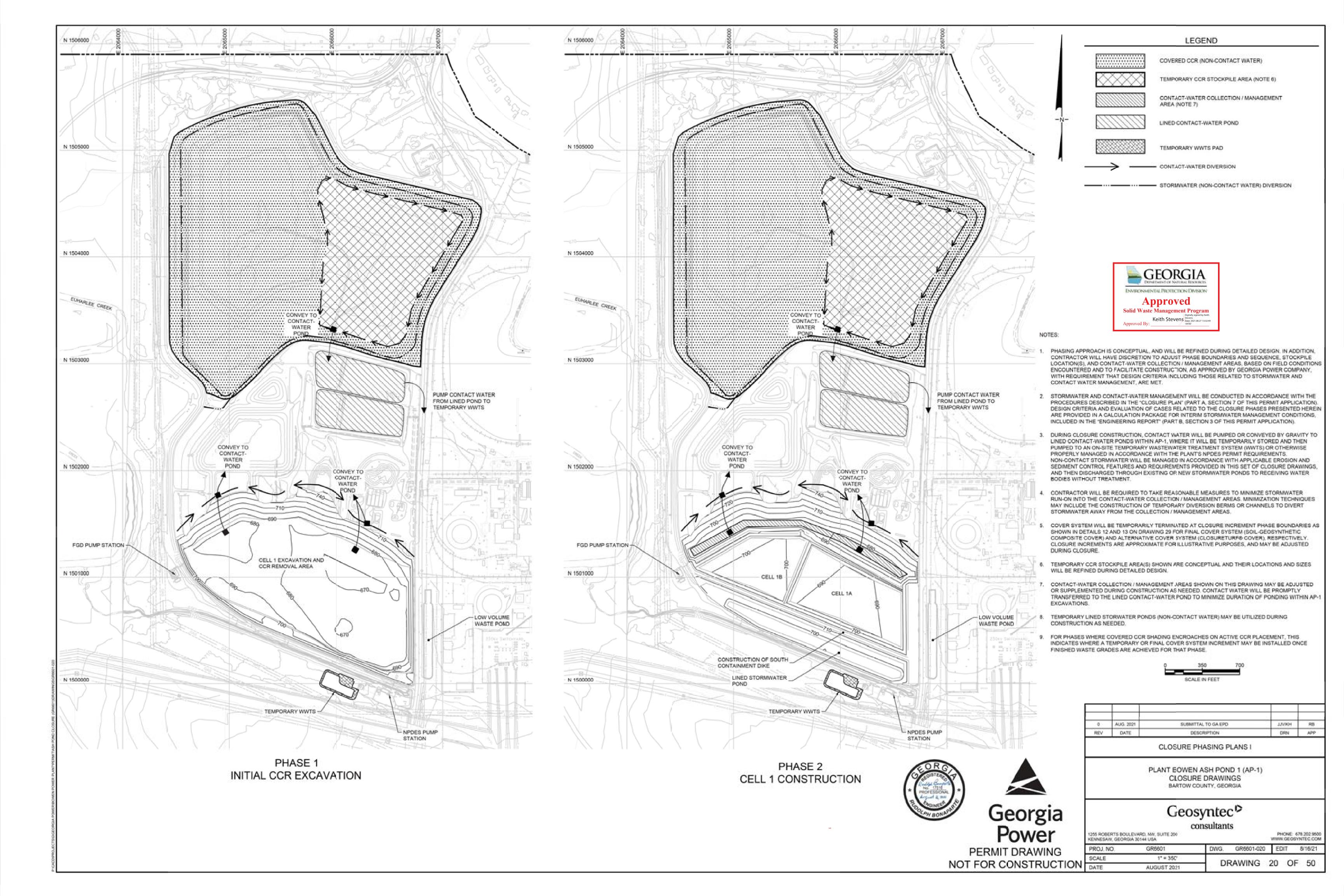
PLANT EOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA

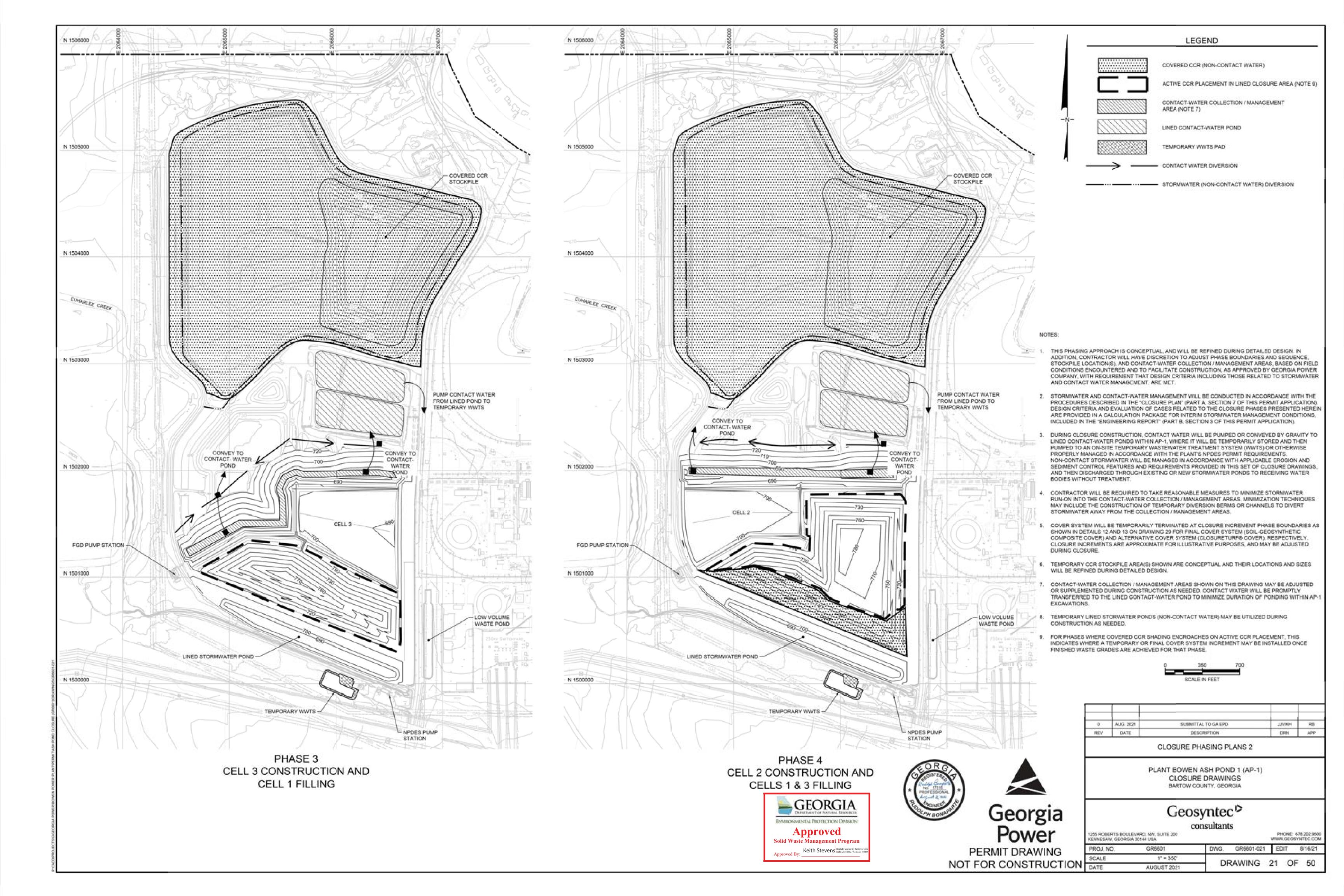
ver	1255 ROBERTS BOUL KENNESAW, GEORG	EVARD, NW, SUITE 200 IA 30144 USA		PHONE: 678 202 9500 WWW.GEOSYNTEC.COM
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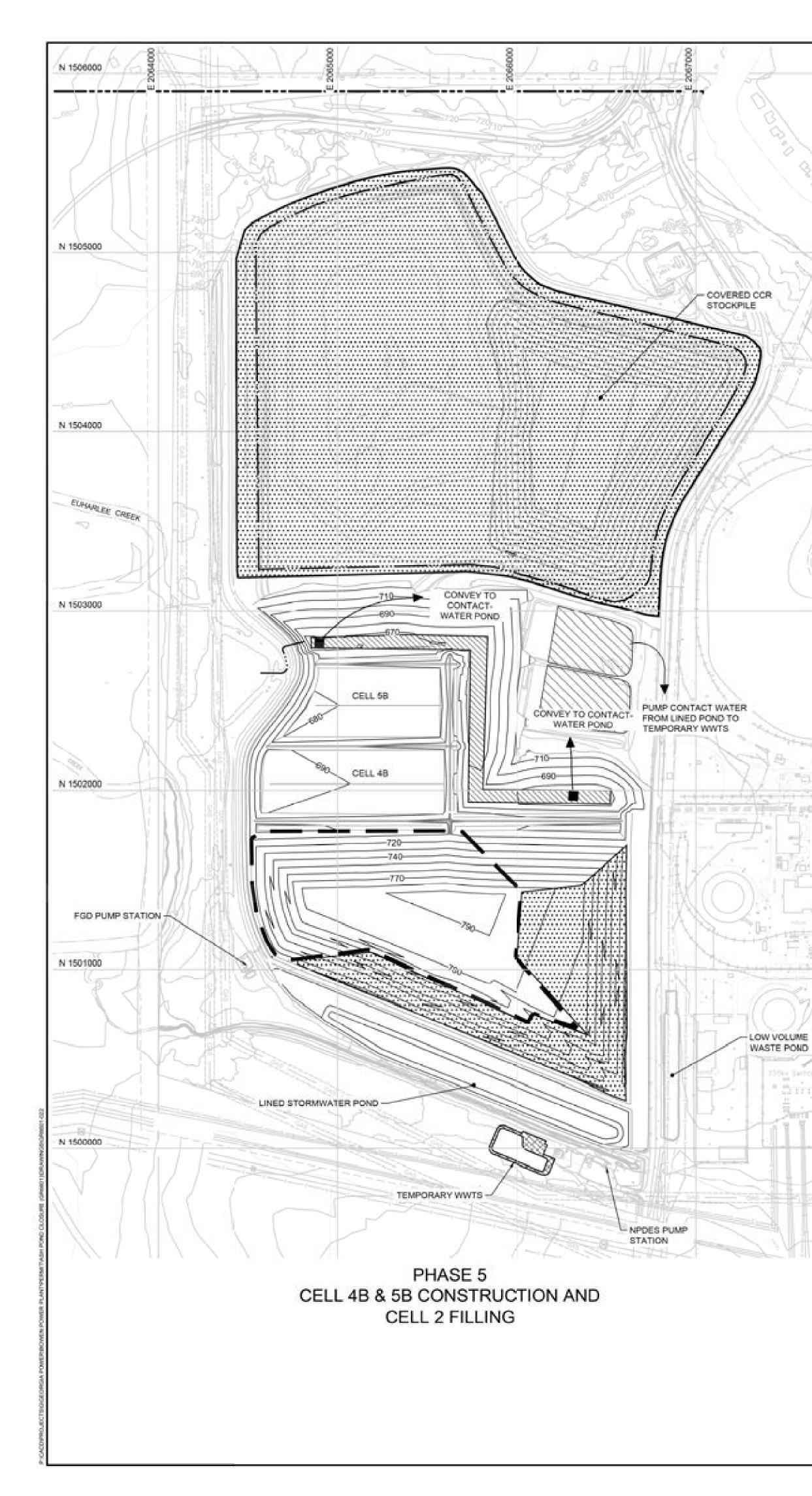


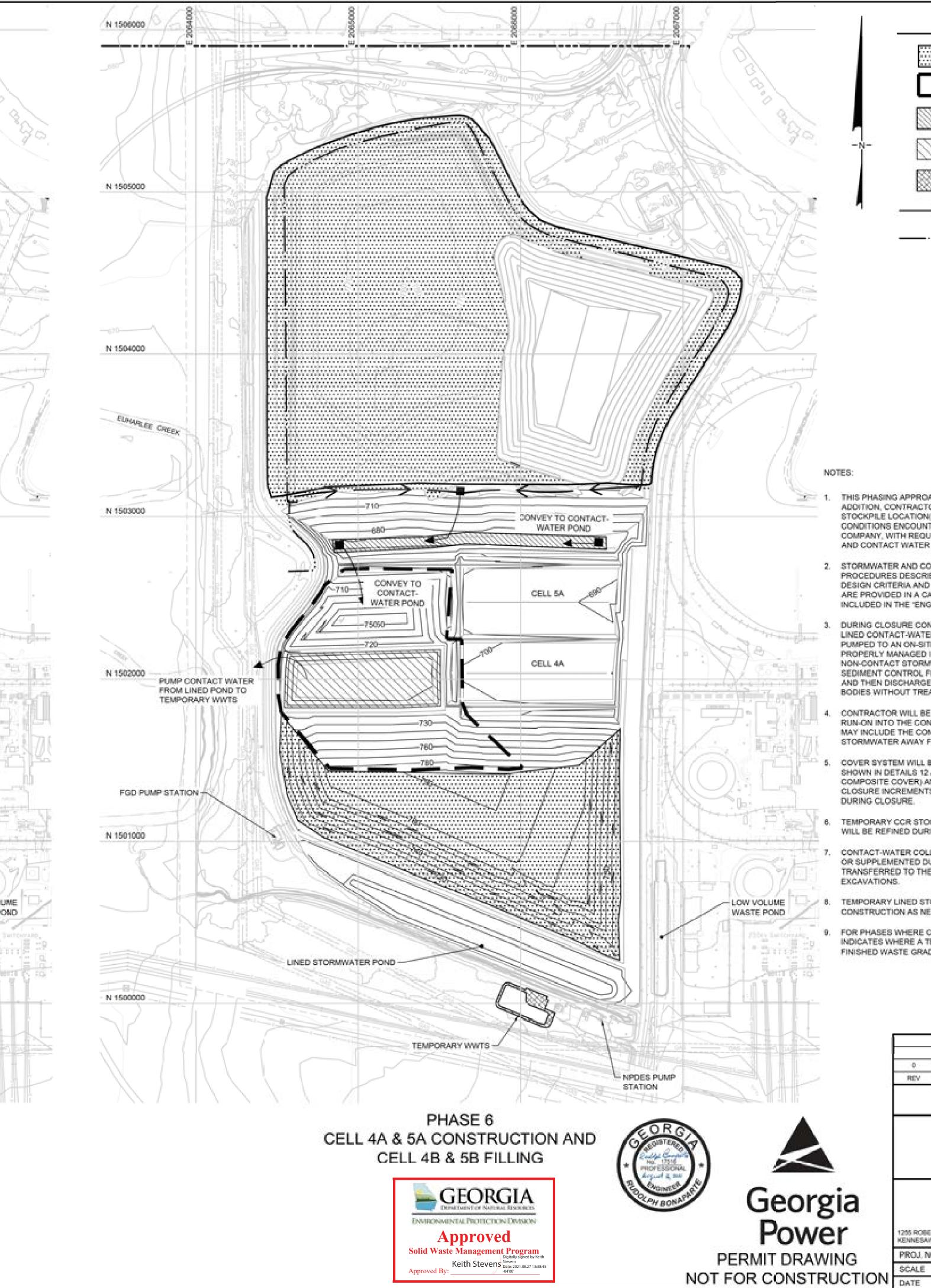
1255 ROBERTS BOU KENNESAW, GEORG	EVARD, NW, SUITE 200	onsultani	s		678 202 9500 6YNTEC.COM
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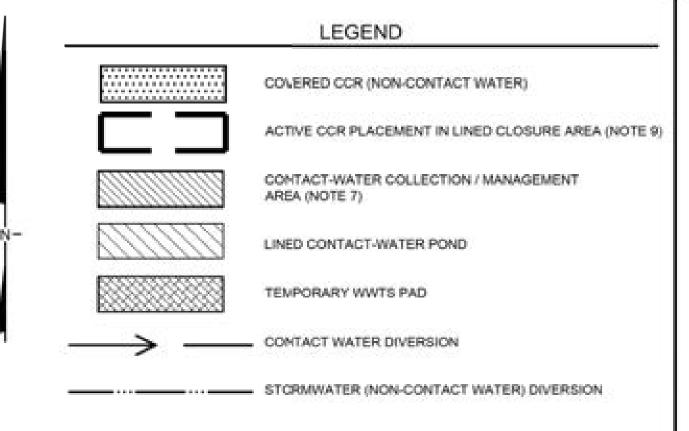












- 1. THIS PHASING APPROACH IS CONCEPTUAL, AND WILL BE REFINED DURING DETAILED DESIGN. IN ADDITION, CONTRACTOR WILL HAVE DISCRETION TO ADJUST PHASE BOUNDARIES AND SEQUENCE. STOCKPILE LOCATION(S), AND CONTACT-WATER COLLECTION / MANAGEMENT AREAS, BASED ON FIELD CONDITIONS ENCOUNTERED AND TO FACILITATE CONSTRUCTION, AS APPROVED BY GEORGIA POWER COMPANY, WITH REQUIREMENT THAT DESIGN CRITERIA INCLUDING THOSE RELATED TO STORMWATER AND CONTACT WATER MANAGEMENT, ARE MET.
 - 2. STORMWATER AND CONTACT-WATER MANAGEMENT WILL BE CONDUCTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE "CLOSURE PLAN" (PART A, SECTION 7 OF THIS PERMIT APPLICATION). DESIGN CRITERIA AND EVALUATION OF CASES FELATED TO THE CLOSURE PHASES PRESENTED HEREIN ARE PROVIDED IN A CALCULATION PACKAGE FOR INTERIM STORMWATER MANAGEMENT CONDITIONS, INCLUDED IN THE "ENGINEERING REPORT" (PART B, SECTION 3 OF THIS PERMIT APPLICATION).
 - DURING CLOSURE CONSTRUCTION, CONTACT WATER WILL BE PUMPED OR CONVEYED BY GRAVITY TO LINED CONTACT-WATER PONDS WITHIN AP-1, WHERE IT WILL BE TEMPORARILY STORED AND THEN PUMPED TO AN ON-SITE TEMPORARY WASTEWATER TREATMENT SYSTEM (WWTS) OR OTHERWISE PROPERLY MANAGED IN ACCORDANCE WITH THE PLANT'S NPDES PERMIT REQUIREMENTS. NON-CONTACT STORMWATER WILL BE MANAGED IN ACCORDANCE WITH APPLICABLE EROSION AND SEDIMENT CONTROL FEATURES AND REQUIREMENTS PROVIDED IN THIS SET OF CLOSURE DRAWINGS AND THEN DISCHARGED THROUGH EXISTING OR NEW STORMWATER PONDS TO RECEIVING WATER BODIES WITHOUT TREATMENT.
 - CONTRACTOR WILL BE REQUIRED TO TAKE REASONABLE MEASURES TO MINIMIZE STORMWATER RUN-ON INTO THE CONTACT-WATER COLLECTION / MANAGEMENT AREAS. MINIMIZATION TECHNIQUES MAY INCLUDE THE CONSTRUCTION OF TEMPORARY DIVERSION BERMS OR CHANNELS TO DIVERT STORMWATER AWAY FROM THE COLLECTION / MANAGEMENT AREAS.
 - COVER SYSTEM WILL BE TEMPORARILY TERMINATED AT CLOSURE INCREMENT PHASE BOUNDARIES AS SHOWN IN DETAILS 12 AND 13 ON DRAWING 29 FOR FINAL COVER SYSTEM (SOIL-GEOSYNTHETIC COMPOSITE COVER) AND ALTERNATIVE COVER 5YSTEM (CLOSURETURF® COVER), RESPECTIVELY. CLOSURE INCREMENTS ARE APPROXIMATE FOR ILLUSTRATIVE PURPOSES, AND MAY BE ADJUSTED DURING CLOSURE.
 - TEMPORARY CCR STOCKPILE AREA(S) SHOWN ARE CONCEPTUAL AND THEIR LOCATIONS AND SIZES WILL BE REFINED DURING DETAILED DESIGN.
 - CONTACT-WATER COLLECTION / MANAGEMENT AREAS SHOWN ON THIS DRAWING MAY BE ADJUSTED OR SUPPLEMENTED DURING CONSTRUCTION AS NEEDED. CONTACT WATER WILL BE PROMPTLY TRANSFERRED TO THE LINED CONTACT-WATER POND TO MINIMIZE DURATION OF PONDING WITHIN AP-1 **EXCAVATIONS**
 - TEMPORARY LINED STORWATER PONDS (NON-CONTACT WATER) MAY BE UTILIZED DURING CONSTRUCTION AS NEEDED.
 - FOR PHASES WHERE COVERED CCR SHADING ENCROACHES ON ACTIVE CCR PLACEMENT, THIS INDICATES WHERE A TEMPORARY OR FINAL COVER SYSTEM INCREMENT MAY BE INSTALLED ONCE FINISHED WASTE GRADES ARE ACHIEVED FOR THAT PHASE.

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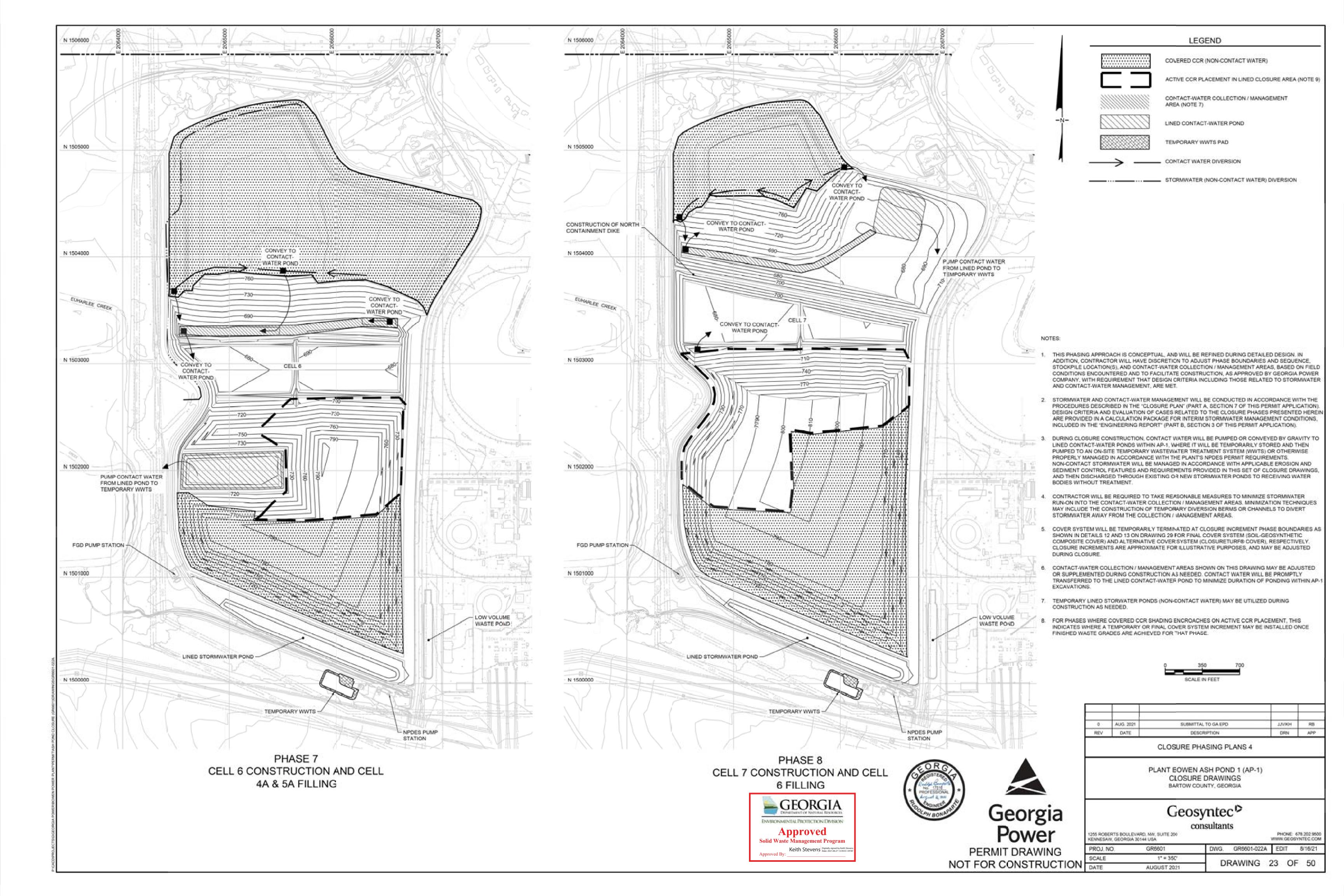
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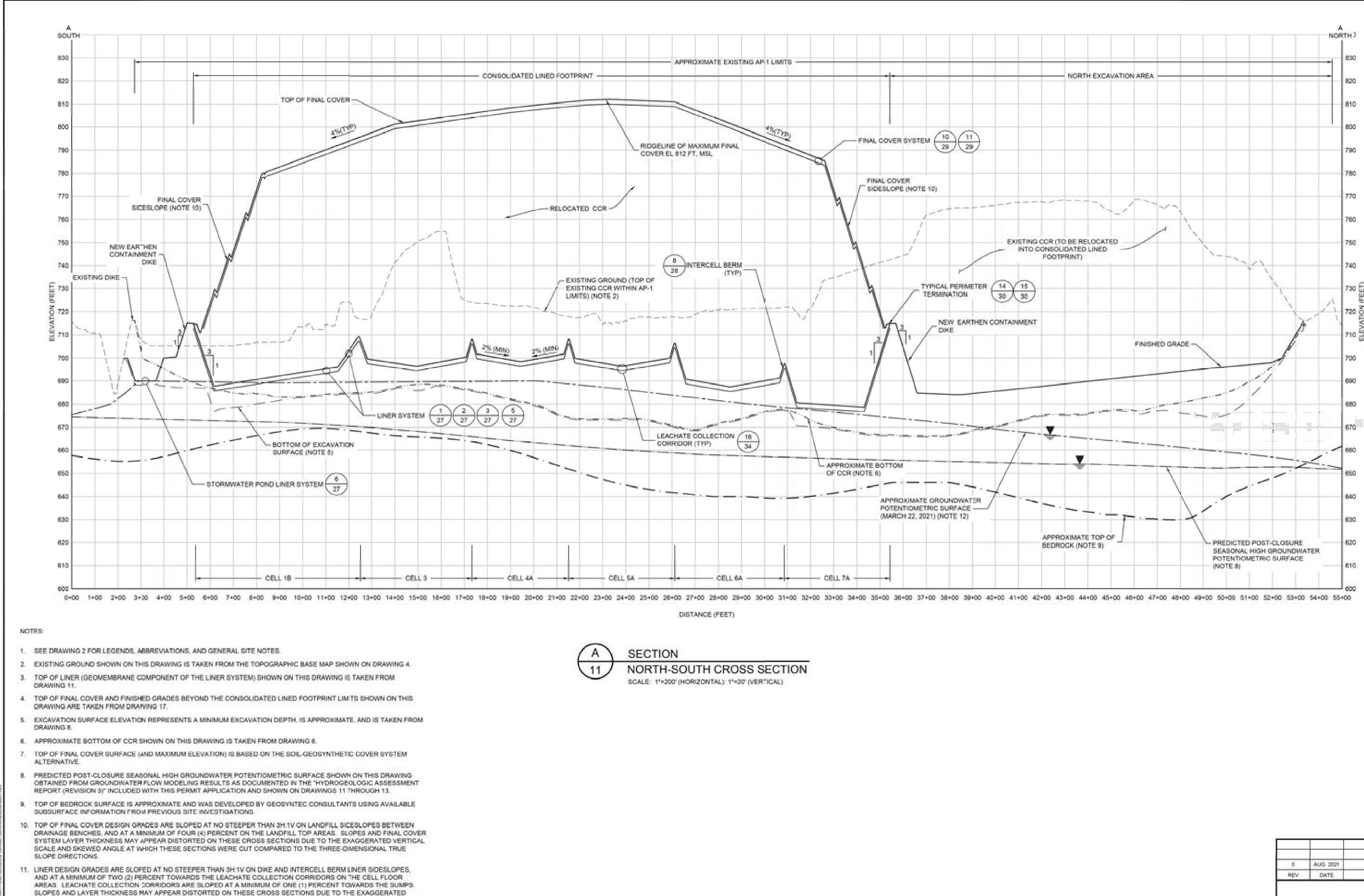
CLOSURE PHASING PLANS 3

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

Geosyntec^D

consultants 1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA PHONE: 678.202.9500 WWW.GEOSYNTEC.COM PROJ. NO. DWG, GR6601-022 EDIT 8/16/21 GR6601 $1^{\circ} = 350^{\circ}$ DRAWING 22 OF 50 AUGUST 2021

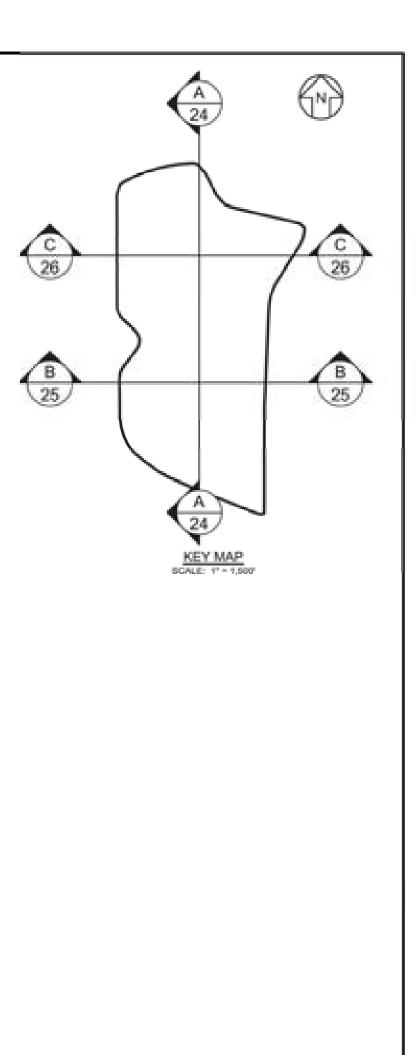




- SLOPES AND LAYER THICKNESS MAY APPEAR DISTORTED ON THESE CROSS SECTIONS DUE TO THE EXAGGERATED VERTICAL SCALE AND SKEWED ANGLE AT WHICH THESE SECTIONS WERE CUT COMPARED TO THE THREE-DIMENSIONAL TRUE SLOPE DIRECTIONS.
- 12. APPROXIMATE GROUNDWATER POTENTIOMETRIC SURFACE IS FROM WATER LEVEL MEASUREMENTS DATED 22 MARCH 2021 IN WELLS/PIEZOMETERS SCREENED IN BEDROCK AS PRESENTED IN THE 'HYDROGEOLOGIC ASSESSMENT REPORT (REVISION 3)" INCLUDED WITH THIS PERMIT APPLICATION. THE MARCH 2021 POTENTIOMETRIC SURFACE IS HIGHER THAN THAT ASSOCIATED WITH THE DEWATERED AND CLOSED CONDITION WITHIN AP-1, AS REFLECTED IN NOTE 8.





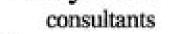


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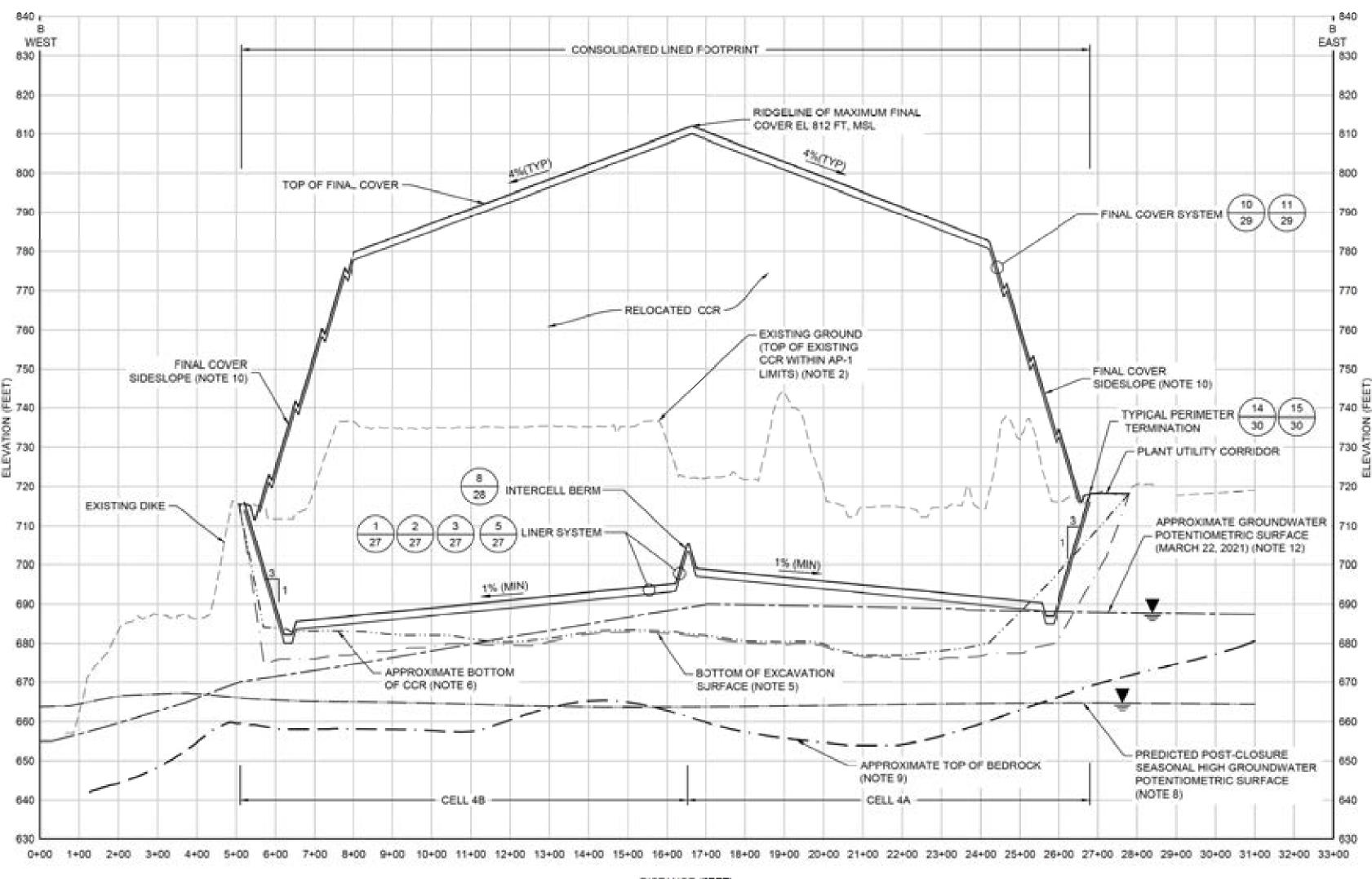
PLANT EOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA

Geosyntec^D





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NOTES:

- 1. SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
- 2. EXISTING GROUND SHOWN ON THIS DRAWING IS TAKEN FROM THE TOPOGRAPHIC BASE MAP SHOWN ON DRAWING 4.
- 3. TOP OF LINER (GEOMEMBRANE COMPONENT OF THE LINER SYSTEM) SHOWN ON THIS DRAWING IS TAKEN FROM
- DRAWING 11. 4. TOP OF FINAL COVER AND FINISHED GRADES BEYOND THE CONSOLIDATED LINED FOOTPRINT LIM TS SHOWN ON THIS
- DRAWING ARE TAKEN FROM DRAWING 17. 5. EXCAVATION SURFACE ELEVATION REPRESENTS A MINIMUM EXCAVATION DEPTH, IS APPROXIMATE, AND IS TAKEN FROM DRAWING 8
- 6. APPROXIMATE BOTTOM OF CCR SHOWN ON THIS DRAWING IS TAKEN FROM DRAWING 6.
- 7. TOP OF FINAL COVER SURFACE (AND MAXIMUM ELEVATION) IS BASED ON THE SOIL-GEOSYNTHETIC COVER SYSTEM ALTERNATIVE.
- 8. PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE SHOWN ON THIS DRAWING OBTAINED FROM GROUNDWATER FLOW MODELING RESULTS AS DOCUMENTED IN THE "HYDROGEOLOGIC ASSESSMENT REPORT (REVISION 3)" INCLUDED WITH THIS PERMIT APPLICATION AND SHOWN ON DRAWINGS 11 THROUGH 13.
- 9. TOP OF BEDROCK SURFACE IS APPROXIMATE AND WAS DEVELOPED BY GEOSYNTEC CONSULTANTS USING AVAILABLE SUBSURFACE INFORMATION FROM PREVIOUS SITE INVESTIGATIONS.
- 10. TOP OF FINAL COVER DESIGN GRADES ARE SLOPED AT NO STEEPER THAN 3H:1V ON LANDFILL SICESLOPES BETWEEN DRAINAGE BENCHES, AND AT A MINIMUM OF FOUR (4) PERCENT ON THE LANDFILL TOP AREAS. SLOPES AND FINAL COVER SYSTEM LAYER THICKNESS MAY APPEAR DISTORTED ON THESE CROSS SECTIONS DUE TO THE EXAGGERATED VERTICAL SCALE AND SKEWED ANGLE AT WHICH THESE SECTIONS WERE CUT COMPARED TO THE THREE-DIMENSIONAL TRUE SLOPE DIRECTIONS.
- 11. LINER DESIGN GRADES ARE SLOPED AT NO STEEPER THAN 3H 1V ON DIKE AND INTERCELL BERM LINER SIDESLOPES, AND AT A MINIMUM OF TWO (2) PERCENT TOWARDS THE LEACHATE COLLECTION CORRIDORS ON THE CELL FLOOR AREAS. LEACHATE COLLECTION CORRIDORS ARE SLOPED AT A MINIMUM OF ONE (1) PERCENT TOWARDS THE SUMPS. SLOPES AND LAYER THICKNESS MAY APPEAR DISTORTED ON THESE CROSS SECTIONS DUE TO THE EXAGGERATED VERTICAL SCALE AND SKEWED ANGLE AT WHICH THESE SECTIONS WERE CUT COMPARED TO THE THREE-DIMENSIONAL TRUE SLOPE DIRECTIONS.
- 12. APPROXIMATE GROUNDWATER POTENTIOMETRIC SURFACE IS FROM WATER LEVEL MEASUREMENTS DATED 22 MARCH 2021 IN WELLS/PIEZOMETERS SCREENED IN BEDROCK AS PRESENTED IN THE 'HYDROGEOLOGIC ASSESSMENT REPORT (REVISION 3)' INCLUDED WITH THIS PERMIT APPLICATION. THE MARCH 2021 POTENTIOMETRIC SURFACE IS HIGHER THAN THAT ASSOCIATED WITH THE DEWATERED AND CLOSED CONDITION WITHIN AP-1, AS REFLECTED IN NOTE 8.

DISTANCE (FEET)



SCALE: #=200' (HORIZONTAL): 1*=20' (VERTICAL)





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KEY MAP

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SITE CROSS SECTIONS II

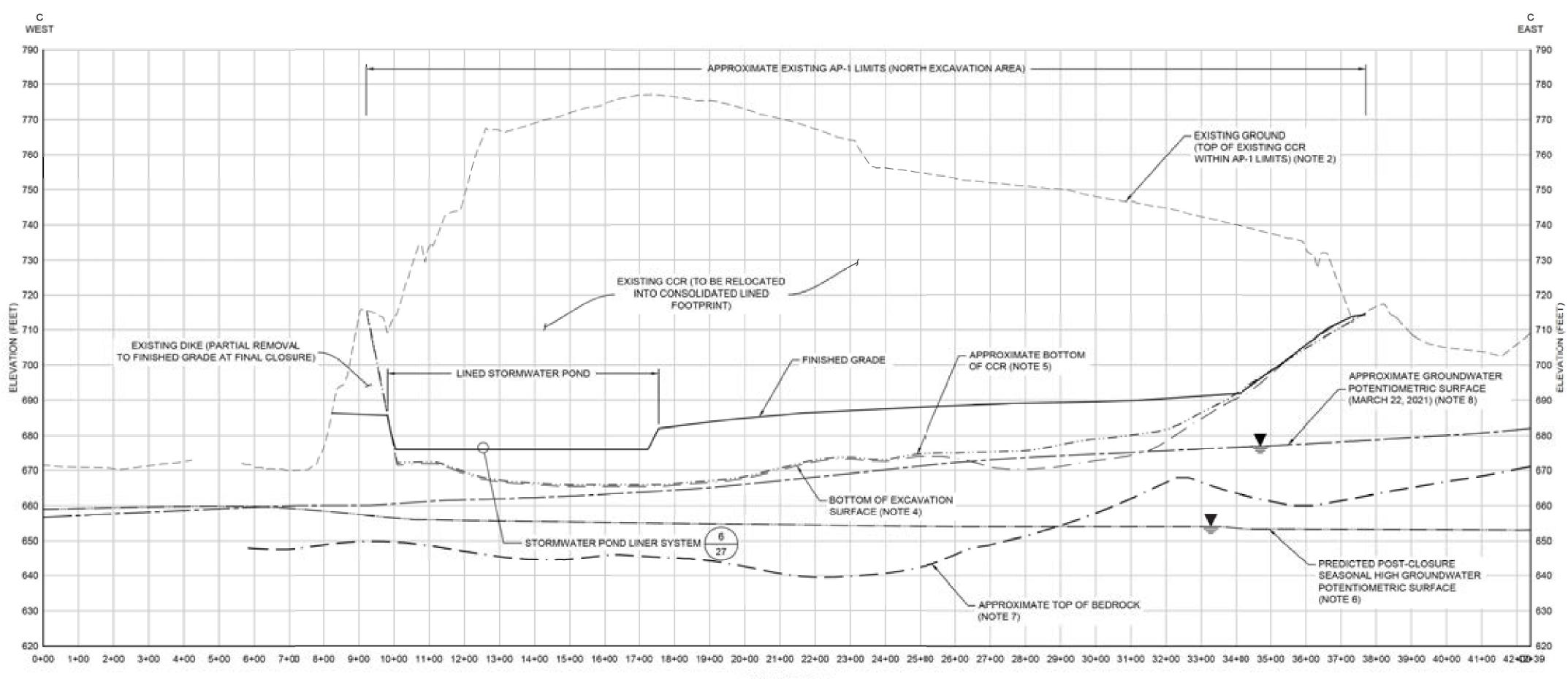
PLANT EOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA

Geosyntec^o

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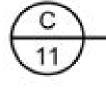
	1255 ROBERTS BOU KENNESAW, GEORG	LEVARD, NW, SUITE 200 IA 30144 USA				678.202.9500 6YNTEC.COM
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NOTES:

- 1. SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
- 2. EXISTING GROUND SHOWN ON THIS DRAWING IS TAKEN FROM THE TOPOGRAPHIC BASE MAP SHOWN ON DRAWING 4.
- 3. THE CONSOLIDATED LINED FOOTPRINT LIMITS SHOWN ON THIS DRAWING ARE TAKEN FROM DRAWING 17.
- 4. EXCAVATION SURFACE ELEVATION REPRESENTS A MINIMUM EXCAVATION DEPTH, IS APPROXIMATE, AND IS TAKEN FROM DRAWING 8.
- 5. APPROXIMATE BOTTOM OF CCR SHOWN ON THIS DRAWING IS TAKEN FROM DRAWING 6.
- 6. PREDICTED POST-CLOSURE SEASONAL HIGH GROUNDWATER POTENTIOMETRIC SURFACE SHOWN ON THIS DRAWING OBTAINED FROM GROUNDWATER FLOW MODELING RESULTS AS DOCUMENTED IN THE "HYDROGEOLOGIC ASSESSMENT REPORT (REVISION 3)" INCLUDED WITH THIS PERMIT APPLICATION AND SHOWN ON DRAWINGS 11 THROUGH 13.
- 7. TOP OF BEDROCK SURFACE IS APPROXIMATE AND WAS DEVELOPED BY GEOSYNTEC CONSULTANTS USING AVAILABLE SUBSURFACE INFORMATION FROM PREVIOUS SITE INVESTIGATIONS.
- 8. APPROXIMATE GROUNDWATER POTENTIOMETRIC SURFACE IS FROM WATER LEVEL MEASUREMENTS DATED 22 MARCH 2021 IN WELLS/PIEZOMETERS SCREENED IN BEDROCK AS PRESENTED IN THE 'HYDROGEOLOGIC ASSESSMENT REPORT (REVISION 3)" INCLUDED WITH THIS PERMIT APPLICATION. THE MARCH 2021 POTENTIOMETRIC SURFACE IS HIGHER THAN THAT ASSOCIATED WITH THE DEWATERED AND CLOSED CONDITION WITHIN AP-1, AS REFLECTED IN NOTE 6.

DISTANCE (FEET)



SECTION EAST-WEST CROSS SECTION SCALE: 1"=200" (HORIZONTAL): 1"=20" (VERTICAL)





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

BARTOW COUNTY, GEORGIA

0 AUG 2021 REV DATE

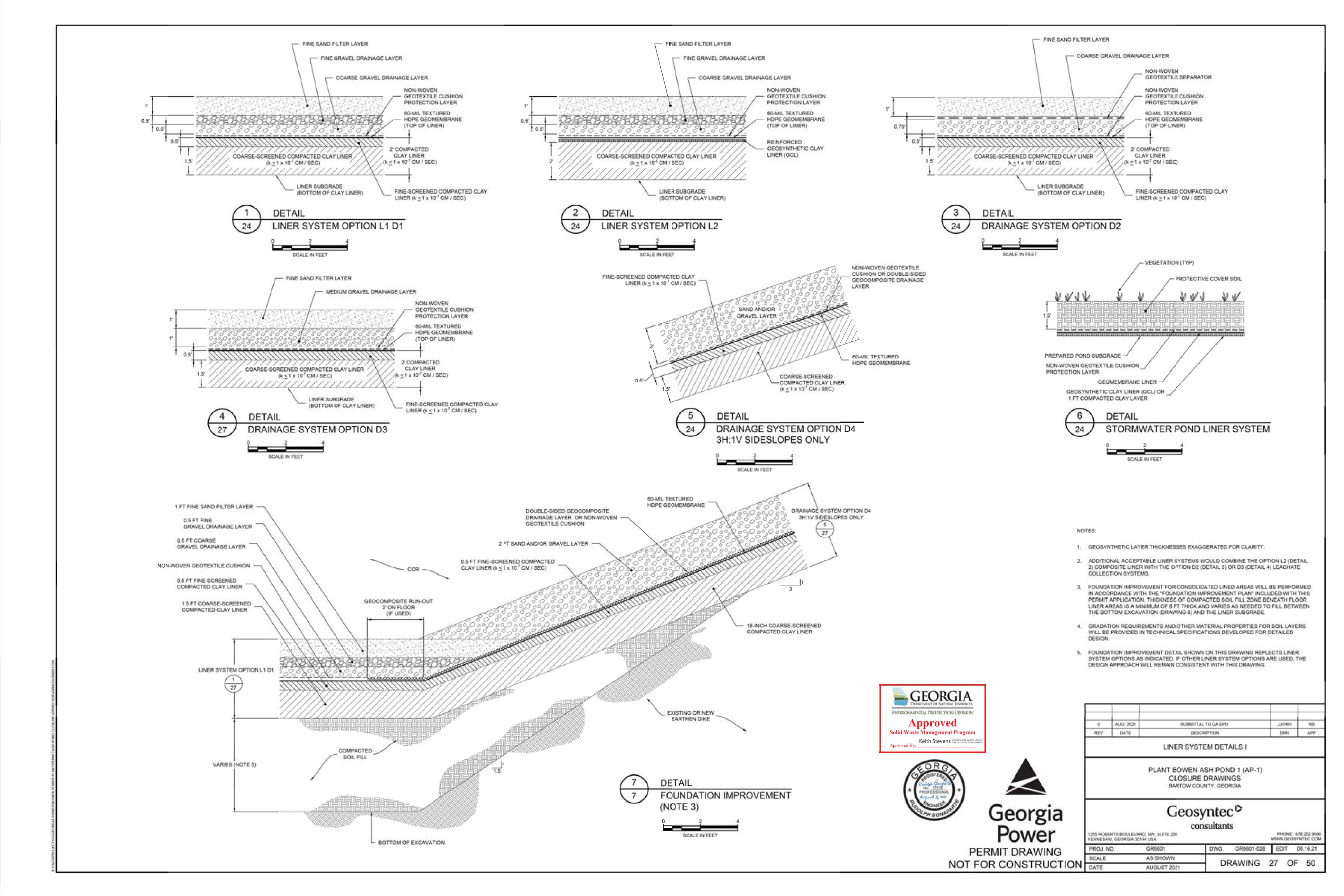
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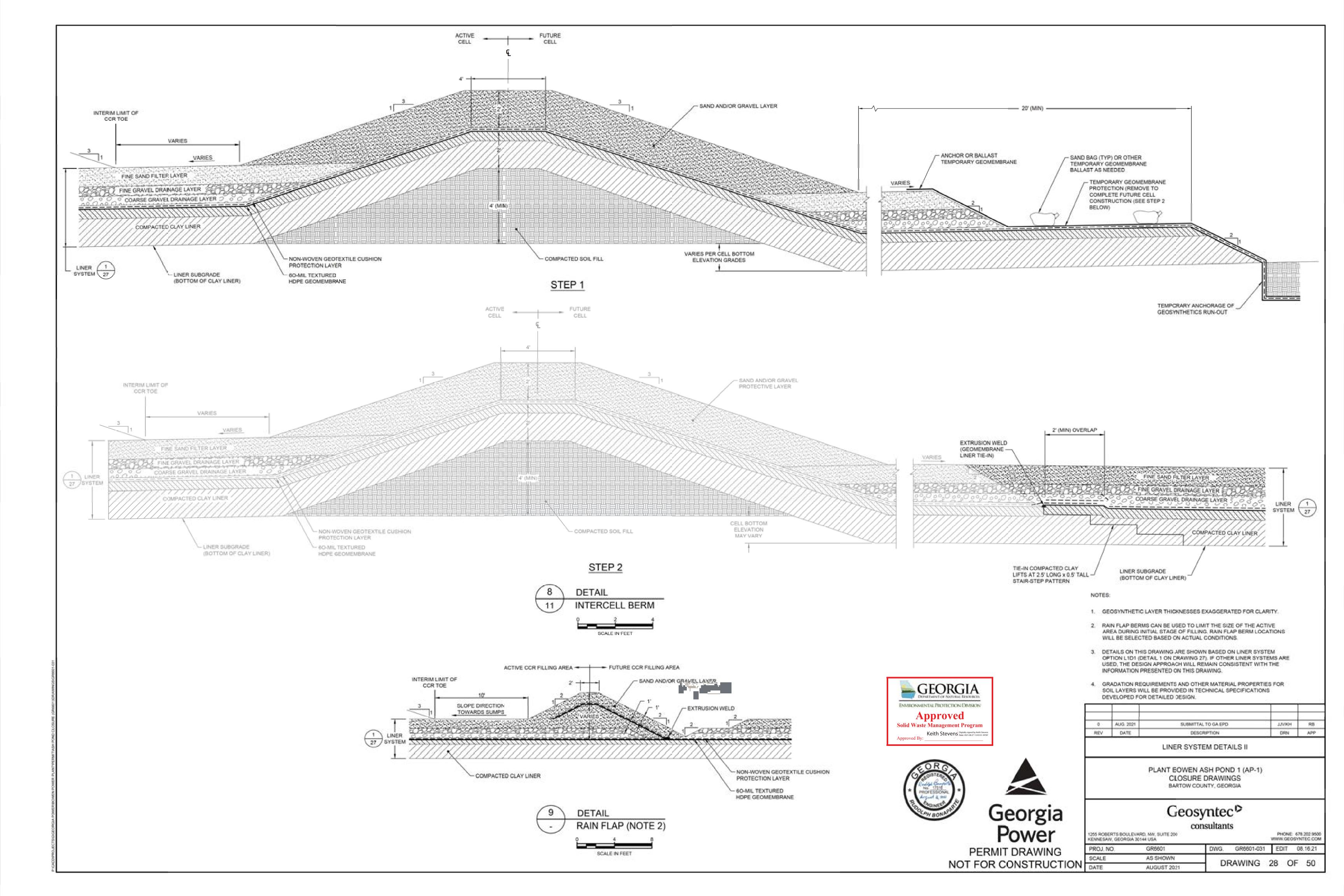
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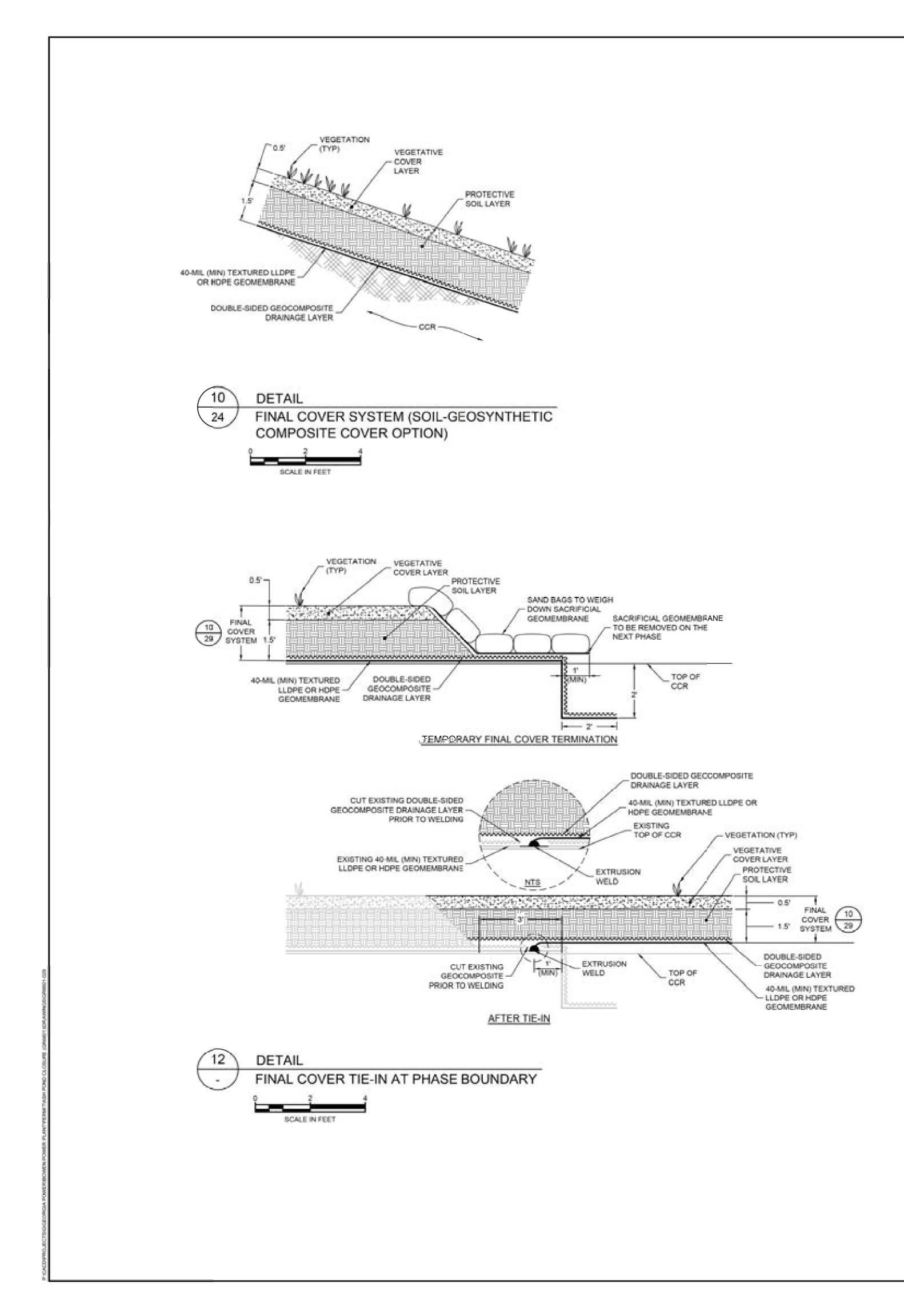


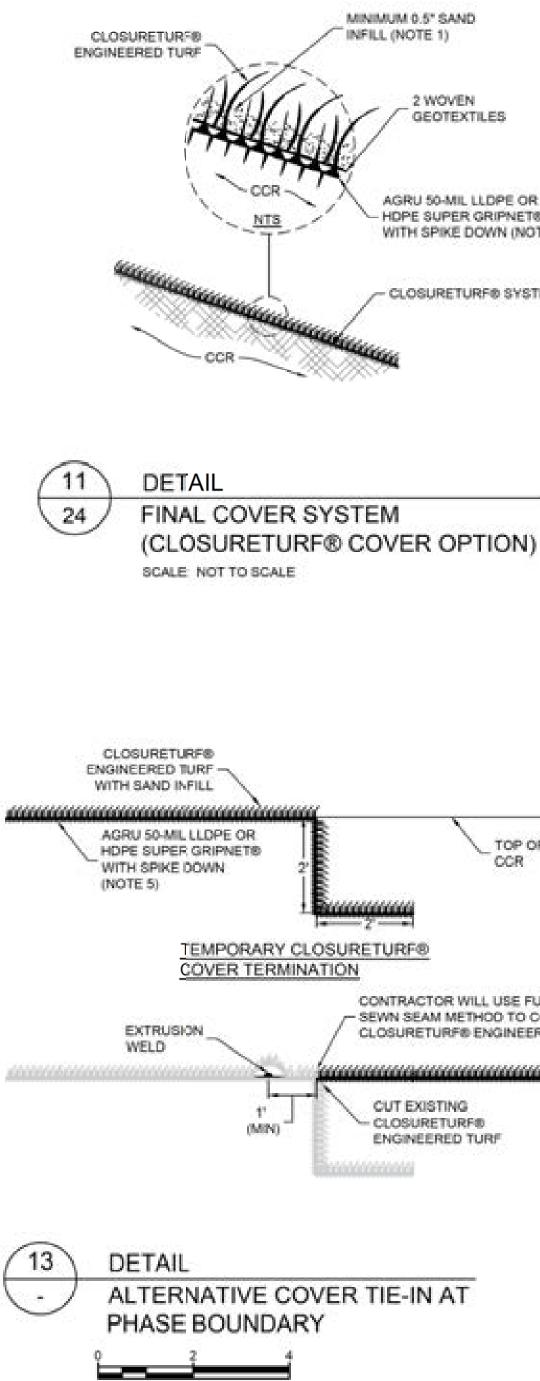
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SCALE IN FEET

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AGRU 50-MIL LLDPE OR - HDPE SUPER GRIPNET® WITH SPIKE DOWN (NOTE 5)

- CLOSURETURF® SYSTEM

TOP OF CCR

CONTRACTOR WILL USE FUSION SEAMOR - SEWN SEAM METHOD TO CONNECT CLOSURETURF® ENGINEERED TURF

ENGINEERED TURF

NOTES:

- 1. SAND INFILL IS TO BE USED WITH CLOSURETURF® ENGINEERED TURF IN ALL LOCATIONS EXCEPT WITHIN DRAINAGE FEATURES, WHICH WILL USE HYDROBINDER AND/OR RIPRAP AS SPECIFIED ON THE STORMWATER MANAGEMENT SYSTEM DETAILS.
- 2. GEOSYNTHETIC LAYER THICKNESSES EXAGGERATED FOR CLARITY.
- 3. SUBGRADE PREPARATION IN AREAS WHERE GEOMEMBRANE LINER WILL BE INSTALLED WILL CONSIST OF MOISTURE CONDITIONING, COMPACTION, AND SMOOTH ROLLING AS NEEDED.
- 4. GRADATION REQUIREMENTS AND OTHER MATERIAL PROPERTIES FOR SOIL LAYERS WILL BE PROVICED IN TECHNICAL SPECIFICATIONS DEVELOPED FOR DETAILED DESIGN.
- 5. CLOSURETURF® DETAILS SHOWN WITH SUPER GRIPNET® GEOMEMBRANE OPTION. OTHER CLOSURETURF® GEOMEMBRANE OPTIONS (E.G. MICRODRAIN® OR MICROSPIKE®) MAY BE CONSIDERED AS PART OF THE DETAILED DESIGN.

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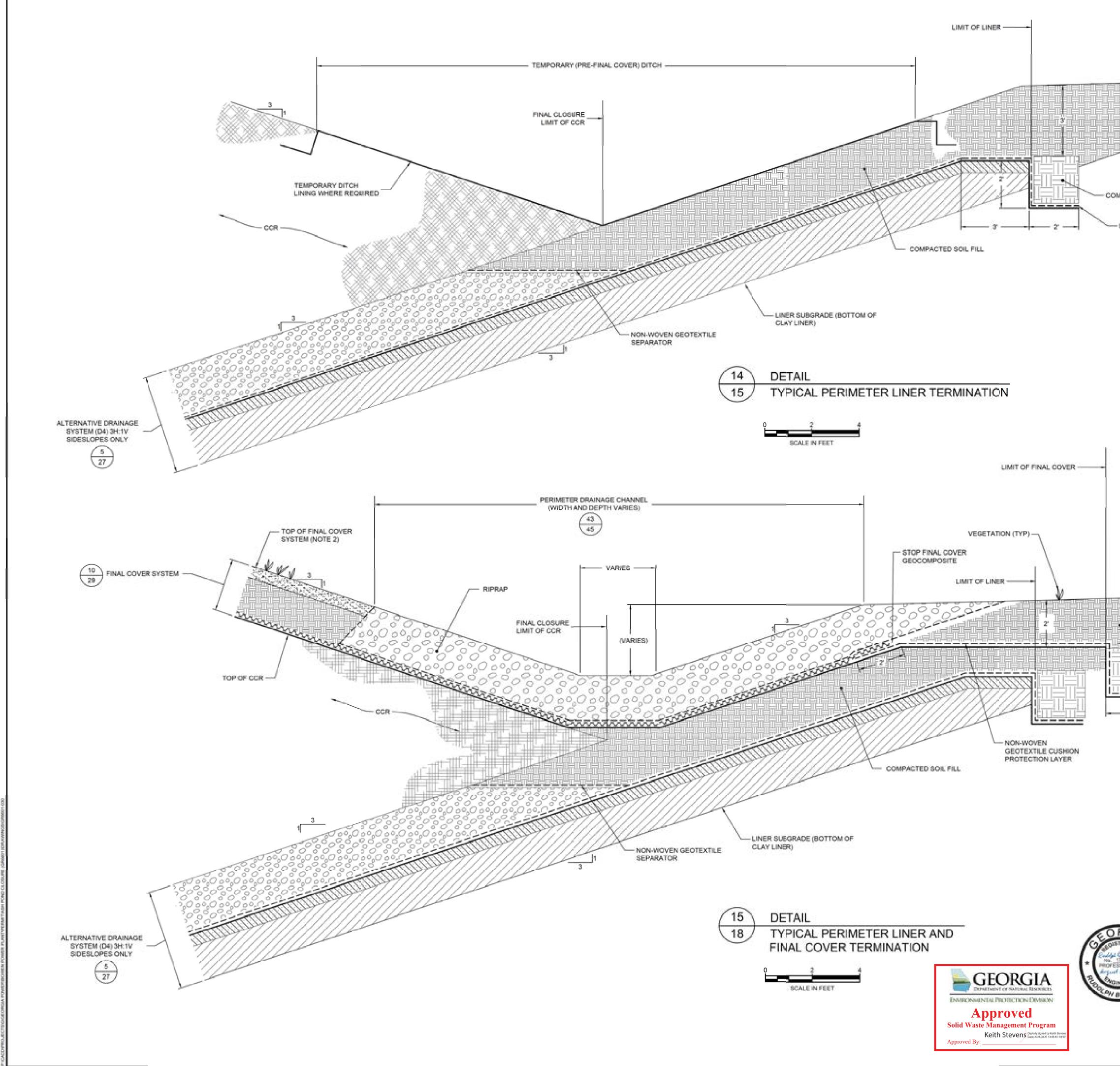
FINAL COVER SYSTEM DETAILS

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

Geosyntec^o



	1255 ROBERTS BOU KENNESAW, GEORG	LEVARD, NW, SUITE 200	onsultant	S		E 678.202.9500
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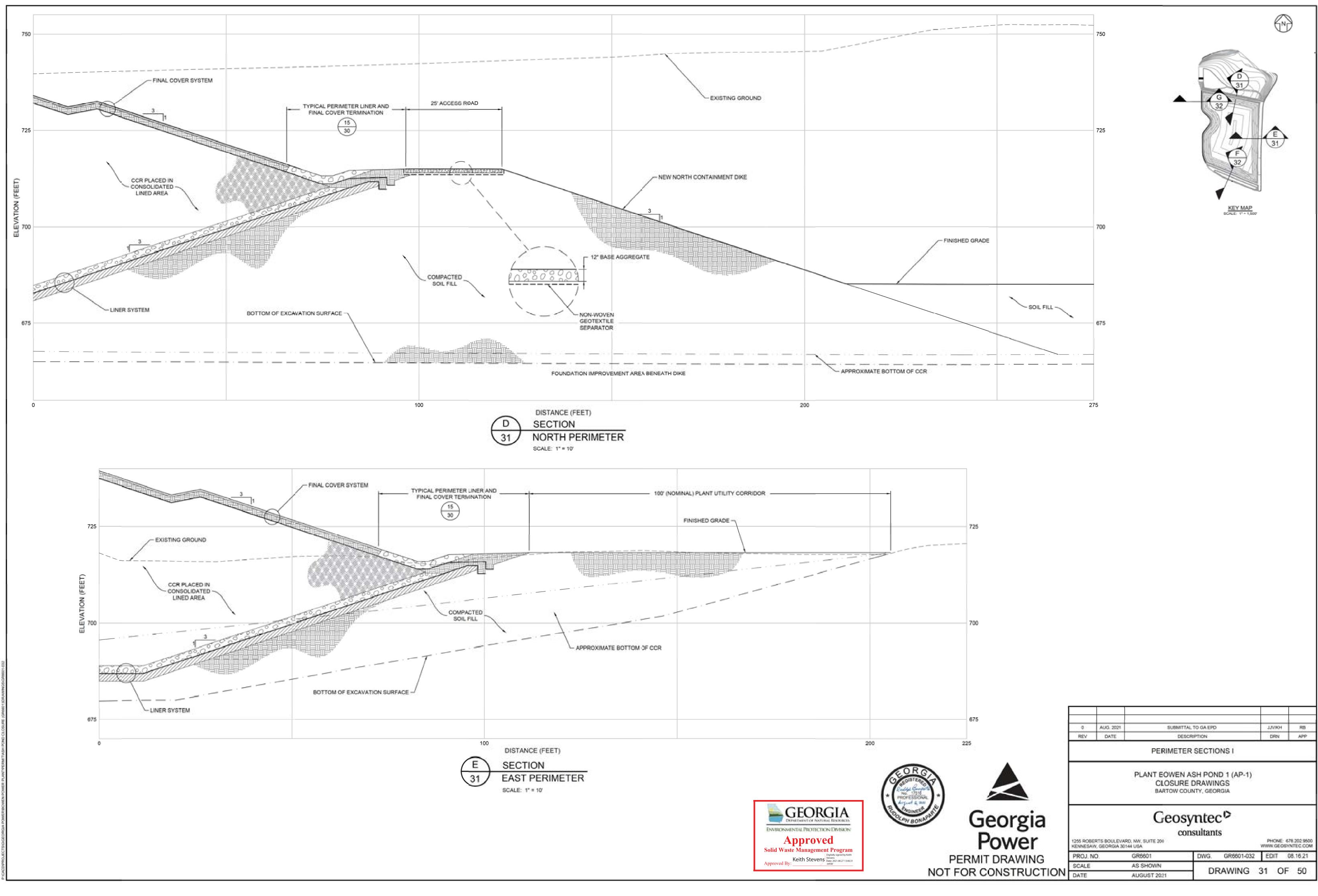


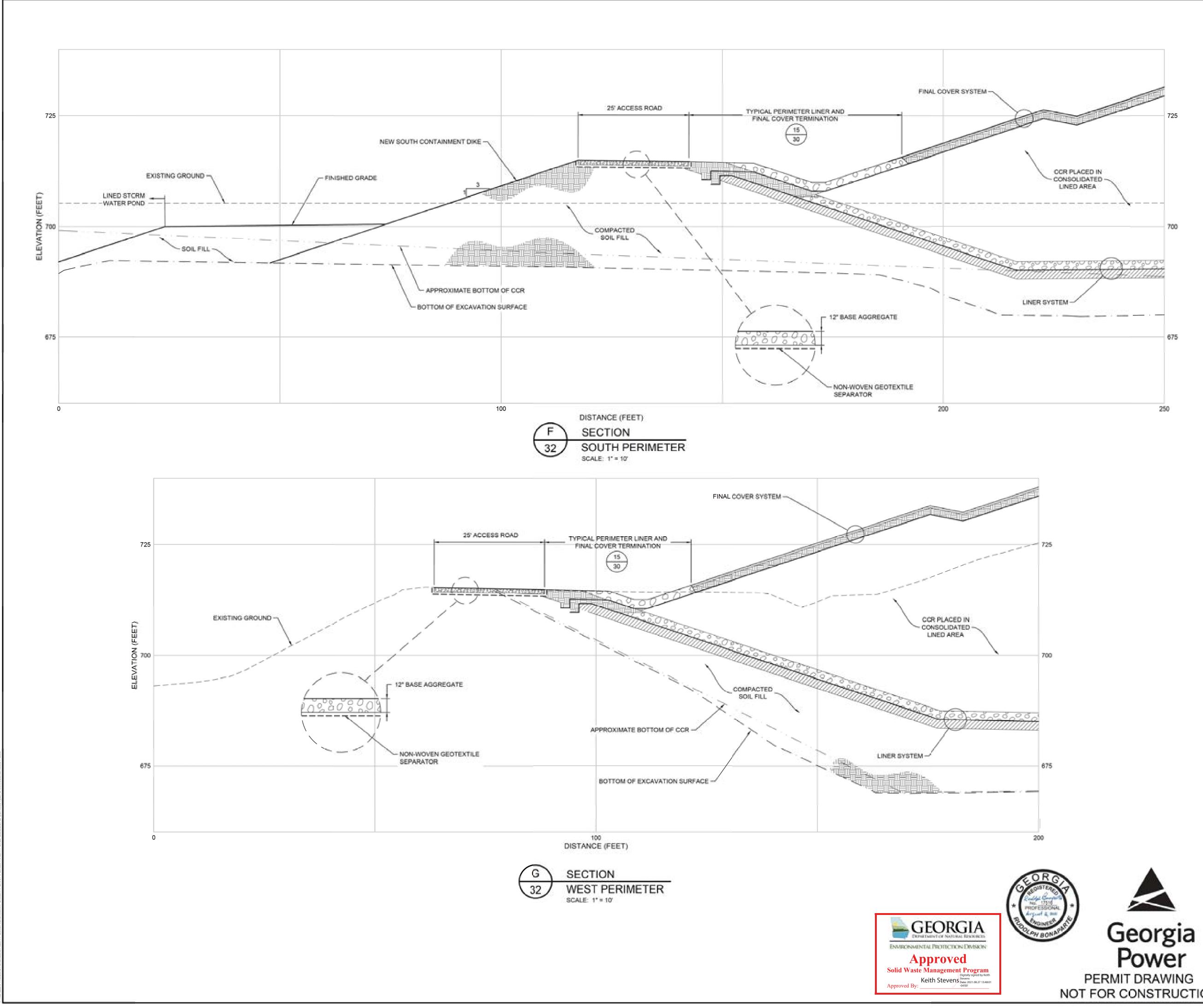
INSIDE CREST OF DIKE/ROAD (APPROXIMATE	
OMPACTED CLAYEY SOIL	
- LINER ANCHOR TRENCH	
FINAL COVER ANCHOR TRENCH	NOTES: 1. GEOSYNTHETIC LAYER THICKNESSES EXAGGERATED FOR CLARITY. 2. DETAILS ARE SHOWN FOR LINER SYSTEM COMPONENTS 'L1' AND 'D4' (SEE DRAWING 28) AND THE SOIL GEOSYNTHETIC FINAL COVER SYSTEM OPTION (SEE DRAWING 30). IF OTHER LINER AND/OR FINAL COVER SYSTEM OPTIONS ARE USED. THER TERMINATIONS WILL BE CONSISTENT WITH THESE SHOWN HERE. 3. GRADATION REQUIREMENTS AND OTHER MATERIAL PROPERTIES FOR SOIL LAYERS WILL BE PROVIDED IN TECHNICAL SPECIFICATIONS DEVELOPED FOR DETAILED DESIGN.
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	PLANT EOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA
Georgia Power	Consultants 1255 ROBERTS BOULEWARD, NW, SUITE 200 RENNESAW, GEORGIA 30144 USA PHONE: 676 202 9500 WWW.GEOSYNTEC.COM
PERMIT DRAWING	PROJ. NO. GR6601 DWG. GR6601-030 EDIT 08.16.21

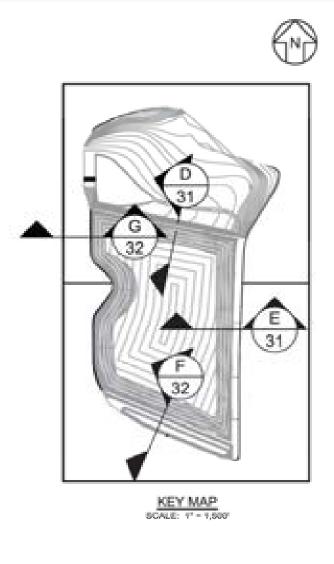
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AS SHOWN AUGUST 2021

DRAWING 30 OF 50







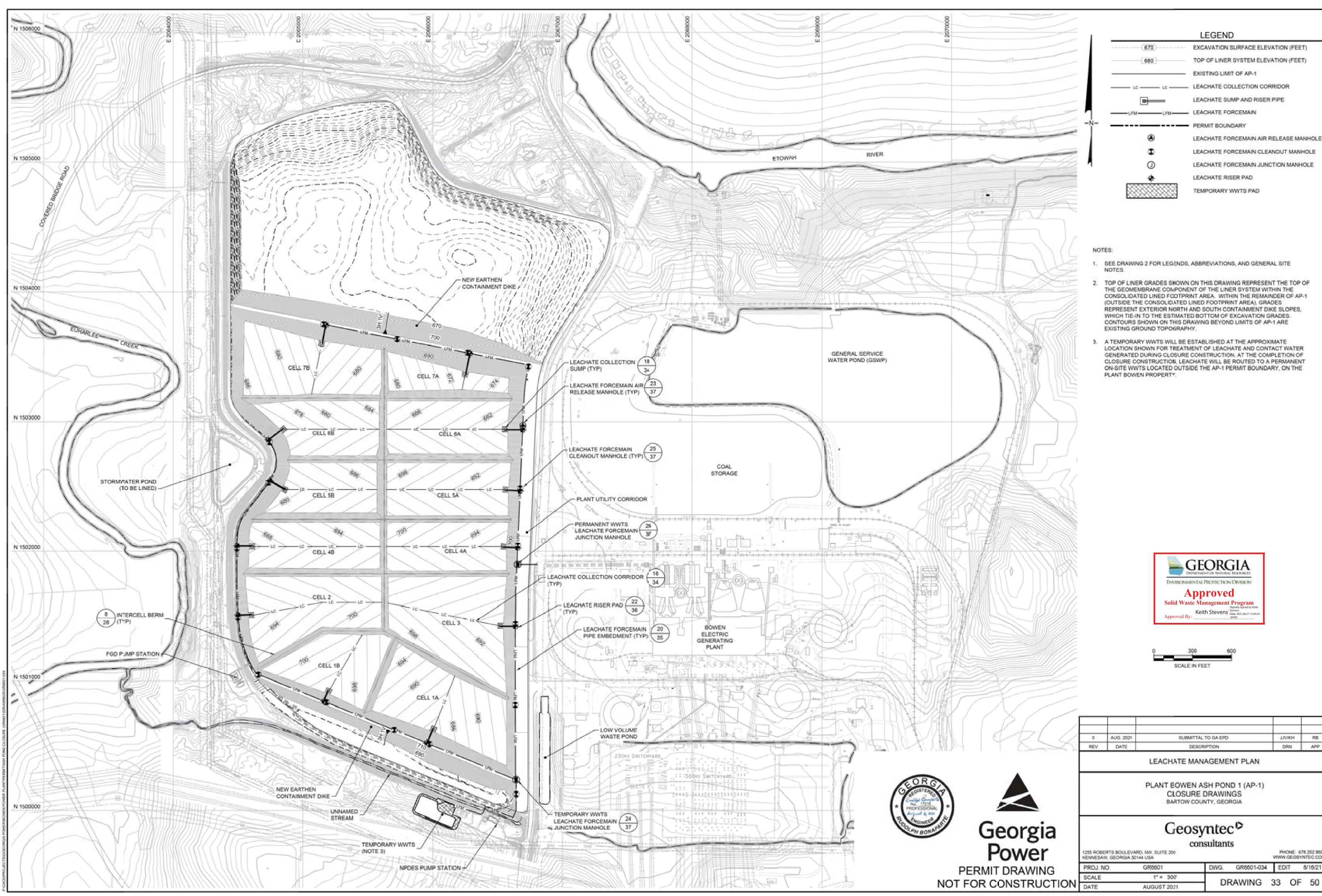
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PERIMETER SECTIONS II

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

1255 ROBERT	IS BOULEVARD.	NW, SUITE 200
	SECRICIA 30144	

Power	1255 ROBERTS BOUL KENNESAW, GEORG	LEVARD, NW, SUITE 200 IA 30144 USA	PHONE: 678 202 9500 WWW.GEOSYNTEC.COM
PERMIT DRAWING	PROJ, NO.	GR6601	DWG. GR6601-033 EDIT 08.16.21
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NOT FOR CONSTRUCTION	DATE	AUGUST 2021	DRAWING 32 OF 50

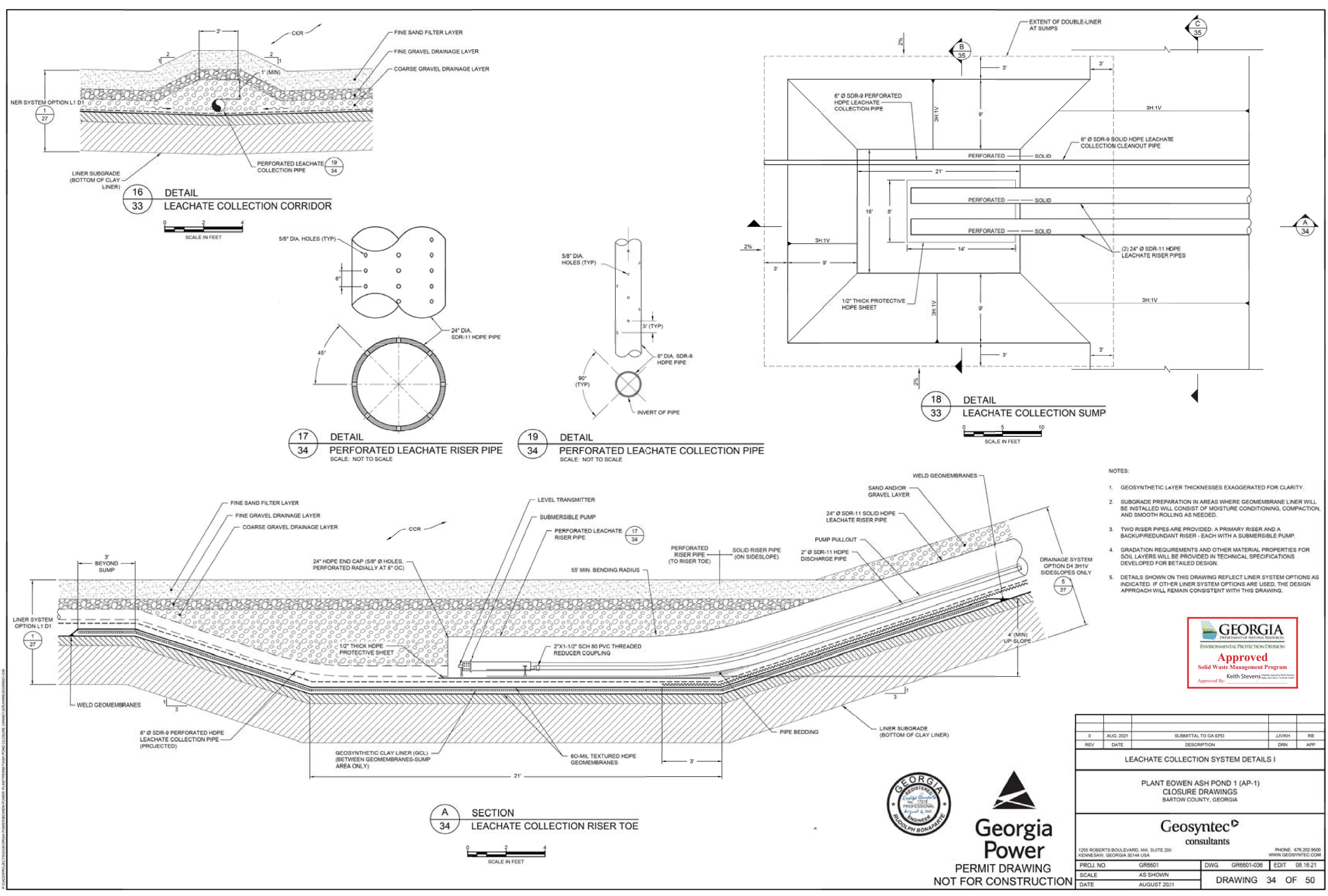


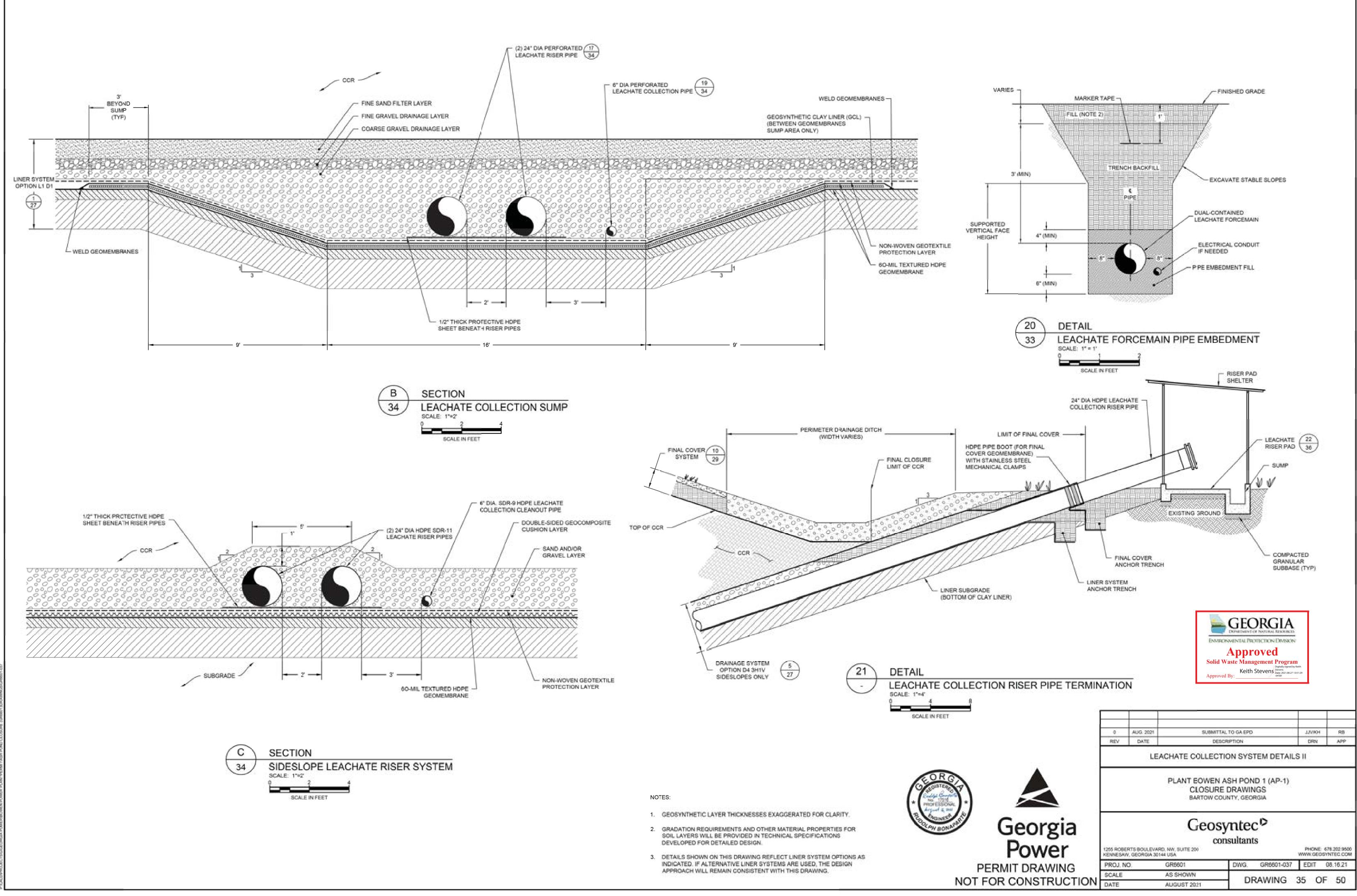
EXCAVATION SURFACE ELEVATION (FEET) TOP OF LINER SYSTEM ELEVATION (FEET) _____ LC _____ LEACHATE COLLECTION CORRIDOR LEACHATE SUMP AND RISER PIPE LEACHATE FORCEMAIN AIR RELEASE MANHOLE LEACHATE FORCEMAIN CLEANOUT MANHOLE LEACHATE FORCEMAIN JUNCTION MANHOLE

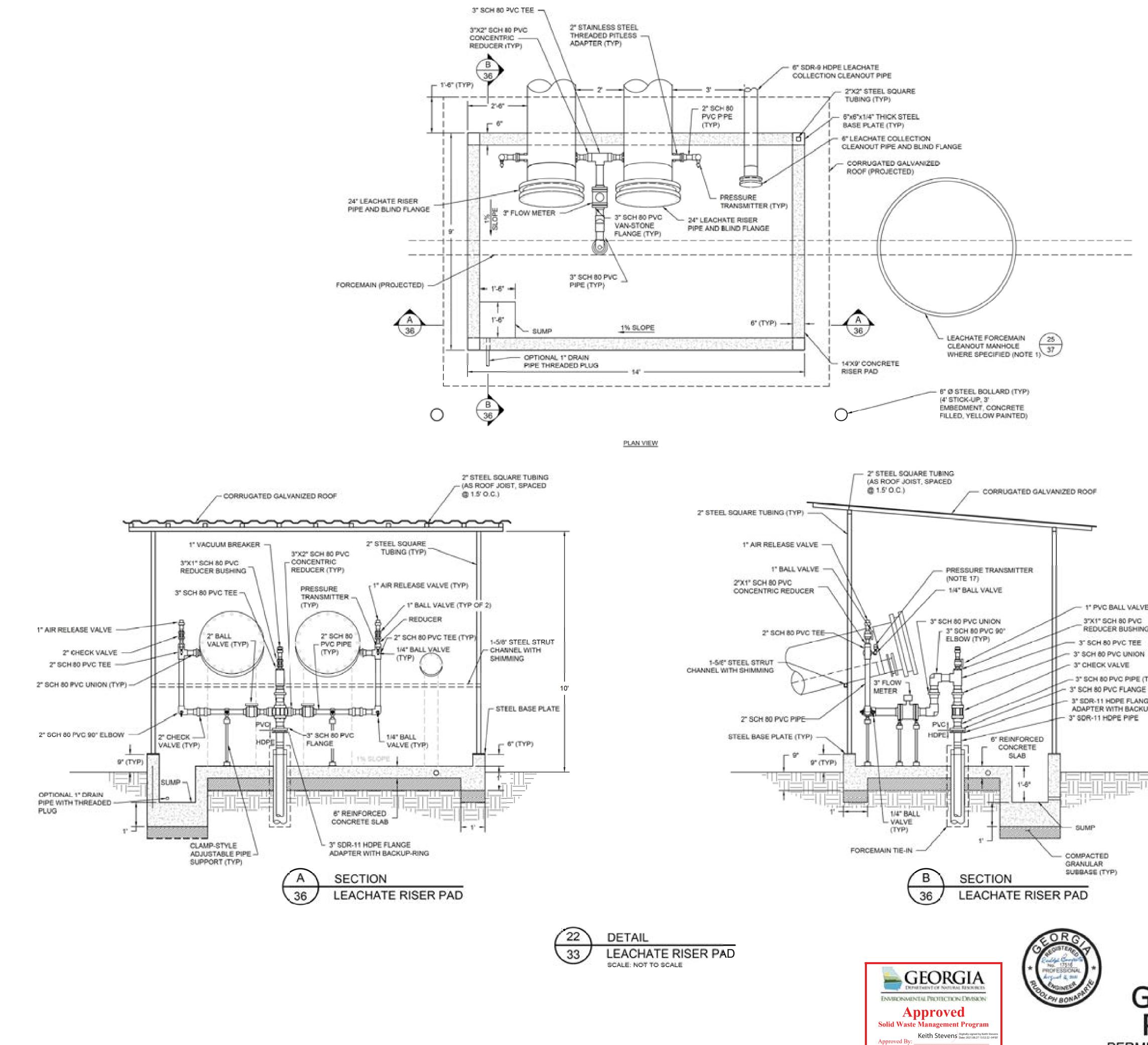
- 1. SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE
- TOP OF LINER GRADES SHOWN ON THIS DRAWING REPRESENT THE TOP OF THE GEOMEMBRANE COMPONENT OF THE LINER SYSTEM WITHIN THE CONSOLIDATED LINED FOOTPRINT AREA. WITHIN THE REMAINDER OF AP-1 (OUTSIDE THE CONSOLIDATED LINED FOOTPRINT AREA), GRADES 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
- 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

12/004 85 DRN APP

PHONE: 678 202 9500 WWW.GEOSYNTEC.COM DWG. GR6601-034 EDIT 8/16/21







			- SUMP
			COMPACTED GRANULAR SUBBASE (TYP)
641-0	AUG. 2021	0	
5 J	DATE	REV	PAD
LEACHATE COL	LE		2007
PLANT EO CLO BART			
Ge			Georgia Power
EVARD, NW, SUITE 250 A 30144 USA	RTS BOULEVA V. GEORGIA 30	1255 ROBE KENNESAN	Power
GR6601	0.	PROJ, N	PERMIT DRAWING
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AUGUST 2021		DATE	NOT FOR CONSTRUCTION

0	AUG. 2021	SUBMITTAL TO GA EPD	13/904	85
NOV.	DATE	DESCRIPTION	DBM	AP

PLANT EOWEN ASH POND 1 (AP-1)

CLOSURE DRAWINGS

BARTOW COUNTY, GEORGIA

Geosyntec[®]

consultants

PHONE: 678,202,9500 WWW.GEOSYNTEC.COM

DWG. GR6601-038 EDIT 08.16.21

DRAWING 36 OF 50

0	AUG. 2021	SUBMITTAL TO GA EPD	13/104	85
REV	DATE	DESCRIPTION	DRN	APP

0	AUG: 2021	SUBMITTAL TO GA EPD	12//104	- 86	
REV	DATE	DESCRIPTION	DRN	APP	

2. PIPING AND VALVES ARE CONCEPTUAL TO ILLUSTRATE INTENDED FUNCTIONALITY AND MAY BE REVISED DURING DETAILED DESIGN.

WITHIN RISER PADS, OR NEXT TO RISER PADS AS SHOWN.

OF CELLS 1A,4A,4B,AND 7A. ADDITIONAL CLEANOUTS MAY BE ADDED AS NEEDED. CLEANOUT MANHOLES MAY BE INSTALLED

1. CLEANOUT MANHOLES WILL BE USED AT RISER PAD AREA

NOTE:

- 1" PVC BALL VALVE

3"X1" SCH 80 PVC

- 3" SCH 80 PVC TEE

- 3" SCH 80 PVC UNION

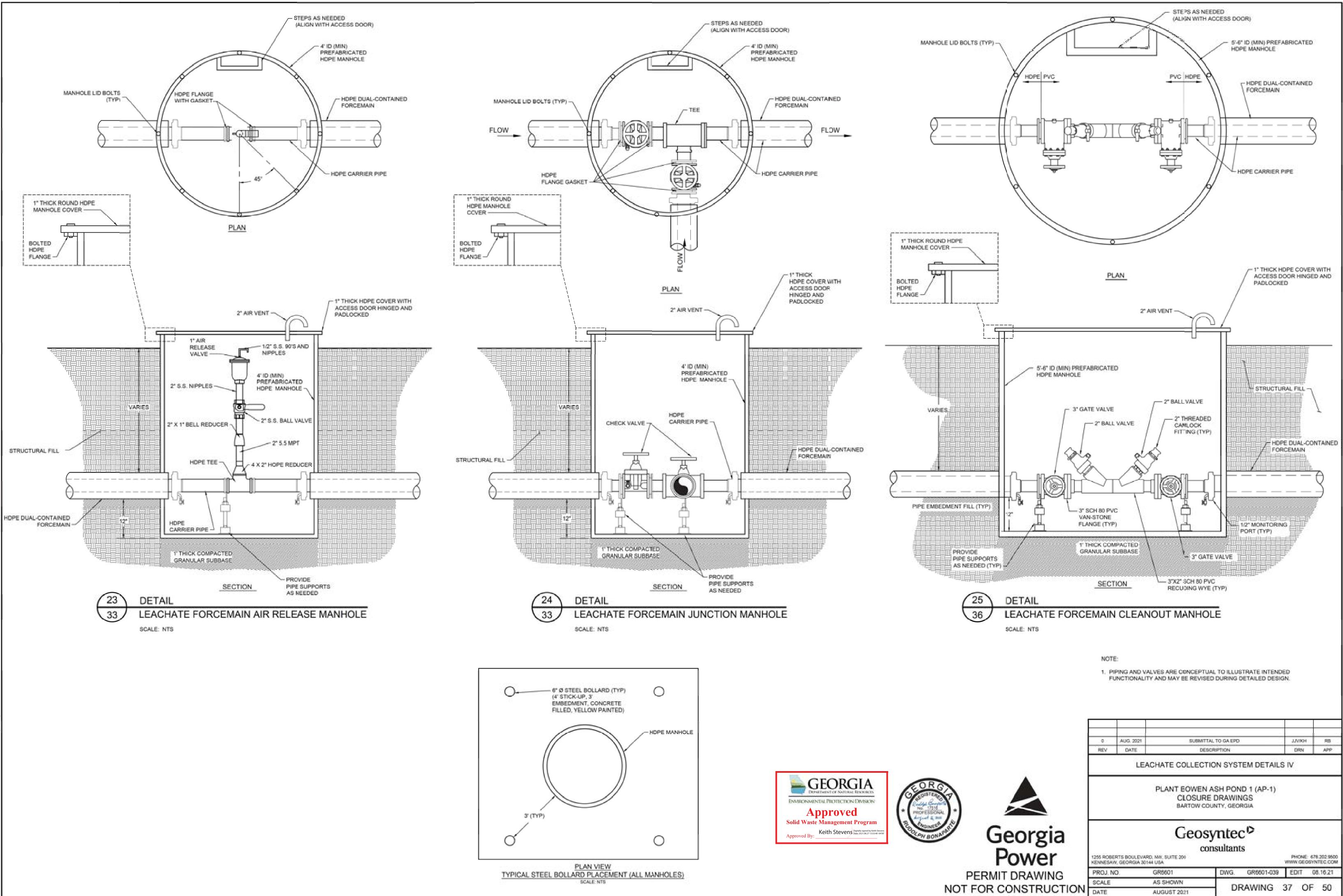
- 3" CHECK VALVE

REDUCER BUSHING

- 3" SCH 80 PVC PIPE (TYF)

3" SDR-11 HDPE FLANGE ADAPTER WITH BACKUP-RING

- 3" SDR-11 HDPE PIPE

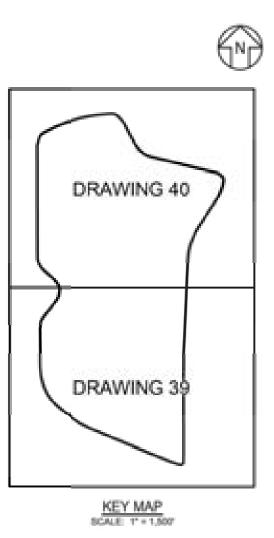


ABCTS/GRORIDA POWERBOWEN POWER PLANTYRINATIASH POND CLOBURE (GRIER) (DRAWINGGRIERICH-COR





LEGEND 710 FINISHED GROUND ELEVATION (FEET) (NOTE 1) FINAL COVER TOP DECK DIVERSION BERM FINAL COVER TOP DECK LET-DOWN CHANNEL DC DC FINAL COVER DOWNCHUTE CHANNEL FINAL COVER SIDESLOPE DRAINAGE BENCH STORMWATER CHANNEL FINAL COVER SIDESLOPE DRAINAGE BENCH STORMWATER CHANNEL



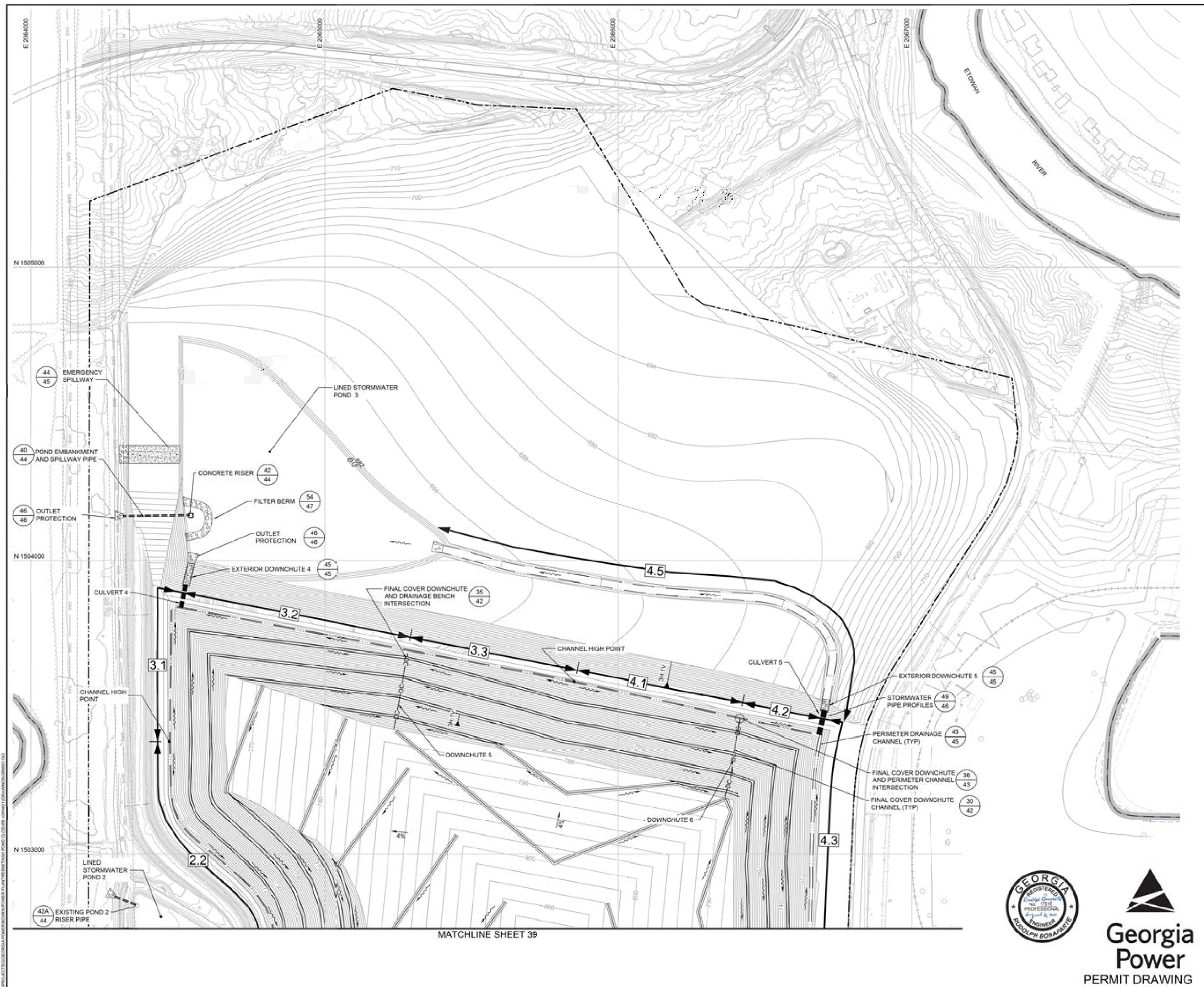
NOTES:

- SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
- FINAL CLOSURE GRADES SHOWN ON THIS DRAWING REPRESENT THE TOP OF THE FINAL COVER SYSTEM (SOIL-GEOSYNTHETIC COMPOSITE COVER) WITHIN THE FINAL COVER LIMITS. 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.
- IN ADDITION TO PERMANENT STORMWATER PONDS SHOWN, TEMPORARY LINED STORMWATER PONDS WILL BE UTILIZED DURING CONSTRUCTION AS NEEDED.

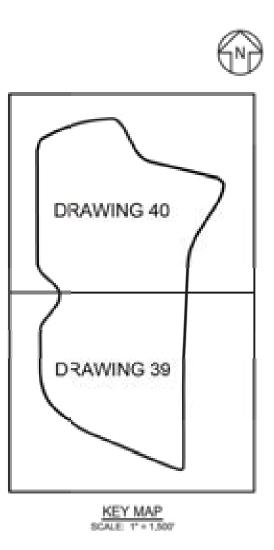


Geosyntec^o

	C	consultant	IS		
1255 ROBERTS BOU KENNESAW, GEORG	LEVARD, NW, SUITE 200 8A 30144 USA		3		678.202.9500 SYNTEC.COM
PROJ. NO.	GR6601	DWG.	GR6601-041	EDIT	8/16/21
SCALE	1" = 150'	DI	RAWING	39 O	F 50
DATE	AUGUST 2021		AWING	29 0	F 30



LEGEND FINISHED GROUND ELEVATION (FEET) (NOTE 1) 710 _____ FINAL COVER TOP DECK DIVERSION BERM _____ FINAL COVER TOP DECK LET-DOWN CHANNEL DC-DC-FINAL COVER DOWNCHUTE CHANNEL FINAL COVER SIDESLOPE DRAINAGE BENCH STORMWATER CHANNEL 4.4 STORMWATER CHANNEL DELINEATION



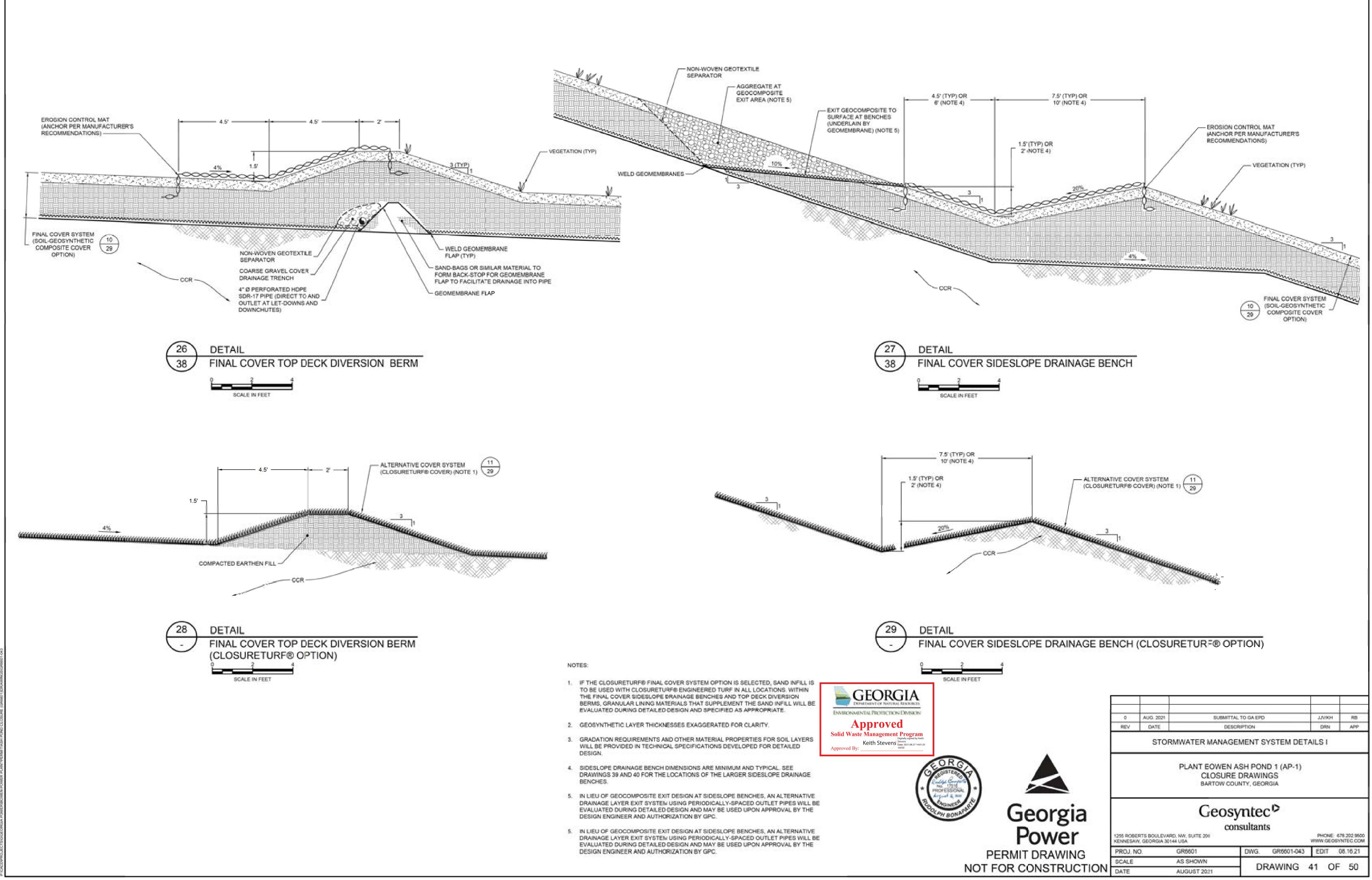
NOTES:

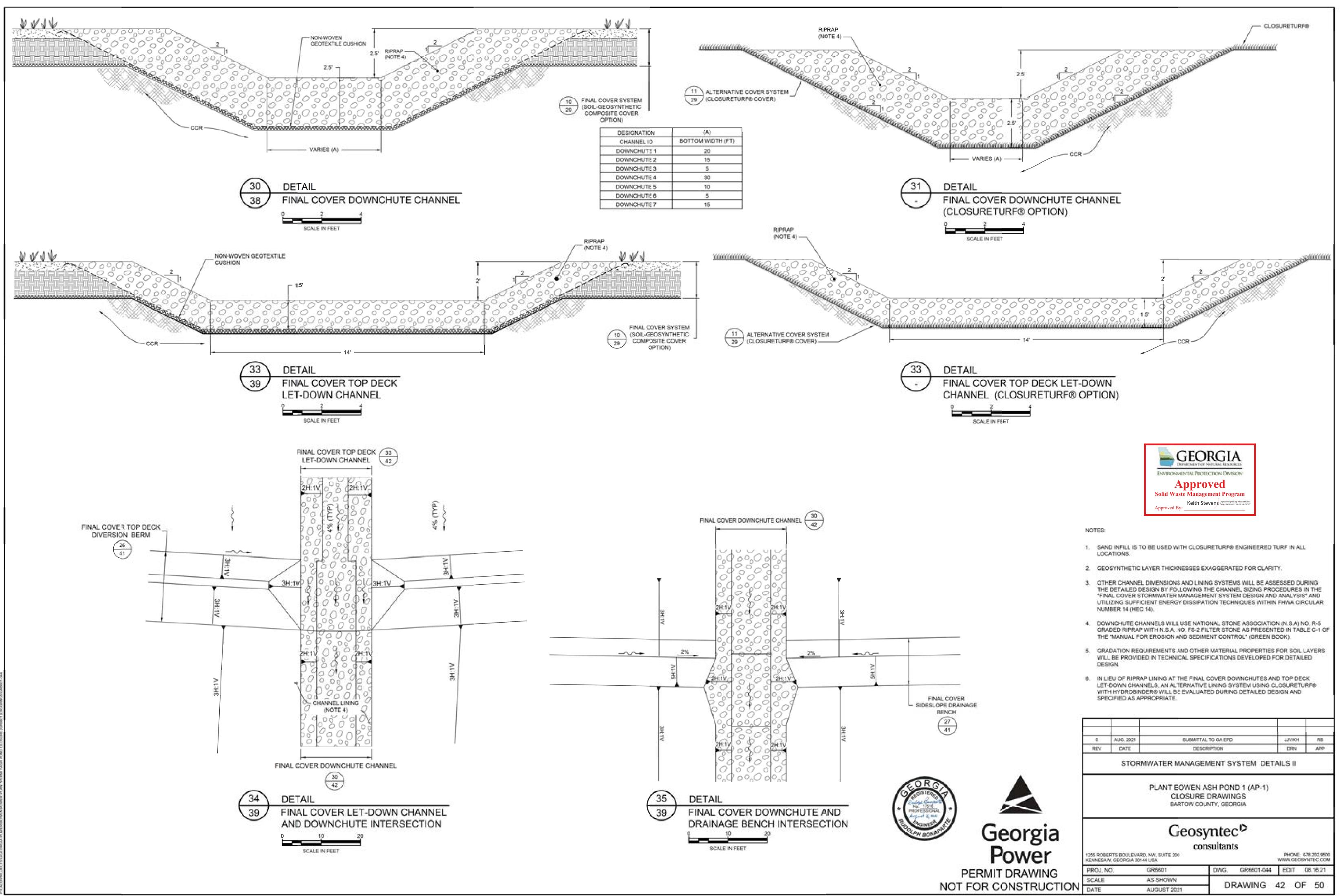
- 1. SEE DRAWING 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
- 2. FINAL CLOSURE GRADES SHOWN ON THIS DRAWING REPRESENT THE TOP OF THE FINAL COVER SYSTEM (SOIL-GEOSYNTHETIC COMPOSITE COVER) WITHIN THE FINAL COVER LIMITS. BEYOND THE FINAL COVER LIMITS, PROPOSED FINISHED GRADES ARE SHOWN, WHICH TIE-IN TO EXISTING GROUND TOPOGRAPHY AT THE LIMIT OF DISTURBANCE. SEE DRAWING 2, GENERAL SITE NOTE 19.
- 3. IN ADDITION TO PERMANENT STORMWATER PONDS SHOWN, TEMPORARY LINED STORMWATER PONDS WILL BE UTILIZED DURING CONSTRUCTION AS NEEDED.

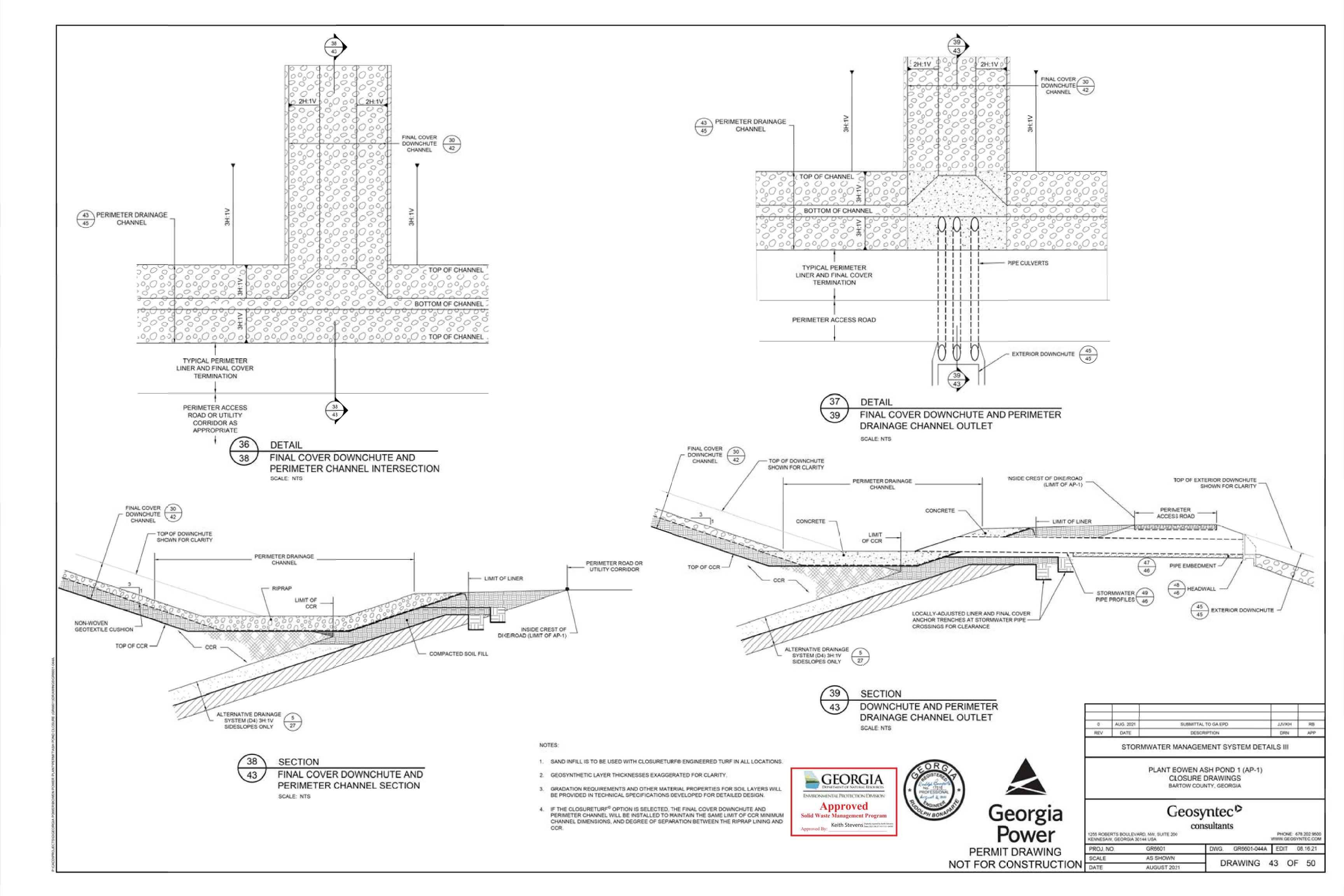


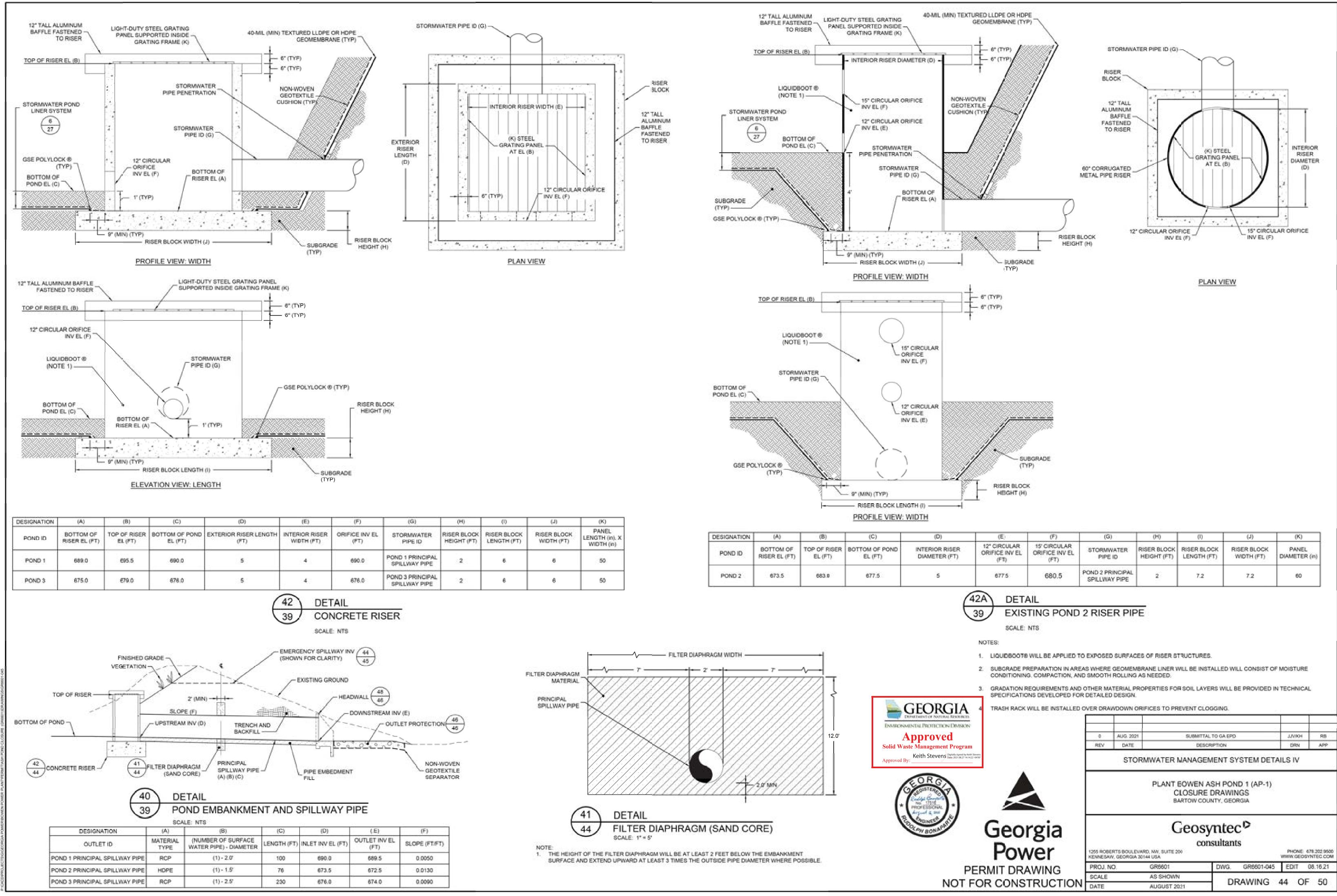
Geosyntec^o

D -		C	onsultant	S		
Power	1255 ROBERTS BOU KENNESAW, GEORG	LEVARD, NW, SUITE 250 IA 30144 USA				678.202.9500 SYNTEC.COM
PERMIT DRAWING	PROJ. NO.	GR6601	DWG.	GR6601-042	EDIT	8/16/21
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NOT FOR CONSTRUCTION	DATE	AUGUST 2021	יט ך	RAWING	40 O	F 50



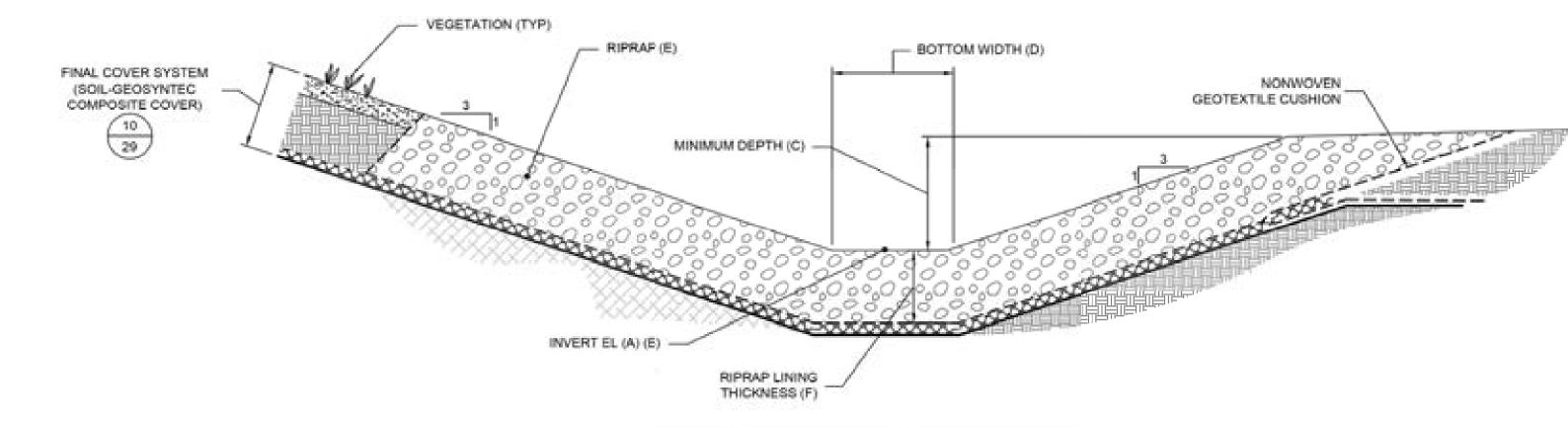






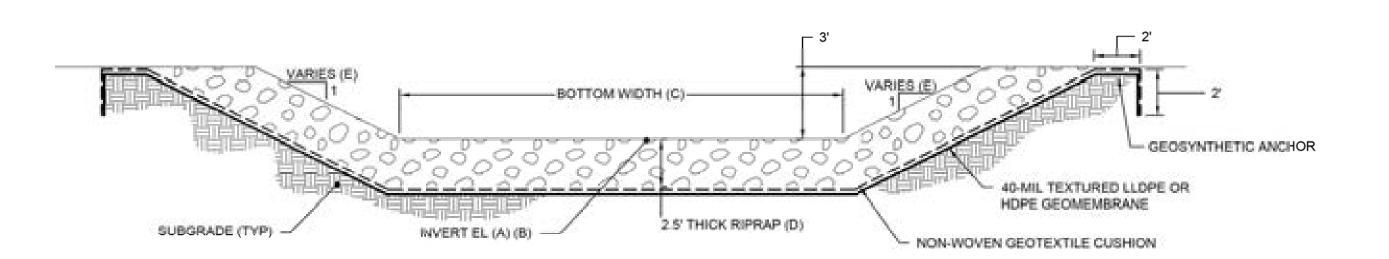
DESIGNATION	(A)	(B)	(C)	
POND ID	BOTTOM OF RISER EL (FT)	TOP OF RISER EL (FT)	BOTTOM OF POND EL (FT)	DIAN
POND 2	673.5	683.0	677.5	

	(H)	(1)	(J)	(K)
ļ	RISER BLOCK HEIGHT (FT)	RISER BLOCK LENGTH (FT)	RISER BLOCK WIDTH (FT)	PANEL LENGTH (in), X WIDTH (in)
Ľ.	2	6	6	50
i.	2	6	6	50



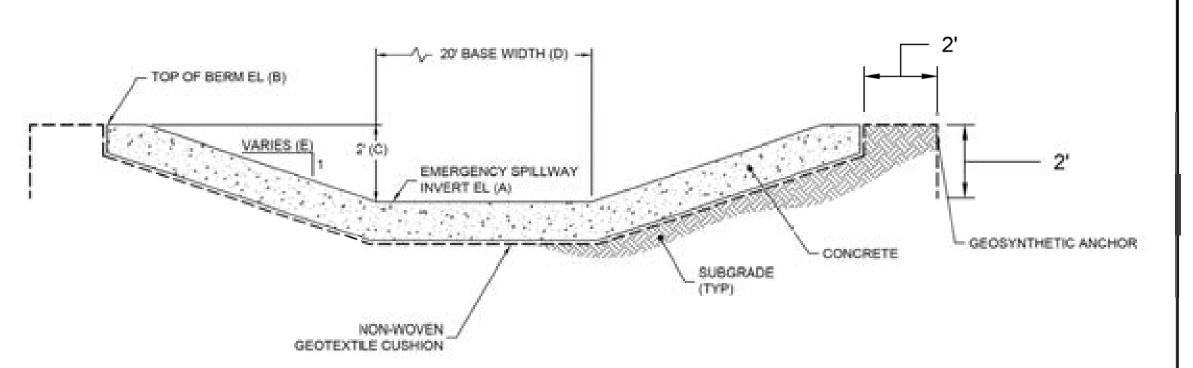
DESIGNATION			(A)	(B)	(C)	(D)	(E)	(F)
PERIMETER CHANNEL ID	LENGTH (FT)	SLOPE (FT/FT)	UPSTREAM INVERT EL (FT)	DOWNSTREAM INVERT EL (FT)	MIN DEPTH (FT)	BOTTOM WIDTH (FT)	RIPRAP STONE GRADE (FILTER STONE GRADE) (NOTE 2)	RIPRAP LINING "HICKNESS
1.1	934	0.005	7*6.86	712.19	2.5	3	N.S.A. No. R-4 (FS-2)	1.5
1.2	675	0.005	7:2.19	708.81	4	3	N.S.A. No. R-4 (FS-2)	1.5
1.3	674	0.005	7:3.00	709.62	2	3	N.S.A. No. R-4 (FS-2)	1.5
1.4	927	0.006	7:3.00	707.17	2.5	3	N.S.A. No. R-4 (FS-2)	1.5
1.5	1226	0.005	7:3.30	707.17	2.5	3	N.S.A. No. R-4 (FS-2)	1.5
2.1	1031	0.005	7:3.30	708.14	3	3	N.S.A. No. R-4 (FS-2)	1.5
2.2	872	0.005	7'2.92	708.14	2	3	N.S.A. No. R-4 (FS-2)	1.5
3.1	490	0.005	7.2.92	710.47	2	3	N.S.A. No. R-4 (FS-2)	1.5
3.2	807	0.005	7:0.97	706.93	3	3	N.S.A. No. R-4 (FS-2)	1.5
3.3	580	0.005	7:3.70	710.97	2	3	N.S.A. No. R-4 (FS-2)	1.5
4.1	575	0.005	713.70	710.60	2	3	N.S.A. No. R-4 (FS-2)	1.5
4.2	315	0.005	7:0.60	708.91	3	3	N.S.A. No. R-4 (FS-2)	1.5
4.3	1110	0.005	714.46	708.91	3	9	N.S.A. No. R-4 (FS-2)	1.5
4.4	480	0.005	716.86	714.46	2.5	3	N.S.A. No. R-4 (FS-2)	1.5
4.5	1815	0.010	695.49	676.83	3	20	N.S.A. No. R-5 (FS-2)	2.5

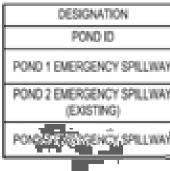




DESIGNATION			(A)	(8)	(Ĉ)	(D)	(Ξ)
EXTERIOR DOWNCHUTE	LENGTH (FT)	SLOPE (FT/FT)	UPSTREAM INVERT EL (FT)	DOWNSTREAM INVERT EL (FT)	BOTTOM WIDTH (FT)	RIPRAP STONE GRADE (FILTER STONE GRADE) (NOTE 2)	SIDE SLOPE (H:V)
ED-1	110	0.33 (NOTE 7)	709.0	790.0	15	N.S.A. No. R-5 (FS-2)	2:1
ED-2	110	0.33 (NOTE 7)	706.8	790.0	10	N.S.A. No. R-5 (FS-2)	2:1
ED-4	100	0.33	706.6	682.0	5	N.S.A. No. R-5 (FS-2)	 :1
ED-5	100	0.33	708.7	699.9	10	N.S.A. No. R-5 (FS-2)	5:1







NOTES:

- DETAILED DESIGN
- SMOOTH ROLLING AS NEEDED.



	(A)	(8)	(C)	0)	(E)
	SPILLWAY INV EL (FT)	TOP OF BERM EL (FT)	DEPTH (FT)	BASE WIDTH (FT)	SIDE SLOPE (HV)
ΑY	698	700	2	20	3.1
AY	685	687	2	20	10:1
мF	680	682	ż	20	10:1

44 39

DETAIL EMERGENCY SPILLWAY SCALE: NTS

1. GEOSYNTHETIC LAYER THICKNESSES EXAGGERATED FOR CLARITY.

N.S.A.No. REFERS TO NATIONAL STONE ASSOCIATION RIPRAP AND FILTER STONE GRADATIONS AS PRESENTED IN TABLE C-1 OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL" (GREEN BOOK).

3. OTHER CHANNEL DIMENSIONS AND LINING SYSTEMS WILL BE ASSESSED DURING THE DETAILED DESIGN BY FOLLOWING THE CHANNEL SIZING PROCEDURES IN THE "FINAL COVER STORMWATER MANAGEMENT SYSTEM DESIGN AND ANALYSIS" AND UTILIZING SUFFICIENT ENERGY DISSIPATION TECHNIQUES WITHIN FHWA CIRCULAR NUMBER 14 (HEC 14).

4. GRADATION REQUIREMENTS AND OTHER MATERIAL PROPERTIES FOR SOIL LAYERS WILL BE PROVIDED IN TECHNICAL SPECIFICATIONS DEVELOPED FOR

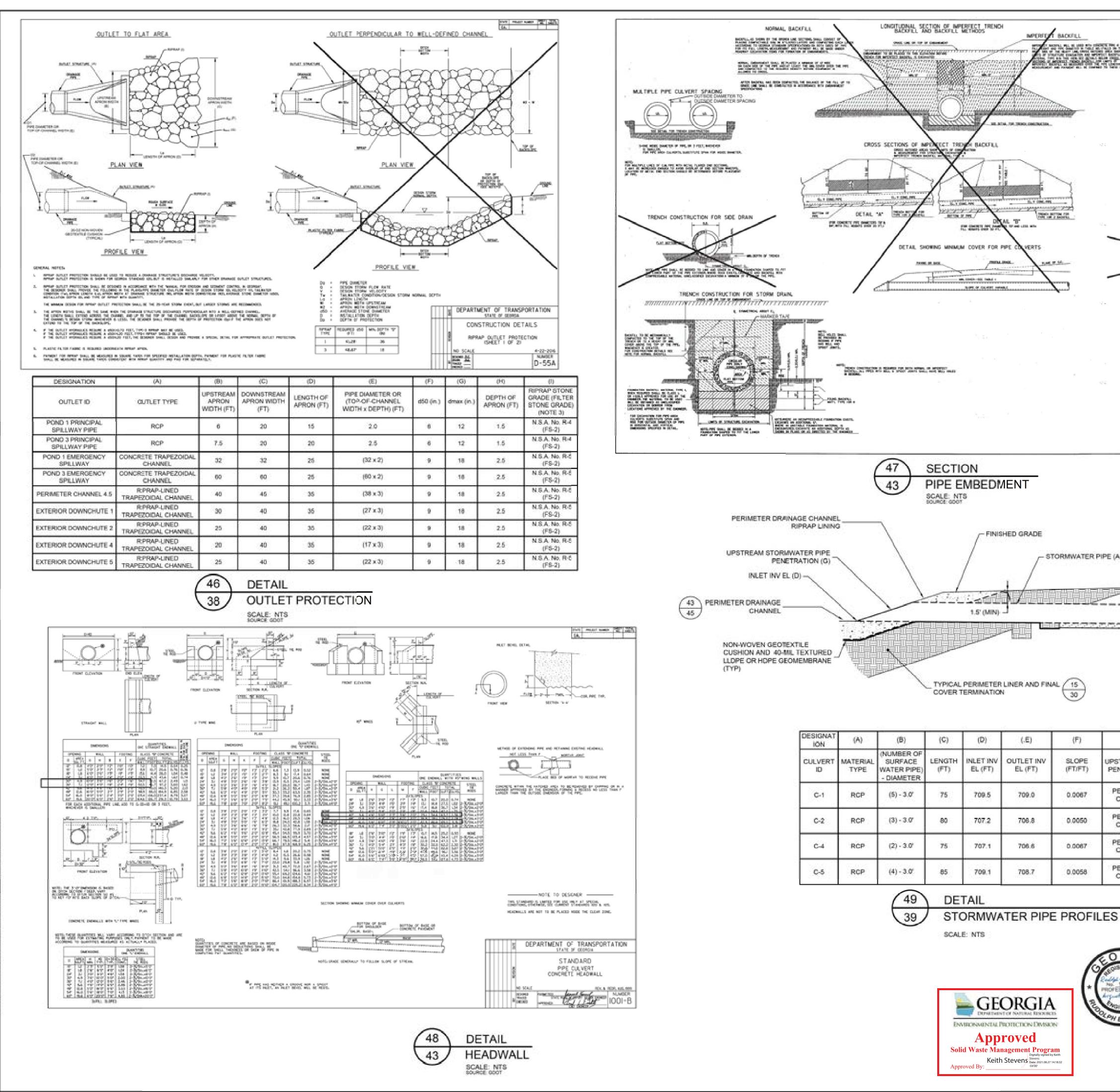
5. SUBGRADE PREPARATION IN AREAS WHERE GEOMEMBRANE LINER WILL BE INSTALLED WILL CONSIST OF MOISTURE CONDITIONING, COMPACTION, AND

6. PERIMETER DRAINAGE CHANNEL 4.5 IS CONSTRUCTED JUTSIDE OF THE NEW EARTHEN CONTAINMENT DIKE, AS SHOWN ON DWG 40, AND WILL BE CONSTRUCTED FOLLOWING THE EXTERIOR DOWNCHUTE DETAIL.

7. EXTERIOR DOWNCHUTE 1 AND EXTERIOR DOWNCHUTE 2 WILL BE CONSTRUCTED AT A MINIMUM SLOPE OF 1 PERCENT ALONG THE CORRIDOR BETWEEN THE NEW EARTHEN CONTAINMENT DIKE AND POND 1.

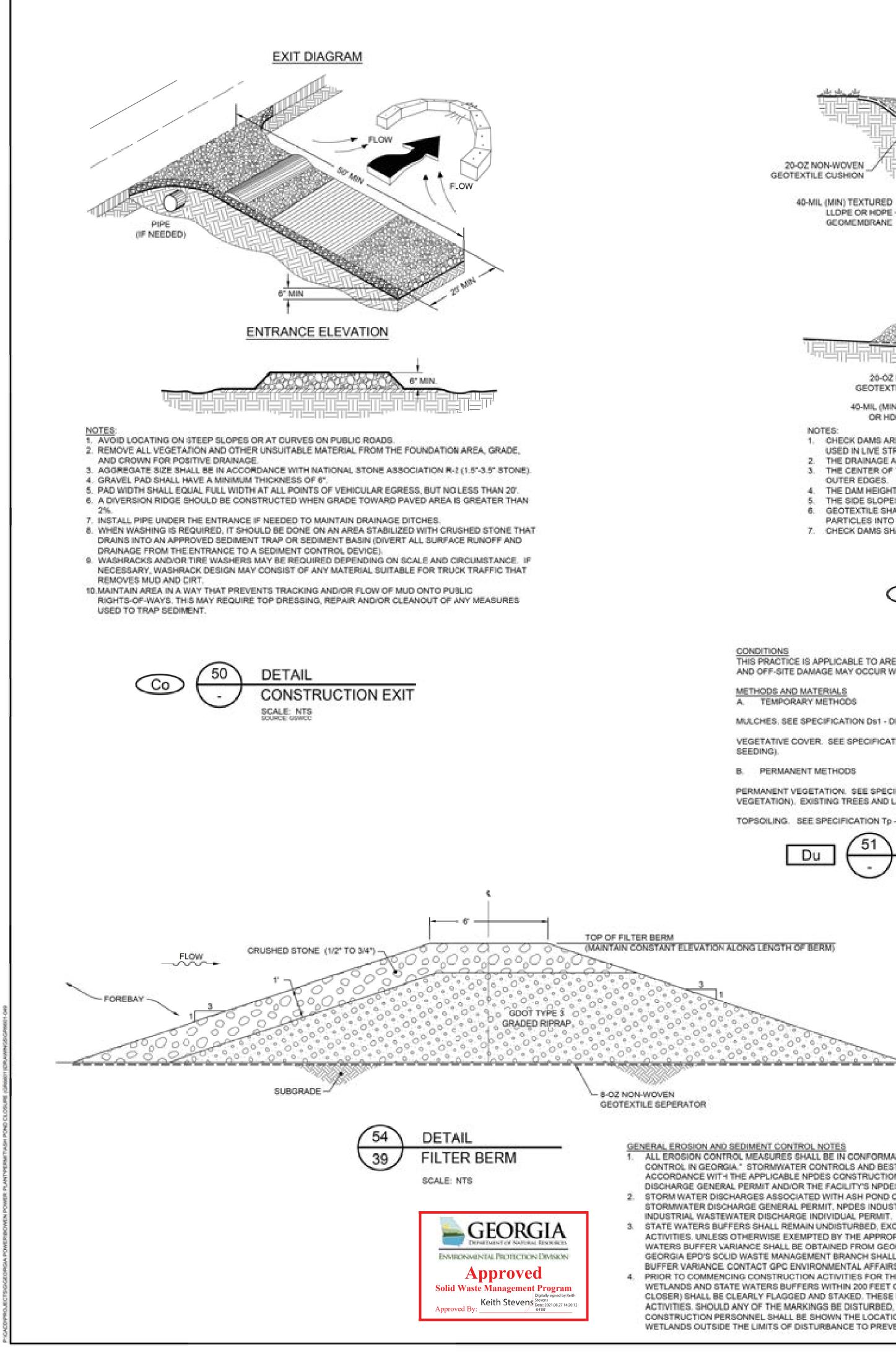
		0 REV	AUG. 2021 DATE		AL TO GA EPD ORIPTION		JJVIOH DRN	RB APP
))			STOP	PLANT EOWEN CLOSURE BARTOW CO	ASH PON	ID 1 (AP-1) IGS	uls v	
ý	Georgia Power		ERTS BOULEVA W, GEORGIA X	RD, NW, SUITE 200	ynteo nsultant			678.202.9500 SYNTEC.COM
D		PROJ, N	10	GR6601	DWG.	GR6601-046	EDIT	08.16.21

GEOSYNTEC.COM DWG. GR6601-046 EDIT 08.16.21 PERMIT DRAWING MKUU, NU WEADOR! NOT FOR CONSTRUCTION DATE AS SHOWN DRAWING 45 OF 50 AUGUST 2021

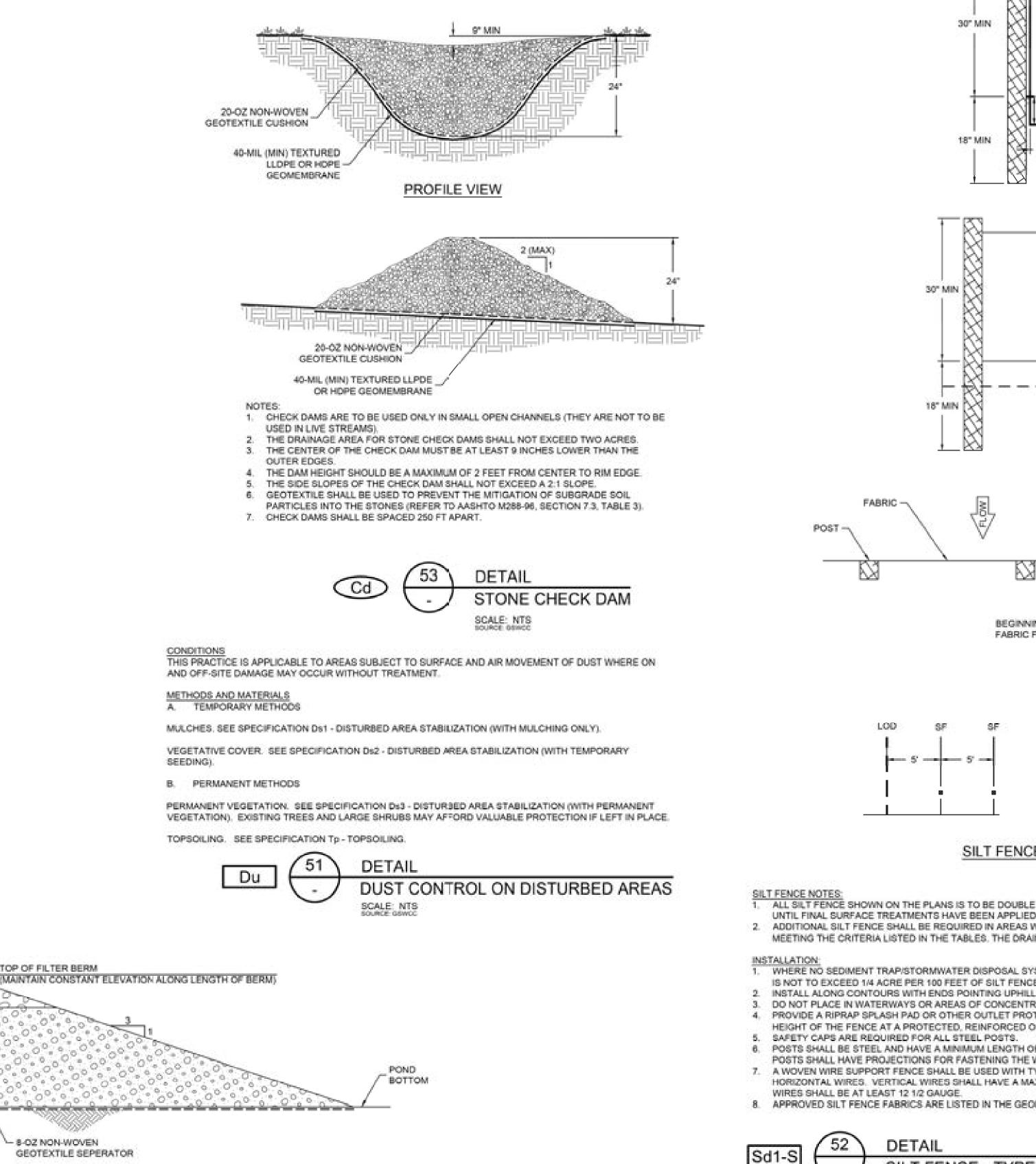


LICOSOCIONEM POWERBOWEN POREIR PLANTYERMITTAGH FOND CLOGUEL (CRIMINI (CRIMINE) (CRIMINE) CRIMINE) CRIMINE (CRIMINE)

GA.					
174 - 174 - 174 - 174 - 174 - 174 - 174 - 174 - 174 - 174 - 174 - 174 - 174 - 174 - 174 - 174 - 174 - 174 - 174					
				(S)	
	NUMBER OF PIPES	NOMINAL PIPE	MINIMUM TRENCH	OUTSIDE DIA TO OUTS	ADE
		DIAMETER (FT)	WIDTH (FT)	DIAMETER S (FT)	PACING
NOTE:	1	3	6	3	
2. ONLY ONE CLASS OF DESIGNESS OF PHE PALL BE SPECIFIED FOR EACH HOMENER LUCENESS IN CLASS OR THEOREESS WILL BE TECHNING OF THE RECEIPT OF FELL	3	3	20	3	
	4	3	26	3	
	5	3	33	3	
· · · · · · · · · · · · · · · · · · ·					
B DEPARTMENT OF TRANSPORTATION					
STANDARD CONCRETE & METAL PIPE CULVERTS					
SHEET IOF 3					
IND STALL A REDAUSEPT 200					
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n de la cela de la composition de la co La composition de la c					
DOWNSTREAM STORMWATER PIPE	- OUTLET IN	(EL (E)			
A) (B) (C)		and (m)			
PERIMETER ROAD	/	OF EXTERIOR DOWNCHU	1707		
	/ _ 10F	SHOWN FOR CLAR			
SLOPE (F)					
	2000				
40	120	0.0-			
40 HEADWALL					
45 EXTERIOR DOWNCH		200	20		
45 Extended Controller			\sim		
20					l
(G) (H)					
STREAM PIPE DOWNSTREAM PIPE					
INETRATION PENETRATION	NOTES:				
ERIMETER EXTERIOR CHANNEL CHANNEL TO BOND 1		ET PROTECTION WILL BE LI			LOPE
EXTERIOR EXTERIOR		MEMBRANE OVERLAIN WIT			
CHANNEL CHANNEL TO POND 1		ILL CONSIST OF MOISTURE			моотн
CHANNEL CHANNEL TO POND 3	3. N.S.A No. REF	ERS TO NATIONAL STONE			
PERIMETER EXTERIOR	GRADATIONS	AS PRESENTED IN TABLE O INTROL* (GREEN BOOK).			
CHANNEL DOWNCHUTE CHANNEL TO POND 3					:
	0 AUG. 20	21 SUBMITTA	L TO GA EPD	11/1/104	88
3	REV DATE	ter and the second s	RPTION	DRN	APP
	ST	ORMWATER MANAGE	MENT SYSTEM DE	TAILS VI	
				2	
			ASH POND 1 (AP-1) DRAWINGS		
(Tride ESSICHUL) *			UNTY, GEORGIA		
and the contraction of the contr		~			20
Georgia			ynteco		
Georgia Power	1255 ROBERTS BOVE	COI	nsultants	PHONE- A	18 202 9500
	PROJ. NO.		DWG. GR6601-04	WWW.GEOSY	
PERMIT DRAWING	SCALE	AS SHOWN			
NOT FOR CONSTRUCTION	DATE	AUGUST 2021	DRAWING	46 OF	50



CROSS SECTION



GENERAL EROSION AND SEDIMENT CONTROL NOTES

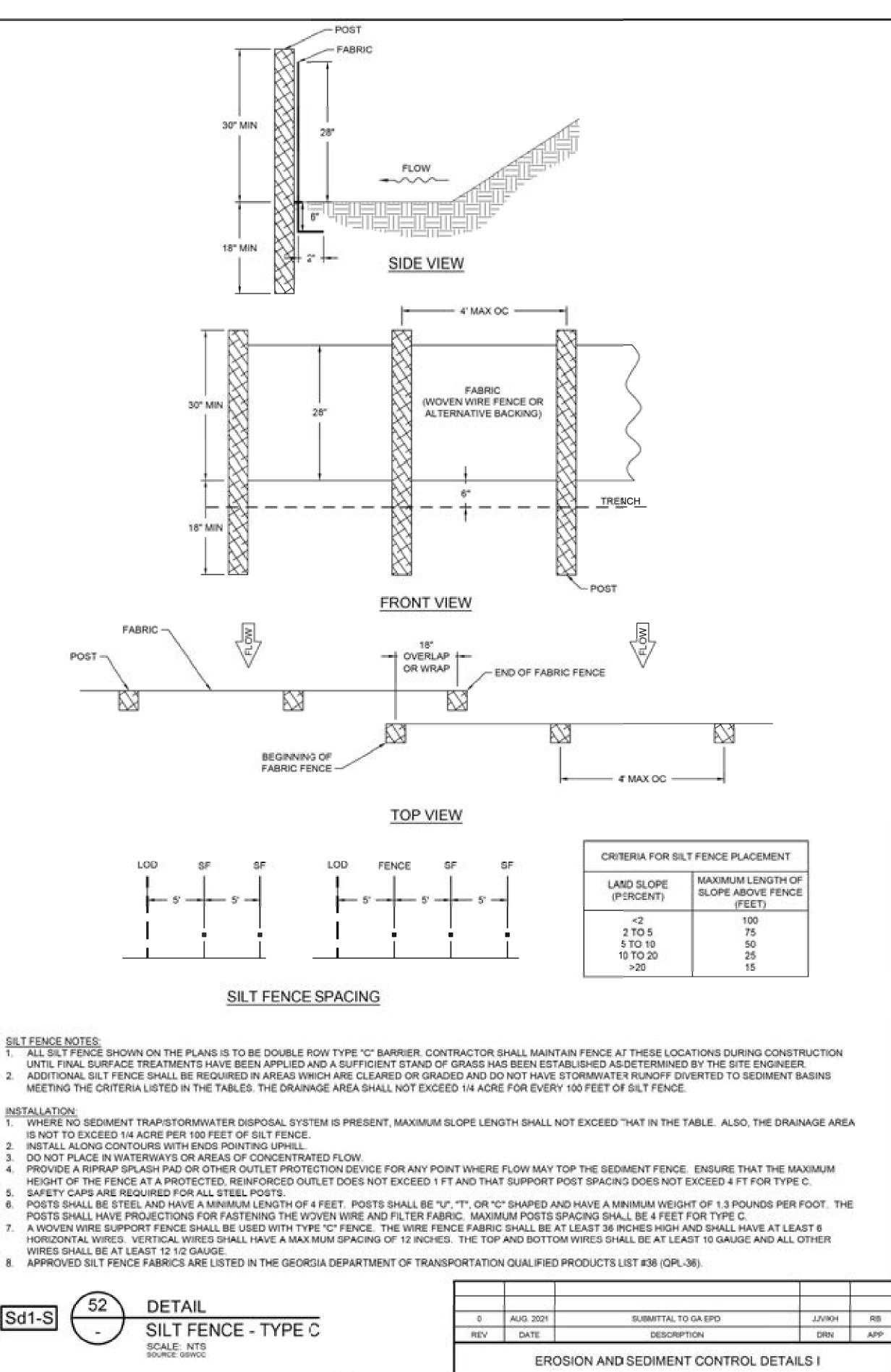
ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA." STORMWATER CONTROLS AND BEST MANAGEMENT PRACTICES SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE 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.

 PRIOR TO COMMEMCING 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 WATERS AND WETLANDS OUTSIDE THE LIMITS OF DISTURBANCE TO PREVENT HEAVY EQUIPMENT ENCROACHMENT INTO THESE AREAS.





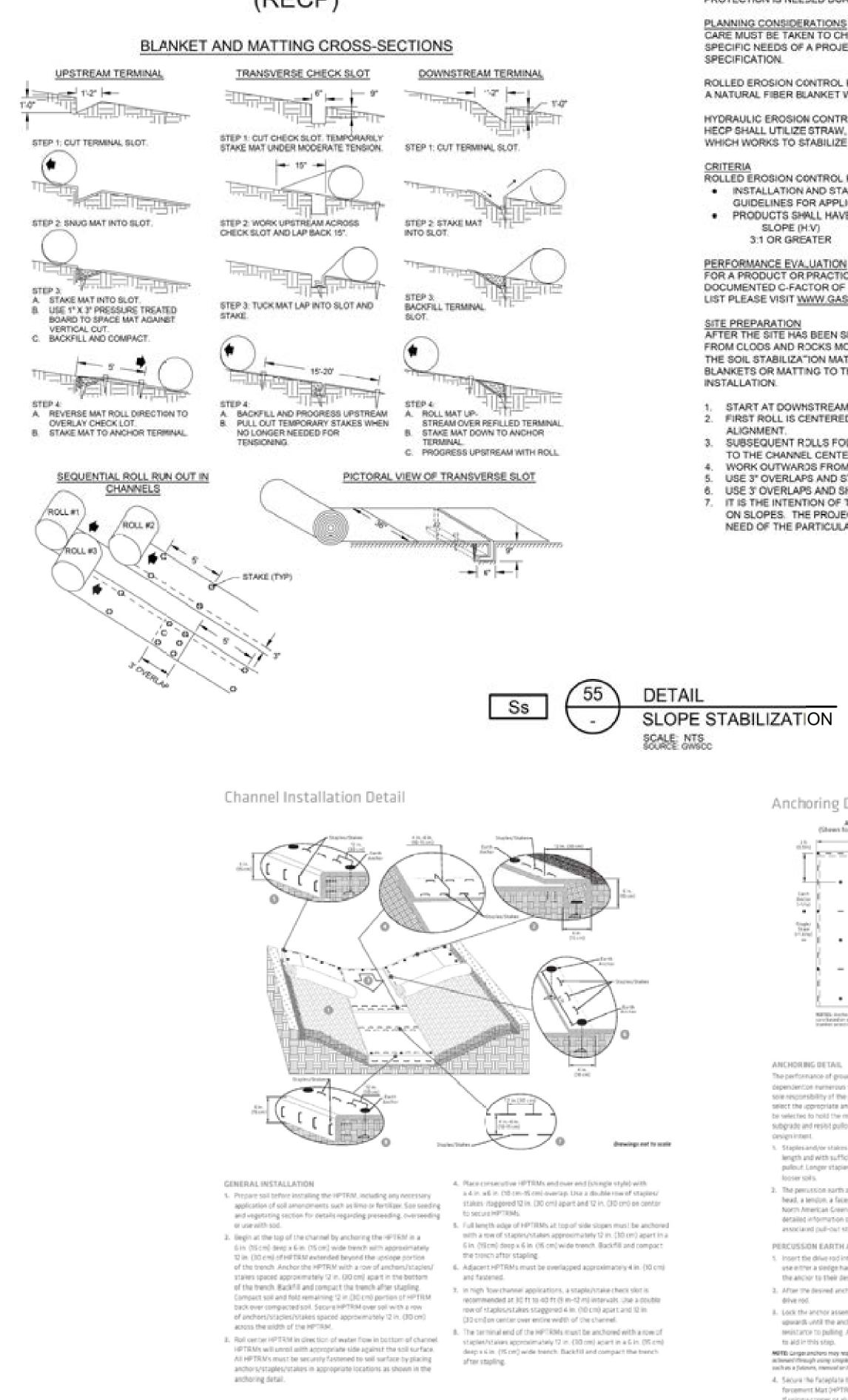
PLANT EOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA

Geosyntec^D consultants

Power	1255 ROBERTS BOU KENNESAW, GEORG	LEVARD, NW, SUITE 200	onsultarits	PHONE: 678.202.9500 WWW.GEOSYNTEC.COM
PERMIT DRAWING	PROJ, NO.	GR6601	DWG. GR6601-048	EDIT 08.16.21
	SCALE	AS SHOWN	DRAWING	47 OF 50
NOT FOR CONSTRUCTION	DATE	AUGUST 2021	- DRAWING	47 OF 50

Georgia

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)





NOTES

SLOPE STABILIZATION CAN BE APPLIED TO FLAT AREAS OR SLOPES WHERE THE EROSION HAZARD IS HIGH AND SLOPE PROTECTION IS NEEDED DURING THE ESTABLISHMENT OF VEGETATION.

PLANNING CONSIDERATIONS

CARE MUST BE TAKEN TO CHOOSE THE TYPE OF SLOPE STABILIZATION PRODUCT WHICH IS MOST APPROPRIATE FOR THE SPECIFIC NEEDS OF A PROJECT. TWO GENERAL TYPES OF SLOPE STABILIZATION PRODUCTS ARE DISCUSSED WITHIN THIS

ROLLED EROSION CONTROL PRODUCTS (RECP) A NATURAL FIBER BLANKET WITH SINGLE OR DOUBLE PHOTODEGRADABLE OR BIODEGRADABLE NETS.

HYDRAULIC EROSION CONTROL PRODUCTS (HECP) HECP SHALL UTILIZE STRAW, COTTON, WOOD OR OTHER NATURAL BASED FIBERS HELD TOGETHER BY A SOIL BINDING AGENT WHICH WORKS TO STABILIZE SOIL PARTICLES. PAPER MULCH SHOULD NOT BE USED FOR EROSION CONTROL.

ROLLED EROSION CONTROL PRODUCTS (RECPS) AND HYDRAULIC EROSION CONTROL PRODUCTS (HECPS): INSTALLATION AND STAPLING OF RECPS AND APPLICATION RATES FOR THE HECPS SHALL CONFORM TO MANUFACTURER'S GUIDELINES FOR APPLICATION

PRODUCTS SHALL HAVE A MAXIMUM C-FACTOR (ASTM D6459) FOR THE FOLLOWING GRADE:

C-FACTOR (MAX) SLOPE (H.V) 3:1 OR GREATER 0.080

FOR A PRODUCT OR PRACTICE TO BE APPROVED AS SLOPE STABILIZATION, THAT PRODUCT OR PRACTICE MUST HAVE A DOCUMENTED C-FACTOR OF 0.080, AS SPECIFIED BY GSWCC. FOR COMPLETE TEST PROCEDURES AND APPROVED PRODUCTS. LIST PLEASE VISIT WWW.GASWCC.GEORGIA.GOV

SITE PREPARATION AFTER THE SITE HAS BEEN SHAPED AND GRADED TO THE APPROVED DESIGN, PREPARE A FRIABLE SEEDBED RELATIVELY FREE FROM CLODS AND ROCKS MORE THAN ONE INCH IN DIAMETER, AND ANY FOREIGN MATERIAL THAT WILL PREVENT CONTACT OF THE SOIL STABILIZATION MAT WITH THE SOIL SURFACE. SURFACE MUST BE SMOOTH TO ENSURE PROPER CONTACT OF BLANKETS OR MATTING TO THE SOIL SURFACE. IF NECESSARY, REDIRECT ANY RUNOFF FROM THE DITCH OR SLOPE DURING

1. START AT DOWHSTREAM TERMINAL AND PROGRESS UPSTREAM.

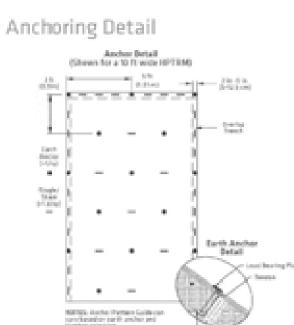
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN

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.

7. IT IS THE INTENTION OF THIS SECTION TO ALLOW INTERCHANGEABLE USE OF RECPS AND HECPS FOR EROSION PROTECTION ON SLOPES. THE PROJECT ENGINEER SHOULD SELECT THE TYPE OF EROSION CONTROL PRODUCT THAT BEST FITS THE NEED OF THE PARTICULAR SITE.



ANCHORING DETAIL

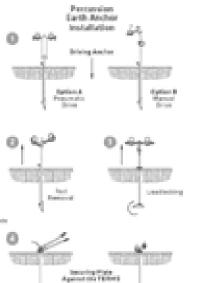
The performance of ground anchoing devices is highly dependention numerous situ/project specific variables. It is the sole responsibility of the project engineer and/or contractor to select the uppropriate anchor type and length. Anchoring shall be selected to hold the mat in intimate contact with the soil subgrade and resist pullout in accordance with the project's

design infant. 5. Staples and/or stakes should be at least 6 in. (15 or) in length and with sufficient ground penetration to resist pullout. Longer staples and/or stakes may be needed in looser soils.

- The percession earth anchor assembly consists of an anchor. head, a tendon, a faceplate, and an end-piece device. See North American Green* Earth Anchor specification for detailed information on assembly components and associated pull-out strength.
- PERCUSSION EARTH ANCHOR INSTALLATION 1. Insert the drive rod into the assembly's anchor head then use either a sledge hammer or vibratory hammer to prive
- the ancior to their desired depth. 2. After the desired anchor depth is achieved, retract the drive rod.
- 3. Lock the anchor assembly by swiftly pulling the cable upwards until the anchor head rotates as signaled by sudden sesistance to pulling. A hooked setting tool may be used to aid in this step.

MOTE Cargos anchors may require more fonce to set the anchor. This can be achieved through using simple mechanical equipment for greater leavespe. such as a futures, menual ar hydrouds Jack, which, ar post poller.

4. Secure the faceplate to the High-performance Turf Reinforcement Mat (HPTRM) surface by locking the end-piece. If assings copper or aluminum stop, oring the ferrule to





secure. If using a self-tensioning end-piecs (grip or wedge grip) set by simply tightening the end-cleve against the faceplate. If desired, out the remaining cade assembly. above end-piece, to desired length. SEEDING AND VEGETATING

- When using a Composite Turf Reinforcement Mat (C-TRM) with fiber components:
- 1. Pre-seed prepared noils prior to the installation of the GTRM. Install matting as directed. GTRM does not require soil infill or a top dressing of seed. Overseeding may be done as a secondary form of seeding.
- 2. Soci may be installed in place of seeding on top of the C-TRM. Additional staking of sod is recommended in high-flow conditions. Socied areas should be irrigated until rooting through the mait and into subgrade occurs

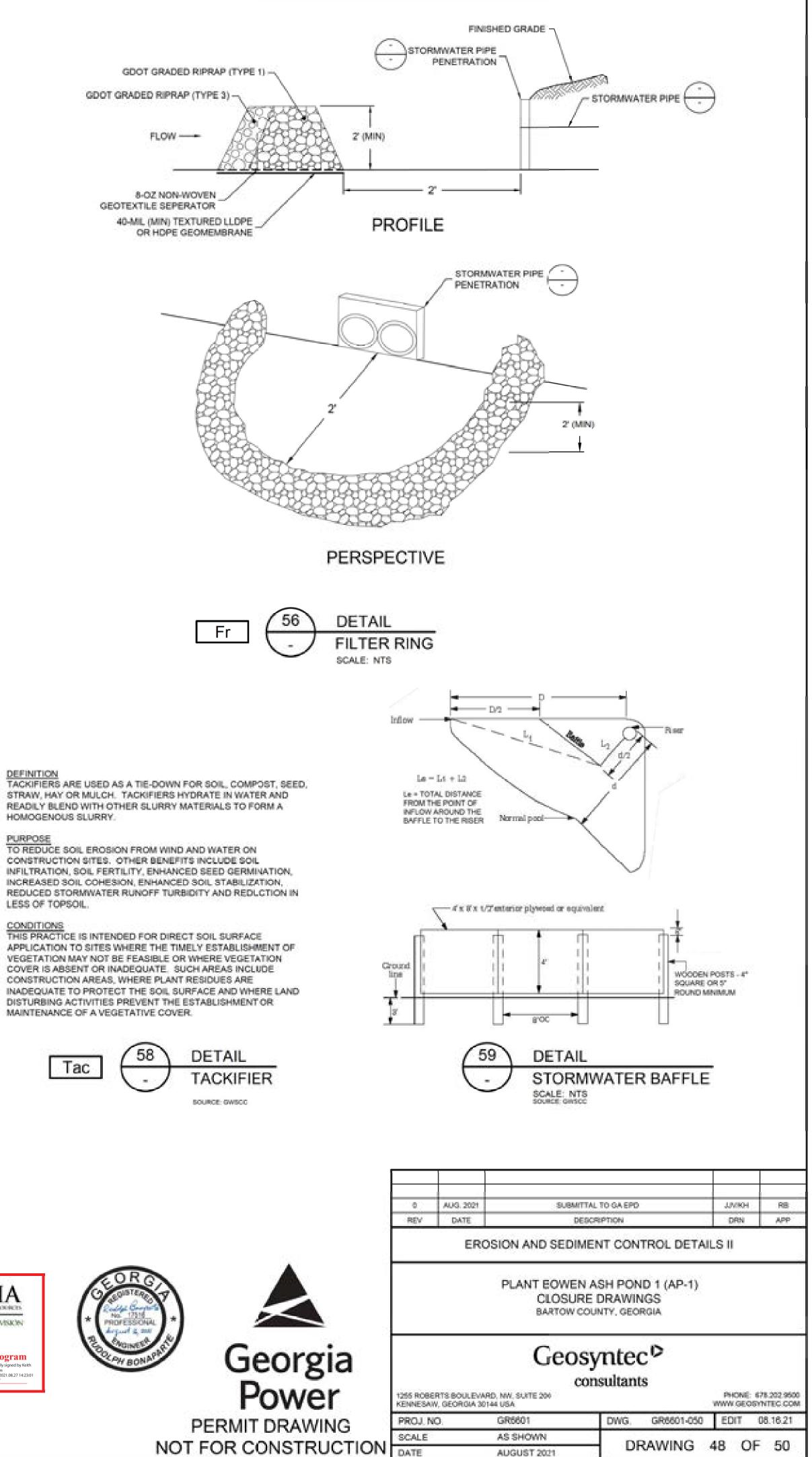
When using a woven HPTRM:

- 1. Install the HPTRM as directed prior to seed and soil filling. 2. Place seed into the installed HETRM. After seeding, spread a layer of fine soil into the mat. Using the flat side of a rake. broom or other tool, completely fill the work. Smooth soil-fill in order to just expose the top of the HPTRM matrix. Go not place excessive soil above the mat.
- 3. Additional seed, hydraulic mulching of the use of a temporary Erosion Control Blanket (ECE) can be applied over the soll-filled mat for increased protection.
- 4. Sol may be installed in place of seeding. Install HPTRM, and soll-fill as eutlined above. Place sod directly onto the soll-filled HPTRM. Additional staking of sid is recommended in high-flow conditions. Sodded areas should be irrigated until rooting through the mat and into subgrade occurs. 5. Consult with a manufacturer's technical separametative
- for installation assistance if unique conditions apply.

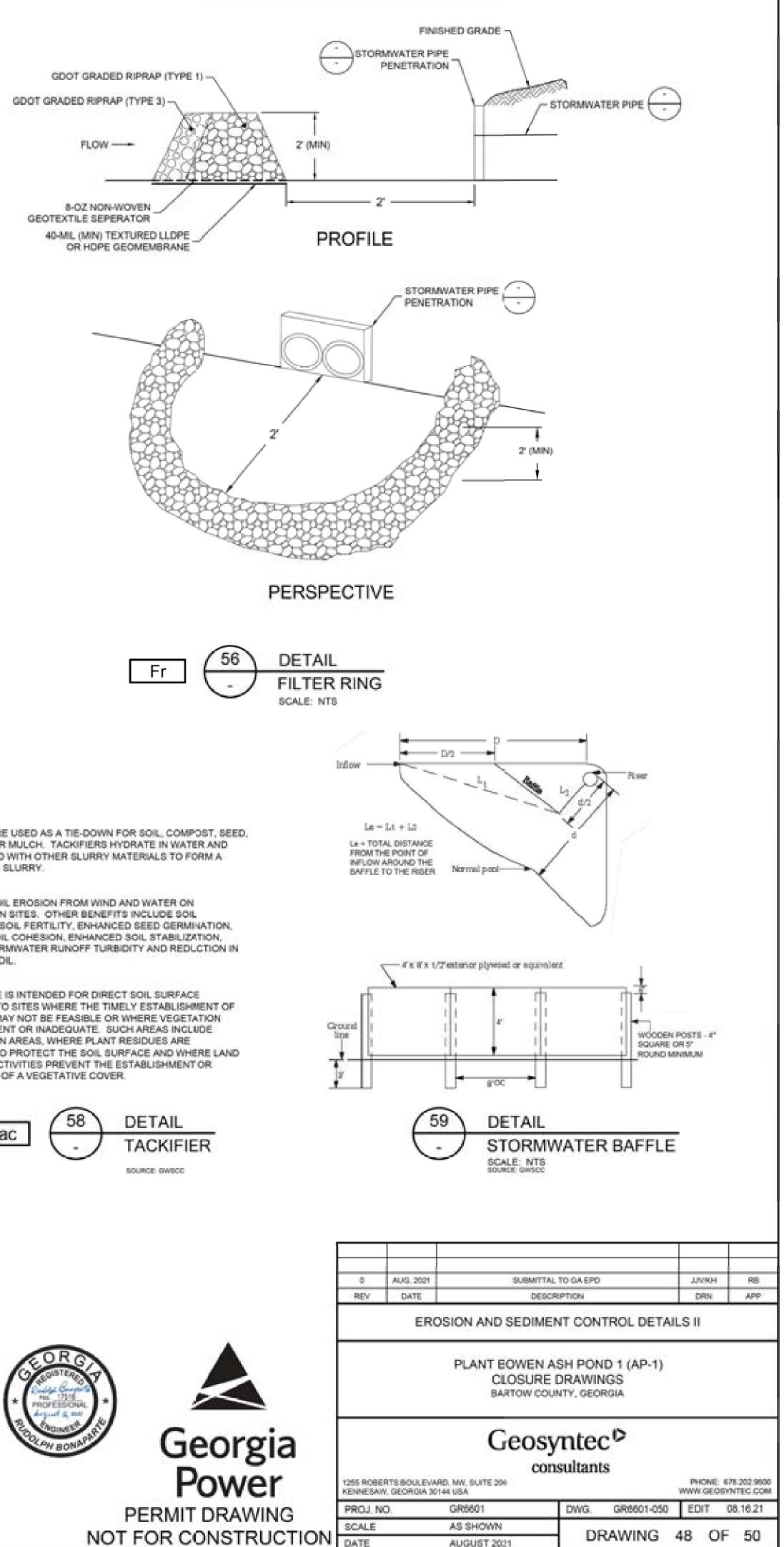
DEFINITION HOMOGENOUS SLURRY.

LESS OF TOPSOIL.

CONDITIONS







TURF REINFORCEMENT MATTING

REQUIREMENT FOR REGULATORY CONPLIANCE

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH (DEPENDING ON THE MATERIAL USED), ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE.

MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS.

IF ANY AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED. REFER TO Ds2-DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING), AND Ds3 -DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION).

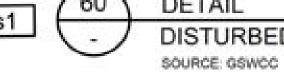
SPECIFICATIONS.

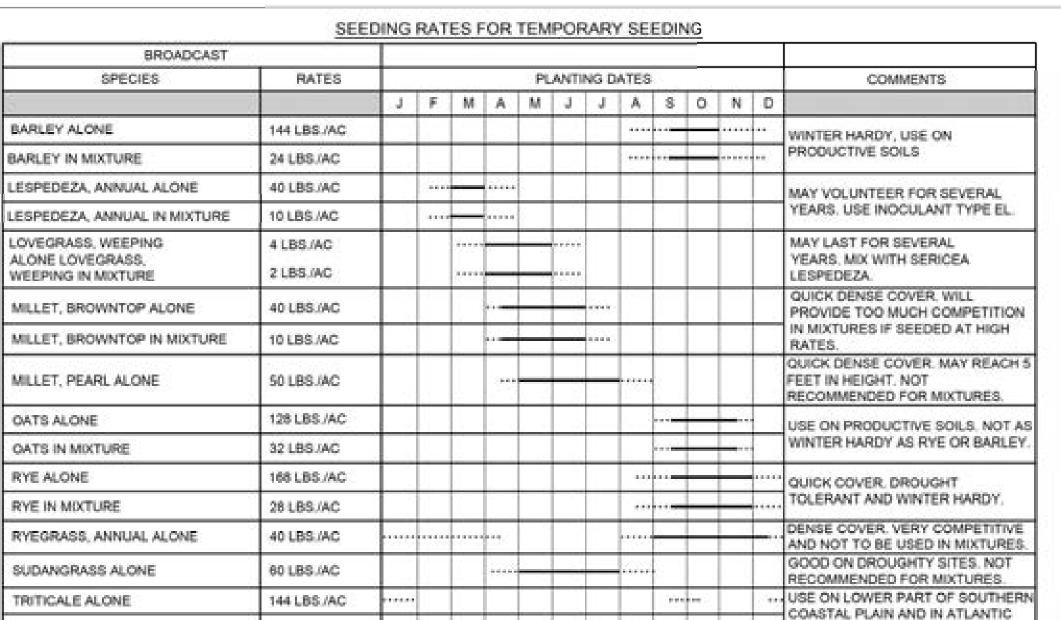
MULCHING WITHOUT SEEDING: THIS STANDARD APPLIES TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

SITE PREPARATION

 GRADE TO PERMIT THE USE OF EQLIPMENT FOR APPLYING AND ANCHORING MULCH. 2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES

- AND SEDIMENT BARRIERS.
- 3. LOOSEN COMPACTED SOIL TO A MIMIMUM DEPTH OF 3 INCHES.
- MULCHING MATERIALS
- SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED.
- 1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
 - 60 Ds1





WHEAT WITH OTHER PERENNIALS 30 LBS /AC SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.

24 LBS/AC

180 LBS:/AC

TRITICALE IN MIXTURE

WHEAT ALONE

DEFINITION THE ESTABLISHMENT OF TEMPORARY VEGETATION COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.

CONDITIONS

TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE THE FIRST PASS WITH SEED AND SOME HYDRAULIC MULCH, THEN TOPPED AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED. WITH THE REMAINING REQUIRED APPLICATION RATE. NOTE: SOME SPECIES OF TEMPORARY VEGETATION ARE NOT APPROPRIATE FOR COMPANION CROP PLANTINGS BECAUSE OF THEIR POTENTIAL TO OUT-COMPETE THE DESIRED SPECIES (E.G. ANNUAL RYEGRASS). CONTACT NATURAL RESOURCE CONSERVATION SERVICE OR THE LOCAL SOIL WATER CONSERVATION DISTRICT FOR MORE INFORMATION.

SPECIFICATIONS GRADING AND SHAPING

EXCESSIVE WATER RUNOFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS. NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE MULCHING USED.

SEEDBED PREPARATION

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED, OR OTHERWISE SCARIFIED TO PROVIDE & PLACE FOR SEED TO LEDGE AND GERMINATE.

LIME AND FERTILIZER

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR pH.

DETAIL



Ds2

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) SOURCE: GSWCC

QUICK ACTING LIME SHOULD BE INCORPORATED TO MODIFY pH DURING THE GERMINATION PERIOD. BIO STIMULANTS SHOULD ALSO BE CONSIDERED WHEN THERE IS LESS THAN 3% ORGANIC MATTER IN THE SOIL. GRADED AREAS REQUIRE LIME APPLICATION. SOILS MUST BE TESTED TO DETERMIN REQUIRED AMOUNTS OF FERTILIZER AND AMENDMENTS. FERTILIZER SHOUL BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK. RIPPER, OR CHISEL. ON SLOPES TOO STEEP FOR OR INACCESSIBLE TO EQUIPMENT, FERTILIZER SHALL BE HYDRAULICALLY APPLIED, PREFERABLY

- COASTAL FLATWOODS ONLY.

WINTER HARDY.

Section 2.

purit-t-t-

SEEDING

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INC DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETE SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDED B HAND, SEE THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGE LATEST EDITION, FOR MORE INFORMATION.

TEMPORARY VEGETATION CAN, IN MOST CASES: BE ESTABLISHED WITHOUT THE USE OF MULCH, PROVIDED THERE IS LITTLE TO NO EROSION POTENTIAL HOWEVER, THE USE OF MULCH CAN OFTEN ACCELERATE AND ENHANCE GERMINATION AND VEGETATION ESTABLISHMENT. MULCH WITHOUT SEEDIN SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO Ds1-DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

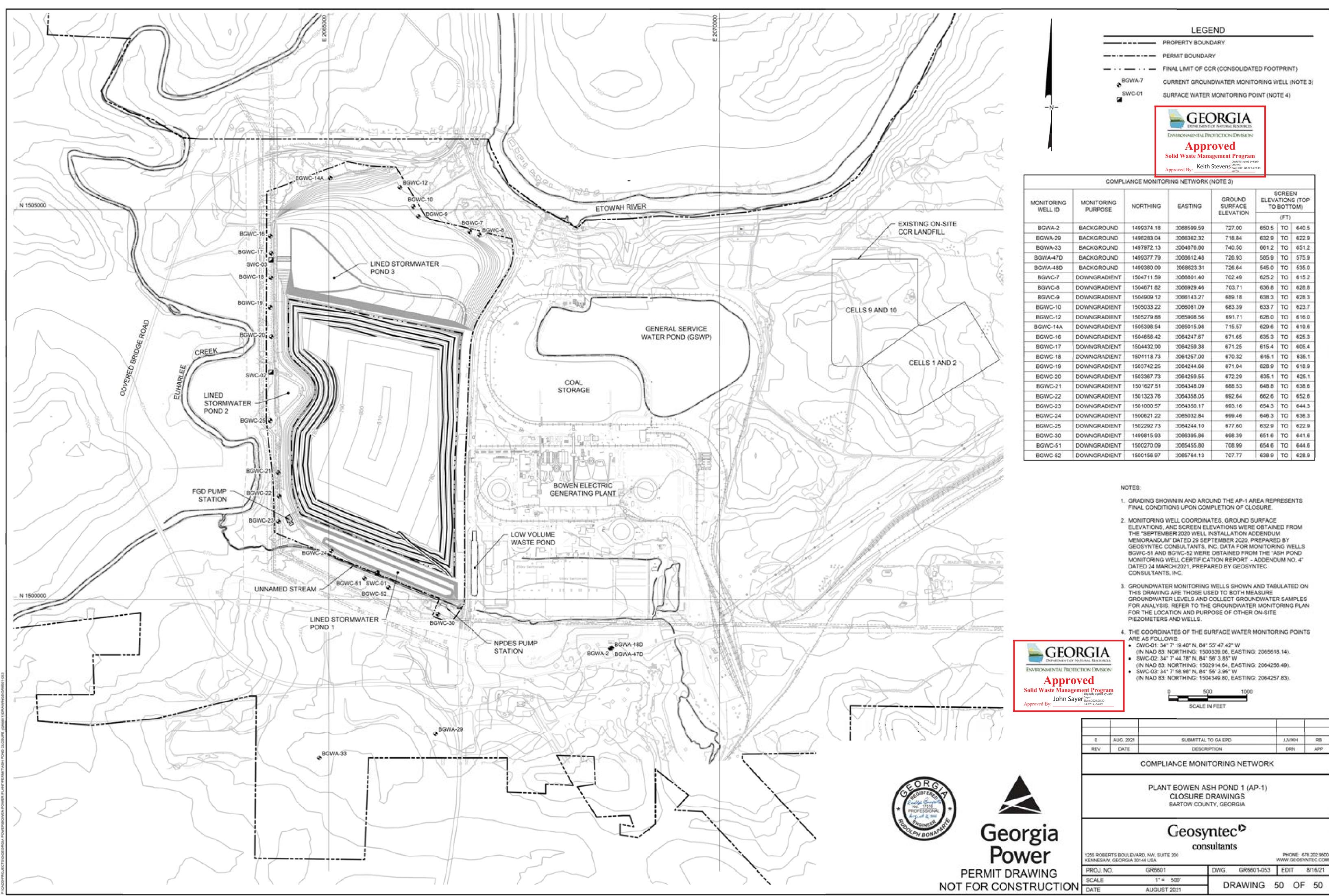
IRRIGATION

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTER TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

- 2. WOOD WASTE (CHIPS, SAWDUS FROM THE CLEARING STAGE O THIS METHOD OF MULCHING C
- PROTECTION. THIS MATERIAL APPLYING MULCH WHEN MULCH IS USED WITHOUT S
- AREA.
- 1. DRY STRAW OR HAY MULCH AN EQUIPMENT.
- 2. IF THE AREA WILL EVENTUALLY ACRE, IN ADDITION TO THE NOP
- BY THE DECOMPOSITION OF TH
- ANCHORING MULCH 1. STRAW OR HAY MULCH CAN BE
- WITH A SPECIAL "PACKER DISK DIAMETER AND 8 TO 12 INCHES MULCH BUT TO PRESS IT INTO SHALL BE ANCHORED IMMEDIA'
- BLOWER-TYPE EQUIPMENT MAY SPECIFICALLY DESIGNED FOR Tac-TACKIFERS. PLASTIC MESH INSTALLED ACCORDING TO MAN
- 2. NETTING OF THE APPROPRIATE SHALL NOT BE LARGER THAN T
- DETAIL DISTURBED AREA STABILIZATION (WITH I

		CUBIC YARDS OF TOPSOIL REQUIRED FOR APPLICATI	ION TO VARIOUS DEPTHS SITE PREPARATION (WHERE TOPSOIL IS TO BE A	100E01
FROM THE CLEARING STAGE OF DE	BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL VELOPMENT REMAINING ON SITE CAN BE CHIPPED AND APPLIED AS MULCH.	DEPTH (IN.) PER 1,000 SQUARE FEET PER	TOPSOILING - WHEN TOPSOILING, MAINTAIN NEE	EDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE VEL SPREADEFS, WATERWAYS, SEDIMENT BASINS, ETC.
	REATLY REDUCE EROSION CONTROL COSTS. URED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY SE SALVAGED AND RE-USED.	3 83 4 184	GRADING - GRADES ON THE AREAS TO BE TOPS MAINTAINED.	OILED WHICH HAVE BEEN PREVIOUSLY ESTABLISHED SHALL BE
AREA.	ING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED	CONDITIONS THIS PRACTICE IS RECOMMENDED FOR SITES OF 2H: IV OR FLATTER SLOPES W 1. THE TEXTURE OF THE EXPOSED SUBSOIL OR PARENT MATERIAL IS NOT SUIT VEGETATIVE GROWTH.	HERE: LESS OR COMPOSED OF HEAVY CLAYS, AGRICUL TABLE TO PRODUCE ADEQUATE PER 1,000 SQUARE FEET. LIME SHALL BE DISTRIE	RMINE THE pH OF THE SOIL. WHERE THE pH OF THE SUBSOIL IS 5.0 OR LTURAL LIMESTONE SHALL BE SPREAD AT THE RATE OF 100 POUNDS BUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE NS AS DESCRIBED IN THE FOLLOWING PROCEDURE.
ACRE, IN ADDITION TO THE NORMAL BY THE DECOMPOSITION OF THE OF	COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER AMOUNT, SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED IGANIC MULCHES.	 THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP CONTINUING SUPPLIES OF MOISTURE AND FOOD. THE SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH CONSTRUCTION OF SUPPLIES OF MOISTURE AND FOOD. 	BONDING - USE ONE OF THE FOLLOWING METHO 1. TILLING, AFTER THE AREAS TO BE TOPSOILED DUMPING AND SPREADING THE TOPSOIL, THE DEPTH OF AT LEAST 3 INCHES TO PERMIT BOI	
WITH A SPECIAL "PACKER DISK." DIS	SSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR KS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN RT. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE	CONSTRUCTION SPECIFICATIONS MATERIALS TOPSOIL SHOULD BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE V TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. A pH RANGE OF	DEPRESSIONS. WEEDS AND STONES, AND CONTAIN NO	E ENTIRE SURFACE AREA OF THE SLOPE TO LEAVE HORIZONTAL
MULCH BUT TO PRESS IT INTO THE SHALL BE ANCHORED IMMEDIATELY BLOWER-TYPE EQUIPMENT MAY BE	SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL ANCHORED. TACKIFERS, BINDERS AND HYDRAULIC MULCH WITH TACKIFIER ING STRAW CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT, REFER TO	SALTS SHOULD NOT EXCEED 500 PPM. <u>TESTING</u> FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER THE QUANTIT	 TOPSOIL SHOULD BE HANDLED ONLY WHEN I STRUCTURE. A UNIFORM APPLICATION OF 6 INCHES (UNSE 	T IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL TTLED) IS RECOMMENDED, BUT MAY BE ADJUSTED AT THE DISCRETION 37.
Tac-TACKIFERS. PLASTIC MESH OR INSTALLED ACCORDING TO MANUF/ 2. NETTING OF THE APPROPRIATE SIZ	NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE CTURER'S SPECIFICATIONS. SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING	JUSTIFIES STRIPPING.		
SHALL NOT BE LARGER THAN THE A	VERAGE SIZE OF THE WOOD WASTE CHIPS.	STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. A COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL. TOPSOIL pH	4 TO DINCH STRIPPING DEPTH IS	
		IF pH VALUE IS LESS THAN 6.0, LIME SHALL BE APPLIED AND INCORPORATED WI 6.5 OR HIGHER. TOPSOILS CONTAINING SOLUBLE SALTS GREATER THAN 500 P		ENVIRONMENTAL PROTECTION DIVISION Approved
BILIZATION (WITH MUL	CHING ONLY)		TP - TOPSOILING	Solid Waste Management Program Keith Stevens Date: 2021.08.27 1425:10-0410 Approved By:
			SOURCE: GSWCC	E VERIFIED NONTOXIC THROUGH EPA 2021.0 TESTING. REFER TO
	FERTILIZER REQUIREMENTS WARM SEASON GRASSES	1. APPLY IN SPRING FOLLOWING SEEDING. 2. APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.	MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. T/ MULCH APPLIED TO SEEDED AREAS SHALL RECEIVE 75% TO 100% SOIL CO	ACKIFIERS-TAC IN THE MANUAL FOR EROSION AND SEDIMENT ONTROL IN GEORGIA, LATEST EDITION.
COMMENTS	YEAR EQUIVALENT N-P-K ANALYSIS OR RATE TOP DRESSING FIRST 6-12-12 1500 LBS./AC. 50-100 LBS./AC. 2 SECOND 6-12-12 800 LBS./AC. 50-100 LBS./AC. 2		CONSIDER THE MULCH'S FUNCTIONAL LONGEVITY, VEGETATION TO ESTABLISHMENT ENHANCEMENT, AND EROSION CONTROL EFFECTIVENESS. 0	YE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS O STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF INE-QUARTER TO ONE-HALF BUSHED PER ACRE.
TER HARDY, USE ON DOUCTIVE SOILS	MAINTENANCE 10-10-10 400 LBS /AC. 30 LBS /AC. COOL SEASON GRASSES	6. APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.	INDICATED: 0 1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS UI	LASTIC MESH CR NETTING WITH MESH NO LARGER THAN ONE INCH BY INE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON INSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE
Y VOLUNTEER FOR SEVERAL ARS. USE INOCULANT TYPE EL.	YEAR EQUIVALENT N-P-K ANALYSIS OR RATE TOP DRESSING FIRST 6-12-12 1500 LBS /AC 50 LBS /AC /6/ SECOND 0-10-10 1000 LBS /AC MAINTENANCE 0-10-10 400 LBS /AC		PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER M ACRE.	ATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO IANUFACTURER'S SPECIFICATIONS. AND FERTILIZER APPLICATION
Y LAST FOR SEVERAL ARS, MIX WITH SERICEA	BROADCAST	TING DATE FOR PERMANENT COVER	HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 WHEN POUNDS PER ACRE. DRY STRAW CR DRY HAY SHALL BE APPLIED (AT SHALL	A HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER L BE MIXED WITH SEED, INNOCULANT (IF NEEDED), AND WOOD JLOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE
SPEDEZA. ICK DENSE COVER, WILL OVIDE TOO MUCH COMPETITION	SPECIES J F M A M J	IG DATES PLANTING DATE REMARKS J A S O N D	3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, INNOC WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC PLACE	CULANT, IF NEEDED, SHALL BE MIXED WITH THE SEED PRIOR TO BEING ED INTO THE HYDRAULIC SEEDER. THE SLURRY MIXTURE WILL BE
MIXTURES IF SEEDED AT HIGH TES.	LESPEDEZA SERICEA 60 LBS./AC	WIDELY ADAPTED. LOW MAINTENENCE. MIX WITH COMMON BERMUDA OR TALL FESCUE.	4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE MIXED	TED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY D. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN HOUR AFTER BEING PLACED IN THE HYDROSEEDER. FINELY GROUND
CK DENSE COVER. MAY REACH 5 T IN HEIGHT. NOT COMMENDED FOR MIXTURES.	LESPEDEZA SERICEA 75 LBS./AC	INOCULATE SEED WITH EL INOCULANT. MIX WITH TALL FESCUE.	5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 LIMES INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN WITH	TONE CAN BE APPLIED IN THE MULCH SLURRY OR IN COMBINATION THE TOP DRESSING. WHEN CONVENTIONAL PLANTING IS TO BE DONE. AND FERTILIZER SHALL BE APPLIED UNIFORMLY IN ONE OF THE
ON PRODUCTIVE SOILS, NOT AS	PENSACOLA BAHIA 60 LBS./AC	LOW GROWING. SOD FORMING. SLOW TO ESTABLISH. PLANT WITH A COMPANION	GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR FOLLO SEEDED AREAS. 1. A	OWING WAYS: PPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH
ITER HARDY AS RYE OR BARLEY.	TEMPORARY COVER WILMINGTON BAHIA 30 LBS./AC WITH OTHER	CROP. WILL SPREAD INTO BERMUDA PASTURES AND LAWNS. MIX WITH SERICEA LESPEDEZA.	SOD, MULCH IS NOT REQUIRED. 2. M 7. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS. 3. BI	HE SOIL DURING SEEDBED REPARATION. IIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS. ROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED OR
LERANT AND WINTER HARDY.	TALL FESCUE ALONE 50 LBS /AC	USE ALONE ONLY ON BETTER SITES. MIX WITH PERENNIAL LESPEDEZA OR	BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS 4. A AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND C	RENCHED. FERTILIZER PELLET SHALL BE PLACED AT ROOT DEPTH IN THE LOSING HOLE EESIDE EACH PINE TREE SEEDLING.
OD ON DROUGHTY SITES, NOT COMMENDED FOR MIXTURES.	TALL FESCUE WITH OTHER PERENNIALS 30 LBS./AC	CROWNVETCH. APPLY TOP DRESSING IN SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.	NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY REFER	R TO THE MANLAL FOR EROSION AND SEDIMENT CONTROL IN
E ON LOWER PART OF SOUTHERN ASTAL PLAIN AND IN ATLANTIC ASTAL FLATWOODS ONLY.	REED CANARY GRASS 50 LBS./AC ALONE REED CANARY GRASS 30 LBS./AC		SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN SHALL UNIFORM APPLICATION DURING SEEDING. NATUR	GIA, LATEST EDITION, FOR APPROVED SPECIES. SPECIES NOT LISTED L BE APPROVED BY THE STATE RESOURCE CONSERVATIONIST OF THE RAL RESOURCES CONSERVATION SERVICE BEFORE THEY ARE USED.
NTER HARDY.	WITH OTHER PERENNIALS COMMON BERMUDA 10 LBS/AC	GROWS SIMILAR TO TALL FESCUE.	APPLYING MULCH SITE A STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AREA;	IS SHALL BE SELECTED ON THE BASIS OF SPECIES CHARACTERISTICS, AND SOIL CONDITIONS, PLANNED USE AND MAINTENANCE OF THE TIME OF YEAR OF PLANTING, METHOD OF PLANTING; AND THE NEEDS
	UNHULLED SEED WITH TEMPORARY COVER COMMON BERMUDA 6 LBS./AC	PLANT WITH WINTER ANNUALS.	BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR ESTAB BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. COMM	DESIRES OF THE LAND USER. SOME PERENNIAL SPECIES ARE EASILY BLISHED AND CAN BE PLANTED ALONE. EXAMPLES OF THESE ARE NON BERMUDA, TALL FESCUE, AND WEEPING LOVEGRASS. OTHER
RATED TO MODIFY pH DURING THE SHOULD ALSO BE CONSIDERED	UNHULLED SEED WITH OTHER PERENNIALS SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMIS	PLANT WITH TALL FESCUE.	WITH HYDRAULIC SEEDING EQUIPMENT. TO BE	NNIALS, SUCH AS BAHIA GRASS AND SERICEA LESPEDEZA, ARE SLOW COME ESTABLISHED AND SHOULD BE PLANTED WITH ANOTHER NNIAL SPECIES THE ADDITIONAL SPECIES WILL PROVIDE QUICK
MATTER IN THE SOIL. GRADED S MUST BE TESTED TO DETERMINE AMENDMENTS. FERTILIZER SHOULD	DEFINITION THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES	INDIVIDUAL PLANTS	ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE SPECI	R AND AMPLE SOIL PROTECTION UNTIL THE TARGET PERENNIAL IES BECOME ESTABLISHED. FOR EXAMPLE, COMMON SEEDING INATIONS ARE 1) WEEPING LOVEGRASS WITH SERICEA LESPEDEZA
AND INCORPORATED WITH A DISK, EP FOR OR INACCESSIBLE TO AULICALLY APPLIED, PREFERABLY IN	GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.	PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR DIBBLE PLANTING. 2. FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO	IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" PLANT	RIFIED) AND 2) TALL FESCUE WITH SERICEA LESPEDEZA (UNSPECIFIED). IT SELECTION MAY ALSO INCLUDE ANNUAL COMPANION CROPS. IAL COMPANION CROPS SHOULD BE USED ONLY WHEN THE PERENNIAL
YDRAULIC MULCH, THEN TOPPED TION RATE.	CONDITIONS PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE	ACCOMMODATE ROOTS WITHOUT CROWDING. 3. WHERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL UNDER THE ROW 36 INCHES DEEP ON THE CONTOUR FOUR TO SIX MONTHS PRIOR TO	MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE COMM	IES ARE NOT PLANTED DURING THEIR OPTIMUM PLANTING PERIOD. A NON MIXTURE IS BROWN TOP MILLET WITH COMMON BERMUDA IN MID IER. CARE SHOULD BE TAKEN IN SELECTING COMPANION CROP
TURE SUITABLE TO THE AREA AND PPLIED UNIFORMLY BY HAND.	COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUCED AREAS.	PLANTING. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST OR SEPTEMBER.	GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERECT SPECI POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL. WITH	ES AND SEEDING RATES BECAUSE ANNUAL CROPS WILL COMPETE PERENNIAL SPECIES FOR WATER, NUTRIENTS, AND GROWING SPACE. H SEEDING RATE OF THE COMPANION CROP MAY PREVENT THE
SEEDER, OR HYDRAULIC SEEDER R). DRILL OR CULTIPACKER	SPECIFICATIONS GRADING AND SHAPING	PLANTING HYDRAULIC SEEDING	DESIGNED TO TACK STRAW, SHALL BE APPLIED IN CONJUNCTION WITH ESTAB OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC IN ANY	BLISHMENT OF PERENNIAL SPECIES. RYEGRASS SHALL NOT BE USED Y SEEDING MIXTURES CONTAINING PERENNIAL SPECIES DUE TO ITS
D ONE-QUARTER TO ONE-HALF INCH 3 IS TEN TIMES THE SEED DIAMETER. VER SEED WITH SOIL IF SEEDED BY	GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT. WHEN CONVENTIONAL SEEDIN	OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY		TY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANENT NNIAL COVER.
ID SEDIMENT CONTROL IN GEORGIA, N.	AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE FEASIBLE AN PRACTICAL, SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE C	CONVENTIONAL SEEDING	Ds3 63 DETAIL	
CASES, BE ESTABLISHED WITHOUT	THE VEGETATION. CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THI	FOR BROADCAST PLANTING, USE A CULTIPACKER-SEEDER, DRILL ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE	DISTURBED AREA STABILIZATION (WITH	
N ACCELERATE AND ENHANCE SHMENT. MULCH WITHOUT SEEDING IM PROTECTION. REFER TO	APPROPRIATE STANDARDS AND SPECIFICATIONS.	LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE	PERMANENT 0 AUG. 2021	SUBMITTAL TO GA EPD J.WINH RB DESCRIPTION DRN APP
H MULCHING ONLY).	SEEDBED PREPARATION SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDIN AND FERTILIZING EQUIPMENT IS TO BE USED (BUT IS STRONGLY	NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN	VEGETATION)	OSION AND SEDIMENT CONTROL DETAILS III
LL BE APPLIED AT A RATE NOT	RECOMMENDED FOR ANY SEEDING PROCESS, WHEN POSSIBLE). WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:	PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES.	CORG A	
TION OF THE SEED. SUBSEQUENT IEEDED.	BROADCAST PLANTINGS 1. TLLAGE, AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEDTH OF A TO & MICHER, ALLEMATE COMPACTION, INCORPORATE LINK	NO-TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH.		PLANT EOWEN ASH POND 1 (AP-1) CLOSURE DRAWINGS BARTOW COUNTY, GEORGIA
	DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE	SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS OR HAND TOOLS. PINE TREES SHALL BE PLANTED MANUALLY	The part & set	<u> </u>
PORARY SEEDING)	ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED. 2. TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT. 3. TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE.	IN THE SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL AVOID CROWDING THE ROOTS.	Georgia	Geosyntec ^D
	 ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 	NURSERY STOCK PLANTS SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE NURSERY. THE TIPS OF VINES AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE THE GROUND SURFACE.	Power 1255 ROBERTS BOULEV	ARD, NW, SUITE 200 PHONE: 678.202.9500 WWW.GEOSYNTEC.COM
	TO 8 INCHES APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.	WHERE INDIVIDUAL HOLES ARE DUG, FERTILIZER SHALL BE PLACED IN THE BOTTOM OF THE HOLE, TWO INCHES OF SOIL SHALL BE ADDED, AND THE	PERMIT DRAWING PROJ. NO.	GR6601 DWG. GR6601-051 EDIT 08.16.21 AS SHOWN DRAWING 49 OF 50
		PLANT SHALL BE SET IN THE HOLE.	NOT FOR CONSTRUCTION DATE	AUGUST 2021 DRAWING 49 OF 50

0	AUG. 2021	SUBMITTAL TO GA EPD	12VIIOH	85
REV	DATE	DESCRIPTION	DRN	APP



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