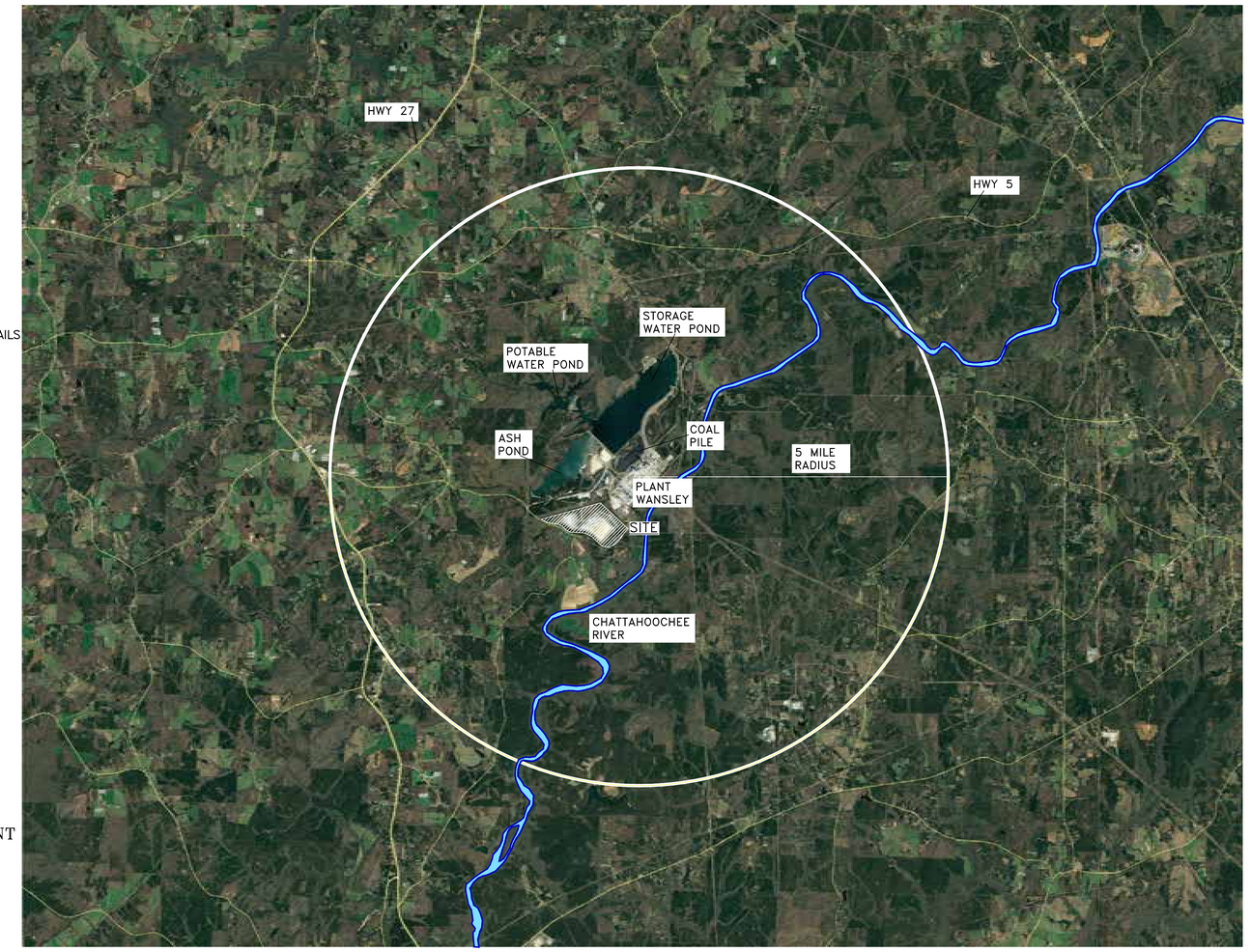
GEORGIA POWER COMPANY

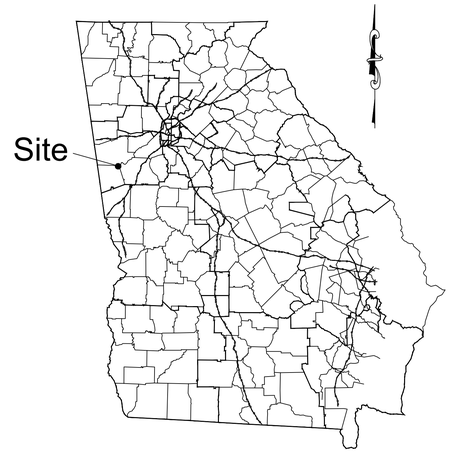
PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT DRAWINGS
HEARD COUNTY, GEORGIA
SEPTEMBER 2022

DRAWING INDEX:

H1C11120	REV. 0	TITLE SHEET AND DRAWING INDEX
H1C11121	REV. 0	PERMITTED SITE BOUNDARY, PLAT AND LEGAL DESCRIPTION
H1C11122	REV. 0	SITE TOPOGRAPHIC SURVEY
H1C11123	REV. 0	SITE STREAM & WETLAND BUFFERS, 100yr FLOOD PLAIN, & BORING LOCATIONS
H1C11124	REV. 0	GENERAL SITE DEVELOPMENT, CELL LAYOUT
H1C11125	REV. 0	CELL NO. 1 SITE DEVELOPMENT, BASE GRADE PLAN
H1C11126	REV. 0	CELL NO. 2 SITE DEVELOPMENT, ROUGH GRADE/BORROW PLAN
H1C11127	REV. 0	SITE DEVELOPMENT, SECURITY ROAD PLAN
H1C11128	REV. 0	SITE DEVELOPMENT, SECURITY ROAD PROFILE
H1C11130	REV. 0	CELL NO. 1 SITE DEVELOPMENT, FINAL STACKING PLAN
H1C11131	REV. 0	CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11132	REV. 0	CELL NOS. 1 & 2 COMBINED, FINAL STACKING PLAN
H1C11133	REV. 0	CELL NO. 3 SITE DEVELOPMENT, BASE GRADE PLAN
H1C11134	REV. 0	CELL NO. 3, FINAL STACKING PLAN
H1C11135	REV. 0	CELL NO. 1 SECTIONS THRU STACK
H1C11136	REV. 0	CELL NO. 2 SECTIONS THRU STACK
H1C11137	REV. 0	CELL NO. 3 SECTIONS THRU STACK
H1C11138	REV. 0	CELL 1 THROUGH CELL 3, MISCELLANEOUS SECTIONS, SHEET 1
H1C11139	REV. 0	CELL 1 THROUGH CELL 3, MISCELLANEOUS SECTIONS, SHEET 2
H1C11140	REV. 0	CELL 1 THROUGH CELL 3, MISCELLANEOUS SECTIONS, SHEET 3
H1C11141	REV. 0	CELL NO. 1 AND CELL NO. 2 SEDIMENT POND SPILLWAY, SECTIONS AND DETAILS
H1C11142	REV. 0	GENERAL GYPSUM STACKING, OPERATION PLAN
H1C11143	REV. 0	CELL 1 THROUGH CELL 3, MISCELLANEOUS DETAILS, SHEET 1
H1C11144	REV. 0	CELL 1 THROUGH CELL 3, MISCELLANEOUS DETAILS, SHEET 2
H1C11145	REV. 0	CELL 1 THROUGH CELL 3, MISCELLANEOUS DETAILS, SHEET 3
H1C11146	REV. 0	CELL 1 THROUGH CELL 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1
H1C11147	REV. 0	CELL 1 THROUGH CELL 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 2
H1C11148	REV. 0	CELL 1 THROUGH CELL 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
H1C11149	REV. 0	CELL 1 THROUGH CELL 3, EROSION CONTROL SECTIONS & DETAILS, SHEET 1
H1C11150	REV. 0	CELL 1 THROUGH CELL 3, EROSION CONTROL SECTIONS & DETAILS, SHEET 2
H1C11151	REV. 0	CELL 1 THROUGH CELL 3, SIPHON SECTIONS AND DETAILS
H1C11152	REV. 0	CELL 1 THROUGH CELL 3, FLUME DATA SHEET
H1C11153	REV. 0	GENERAL SITE DEVELOPMENT, CELL NO. 1, LEACHATE COLLECTION SYSTEM LAYOUT
H1C11154	REV. 0	GENERAL SITE DEVELOPMENT, CELL NO. 2, LEACHATE COLLECTION SYSTEM LAYOUT
H1C11155	REV. 0	GENERAL SITE DEVELOPMENT, CELL NO. 3, LEACHATE COLLECTION SYSTEM LAYOUT & DETAILS
H1C11160	REV. 0	GEOLOGIC CROSS-SECTIONS A-A AND B-B
H1C11161	REV. 0	POTENTIOMETRIC SURFACE MAP, 11/17/2006
H1C11163	REV. 0	POTENTIOMETRIC SURFACE MAP, 4/10/2009
H1C11165	REV. 0	COMPLIANCE NETWORK



LOCATION MAP
SCALE AS SHOWN



HEARD COUNTY
GEORGIA

LEGEND:

COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY AREA

RESPONSIBLE OFFICIAL

VICE PRESIDENT
ENVIRONMENTAL AFFAIRS
GEORGIA POWER COMPANY
BIN 10221
241 RALPH MCGILL BLVD.
ATLANTA, GEORGIA 30308
(404) 506-7777

ADDRESS

PLANT WANSLEY
1371 LIBERTY CHURCH ROAD
CARROLTON, GA 30116

PROPERTY OWNER

GEORGIA POWER COMPANY
241 RALPH McGILL BLVD.
ATLANTA, GEORGIA 30308

CCR LANDFILL PERMIT APPLICATION CONSULTANT

HODGES, HARBIN, NEWBERRY & TRIBBLE, INC (HHNT, INC.)
3920 ARKWRIGHT RD, SUITE 101
MACON, GA 31210
(478) 743-7175

CONSULTANT

SOUTHERN COMPANY GENERATION
GARY McWHORTER
BIN 10160
241 RALPH McGILL BLVD.
ATLANTA, GEORGIA 30308
TEL: (404) 506-7291

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27185 R. BRANT LAIRD 9/22/22

GEORGIA REGISTERED PROFESSIONAL GEOLOGIST No. 1067 GARY N. MCWHORTER 9/6/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens Digitally signed by Keith Stevens Date: 2022.10.25 08:07:56 -04'00'

PERMIT REVISION HISTORY: THE ORIGINAL PERMIT DRAWINGS FOR THE PLANT WANSLEY CCR LANDFILL WERE PREPARED BY SOUTHERN COMPANY GENERATION ENGINEERING AND CONSTRUCTION SERVICES (SCGECS). THESE PERMIT DRAWINGS WERE REVIEWED BY GEORGIA EPD AND APPROVED ON JUNE 15, 2010 AS PART OF THE FACILITY'S SOLID WASTE HANDLING PERMIT WITH SUBSEQUENT REVISIONS TO THE DRAWINGS APPROVED BY GEORGIA EPD THROUGH PERMIT MODIFICATIONS. HODGES, HARBIN, NEWBERRY, AND TRIBBLE INC. (HHNT) HAS ASSISTED GEORGIA POWER COMPANY IN PREPARATION OF THE CCR LANDFILL PERMIT AS REQUIRED BY THE NEW SOLID WASTE RULE 391-4-.10(9)(a) FOR COAL COMBUSTION RESIDUAL UNITS. MINOR PLAN REVISIONS AND UPDATES HAVE BEEN MADE AS PART OF THE NEW CCR LANDFILL PERMITTING PROCESS AND ARE INCLUDED HEREIN. AT THE REQUEST OF GEORGIA EPD AND AS PART OF THE NEW CCR PERMIT PROCESS, ALL PREVIOUS PLAN REVISION NOTES FOR THE FACILITY'S ORIGINAL SOLID WASTE HANDLING PERMIT HAVE BEEN REMOVED.

NOTE: COAL-COMBUSTION BY-PRODUCTS (CCB) AND COAL COMBUSTION RESIDUALS (CCR) HAVE THE SAME MEANING IN THESE PERMIT DRAWINGS.

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

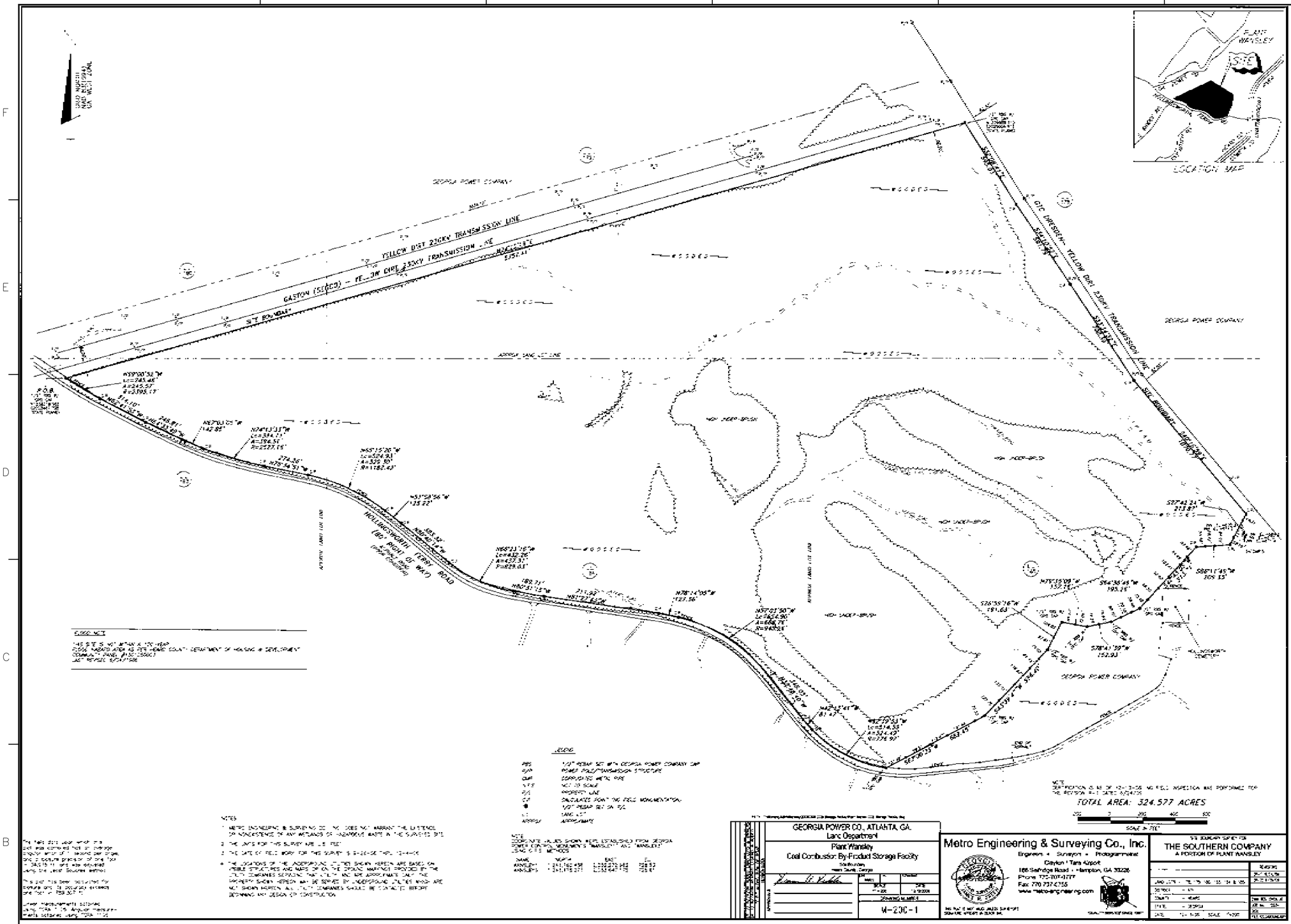
PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
TITLE SHEET AND DRAWING INDEX

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010209	H1C11120	1	FINAL	0

ANSI F: 40x28 Acad2008



The property is a portion of Land Lots 178, 179, 180, 183, 184 and 185, Fourth District, Heard County, Georgia and being more particularly described as follows:

Begin at the intersection of the northeasterly right of way of Hollingsworth Ferry Road (80'R/W) and the southerly right of way of the Gaston (SEGCO) – Yellow Dirt 230KV Transmission Line, said intersection is designated by a set 1/2"rebar with a GPC cap and has state plane coordinates (Georgia West – NAD 83 (1994)) of x = 2023467.80 feet and y = 1238318.97 feet; thence North 74°10'19"East along a grid bearing and coincident with said southerly right of way for a distance of 5757.41 feet to the intersection of said southerly right of way of the Gaston (SEGCO) – Yellow Dirt 230KV Transmission Line and the westerly right of way of the GTC Dresden – Yellow Dirt 230KV Transmission Line, said intersection is designated by a set 1/2" rebar with a GPC cap and has state plane coordinates (Georgia West – NAD 83 (1994)) of x = 2029006.91 feet and y = 1239889.31 feet; thence South 32°08'41"East along said westerly right of way for a distance of 595.03 feet; thence South 34°10'52"East along said westerly right of way for a distance of 591.79 feet; thence South 33°34'32"East along said westerly right of way for a distance of 708.39 feet; thence South 40°16'59"East along said westerly right of way for a distance of 1070.77 feet; thence South 27°42'24"West for a distance of 213.87 feet; thence South 86°11'49"West for a distance of 209.33 feet; thence South 42°43'05"West for a distance of 513.71 feet to a set 1/2"rebar with a GPC cap; thence South 64°36'49"West for a distance of 195.26 feet to a set 1/2"rebar with a GPC cap; thence South 78°41'39"West for a distance of 152.93 feet to a set 1/2"rebar with a GPC cap; thence North 79°35'09"West for a distance of 157.16 feet to a set 1/2"rebar with a GPC cap; thence South 26°59'16"West for a distance of 191.63 feet to a set 1/2"rebar with a GPC cap; thence South 43°39'47"West for a distance of 556.40 feet to a set 1/2"rebar with a GPC cap; thence South 62°00'23"West for a distance of 689.45 feet to a point on the northerly right of way of Hollingsworth Ferry Road (80'R/W), said point is designated by a set 1/2"rebar with a GPC cap; thence northwesterly along a non–tangential curve and coincident with said northerly right of way, said non–tangential curve being concave northeasterly, having a radius of 776.97 feet, chord length of 514.59 feet, chord bears North 62°39'53"West and an arc length of 524.49 feet; thence North 42°13'41"West along a non tangent line and being coincident with said right of way for a distance of 81.47 feet; thence North 38°48'40"West along said right of way for a distance of 348.05 feet; thence northwesterly along a non–tangential curve and coincident with said right of way, said non–tangential curve being concave southwesterly, having a radius of 945.26 feet, chord length of 654.90 feet, chord bears North 57°03'50"West and an arc length of 668.76 feet; thence North 78°14'05"West along a non tangent line and being coincident with said right of way for a distance of 127.36 feet; thence North 81°27'43"West along said right of way for a distance of 711.92 feet; thence North 80°31'15"West along said right of way for a distance of 189.71 feet; thence northwesterly along a non–tangential curve and coincident with said right of way, said non–tangential curve being concave northeasterly, having a radius of 829.03 feet, chord length of 432.26 feet, chord bears North 66°23'16"West and an arc length of 437.31 feet; thence North 50°40'14"West along a non tangent line and being coincident with said right of way for a distance of 383.32 feet; thence North 51°58'56"West along said right of way for a distance of 125.22 feet; thence northwesterly along a non–tangential curve and coincident with said right of way, said non–tangential curve being concave southwesterly, having a radius of 1188.49 feet, chord length of 524.93 feet, chord bears North 65°15'20"West and an arc length of 529.30 feet; thence North 78°34'51"West along a non tangent line and being coincident with said right of way for a distance of 274.26 feet; thence northwesterly along a non–tangential curve and coincident with said right of way, said non–tangential curve being concave northeasterly, having a radius of 2527.16 feet, chord length of 394.11 feet, chord bears North 74°13'33"West and an arc length of 394.51 feet; thence North 67°03'05"West along a non tangent line and being coincident with said right of way for a distance of 142.85 feet; thence North 64°33'49"West along said right of way for a distance of 245.81 feet; thence North 62°41'53"West along said right of way for a distance of 314.10 feet; thence northwesterly along a non–tangential curve and coincident with said right of way, said non–tangential curve being concave northeasterly, having a radius of 2395.17 feet, chord length of 245.46 feet, chord bears North 59°00'52"West and an arc length of 245.57 feet to the point of beginning and containing 324.577 acres, more or less.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

REFERENCE DRAWINGS:

1. FOR A COMPLETE DRAWING LIST SEE SHEET H1C11120
2. COMPOSITE MAP OF PLANT WANSLEY COAL COMBUSTION BY–PRODUCT STORAGE FACILITY LAND DEPARTMENT MAP FILE NO. M–200.
3. GEORGIA POWER COMPANY LAND DEPARTMENT PROPERTY PLAT K–8–1, DATED 6–5–72.

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
PERMITTED SITE BOUNDARY
PLAT AND LEGAL DESCRIPTION

REVISION	DATE
0	09–23–2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

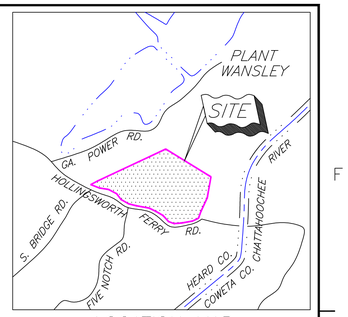
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010209	H1C11121	1	FINAL	0

ANSI F: 40x28 Acad2008



SITE BOUNDARY AREA = 324.6 ACRES



LOCATION MAP

NOTE
ELEVATIONS AND COORDINATE VALUES SHOWN WERE ESTABLISHED FROM GEORGIA POWER CONTROL MONUMENTS "WANSLEY1" AND "WANSLEY3" USING G.P.S. METHODS. CONTOURS WERE ESTABLISHED FROM A FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY METRO ENGINEERING & SURVEY COMPANY INC. BETWEEN THE DATES OF JUNE 8, 2006 AND SEPT. 29, 2006.

NAME	NORTH.	EAST.	EL.
WANSLEY1	1,241,760.438	2,032,272.962	728.53
WANSLEY3	1,243,176.271	2,033,647.175	725.61

Point	*North*	*East*	*Elev*	*Name*
50	*1239344.75*	*2026847.42*	*770.03*	*N&C*
51	*1239409.23*	*2027081.48*	*778.48*	*N&C*
52	*1239270.08*	*2026590.84*	*779.23*	*N&C*
55	*1238404.79*	*2023545.79*	*855.20*	*N&C*
56	*1238364.32*	*2023312.79*	*840.33*	*N&C*
57	*1239487.13*	*2027355.49*	*741.23*	*N&C*
58	*1239553.09*	*2027587.59*	*771.95*	*N&C*
59	*1239596.47*	*2027739.12*	*780.58*	*N&C*
60	*1239689.18*	*2028065.12*	*757.79*	*N&C*
61	*1239754.67*	*2028297.74*	*742.53*	*N&C*
62	*1239832.77*	*2028574.67*	*736.02*	*N&C*
65	*1238497.78*	*2023869.73*	*847.48*	*N&C*
66	*1238614.34*	*2024276.92*	*811.32*	*N&C*
67	*1238132.56*	*2023677.25*	*851.99*	*N&C*
68	*1237846.25*	*2024263.88*	*821.85*	*N&C*
69	*1239897.25*	*2028808.63*	*729.01*	*N&C*
200	*1237549.70*	*2024980.48*	*807.83*	*N&C*
202	*1236268.87*	*2027908.23*	*760.36*	*N&C*
204	*1235909.46*	*2029075.45*	*735.36*	*N&C*
206	*1236952.32*	*2030297.62*	*716.25*	*N&C*

STATE PLANE COORDINATES, GEORGIA WEST ZONE, NAD83

CERTIFICATION:

THIS TOPOGRAPHIC MAP WAS PREPARED BY METRO ENGINEERING & SURVEYING CO., INC. FROM A FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BETWEEN THE DATES OF JUNE 8, 2006 AND SEPT. 29, 2006. BASED ON THE DESCRIBED MAPPING PARAMETERS AND PROCEDURES, I CERTIFY THAT THIS TOPOGRAPHIC MAP WAS GENERATED AT 1"= 200' WITH A CONTOUR ACCURACY OF 1 FT. BASED ON NATIONAL MAPPING STANDARDS.

GARY H. McWHORTER, P.E.
GA. REG. NO. 012687

NOTES:

1. TOPOGRAPHIC SURVEY COMPLETED SEPTEMBER 29, 2006.
2. HORIZONTAL AND VERTICAL CONTROL PROVIDED BY GEORGIA POWER COMPANY LAND DEPARTMENT.

REFERENCE DRAWINGS:

1. FOR A COMPLETE DRAWING LIST SEE SHEET H1C11120
2. COMPOSITE MAP OF PLANT WANSLEY COAL COMBUSTION BY-PRODUCT STORAGE FACILITY LAND DEPARTMENT MAP FILE NO. M-200.
3. GEORGIA POWER COMPANY LAND DEPARTMENT PROPERTY PLAT K-8-1, DATED 6-5-72.

LEGEND:

PLAT ABBREVIATIONS

IPF – Iron Pin Found
IPS – 1/2" Rebar Set
CMF – Concrete Monument Found
FPS – Fence Post Set
OTP – Open Top Pipe
CTP – Crimp Top Pipe
Conc. – Concrete
Alumn. – Aluminum
P/L – Property Line
R/W – Right of Way
C/L – Centerline
F/L – Fenceline
T/L – Transmission Line
N/F – Now or Formerly
DB – Deed Book
PB – Plat Book
MF – Map File No.
GPC – Georgia Power Company

MONUMENTATION LEGEND

Depicts Iron Pin Set
Depicts Iron Pin Found
Depicts Monument Set
Depicts Monument Found
Depicts Unmonumented Point on Top of Bank
Survey Control Monument, Construction

UTILITY LEGEND

TOWER – Powerline Tower
PP – Power Pole

LINE LEGEND

Property Line
Site Boundary
Buffer Boundary
Fence
840 Existing Contours

GRAPHIC SCALE
200 0 100 200 400 800
(IN FEET)
1 inch = 200 ft.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. GRANT LANE 9/27/22

GEORGIA REGISTERED No. 12507 PROFESSIONAL ENGINEER GARY H. McWHORTER 9/26/22

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Engineering and Construction Services
FOR
Georgia Power Company

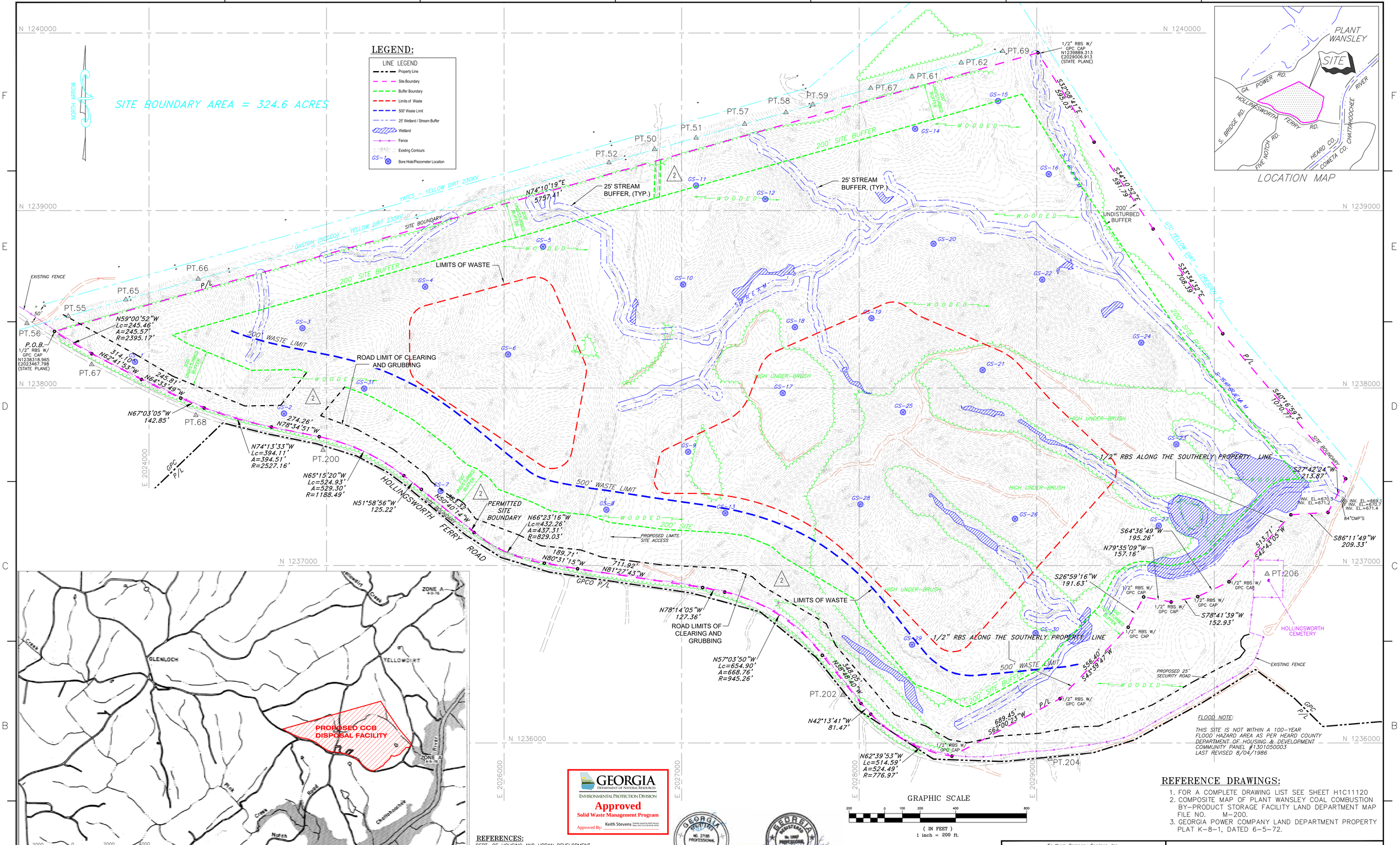
PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
SITE TOPOGRAPHIC SURVEY

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010209	H1C11122	1	FINAL	0

ANSI F: 40x28 Acad2008



GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

REFERENCES:

DEPT. OF HOUSING AND URBAN DEVELOPMENT, FEDERAL INSURANCE ADMINISTRATION, HEARD CO., GA. (UNINC. AREAS) FLOOD HAZARD BOUNDARY MAP 130105A, PAGE 4, APRIL 9, 1976

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER R. BRANT LAKE — 9/27/22

GEORGIA REGISTERED No. 12607 PROFESSIONAL LANDSCAPE ARCHITECT ROBERT N. MCWHORTER — 9/27/22

REFERENCE DRAWINGS:

1. FOR A COMPLETE DRAWING LIST SEE SHEET H1C11120
2. COMPOSITE MAP OF PLANT WANSLEY COAL COMBUSTION BY-PRODUCT STORAGE FACILITY LAND DEPARTMENT MAP FILE NO. M-200.
3. GEORGIA POWER COMPANY LAND DEPARTMENT PROPERTY PLAT K-8-1, DATED 6-5-72.

REVISION	DATE

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

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REVISION	0	DATE	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]			

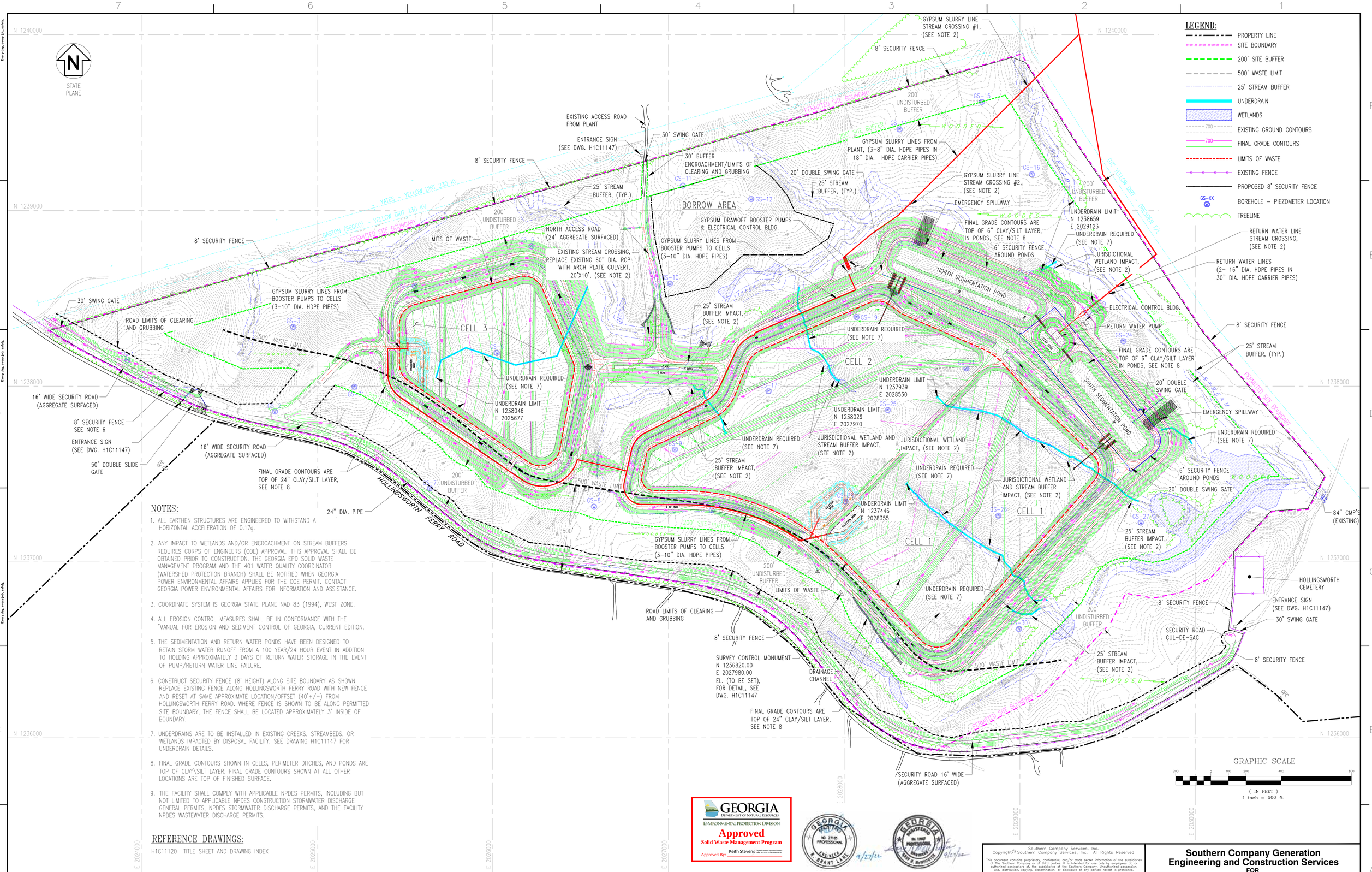
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
SITE STREAM BUFFERS AND WETLANDS,
100 YEAR FLOOD PLAIN
AND BORING LOCATIONS

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010209	H1C11123	1	FINAL	0

ANSI F: 40x28 Acad2008



NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
5. THE SEDIMENTATION AND RETURN WATER PONDS HAVE BEEN DESIGNED TO RETAIN STORM WATER RUNOFF FROM A 100 YEAR/24 HOUR EVENT IN ADDITION TO HOLDING APPROXIMATELY 3 DAYS OF RETURN WATER STORAGE IN THE EVENT OF PUMP/RETURN WATER LINE FAILURE.
6. CONSTRUCT SECURITY FENCE (8' HEIGHT) ALONG SITE BOUNDARY AS SHOWN. REPLACE EXISTING FENCE ALONG HOLLINGSWORTH FERRY ROAD WITH NEW FENCE AND RESET AT SAME APPROXIMATE LOCATION/OFFSET (40'+/-) FROM HOLLINGSWORTH FERRY ROAD. WHERE FENCE IS SHOWN TO BE ALONG PERMITTED SITE BOUNDARY, THE FENCE SHALL BE LOCATED APPROXIMATELY 3' INSIDE OF BOUNDARY.
7. UNDERDRAINS ARE TO BE INSTALLED IN EXISTING CREEKS, STREAMBEDS, OR WETLANDS IMPACTED BY DISPOSAL FACILITY. SEE DRAWING H1C11147 FOR UNDERDRAIN DETAILS.
8. FINAL GRADE CONTOURS SHOWN IN CELLS, PERIMETER DITCHES, AND PONDS ARE TOP OF CLAY\SILT LAYER. FINAL GRADE CONTOURS SHOWN AT ALL OTHER LOCATIONS ARE TOP OF FINISHED SURFACE.
9. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.

REFERENCE DRAWINGS:

H1C11120 TITLE SHEET AND DRAWING INDEX

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LABEL 9/23/22

GEORGIA REGISTERED No. 1289? PROFESSIONAL ENGINEER MARY M. WORKMAN 9/26/22

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REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

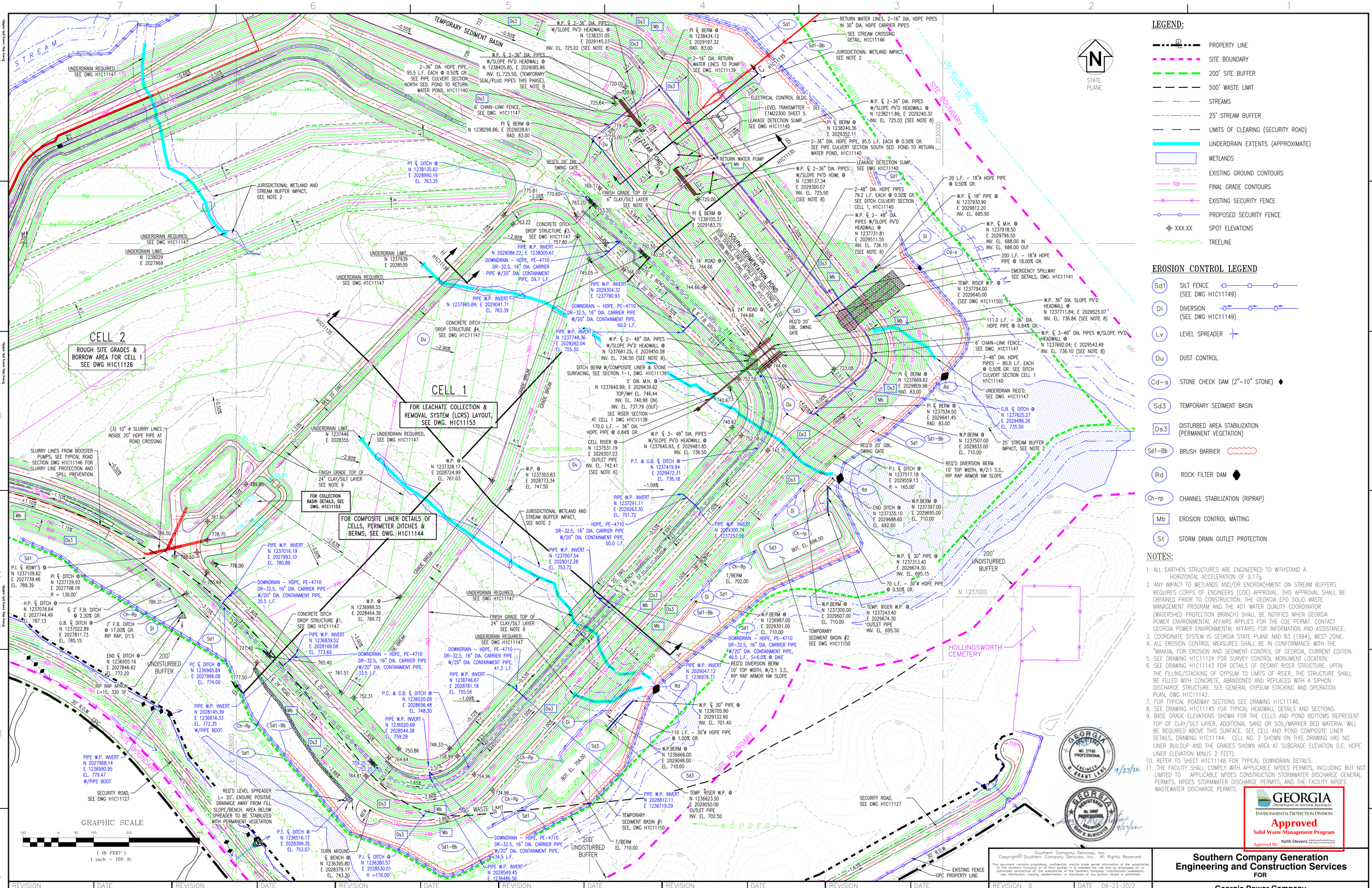
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
GENERAL SITE DEVELOPMENT
CELL LAYOUT

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL		X	X	X	X

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=200'	H1C11124	1	FINAL	0

Acad2008 ANSI F: 40x28



LEGEND:

- PROPERTY LINE
- SITE BOUNDARY
- 200' SITE BUFFER
- 500' WASTE LIMIT
- STREAMS
- 25' STREAM BUFFER
- LIMITS OF CLEARING (SECURITY ROAD)
- UNDERDRAIN EXTENTS (APPROXIMATE)
- WETLANDS
- EXISTING GROUND CONTOURS
- FINAL GRADE CONTOURS
- EXISTING SECURITY FENCE
- PROPOSED SECURITY FENCE
- XXX.XX SPOT ELEVATIONS
- TREELINE

EROSION CONTROL LEGEND

- Sd1 SILT FENCE (SEE DWG H1C11149)
- Di DIVERSION (SEE DWG H1C11149)
- Lv LEVEL SPREADER
- Du DUST CONTROL
- Cd–s STONE CHECK DAM (2"–10" STONE)
- Sd3 TEMPORARY SEDIMENT BASIN
- Ds3 DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)
- Sd1–Bb BRUSH BARRIER
- Rd ROCK FILTER DAM
- Ch–rp CHANNEL STABILIZATION (RIPRAP)
- Mb EROSION CONTROL MATTING
- St STORM DRAIN OUTLET PROTECTION

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
5. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
6. SEE DRAWING H1C11143 FOR DETAILS OF DECANT RISER STRUCTURE. UPON THE FILLING/STACKING OF GYPSUM TO LIMITS OF RISER, THE STRUCTURE SHALL BE FILLED WITH CONCRETE, ABANDONED AND REPLACED WITH A SIPHON DISCHARGE STRUCTURE. SEE GENERAL GYPSUM STACKING AND OPERATION PLAN, DWG H1C11142.
7. FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11146.
8. SEE DRAWING H1C11145 FOR TYPICAL HEADWALL DETAILS AND SECTIONS.
9. BASE GRADE ELEVATIONS SHOWN FOR THE CELLS AND POND BOTTOMS REPRESENT TOP OF CLAY/SILT LAYER. ADDITIONAL SAND OR SOIL/MARKER BED MATERIAL WILL BE REQUIRED ABOVE THIS SURFACE. SEE CELL AND POND COMPOSITE LINER DETAILS, DRAWING H1C11144. CELL NO. 2 SHOWN ON THIS DRAWING HAS NO LINER BUILDUP AND THE GRADES SHOWN AREA AT SUBGRADE ELEVATION (I.E. HDPE LINER ELEVATION MINUS 2 FEET).
10. REFER TO SHEET H1C11148 FOR TYPICAL DOWNDRAIN DETAILS.
11. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens (digitally signed by Keith Stevens, Date: 2022.10.25 08:39:06 -04'00')

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER W. BRANT LANE 9/27/22

GEORGIA REGISTERED NO. 12007 PROFESSIONAL ENGINEER KEITH A. MCMICHEN 9/26/22

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 SITE DEVELOPMENT
BASE GRADE PLAN

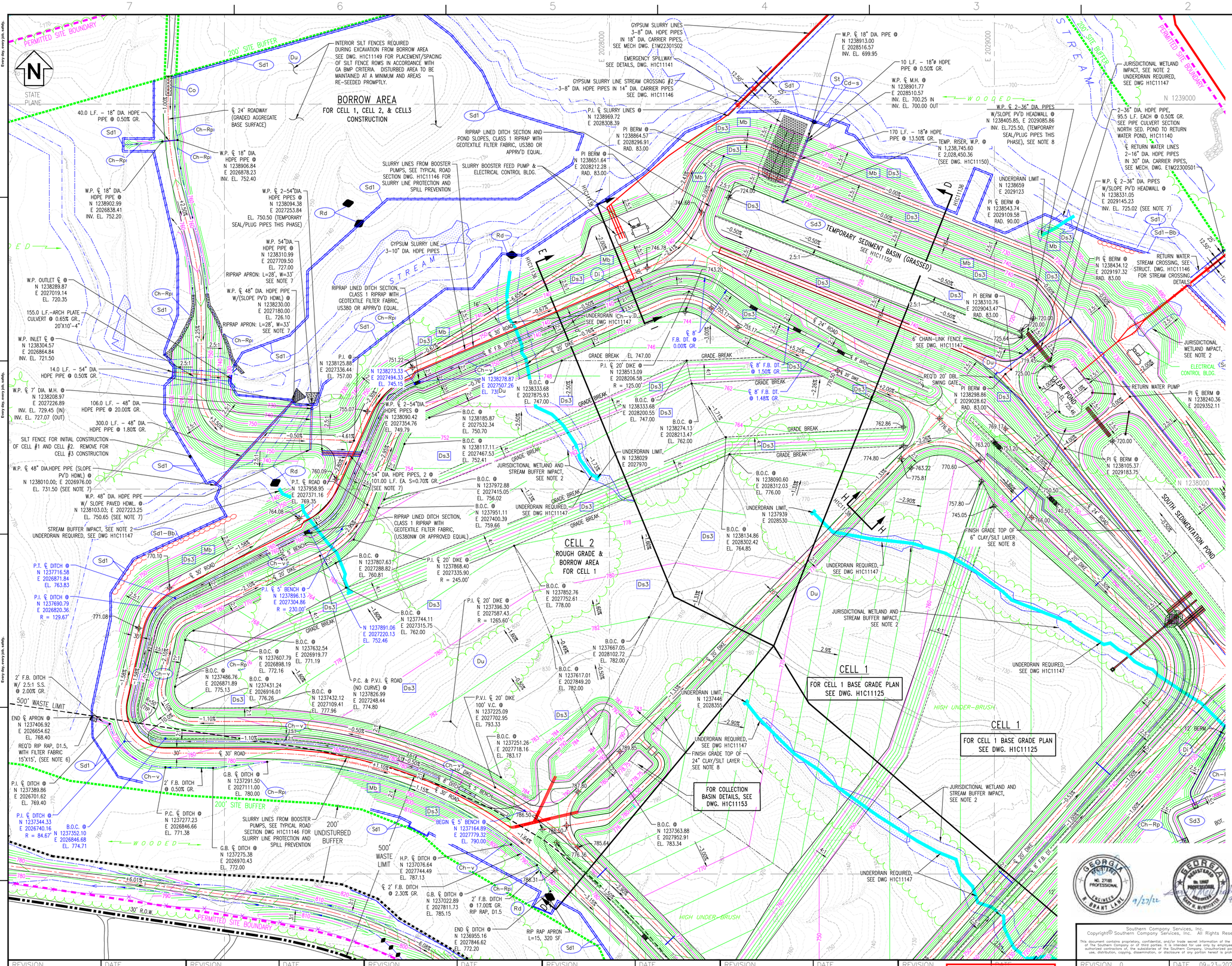
REVISION	DATE
0	09-23-2022

CCR LF PERMIT APPLICATION [BY HHNT, INC.]

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	H1C11125	1	FINAL	0

Acad2008 ANSI F: 40x28


BORROW AREA
FOR CELL 1, CELL 2, & CELL3 CONSTRUCTION
CELL 2
ROUGH GRADE & BORROW AREA FOR CELL 1
CELL 1
FOR CELL 1 BASE GRADE PLAN SEE DWG. H1C11125
CELL 1
FOR CELL 1 BASE GRADE PLAN SEE DWG. H1C11125
TEMPORARY SEDIMENT BASIN (GRASSED)
SEE H1C11150
FOR COLLECTION BASIN DETAILS, SEE DWG. H1C11153
PERMITTED SITE BOUNDARY
200' SITE BUFFER
500' WASTE LIMIT
200' UNDISTURBED BUFFER
STREAM
WOODED
HIGH UNDER-BRUSH
SOUTH SEDIMENTATION POND
CLEAR POND
ELECTRICAL CONTROL BLDG.
INTERIOR SILT FENCES REQUIRED DURING EXCAVATION FROM BORROW AREA SEE DWG. H1C11149 FOR PLACEMENT/SPACING OF SILT FENCE ROWS IN ACCORDANCE WITH GA BMP CRITERIA. DISTURBED AREA TO BE MAINTAINED AT A MINIMUM AND AREAS RE-SEEDED PROMPTLY.
GYPSUM SLURRY LINES 3-8" DIA. HDPE PIPES IN 18" DIA. CARRIER PIPES, SEE MECH DWG. E1M22301S02
EMERGENCY SPILLWAY SEE DETAILS, DWG. H1C11141
GYPSUM SLURRY LINE STREAM CROSSING #2 3-8" DIA. HDPE PIPES IN 14" DIA. CARRIER PIPES SEE DWG. H1C11146
SLURRY LINES FROM BOOSTER PUMPS, SEE TYPICAL ROAD SECTION DWG. H1C11146 FOR SLURRY LINE PROTECTION AND SPILL PREVENTION
SLURRY BOOSTER FEED PUMP & ELECTRICAL CONTROL BLDG.
RIPRAP LINED DITCH SECTION AND POND SLOPES, CLASS 1 RIPRAP WITH GEOTEXTILE FILTER FABRIC, US380 OR APPRV'D EQUAL.
RIPRAP LINED DITCH SECTION, CLASS 1 RIPRAP WITH GEOTEXTILE FILTER FABRIC, (US380NW OR APPROVED EQUAL)
W.P. ℄ 18" DIA. PIPE @ N 1238913.00 E 2028516.57 INV. EL. 699.95
10 L.F. – 18"ø HDPE PIPE @ 0.50% GR.
W.P. ℄ M.H. @ N 1238901.77 E 2028510.57 INV. EL. 700.25 IN INV. EL. 700.00 OUT
170 L.F. – 18"ø HDPE PIPE @ 13.50% GR.
TEMP. RISER, W.P. @ N 1,238,745.60 E 2,028,450.36 (SEE DWG. H1C11150)
W.P. ℄ 2–36" DIA. PIPES W/SLOPE PVD HEADWALL @ N 1238405.85, E 2029085.86 INV. EL.725.50, (1TEMPORARY SEAL/PLUG PIPES THIS PHASE), SEE NOTE 8
2–36" DIA. HDPE PIPE, 95.5 L.F. EACH @ 0.50% GR. SEE PIPE CULVERT SECTION NORTH SED. POND TO RETURN WATER POND, H1C11140
℄ RETURN WATER LINES 2–16" DIA. HDPE PIPES IN 30" DIA. CARRIER PIPES, SEE MECH. DWG. E1M22300S01
W.P. ℄ 2–36" DIA. PIPES W/SLOPE PVD HEADWALL @ N 1238331.05 E 2029145.23 INV. EL. 725.02 (SEE NOTE 7)
JURISDICTIONAL WETLAND IMPACT, SEE NOTE 2 UNDERDRAIN REQUIRED, SEE DWG H1C11147
RETURN WATER STREAM CROSSING, SEE STRUCT. DWG. H1C11146 FOR STREAM CROSSING DETAILS
RETURN WATER PUMP
6' CHAIN-LINK FENCE, SEE DWG. H1C11147
REQ'D 20' DBL SWING GATE
UNDERDRAIN LIMIT N 1238659 E 2029123
PI ℄ BERM @ N 1238543.74 E 2029109.58 RAD. 90.00
PI ℄ BERM @ N 1238434.12 E 2029197.32 RAD. 83.00
PI ℄ BERM @ N 1238310.76 E 2029043.47 RAD. 83.00
PI ℄ BERM @ N 1238298.86 E 2029028.62 RAD. 83.00
PI ℄ BERM @ N 1238240.36 E 2029352.11
PI ℄ BERM @ N 1238105.37 E 2029183.75
JURISDICTIONAL WETLAND IMPACT, SEE NOTE 2
UNDERDRAIN REQUIRED, SEE DWG H1C11147
UNDERDRAIN LIMIT N 1237939 E 2028530
UNDERDRAIN LIMIT N 1237446 E 2028355
UNDERDRAIN REQUIRED, SEE DWG H1C11147
FINISH GRADE TOP OF 24" CLAY/SILT LAYER SEE NOTE 8
FINISH GRADE TOP OF 6" CLAY/SILT LAYER SEE NOTE 8
JURISDICTIONAL WETLAND AND STREAM BUFFER IMPACT, SEE NOTE 2
UNDERDRAIN REQUIRED, SEE DWG H1C11147
UNDERDRAIN REQUIRED, SEE DWG H1C11147
JURISDICTIONAL WETLAND AND STREAM BUFFER IMPACT, SEE NOTE 2
UNDERDRAIN REQUIRED, SEE DWG H1C11147
40.0 L.F. – 18" DIA. HDPE PIPE @ 0.50% GR.
℄ 24' ROADWAY (GRADED AGGREGATE BASE SURFACE)
W.P. ℄ 18" DIA. HDPE PIPE @ N 1238906.84 E 2026878.23 INV. EL. 752.40
W.P. ℄ 18" DIA HDPE PIPE @ N 1238902.99 E 2026838.41 INV. EL. 752.20
W.P. ℄ 2–54"DIA. HDPE PIPES @ N 1238094.38 E 2027253.84 EL. 750.50 (TEMPORARY SEAL/PLUG PIPES THIS PHASE)
W.P. 54"DIA. HDPE PIPE @ N 1238310.99 E 2027709.50 EL. 727.00
RIPRAP APRON: L=28', W=33' SEE NOTE 7
W.P. ℄ 48" DIA. HDPE PIPE W/(SLOPE PVD HDWL) @ N 1238230.00 E 2027180.00 EL. 726.10
RIPRAP APRON: L=28', W=33' SEE NOTE 7
W.P. OUTLET ℄ @ N 1238289.87 E 2027019.14 EL. 720.35
155.0 L.F.–ARCH PLATE CULVERT @ 0.65% GR., 20'X10'–4"
W.P. INLET ℄ @ N 1238304.57 E 2026864.84 INV. EL. 721.50
14.0 L.F. – 54" DIA. HDPE PIPE @ 0.50% GR.
W.P. ℄ 7' DIA. M.H. @ N 1238208.97 E 2027226.89 INV. EL. 729.45 (IN) INV. EL. 727.07 (OUT)
106.0 L.F. – 48" DIA. HDPE PIPE @ 20.00% GR.
300.0 L.F. – 48" DIA. HDPE PIPE @ 1.80% GR.
SILT FENCE FOR INITIAL CONSTRUCTION OF CELL #1 AND CELL #2. REMOVE FOR CELL #3 CONSTRUCTION
W.P. ℄ 48" DIA.HDPE PIPE (SLOPE PVD HDWL) @ N 1238010.00; E 2026976.00 EL. 731.50 (SEE NOTE 7)
W.P. 48" DIA. HDPE PIPE W/ SLOPE PAVED HDWL @ N 1238103.03; E 2027223.25 EL. 750.65 (SEE NOTE 7)
STREAM BUFFER IMPACT, SEE NOTE 2 UNDERDRAIN REQUIRED, SEE DWG H1C11147
P.I. ℄ @ N 1238125.88 E 2027336.44 EL. 757.00
P.I. ℄ @ N 1238273.33 E 2027494.33 EL. 745.15
P.I. ℄ @ N 1238728.87 E 2027507.26 EL. 735
B.O.C. @ N 1238333.68 E 2027875.93 EL. 747.00
GRADE BREAK EL. 747.00
P.I. ℄ 20' DIKE @ N 1238513.09 E 2028206.58 R = 125.00
B.O.C. @ N 1238333.68 E 2028200.55 EL. 747.00
℄ 8' F.B. DT. @ 0.00% GR.
℄ 8' F.B. DT. @ 1.50% GR.
℄ 8' F.B. DT. @ 1.48% GR.
W.P. ℄ 2–54"DIA. HDPE PIPES @ N 1238090.42 E 2027354.76 EL. 749.79
B.O.C. @ N 1238185.87 E 2027532.34 EL. 750.70
B.O.C. @ N 1238117.11 E 2027467.53 EL. 752.41
54" DIA. HDPE PIPES, 2 @ 101.00 L.F. EA. S=0.70% GR. (SEE NOTE 7)
B.O.C. @ N 1237972.88 E 2027415.05 EL. 756.02
B.O.C. @ N 1237951.11 E 2027400.39 EL. 759.66
P.T. ℄ ROAD @ N 1237858.95 E 2027371.16 EL. 769.35
P.I. ℄ 5' BENCH @ N 1237896.13 E 2027304.86 R = 230.00
P.I. ℄ 20' DIKE @ N 1237868.40 E 2027335.90 R = 245.00'
P.I. ℄ DITCH @ N 1237716.58 E 2026871.84 EL. 763.83
P.I. ℄ DITCH @ N 1237690.79 E 2026820.36 R = 129.67'
B.O.C. @ N 1237807.63 E 2027288.82 EL. 760.81
B.O.C. @ N 1237744.11 E 2027315.75 EL. 762.00
N 1237891.06 E 2027220.13 EL. 752.46
B.O.C. @ N 1237632.54 E 2026919.77 EL. 771.19
B.O.C. @ N 1237807.79 E 2026898.19 EL. 772.16
B.O.C. @ N 1237486.76 E 2026871.89 EL. 775.13
B.O.C. @ N 1237431.24 E 2026916.01 EL. 776.26
B.O.C. @ N 1237432.12 E 2027109.41 EL. 777.96
P.C. & P.V.I. ℄ ROAD (NO CURVE) @ N 1237826.99 E 2027248.44 EL. 774.80
P.V.I. ℄ 20' DIKE 100' V.C. @ N 1237225.09 E 2027702.95 EL. 793.33
B.O.C. @ N 1237251.26 E 2027718.16 EL. 783.17
B.O.C. @ N 1237852.76 E 2027752.61 EL. 778.00
B.O.C. @ N 1237667.05 E 2028102.72 EL. 782.00
B.O.C. @ N 1237617.01 E 2027849.20 EL. 782.00
B.O.C. @ N 1237363.88 E 2027952.91 EL. 783.34
B.O.C. @ N 1238134.86 E 2028302.42 EL. 764.85
B.O.C. @ N 1238090.60 E 2028312.03 EL. 776.00
P.I. ℄ DITCH @ N 1237389.86 E 2026701.62 EL. 769.40
P.I. ℄ DITCH @ N 1237344.33 E 2026740.16 R = 84.67'
B.O.C. @ N 1237352.10 E 2026846.68 EL. 774.71
P.C. ℄ DITCH @ N 1237277.23 E 2026846.66 EL. 771.38
G.B. ℄ DITCH @ N 1237275.38 E 2026970.43 EL. 772.00
G.B. ℄ DITCH @ N 1237291.50 E 2027111.00 EL. 780.00
2' F.B. DITCH @ 0.50% GR.
BEGIN ℄ 5' BENCH @ N 1237164.89 E 2027779.32 EL. 790.00
H.P. ℄ DITCH @ N 1237076.64 E 2027744.49 EL. 787.13
℄ 2' F.B. DITCH @ 2.30% GR.
G.B. ℄ DITCH @ N 1237022.89 E 2027811.73 EL. 785.15
2' F.B. DITCH @ 17.00% GR. RIP RAP, D1.5
END ℄ DITCH @ N 1236955.16 E 2027846.62 EL. 772.20
RIP RAP APRON L=15, 320 SF.
2' F.B. DITCH W/ 2.5:1 S.S. @ 2.00% GR.
END ℄ APRON @ N 1237406.92 E 2026654.62 EL. 768.40
REQ'D RIP RAP, D1.5, WITH FILTER FABRIC 15'X15', (SEE NOTE 6)
30' ℄ 30' ROAD
30' R.O.W.
PERMITTED SITE BOUNDARY
P.I. ℄ @ N 1237392.10 E 2026846.68 EL. 774.71
P.C. ℄ DITCH @ N 1237277.23 E 2026846.66 EL. 771.38
G.B. ℄ DITCH @ N 1237275.38 E 2026970.43 EL. 772.00
SLURRY LINES FROM BOOSTER PUMPS, SEE TYPICAL ROAD SECTION DWG H1C11146 FOR SLURRY LINE PROTECTION AND SPILL PREVENTION
UNDERDRAIN LIMIT, N 1238029 E 2027970
UNDERDRAIN REQUIRED, SEE DWG H1C11147
UNDERDRAIN LIMIT, N 1237939 E 2028530
UNDERDRAIN REQUIRED, SEE DWG H1C11147
UNDERDRAIN REQUIRED, SEE DWG H1C11147
UNDERDRAIN REQUIRED, SEE DWG H1C11147

CULVERT TABLE

CULVERT NO.	DIAMETER	PIPE INLET/OUTLET COORDINATES	INVERT ELEVATION	LENGTH, (FT.)	OUTLET TREATMENT
C-1	36"	N 1237932.67 E 2024242.86 N 1237967.08 E 2024279.13	814.00 812.00	50.0	APRON La=30.0', W=33.0'
C-2	24"	N 1237466.00 E 2025510.00 N 1237497.30 E 2025535.00	792.00 791.80	40.0	GRASSED
C-3	30"	N 1237079.50 E 2026426.40 N 1237079.50 E 2026426.40	774.00 772.50	100.0	APRON La=22.5', w=25.0
C-4	24"	N 1236258.00 E 2028000.00 N 1236300.00 E 2028056.00	748.00 744.00	70.0	APRON La=24', W=26.0'
C-5	30"	N 1235950.00 E 2028665.50 N 1235996.00 E 1235996.00	731.25 731.00	50.0	GRASSED
C-6	30"	N 1236048.00 E 2029413.80 N 1236087.30 E 2029406.00	720.20 720.00	40.0	GRASSED
C-7	24"	N 1236474.70 E 2030137.70 N 1236420.00 E 2030189.00	701.00 700.00	75.0	GRASSED
C-8	24"	N 1237217.20 E 2026718.00 N 1237287.80 E 2026657.50	769.40 768.40	93.0	GRASSED
C-9	18"	N 1237879.24 E 2024373.61 N 1237955.20 E 2024329.15	811.00 809.68	88.0	APRON La=20.0', W=35.0'

LEGEND:

- PROPERTY LINE
- SITE BOUNDARY
- 200' UNDISTURBED BUFFER
- 500' WASTE BUFFER
- STREAMS
- 25' STREAM AND WETLAND BUFFER
- LIMITS OF CLEARING (SECURITY ROAD)
- WETLANDS
- EXISTING GROUND CONTOURS
- FINAL GRADE CONTOURS
- EXISTING SECURITY FENCE
- PROPOSED SECURITY FENCE
- TREELINE

EROSION CONTROL LEGEND

- Sd1 — SILT FENCE (SEE H1C11149)
- Di — DIVERSION (SEE H1C11149)
- Lv — LEVEL SPREADER
- Du — DUST CONTROL
- Cd-s — STONE CHECK DAM (2"-10" STONE)
- Sd3 — TEMPORARY SEDIMENT BASIN
- Ds3 — DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)
- St — STORMDRAIN OUTLET PROTECTION
- Su — SURFACE ROUGHENING
- Co — CONSTRUCTION EXIT
- Ch-v — CHANNEL VEGETATIVE LINING
- Ch-rp — CHANNEL STABILIZATION (RIPRAP)

REFERENCES:

H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11128 SECURITY ROAD PROFILE
H1C11146 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS, SHEET 4
H1C11149 EROSION AND SEDIMENTATION CONTROL DETAILS, SHEET 1
H1C11150 EROSION AND SEDIMENTATION CONTROL DETAILS, SHEET 2

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
By: Keith Stevens

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
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3. FOR TYPICAL ROAD SECTIONS SEE DETAILS, DRAWING H1C11146. ALL ROAD AND DITCH SIDE SLOPES SHALL BE 3:1 MAX. (3 HORIZ. TO 1 VERT.) UNLESS NOTED OTHERWISE.
4. FOR CENTERLINE PROFILE OF SECURITY ROAD, SEE DRAWING H1C11128.
5. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
6. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994) WEST ZONE.

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Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
SITE DEVELOPMENT
SECURITY ROAD PLAN

REVISION	DATE
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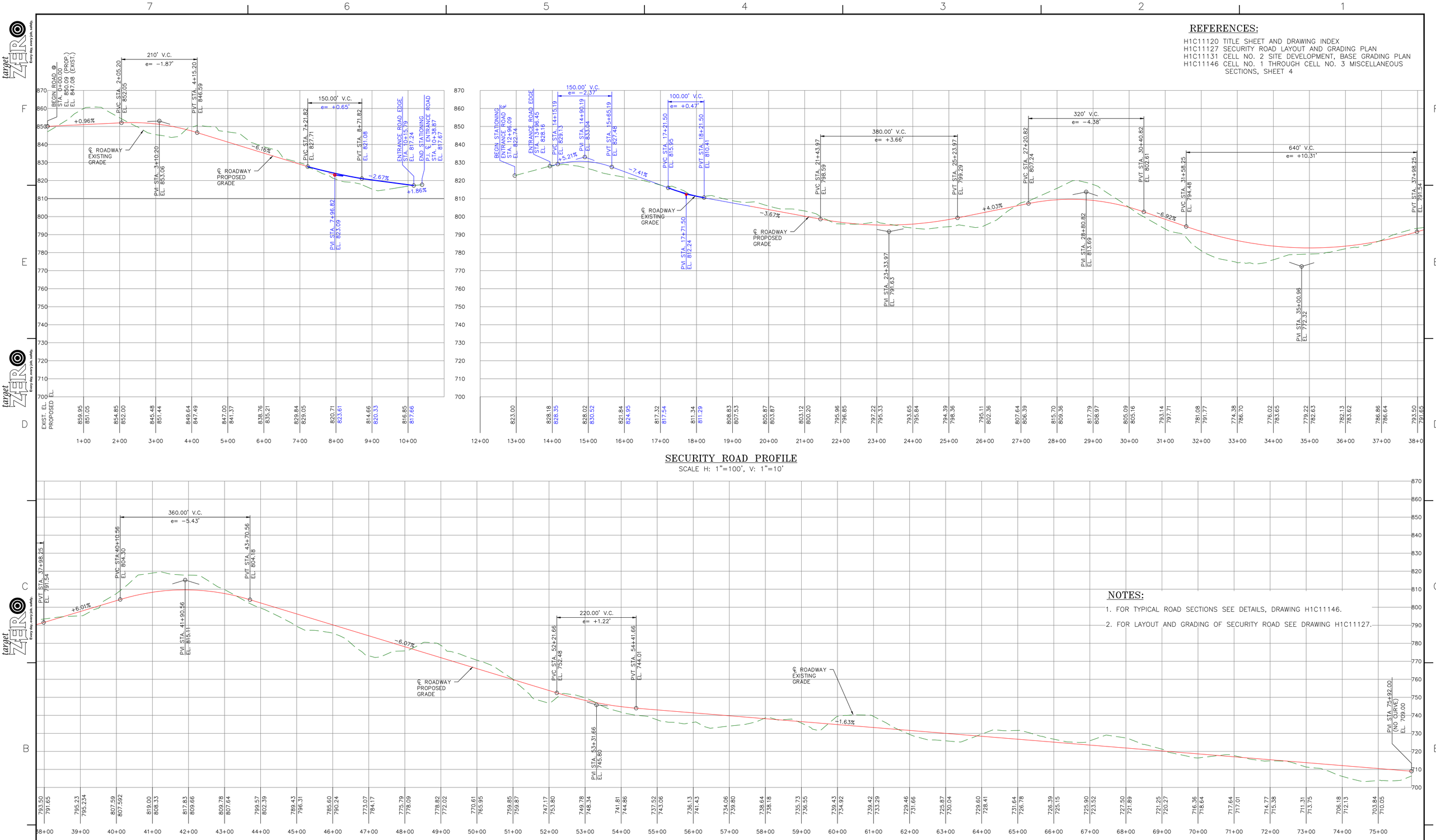
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	H1C11127	1	FINAL	0

Acad2008 ANSI F: 40x28

REFERENCES:

H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11127 SECURITY ROAD LAYOUT AND GRADING PLAN
H1C11131 CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11146 CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS, SHEET 4



SECURITY ROAD PROFILE

SCALE H: 1"=100', V: 1"=10'

NOTES:

1. FOR TYPICAL ROAD SECTIONS SEE DETAILS, DRAWING H1C11146.
2. FOR LAYOUT AND GRADING OF SECURITY ROAD SEE DRAWING H1C11127.

SECURITY ROAD PROFILE

SCALE H: 1"=100', V: 1"=10'

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27185 R. BRANT LANE 9/27/22

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12987 KEITH N. MCMINIMEE 9/27/22

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

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REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

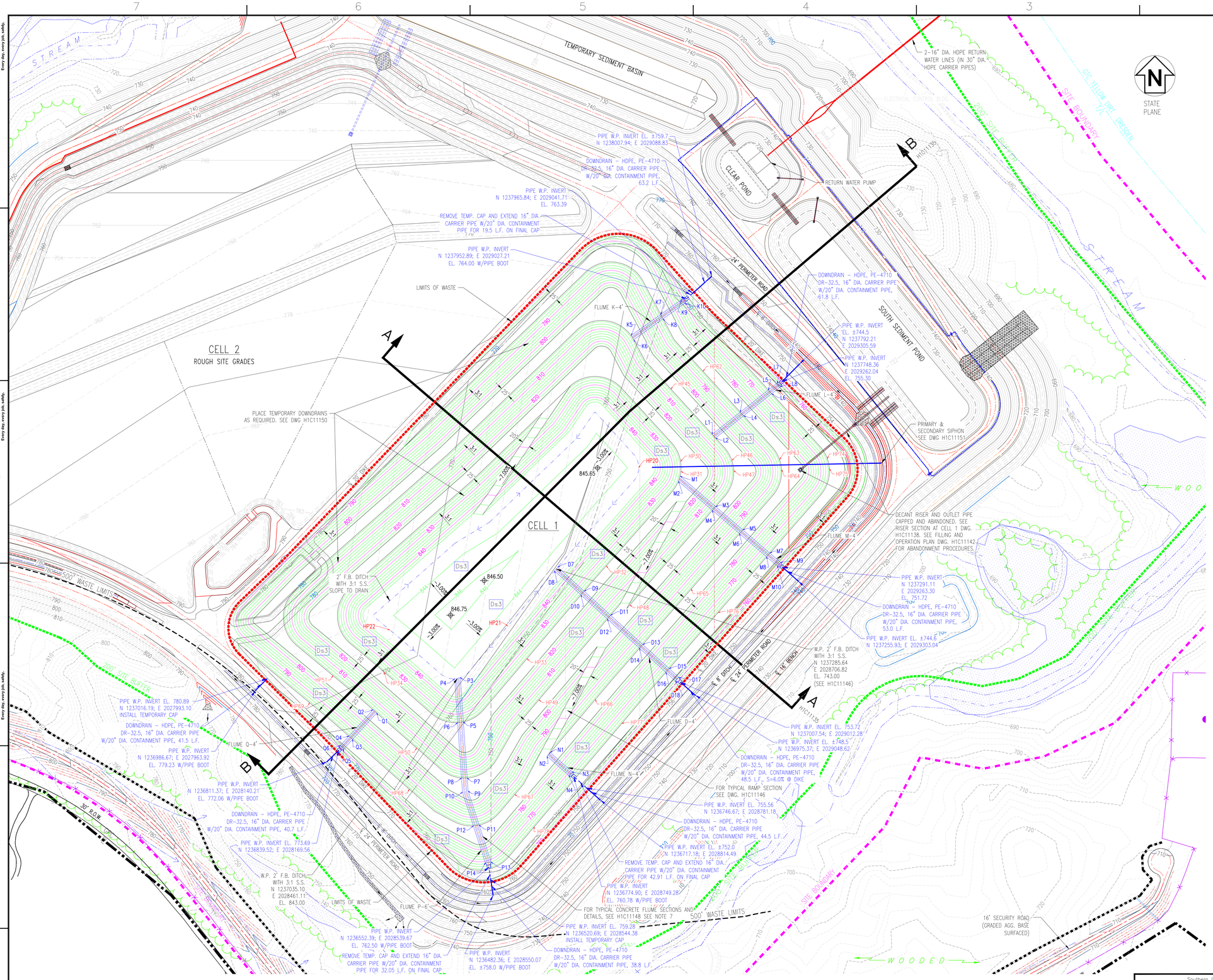
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
SITE DEVELOPMENT
SECURITY ROAD PROFILE

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	H1C11128	1	FINAL	0

Acad2008 ANSI F: 40x28



LEGEND:

- PROPERTY LINE
- SITE BOUNDARY
- 200' SITE BUFFER
- 500' WASTE LIMIT
- STREAMS
- 25' STREAM BUFFER
- LIMITS OF CLEARING (SECURITY ROAD)
- LIMITS OF WASTE
- WETLANDS
- EXISTING GROUND CONTOURS
- FINAL GRADE CONTOURS
- EXISTING SECURITY FENCE
- PROPOSED SECURITY FENCE
- xxx.xx SPOT ELEVATIONS
- TREELINE

EROSION CONTROL LEGEND

Ds.3 DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)

REFERENCES:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11135	CELL NO. 1, SECTIONS THRU STACK
H1C11146	MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1
H1C11148	MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
H1C11151	SIPHON SECTIONS AND DETAILS
H1C11152	FLUME DATA SHEET

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
5. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
6. FOR TYPICAL ROADWAY/RAMP SECTIONS SEE DRAWING H1C11146.
7. PERMANENT DOWNDRAINS TO BE CONSTRUCTED UPON COMPLETION OF PLACEMENT OF FINAL COVER
8. REFER TO SHEET H1C11148 FOR TYPICAL DOWNDRAIN DETAILS.
9. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27185 R. BRANT LANE 9/27/22

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12907 KEITH M. MCMINIMEE 9/6/22

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

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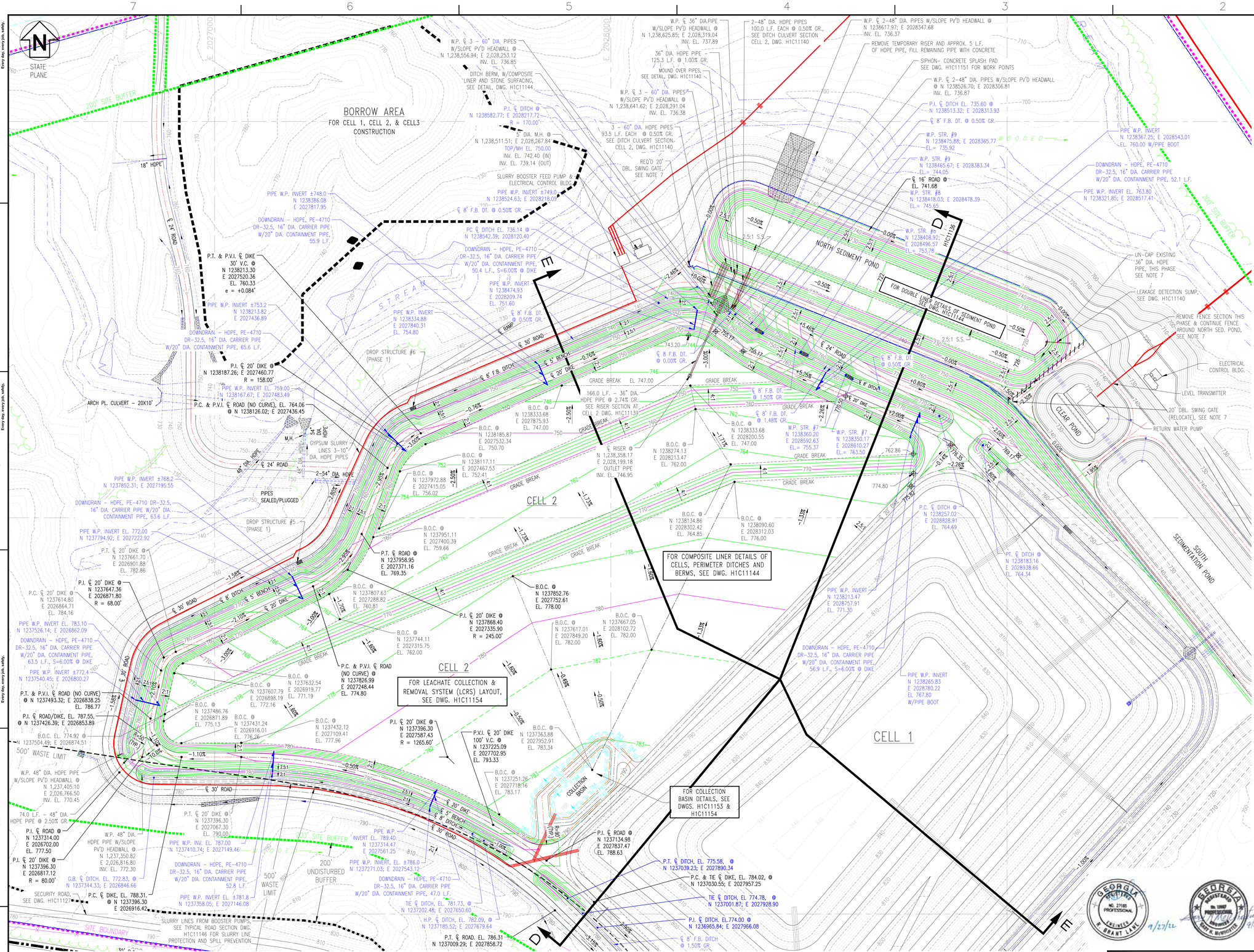
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

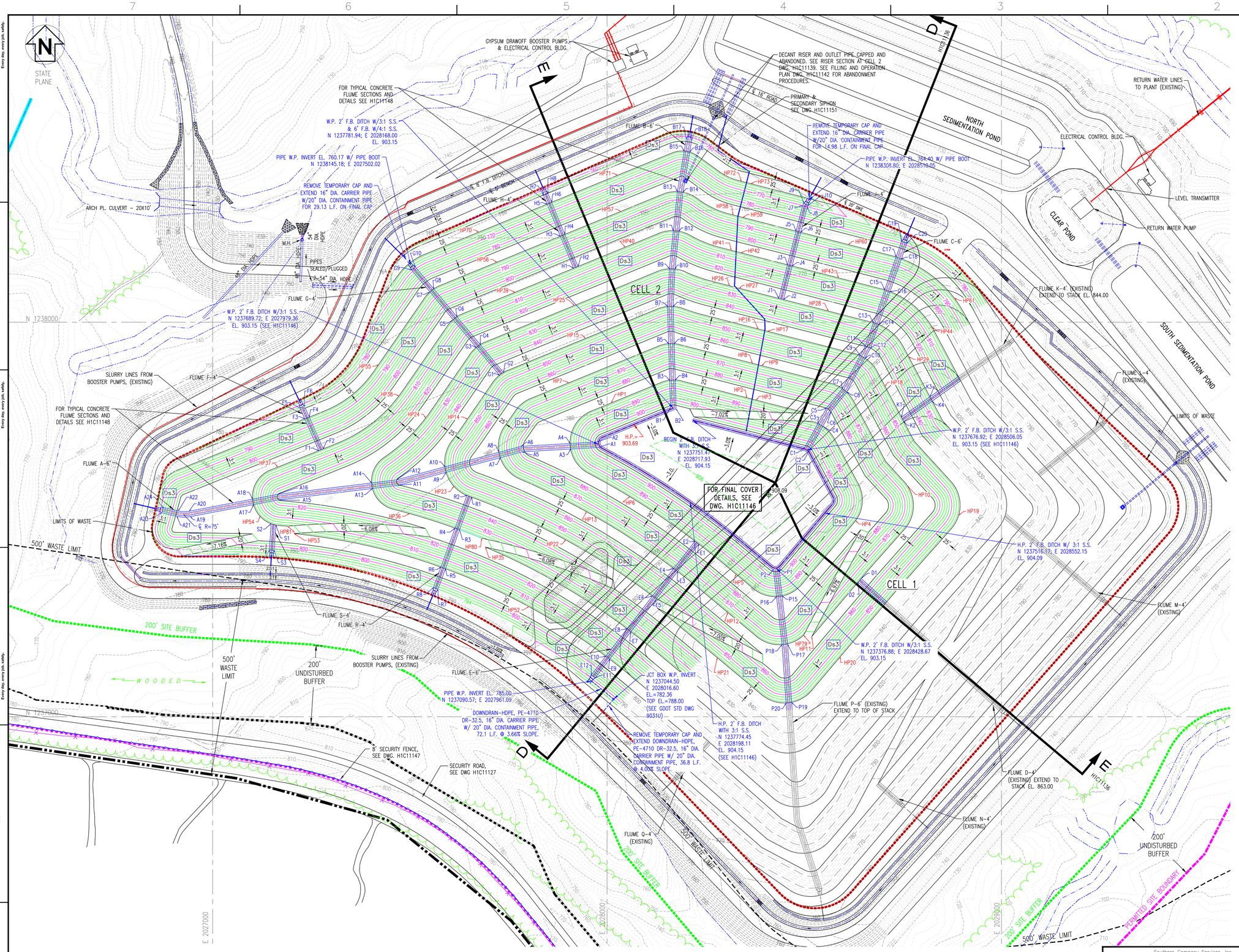
PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 SITE DEVELOPMENT
FINAL STACKING PLAN

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
0	09-23-2022	ANR	RBL					
CCR LF PERMIT APPLICATION [BY HHNT, INC.]								

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	H1C11130	1	FINAL	0

Acad2008 ANSI F: 40x28


BORROW AREA
FOR CELL 1, CELL 2, & CELL3 CONSTRUCTION
CELL 1
CELL 2
NORTH SEDIMENT POND
SOUTH SEDIMENTION POND
CLEAR POND
STREAM
FOR DOUBLE LINER DETAILS OF SEDIMENT POND SEE DWG. H1C11142
FOR COMPOSITE LINER DETAILS OF CELLS, PERIMETER DITCHES AND BERMS, SEE DWG. H1C11144
FOR LEACHATE COLLECTION & REMOVAL SYSTEM (LCRS) LAYOUT, SEE DWG. H1C11154
FOR COLLECTION BASIN DETAILS, SEE DWGS. H1C11153 & H1C11154
STATE PLANE
200' SITE BUFFER
500' WASTE LIMIT
SITE BOUNDARY
P.T. & P.V.I. ℄ DIKE 30' V.C. @ N 1238213.30 E 2027520.36 EL. 760.33 e = +0.084'
P.I. ℄ 20' DIKE @ N 1238187.26; E 2027460.77 R = 158.00'
P.C. & P.V.I. ℄ ROAD (NO CURVE), EL. 764.06 @ N 1238126.02; E 2027636.45
P.I. ℄ 20' DIKE @ N 1237647.36 E 2026871.80 R = 68.00'
P.T. & P.V.I. ℄ ROAD (NO CURVE) @ N 1237493.32; E 2026838.25 EL. 786.77
P.I. ℄ ROAD/DIKE, EL. 787.55, @ N 1237426.39; E 2026853.89
P.C. & P.V.I. ℄ ROAD (NO CURVE) @ N 1237826.99 E 2027248.44 EL. 774.80
P.I. ℄ ROAD @ N 1237314.00 E 2026702.00 EL. 777.50
P.I. ℄ 20' DIKE @ N 1237396.30 E 2026817.12 R = 80.00'
P.C. ℄ DIKE, EL. 788.31, @ N 1237396.30 E 2026916.42
P.I. ℄ ROAD @ N 1237134.98 E 2027837.47 EL. 788.63
P.T. ℄ ROAD @ N 1237958.95 E 2027371.16 EL. 769.35
P.T. ℄ ROAD. EL. 786.31 N 1237009.29; E 2027858.72
P.T. ℄ DITCH, EL. 775.58, @ N 1237039.23; E 2027890.34
P.C. & TIE ℄ DIKE, EL. 784.02, @ N 1237030.55; E 2027957.25
TIE ℄ DITCH, EL 774.78, @ N 1237001.87; E 2027928.90
P.I. ℄ DITCH, EL.774.00 @ N 1236965.84; E 2027966.08
P.C. ℄ DITCH @ N 1238257.02 E 2028828.91 EL. 764.69
P.T. ℄ DITCH @ N 1238183.16 E 2028938.66 EL. 764.34
P.I. ℄ DITCH @ N 1238582.77; E 2028217.72 R = 170.00'
P.C. ℄ DITCH EL. 736.14 @ N 1238542.39; 2028120.40
P.I. ℄ DITCH EL. 735.60 @ N 1238513.32; E 2028313.93
5' DIA. M.H. @ N 1,238,511.51; E 2,028,267.84 TOP/MH EL. 750.00 INV. EL. 742.40 (IN) INV. EL. 739.14 (OUT)
SLURRY BOOSTER FEED PUMP & ELECTRICAL CONTROL BLDG.
PIPE W.P. INVERT ±748.0 N 1238386.08 E 2027817.95
PIPE W.P. INVERT ±749.0 N 1238524.63; E 2028218.09
PIPE W.P. INVERT ±753.2 N 1238213.82 E 2027436.89
PIPE W.P. INVERT EL. 759.00 N 1238167.67; E 2027483.49
PIPE W.P. INVERT EL. 787.00 N 1237410.74; E 2027149.46
PIPE W.P. INVERT EL. ±786.0 N 1237271.03; E 2027543.12
PIPE W.P. INVERT EL. ±781.8 N 1237358.05; E 2027146.08
PIPE W.P. INVERT EL. 789.40 N 1237314.47 E 2027561.25
PIPE W.P. INVERT EL. 772.00 N 1237794.92; E 2027222.92
PIPE W.P. INVERT EL. 768.2 N 1237852.31; E 2027195.55
PIPE W.P. INVERT EL. 783.10 N 1237526.14; E 2026862.09
PIPE W.P. INVERT ±772.4 N 1237540.45; E 2026800.27
PIPE W.P. INVERT EL. 763.80 N 1238321.85; E 2028517.41
PIPE W.P. INVERT N 1238367.25; E 2028543.01 EL. 760.00 W/PIPE BOOT
PIPE W.P. INVERT N 1238265.83 E 2028780.22 EL. 767.80 W/PIPE BOOT
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 55.9 L.F.
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 65.6 L.F.
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 50.4 L.F., S=6.00% @ DIKE
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 63.6 L.F.
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 63.6 L.F., S=6.00% @ DIKE
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 52.8 L.F.
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 47.0 L.F.
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 52.1 L.F.
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 56.9 L.F., S=6.00% @ DIKE
W.P. ℄ 3 – 60" DIA. PIPES W/SLOPE PV'D HEADWALL @ N 1,238,556.94; E 2,026,253.12 INV. EL. 736.85
W.P. ℄ 36" DIA.PIPE W/SLOPE PV'D HEADWALL @ N 1,238,625.85; E 2,028,319.04 INV. EL. 737.89
W.P. ℄ 3 – 60" DIA. PIPES W/SLOPE PV'D HEADWALL @ N 1,238,641.62; E 2,028,291.04 INV. EL. 736.38
W.P. ℄ 2–48" DIA. PIPES W/SLOPE PV'D HEADWALL @ N 1238617.97; E 2028347.68 INV. EL. 736.37
W.P. ℄ 2–48" DIA. PIPES W/SLOPE PV'D HEADWALL @ N 1238526.70; E 2028306.81 INV. EL. 736.87
W.P. STR. #9 N 1238475.88; E 2028365.77 EL.= 735.92
W.P. STR. #9 N 1238465.67; E 2028383.34 EL.= 744.05
W.P. STR. #8 N 1238418.03; E 2028478.39 EL.= 745.65
W.P. STR. #6 N 1238408.92; E 2028496.57 EL.= 753.78
W.P. STR. #7 N 1238360.20 E 2028592.63 EL.= 755.37
W.P. STR. #7 N 1238350.17 E 2028610.37 EL.= 763.50
2–48" DIA. HDPE PIPES 100.0 L.F. EACH @ 0.50% GR., SEE DITCH CULVERT SECTION CELL 2, DWG. H1C11140
3 – 60" DIA. HDPE PIPES 93.5 L.F. EACH @ 0.50% GR. SEE DITCH CULVERT SECTION CELL 2, DWG. H1C11140
36" DIA. HDPE PIPE – 125.3 L.F. @ 1.00% GR.
166.0 L.F. – 36" DIA. HDPE PIPE @ 2.74% GR. SEE RISER SECTION AT CELL 2 DWG. H1C11139
74.0 L.F. – 48" DIA. HDPE PIPE @ 2.50% GR.
2–54" DIA. HDPE PIPES SEALED/PLUGGED
GYPSUM SLURRY LINES 3–10" DIA. HDPE PIPES
ARCH PL. CULVERT – 20X10'
18" HDPE
48" DIA. HDPE
DITCH BERM, W/COMPOSITE LINER AND STONE SURFACING, SEE DETAIL, DWG. H1C11144
MOUND OVER PIPES, SEE DETAIL, DWG. H1C11140
REQ'D 20' DBL. SWING GATE, SEE NOTE 7
REMOVE TEMPORARY RISER AND APPROX. 5 L.F. OF HDPE PIPE, FILL REMAINING PIPE WITH CONCRETE
SIPHON– CONCRETE SPLASH PAD SEE DWG. H1C11151 FOR WORK POINTS
UN-CAP EXISTING 36" DIA. HDPE PIPE, THIS PHASE SEE NOTE 7
REMOVE FENCE SECTION THIS PHASE & CONTINUE FENCE AROUND NORTH SED. POND, SEE NOTE 7
LEAKAGE DETECTION SUMP SEE DWG. H1C11140
ELECTRICAL CONTROL BLDG.
LEVEL TRANSMITTER
20' DBL. SWING GATE (RELOCATE), SEE NOTE 7
RETURN WATER PUMP
DROP STRUCTURE #6 (PHASE 1)
DROP STRUCTURE #5 (PHASE 1)
COLLECTION BASIN
SLURRY LINES FROM BOOSTER PUMPS, SEE TYPICAL ROAD SECTION DWG. H1C11146 FOR SLURRY LINE PROTECTION AND SPILL PREVENTION
SECURITY ROAD, SEE DWG. H1C11127
200' UNDISTURBED BUFFER
WOODED
GRADE BREAK
B.O.C. @ N 1238333.68 E 2027875.93 EL. 747.00
B.O.C. @ N 1238185.87 E 2027532.34 EL. 750.70
B.O.C. @ N 1238117.11 E 2027467.53 EL. 752.41
B.O.C. @ N 1237972.88 E 2027415.05 EL. 756.02
B.O.C. @ N 1237951.11 E 2027400.39 EL. 759.66
B.O.C. @ N 1237807.63 E 2027288.82 EL. 760.81
B.O.C. @ N 1237744.11 E 2027315.75 EL. 762.00
B.O.C. @ N 1237607.79 E 2026898.19 EL. 772.16
B.O.C. @ N 1237632.54 E 2026919.77 EL. 771.19
B.O.C. @ N 1237486.76 E 2026871.89 EL. 775.13
B.O.C. @ N 1237431.24 E 2026916.01 EL. 776.26
B.O.C. @ N 1237432.12 E 2027109.41 EL. 777.96
B.O.C. @ N 1237251.26 E 2027718.16 EL. 783.17
B.O.C. @ N 1237363.88 E 2027952.91 EL. 783.34
B.O.C. @ N 1237396.30 E 2027607.90 EL. 790.00
B.O.C. @ N 1237617.01 E 2027849.20 EL. 782.00
B.O.C. @ N 1237667.05 E 2028102.72 EL. 782.00
B.O.C. @ N 1238134.86 E 2028302.42 EL. 764.85
B.O.C. @ N 1238090.60 E 2028312.03 EL. 776.00
B.O.C. @ N 1237852.76 E 2027752.61 EL. 778.00
B.O.C. @ N 1237396.30 E 2027587.43 R = 1265.60'
P.V.I. ℄ 20' DIKE 100' V.C. @ N 1237225.09 E 2027702.95 EL. 793.33
P.I. ℄ 20' DIKE @ N 1237868.40 E 2027335.90 R = 245.00'
P.I. ℄ 20' DIKE @ N 1237396.30 E 2027607.90 EL. 790.00
P.I. ℄ 20' DIKE @ N 1237661.70 E 2026901.88 EL. 782.86
P.C. ℄ 20' DIKE @ N 1237614.80 E 2026864.71 EL. 784.16
P.I. ℄ 20' DIKE @ N 1237614.80 E 2026864.71 EL. 784.16
P.I. ℄ 20' DIKE @ N 1237614.80 E 2026864.71 EL. 784.16
P.C



LEGEND:

- PROPERTY LINE
- SITE BOUNDARY
- 200' UNDISTURBED BUFFER
- 500' WASTE LIMIT
- STREAMS
- 25' STREAM BUFFER
- LIMITS OF CLEARING (SECURITY ROAD)
- LIMITS OF WASTE
- WETLANDS
- EXISTING GROUND CONTOURS
- FINAL GRADE CONTOURS
- EXISTING SECURITY FENCE
- PROPOSED SECURITY FENCE
- TREELINE

EROSION CONTROL LEGEND

Ds3 — DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)

REFERENCES:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11136	CELL NO. 1 & 2 COMBINED, SECTIONS THRU STACK
H1C11144	MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
H1C11146	MISCELLANEOUS SECTIONS AND DETAILS, SHEET 4
H1C11151	SIPHON SECTIONS AND DETAILS
H1C11152	FLUME DATA SHEET

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
5. SEE DRAWING H1C11149 FOR EROSION CONTROL NOTES.
6. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
7. FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11146.
8. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.

CLOSURE AREAS:

CELL 1 CLOSURE AREA – 24.0 ACRES
CELL 2 CLOSURE AREA – 45.1 ACRES

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER W. BRANT LANE 9/27/22

GEORGIA REGISTERED NO. 11007 PROFESSIONAL ENGINEER BRETT M. MCGRIFFIN 9/26/22

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 & 2 COMBINED
FINAL STACKING PLAN

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	H1C11132	1	FINAL	0

Acad2008 ANSI F: 40x28

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
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3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
5. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
6. SEE DRAWING H1C11143 FOR DETAILS OF DECANT RISER STRUCTURE. UPON THE FILLING/STACKING OF GYPSUM TO LIMITS OF RISER, THE STRUCTURE SHALL BE FILLED WITH CONCRETE, ABANDONED AND REPLACED WITH A SIPHON DISCHARGE STRUCTURE. SEE GENERAL GSSUM STACKING AND OPERATION PLAN, DWG. H1C11142.
7. FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11146.
8. SEE DRAWING H1C11145 FOR TYPICAL HEADWALL DETAILS AND SECTIONS.
9. BASE GRADE ELEVATIONS SHOWN FOR THE CELLS AND POND BOTTOMS REPRESENT TOP OF CLAY/SILT LAYER. ADDITIONAL SAND OR SOIL/MARKER BED MATERIAL WILL BE REQUIRED ABOVE THIS SURFACE. SEE CELL AND POND COMPOSITE LINER DETAILS, DRAWING H1C11144.
10. SEE DRAWING H1C11150 FOR ADDITIONAL EROSION CONTROL MEASURES INCLUDING TEMPORARY SEDIMENT BASIN FOR THIS AREA.
11. REFER TO SHEET H1C11148 FOR TYPICAL DOWNDRAIN DETAILS.
12. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.

STATE PLANE

N 1239000
N 1238000
E 2025000
E 2026000
E 2027000

MATCH LINE AT E 2025375 (THIS DRAWING)

YATES – YELLOW DIRT 230KV

SITE BOUNDARY

200' SITE BUFFER

500' WASTE LIMIT

W O O D E D

EXISTING DIRT ROAD

HOLLINGSWORTH FERRY ROAD

GPC PROPERTY LINE

STREAM

BORROW AREA
FOR CELL 1, CELL 2, & CELL3 CONSTRUCTION

INTERIOR SILT FENCES REQUIRED DURING EXCAVATION FROM BORROW AREA SEE DWG. H1C11149 FOR PLACEMENT/SPACING OF SILT FENCE ROWS IN ACCORDANCE WITH GA BMP CRITERIA. DISTURBED AREA TO BE MAINTAINED AT A MINIMUM AND AREAS RE-SEEDED PROMPTLY.

CELL 3

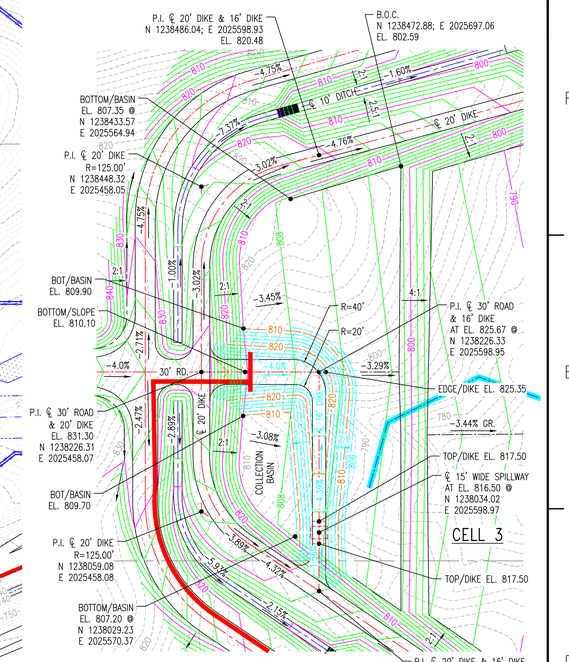
FOR COMPOSITE LINER DETAILS OF CELLS, PERIMETER DITCHES AND BERMS, SEE DWG. H1C11144

FOR LEACHATE COLLECTION & REMOVAL SYSTEM (LCRS) LAYOUT, SEE DWG. H1C11155

PIPE W.P. INVERT EL. 804.00 N 1238589.11; E 2025808.13
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 63.1 L.F.
PIPE W.P. INVERT EL. 806.50 N 1238528.20; E 2025824.45
℄ DITCH PC @ N 1238702.72 E 2026141.47 EL. 773.40
℄ DITCH PI @ N 1238742.07 E 2026281.18 RAD. 166.00
PIPE W.P. INVERT EL. 780.00 N 1238552.88; E 2026274.17
℄ DITCH PT EL. 769.84 @ N 1238608.85; E 2026338.82
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 62.6 L.F., S=6.00% @ DIKE
PIPE W.P. INVERT EL. 775.25 N 1238577.30; E 2026331.76
FINISH GRADE TOP OF 24" CLAY/SILT LAYER SEE NOTE 9
PIPE W.P. INVERT EL. 775.00 N 1238277.90; E 2026391.26
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE; 55.0 L.F.
PIPE W.P. INVERT EL. ±768.6 N 1238298.34; E 2026442.05
W.P. ℄ 54" DIA. HDPE PIPE @ N 1238130.31; E 2026545.78 EL. 754.80 (SEE NOTE 8)
P.I. EL. 763.54 @ N 1238152.14; E 2026571.96
54" DIA. HDPE PIPE @ 147.0 L.F. (NORTH PIPE), S=1.09% GR. SEE DITCH CULVERT SECTION CELL 3, DWG. H1C11140
℄ DITCH PI @ N 1238120.51 E 2026550.12 RAD. 166.10
℄ DITCH PC @ N 1238168.34 E 2026529.43 EL. 754.83
5' DIA. M.H. N 1238108.00 E 2026510.00 INV. EL. 759.48 (IN) INV. EL. 755.59 (OUT)
℄ RISER @ N 1238117.00 E 2026300.00 OUTLET PIPE INV. EL. 763.60 (SEE NOTE 6)
208.0 L.F. –36" DIA. HDPE PIPE @ 1.98% GR. SEE RISER SECTION AT CELL 3 DWG. H1C11140
℄ DITCH PT @ N 1238069.43 E 2026539.78 EL. 754.83
DITCH BERM, W/ COMPOSITE LINER AND STONE SURFACING, SEE SECTION 1–1, DWG. H1C11144
FINISH GRADE TOP OF 24" CLAY/SILT LAYER SEE NOTE 9
℄ DITCH PT EL. 812.38 @ N 1238531.04; E 2025531.91
℄ DITCH PI @ N 1238502.30; E 2025429.86 RAD. 140.00
CONCRETE DITCH DROP STRUCTURES #10 THRU #19, SEE DWG. H1C11147
FINISH GRADE TOP OF 24" CLAY/SILT LAYER (SEE NOTE 9)
PIPE W.P. INVERT N 1238458.45; E 2025451.51 EL. 821.50 (W/PIPE BOOT)
DOWNDRAIN – HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 60.7 L.F.
W.P. PIPE INVERT EL. 822.00 N 1238419.49; E 2025498.07
℄ DITCH PT EL. 823.44 @ N 1238396.27; E 2025429.87
END ℄ DITCH EL. 825.15 @ N 1238261.65; E 2025429.87
END ℄ DITCH @ N 1238191.95 E 2025429.89 EL. 824.00
℄ DITCH PT @ N 1238079.96 E 2025429.90 EL. 819.46
DOWNDRAIN – HDPE, PE-4710 DR–32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE; 48.3 L.F.
℄ DITCH PI @ N 1238013.63; E 2025429.90 RAD. 125.00
PIPE W.P. INVERT N 1238033.68; E 2025455.50 EL. 820.25 (W/PIPE BOOT)
PIPE W.P. INVERT EL. 821.70 N 1238061.91; E 2025494.73
℄ DITCH PC EL. 812.23 @ N 1237976.45; E 2025484.83
SLURRY LINES FROM BOOSTER PUMPS, SEE TYPICAL ROAD SECTION DWG. H1C11146 FOR SLURRY LINE PROTECTION AND SPILL PREVENTION
PIPE W.P. INVERT EL. 805.54 W/PIPE BOOT N 1237810.10; E 2025774.02
DOWNDRAIN–HDPE, PE-4710 DR–32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE – 45.8 L.F.
PIPE W.P. INVERT EL. 806.75 – N 1237848.04; E 2025799.70
W.P. DITCH EL. 773.50 @ N 1237557.68; E 2025856.80
℄ 2' F.B. DITCH @ 0.25% GR.
W.P. ℄ 42" DIA. HDPE PIPE W/ SLOPE PV'D HDWL @ N 1237472.49; E 2026015.37 INV. EL. 773.05 (SEE NOTE 8)
W.P. ℄ 48" DIA. HDPE PIPE @ N 1237572.69; E 2026081.35 EL. 784.10
59.5 L.F. – 48" DIA. HDPE PIPE @ 1.00% GR. W/SLOPE PV'D HEADWALL, BOTH ENDS, (SEE NOTE 8)
W.P. ℄ 48" DIA. HDPE PIPE @ N 1237539.34; E 2026130.62 EL. 783.50
℄ DITCH PT EL. 772.57 @ N 1237499.29; E 2026189.79
480 L.F. 42" DIA. HDPE PIPE @ 0.25% GR. (ENCASE IN FLOWABLE FILL)
PIPE W.P. INVERT N 1237682.17 E 2026383.37 EL. 774.80
DOWNDRAIN – HDPE, PE-4710 DR–32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 43.0 L.F., S=6.00% @ DIKE
PIPE W.P. INVERT N 1237674.65; E 2026425.73 EL. ±773.6 W/PIPE BOOT
W.P. ℄ 42" DIA. HDPE PIPE W/ SLOPE PV'D HDWL @ N 1237429.55 E 2026493.44 INV. EL. 771.85 SEE NOTE 8
℄ DITCH PC EL. 768.78 @ N 1237603.82; E 2026445.54
℄ DITCH PI @ N 1237359.64; E 2026589.41 RAD. 166.00
℄ 2' F.B. DITCH W/2:1 S.S, R2 @ 29.00% GR.
W.P. DITCH EL. 762.00 @ N 1237422.45; E 2026526.66
W.P. ℄ HDWL & DITCH N 1238108.22; E 2026691.74
36" DIA. HDPE PIPE @ EL. 754.70
2–54" DIA. HDPE PIPES @ EL. 753.20
DITCH INV. EL. 752.91
W.P. ℄ 15' DT. TRANS. @ N 1238108.22; E 2026691.74 EL. 752.91
TRANSITION: L=66.5', 20' WIDE @ HDWL'S TO 15' WIDTH
54" DIA. HDPE PIPE @ 145.2 L.F. (SOUTH PIPE), S=1.24% GR. SEE DITCH CULVERT SECTION CELL 3, DWG. H1C11140
178.2 L.F. – 36" DIA. HDPE PIPE @ 0.50% GR.
W.P. ℄ 54" DIA. HDPE PIPE @ N 1238085.88; E 2026547.27 EL. 755.00, (SEE NOTE 8)
PIPE W.P. INVERT EL. ±766.7 N 1237967.05; E 2026493.51
DOWNDRAIN – HDPE, PE-4710 DR–32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE; 57.0 L.F.
PIPE W.P. INVERT EL. 773.90 N 1237976.90; E 2026437.37
W.P. ℄ 48" DIA. HDPE PIPE W/(SLOPE PV'D HDWL) @ N 1237626.80; E 2026599.53 EL. 747.81
RIPRAP APRON: L=28', W=33'
144 L.F. 48" DIA. HDPE PIPE @ 1.80% GR.
W.P. ℄ 15' BERM EL. 774.60 @ N 1237523.46; E 2026735.09
℄ 15' BERM (G.A.B. SURFACED) @ S=1.06% GR.
W.P. ℄ 15' BERM EL. 777.08 @ N 1237576.18; E 2026507.36
℄ 30' ROAD
W.P. 48" DIA. HDPE PIPE W/ SLOPE PV'D HDWL @ N 1237482.89; E 2026594.44 INV. EL. 750.40
RIP RAP LINED CHANNEL, 20' WIDE BY 30' LONG STONE GDOT R–6 THICKNESS: 3.0'
P.I. & P.V.I. (NO CURVE) @ N 1238139.52 E 2026939.59 EL. 760.26
ARCH PL CULV–20'X10'
FINISH GRADE TOP OF 24" CLAY/SILT LAYER SEE NOTE 9
PLUG PIPE, SEAL CLOSED WHEN CELL#3 IS TO RECEIVE PROCESS FLOW
54" DIA. HDPE PIPES, REMOVE TEMPORARY PIPE PLUGS THIS PHASE
STREAM BUFFER IMPACT (SEE NOTE 2)
SEE CELL 3 TO CELL 2 DISCHARGE DITCH, SEE DWG. H1C11139

CELL 2

NOTE:
FOR ADDITIONAL COLLECTION BASIN DETAILS, SEE SECTION THROUGH COLLECTION BASIN AT SLURRY LINE DISCHARGE, DWG. H1C11153



CELL 3
COLLECTION BASIN DETAILS
NO SCALE

LEGEND:

- PROPERTY LINE
- SITE BOUNDARY
- 200' SITE BUFFER
- 500' WASTE LIMIT
- STREAMS
- 25' STREAM BUFFER
- WETLANDS
- 700 EXISTING GROUND CONTOURS
- 700 FINAL GRADE CONTOURS
- EXISTING SECURITY FENCE
- PROPOSED SECURITY FENCE
- XXX.XX SPOT ELEVATIONS
- DOWNDRAIN
- TREELINE

EROSION CONTROL LEGEND

- Sd1 SILT FENCE (SEE DWG. H1C11149)
- Di DIVERSION (SEE DWG. H1C11149)
- Lv LEVEL SPREADER
- Du DUST CONTROL
- Cd–s STONE CHECK DAM (2"–10" STONE)
- Ds3 DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)
- Sd1–Bb BRUSH BARRIER
- Rd ROCK FILTER DAM
- Ch–rp CHANNEL STABILIZATION (RIPRAP)
- Mb EROSION CONTROL MATTING
- St STORM DRAIN OUTLET PROTECTION

REFERENCES:

H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11143 MISCELLANEOUS DETAILS, SHEET 1
H1C11144 MISCELLANEOUS DETAILS, SHEET 2
H1C11148 MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
H1C11155 LEACHATE COLLECTION SYSTEM LAYOUT AND DETAILS

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27185 J. BRANT LANE 9/27/22

GEORGIA REGISTERED PROFESSIONAL ARCHITECT No. 13907 SCOTT H. MCWHORTER 9/27/22

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL NO.3 SITE DEVELOPMENT
BASE GRADE PLAN

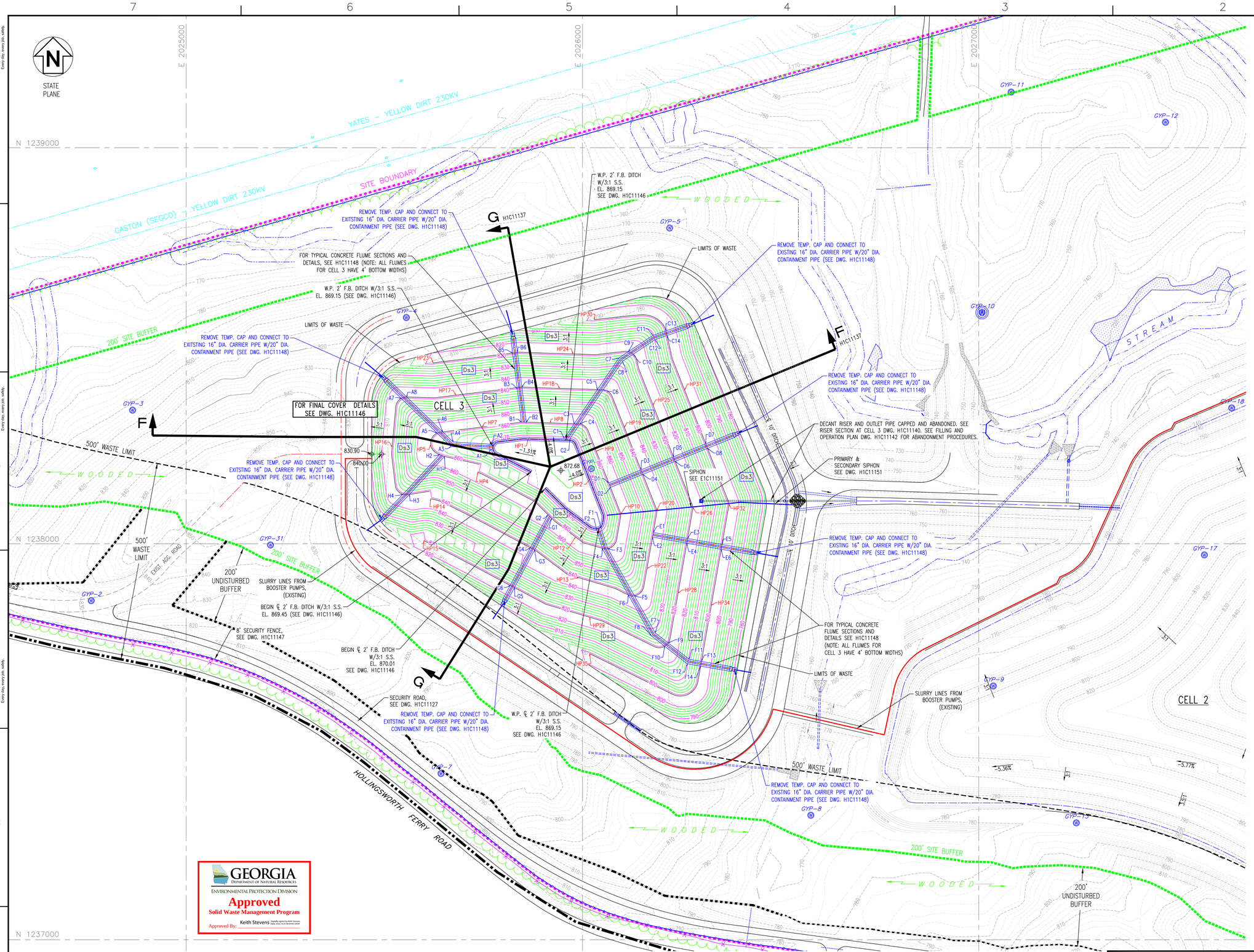
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CCR LF PERMIT APPLICATION [BY HHNT, INC.]

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	H1C11133	1	FINAL	0

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LEGEND:

- PROPERTY LINE
- SITE BOUNDARY
- 200' UNDISTURBED BUFFER
- 500' WASTE LIMIT
- STREAMS
- 25' STREAM BUFFER
- LIMITS OF CLEARING (SECURITY ROAD)
- LIMITS OF WASTE
- WETLANDS
- EXISTING GROUND CONTOURS
- FINAL GRADE CONTOURS
- EXISTING SECURITY FENCE
- PROPOSED SECURITY FENCE
- DOWNDRAIN
- TREELINE

EROSION CONTROL LEGEND

Ds.3 DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)

REFERENCES:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11137	CELL NO. 3, SECTIONS THRU STACK
H1C11144	MISCELLANEOUS SECTIONS AND DETAILS, SHEET 2
H1C11146	MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1
H1C11148	MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
H1C11151	SIPHON SECTIONS AND DETAILS
H1C11152	FLUME DATA SHEET

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE
3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
5. SEE DRAWING H1C11149 FOR EROSION CONTROL NOTES.
6. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
7. FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11146.
8. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.



GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO. 3
FINAL STACKING PLAN

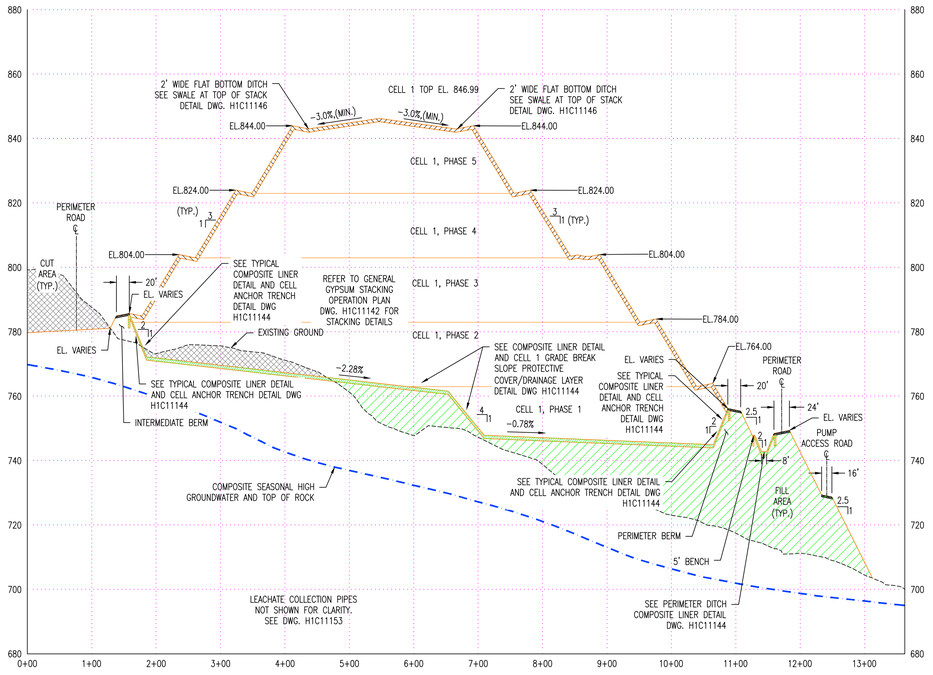
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CCR LF PERMIT APPLICATION [BY HHNT, INC.]

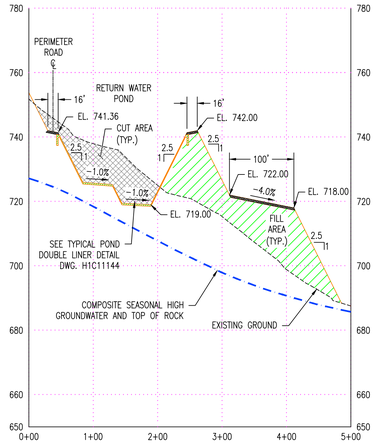
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

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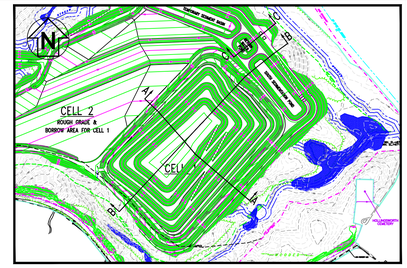
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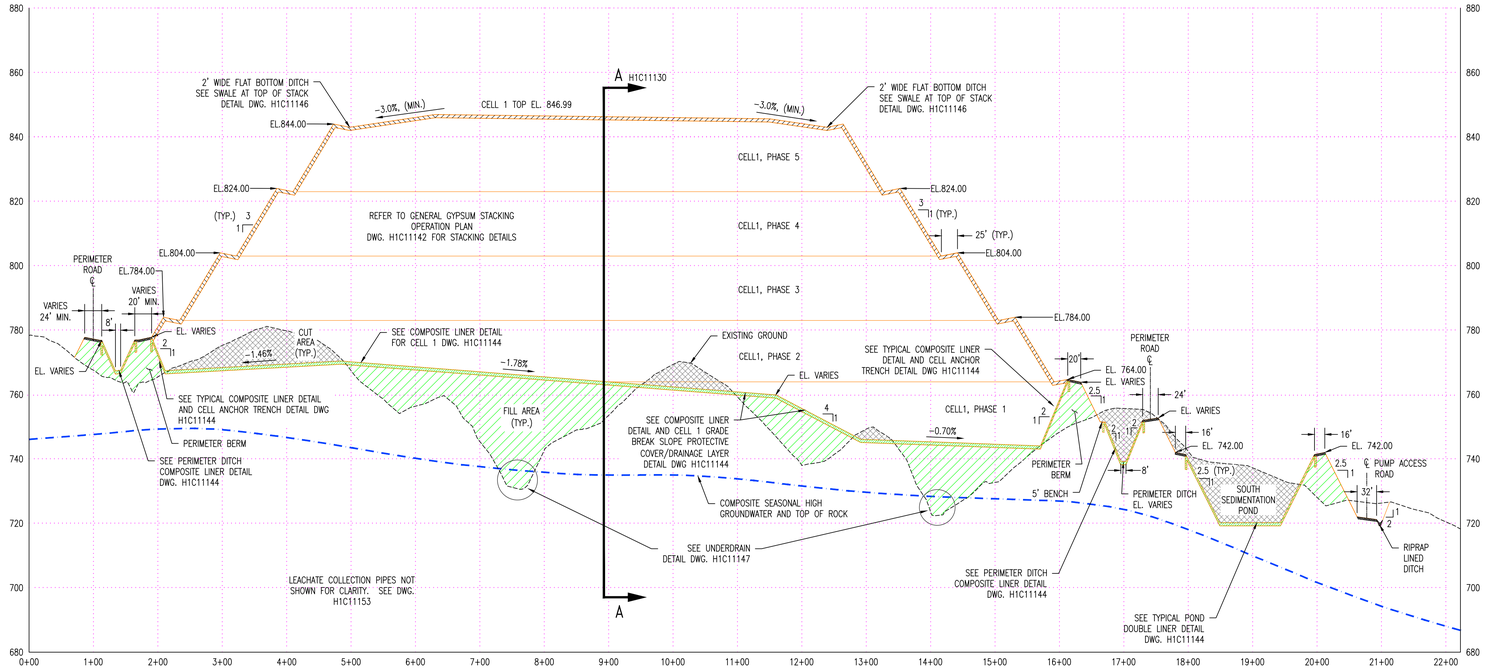
SECTION A–A
SCALE H: 1"=100' V 1"=20'



CELL 1
SECTION C–C
SCALE H: 1"=100' V 1"=20'



KEY PLAN
N.T.S.



SECTION B–B
SCALE H: 1"=100' V 1"=20'

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27165 — R. BRANT LANE — 9/27/22

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 19907 — KEITH R. NEWMASTER — 9/26/22

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994) WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA," CURRENT EDITION.
5. BASE GRADE ELEVATIONS SHOWN FOR THE CELLS AND PONDS REPRESENT TOP OF CLAY/SILT LAYER. ADDITIONAL SAND OR SOIL/MARKER BED MATERIAL WILL BE REQUIRED ABOVE THIS SURFACE. SEE CELL AND POND COMPOSITE LINER DETAILS, DRAWING H1C11144.
6. GRADES SHOWN REFLECT FINAL GRADES FOR CELL 1 ONLY. SEE H1C11136 FOR CELL 1 AND CELL 2 GRADES.

REFERENCES:

H1C11125 CELL NO. 1, SITE DEVELOPMENT BASE GRADE PLAN
H1C11130 CELL NO. 1, FINAL STACKING PLAN
H1C11136 CELL NO. 2, SECTIONS THRU STACK
H1C11144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS
H1C11146 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1

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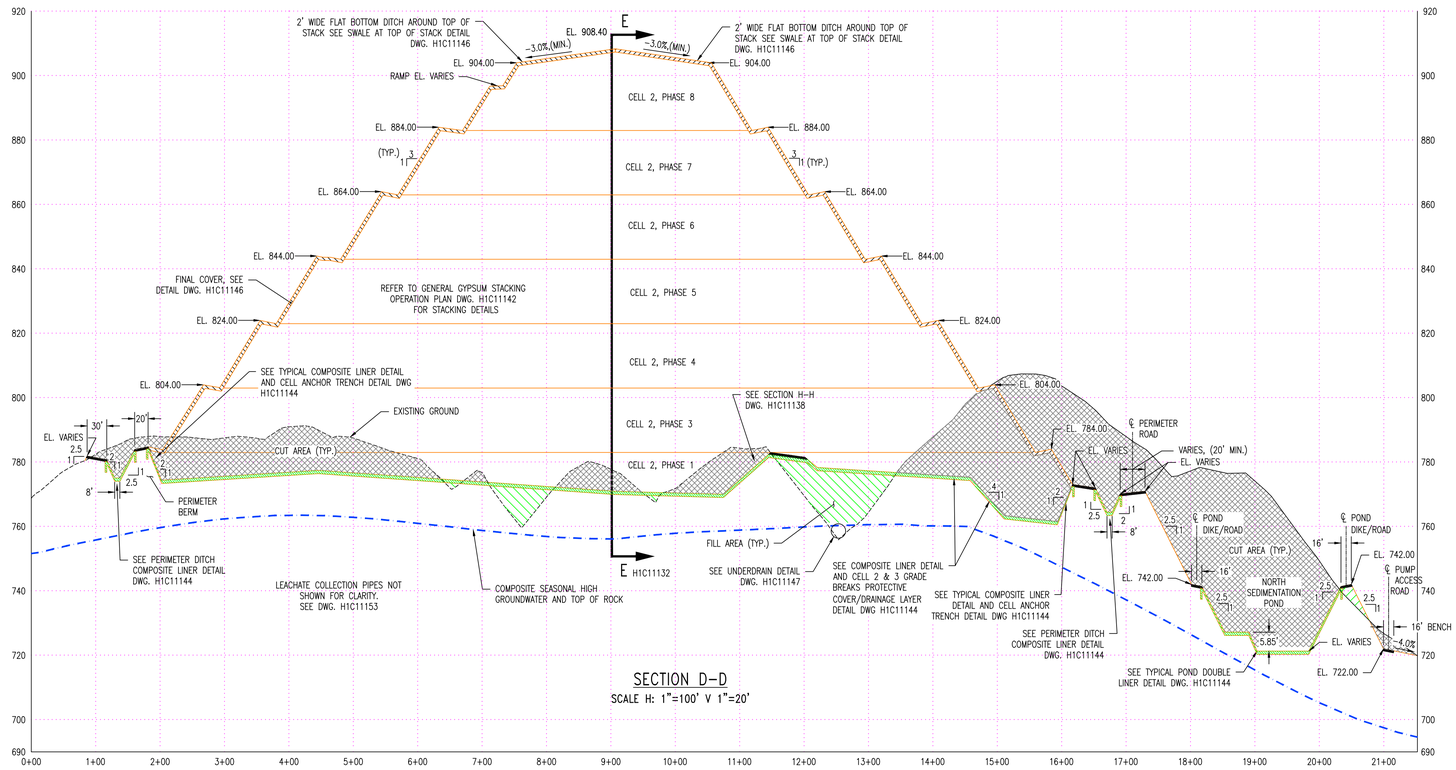
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL NO. 1
SECTIONS THRU STACK

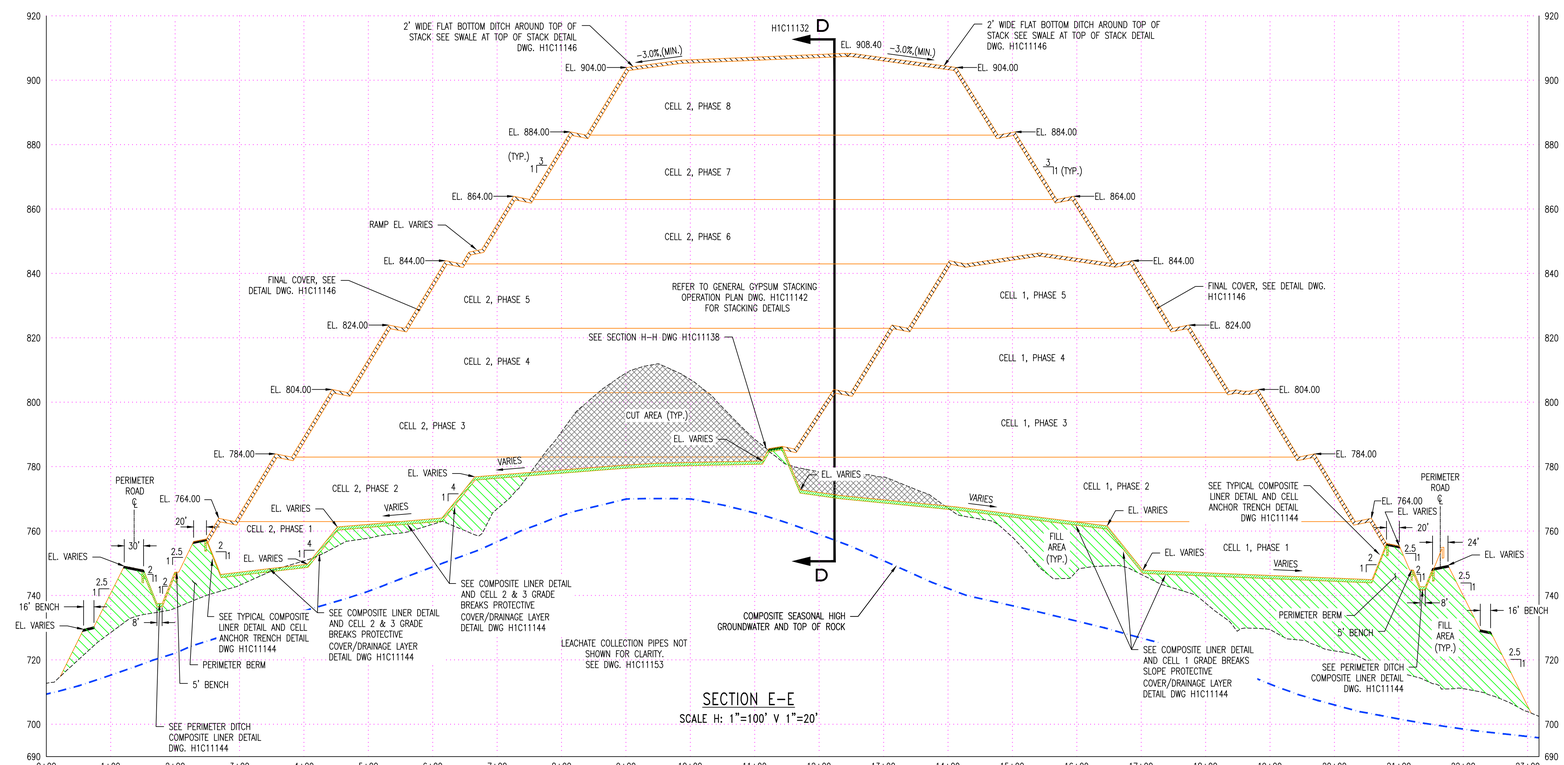
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REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 3	DATE 3-20-12	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
GENERAL REVISION MWO: ECS774		JWM/DSM	MHL	RCB				
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 0	DATE 09-23-2022	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
CCR LF PERMIT APPLICATION [BY HHNT, INC.]		ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	**H1C11135**	1	FINAL	0

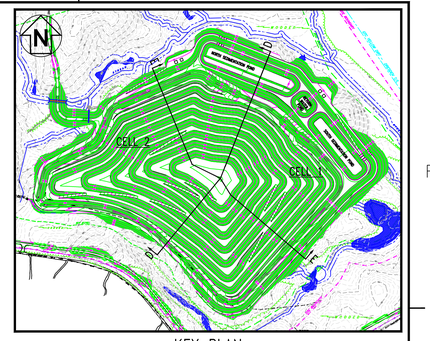
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SECTION D-D
SCALE H: 1"=100' V 1"=20'



SECTION E-E
SCALE H: 1"=100' V 1"=20'



NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994) WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA," CURRENT EDITION.
5. BASE GRADE ELEVATIONS SHOWN FOR THE CELLS AND PONDS REPRESENT TOP OF CLAY/SILT LAYER. ADDITIONAL SAND OR SOIL/MARKER BED MATERIAL WILL BE REQUIRED ABOVE THIS SURFACE. SEE CELL AND POND COMPOSITE LINER DETAILS, DRAWING H1C11144.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens (digitally signed by Keith Stevens Date: 2022.10.25 08:59:06 -04'00')

REFERENCES:

H1C11132 CELL NO. 1 & 2 COMBINED, FINAL STACKING PLAN
H1C11138 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS, SHEET 1
H1C11142 GENERAL GYPSUM STACKING, OPERATION PLAN
H1C11144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2
H1C11146 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1
H1C11147 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 2
H1C11153 CELL NO. 1, LEACHATE COLLECTION SYSTEM LAYOUT

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 R. BRANT LABE — 9/23/22
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 19997 MARK M. MCWHORTER — 9/26/22

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

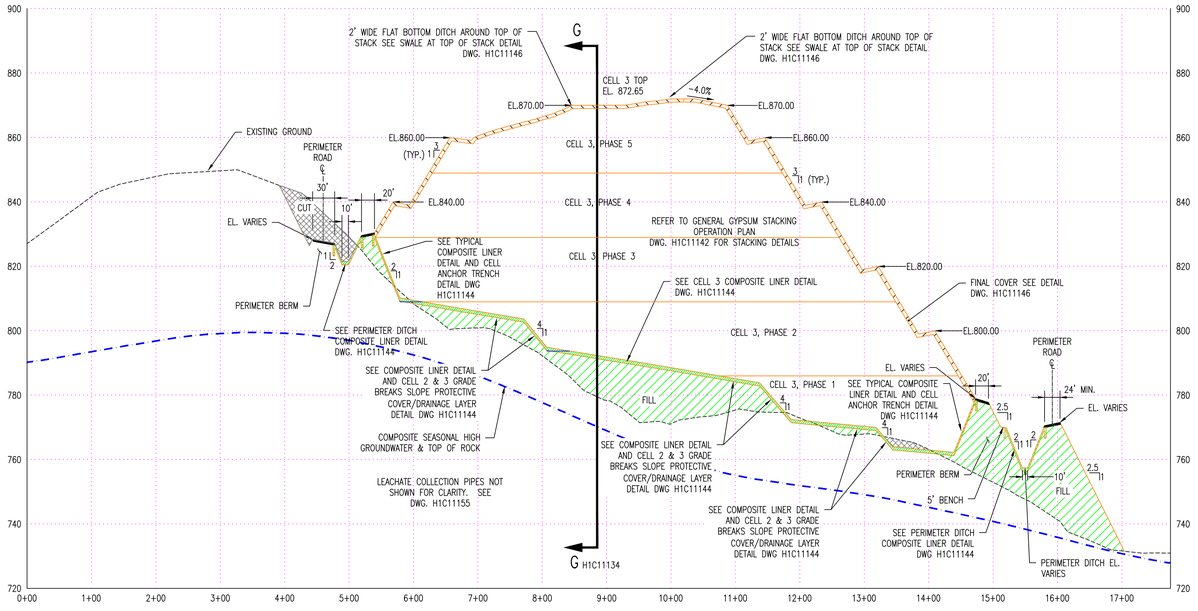
PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELLS NO. 1 AND NO. 2
SECTIONS THRU STACK

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

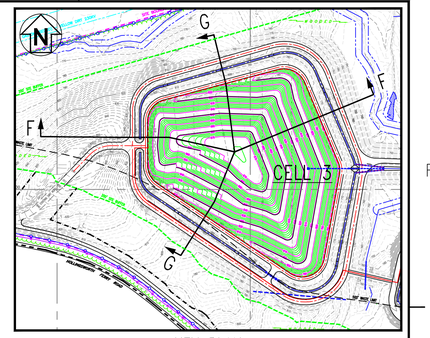
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	H1C11136	1	FINAL	0

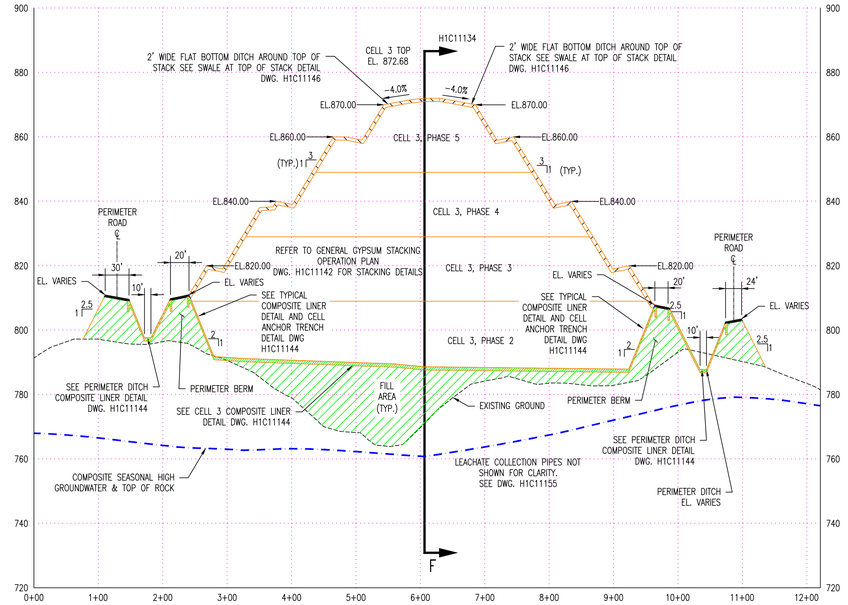
Acad2008 ANSI F: 40x28



CELL 3
SECTION F-F
SCALE H: 1"=100' V 1"=20'



KEY PLAN
N.T.S.



CELL 3
SECTION G-G
SCALE H: 1"=100' V 1"=20'

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994) WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA," CURRENT EDITION.
5. BASE GRADE ELEVATIONS SHOWN FOR THE CELL REPRESENT TOP OF CLAY/SILT LAYER. ADDITIONAL SAND WILL BE REQUIRED ABOVE THIS SURFACE. SEE CELL COMPOSITE LINER DETAILS, DRAWING H1C11144.

REFERENCES:

H1C11134 CELL NO. 3 FINAL STACKING PLAN
H1C11142 GENERAL GYPSUM STACKING, OPERATION PLAN
H1C11144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2
H1C11146 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1
H1C11147 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 2
H1C11155 CELL NO. 3 LEACHATE COLLECTION SYSTEM LAYOUT & DETAILS

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 R. GRANT LAKE 9/22/22

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12507 BRETT M. MCMILLEN 9/6/22

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FOR
Georgia Power Company

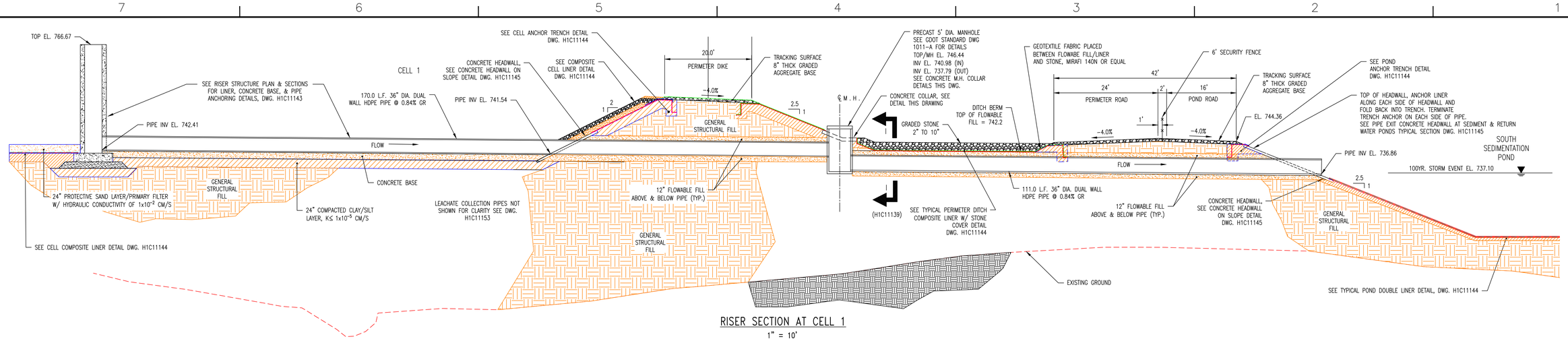
PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO. 3
SECTIONS THRU STACK

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	H1C11137	1	FINAL	0

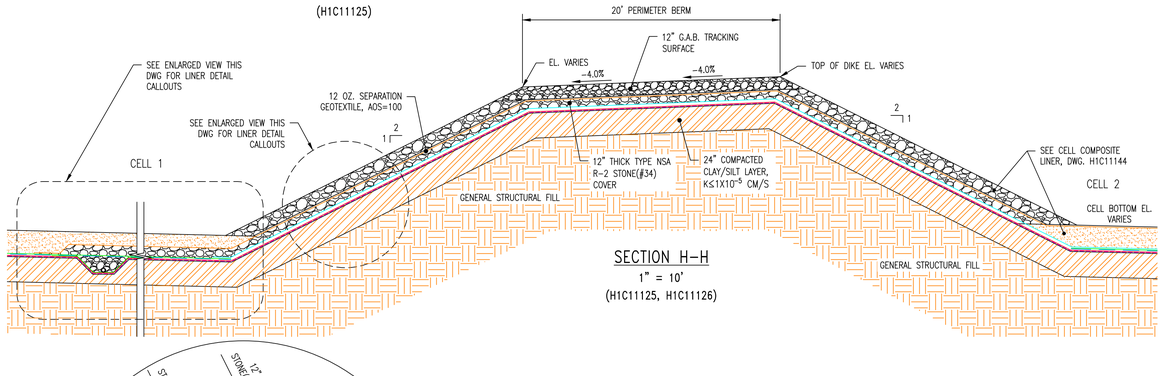
Acad2008 ANSI F: 40x28



RISER SECTION AT CELL 1

1" = 10'

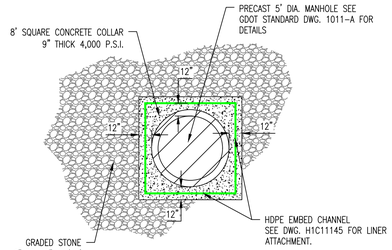
(H1C11125)



SECTION H-H

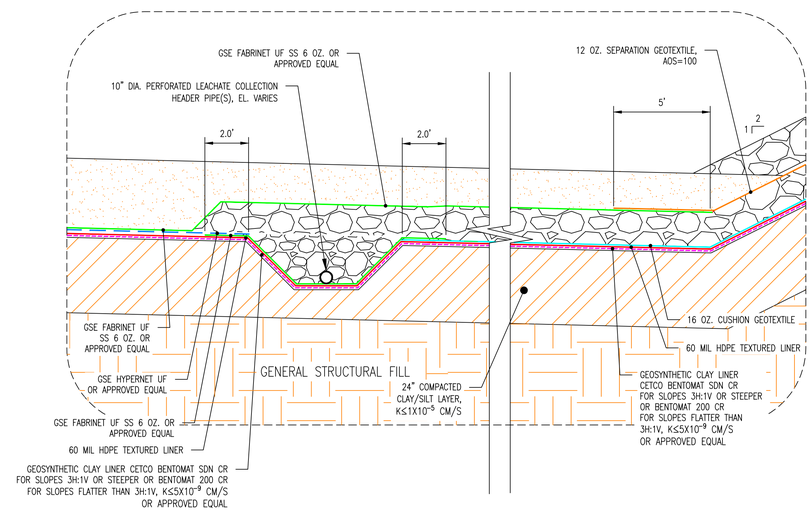
1" = 10'

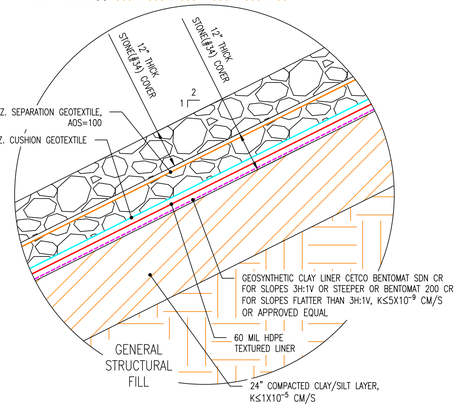
(H1C11125, H1C11126)

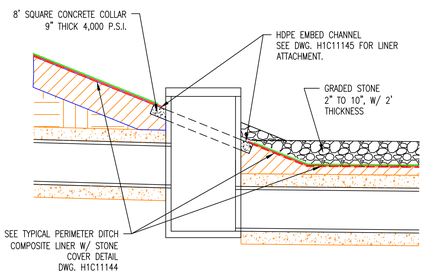


CONCRETE MANHOLE COLLAR PLAN VIEW

NOT TO SCALE

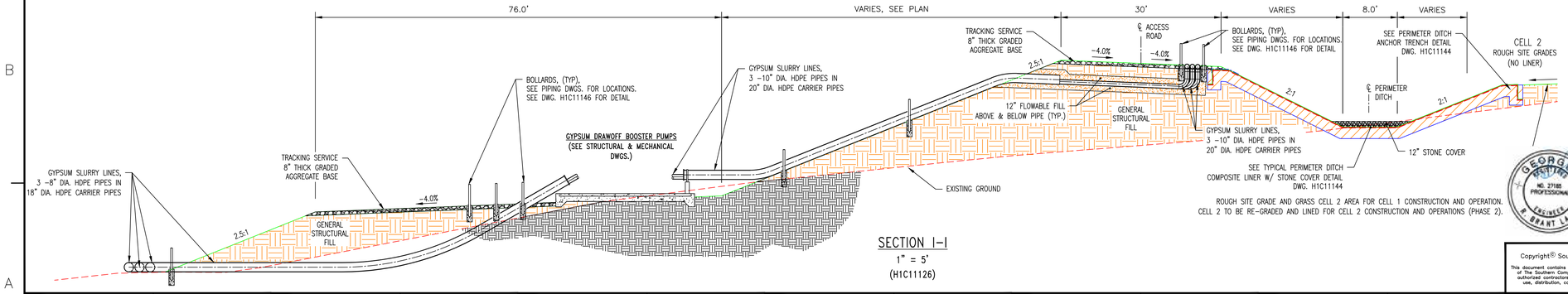






CONCRETE MANHOLE COLLAR SECTION

NOT TO SCALE



SECTION I-I

1" = 5'

(H1C11126)

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens Digitally signed by Keith Stevens Date: 2022.10.21 08:59:06 -04'00'

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER W. BRANT LANE 9/27/22

GEORGIA REGISTERED No. 12957 PROFESSIONAL ENGINEER KEITH M. SCHEXNIDER 9/26/22

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL FORCE OF 0.17G

REFERENCES:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11125	CELL NO. 1 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11131	CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11144	CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2
H1C11145	CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 3
H1C11146	CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1

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Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

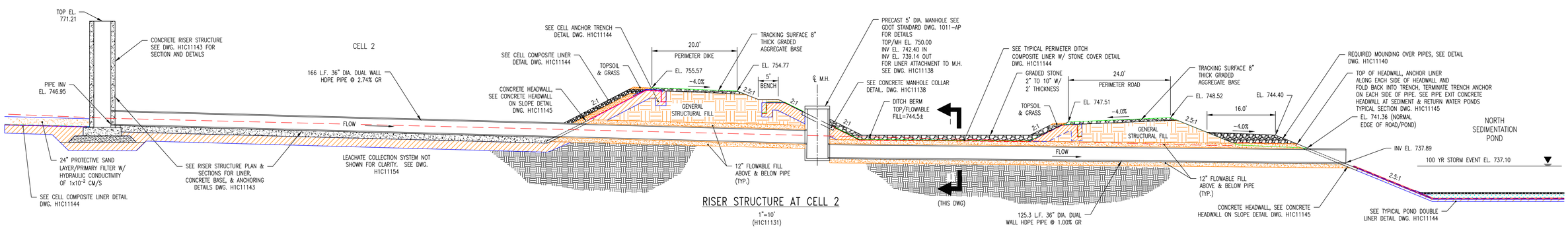
PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3
MISCELLANEOUS SECTIONS
SHEET 1

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

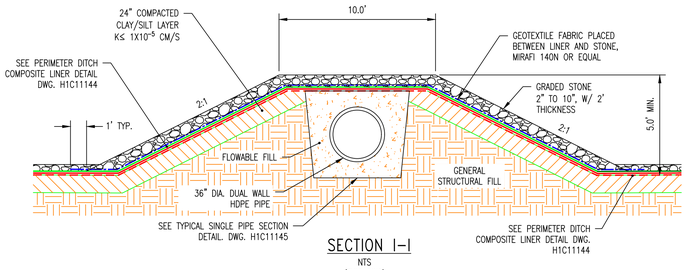
SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	H1C11138	1	FINAL	0

Acad2008 ANSI F: 40x28



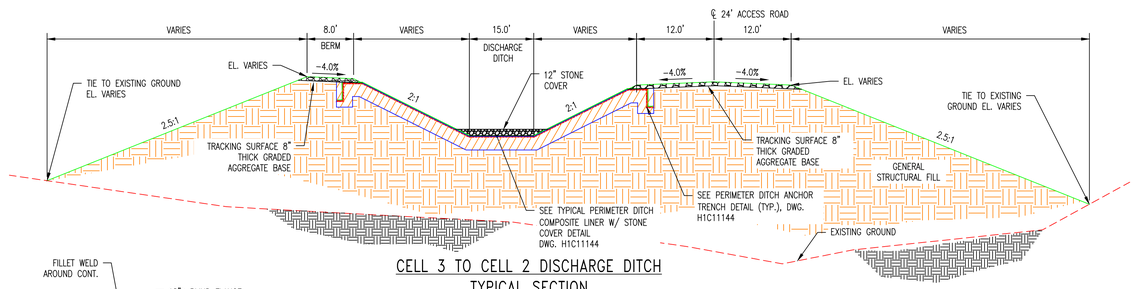
RISER STRUCTURE AT CELL 2

1"=10'
(H1C11131)



SECTION I-I

NTS
(THIS DWG)

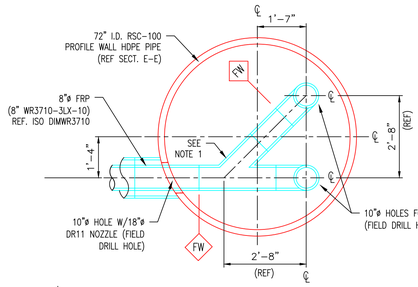


CELL 3 TO CELL 2 DISCHARGE DITCH TYPICAL SECTION

1"=10'
(H1C11133)

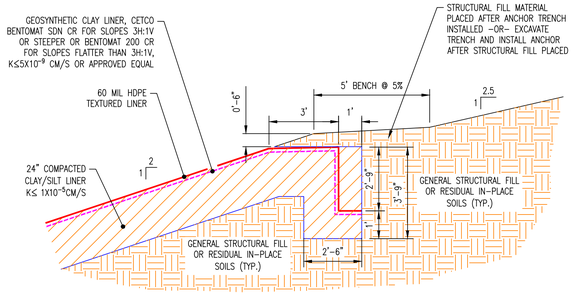
NOTES:

1. FIELD WRAP 8" FRP WYE IN CONTAINMENT BOX.
2. DRILL 10"ø HOLE FOR 8"ø FRP. SEAL WITH EXPANDABLE FOAM AFTER INSTALLING FRP. (FIELD DRILL)
3. FILL CONTAINMENT BOX WITH FLOWABLE FILL AFTER INSTALLING FRP.
4. TEMPORARILY SUPPORT 8" FRP WHILE APPLYING FLOWABLE FILL FOR SUPPORT AND TO PREVENT FLOATING 8" FRP.
5. PRIME PIPE SURFACE PRIOR TO PLACING SWELLSTOP. PLACE SWELLSTOP AND SUPPORT WHEN PLACING CONCRETE, ENSURING IT DOES NOT BECOME DISLODGED.



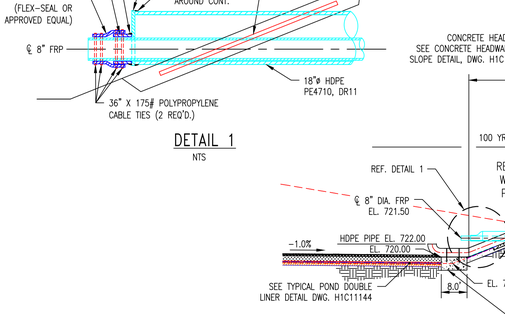
DETAIL 2

NTS



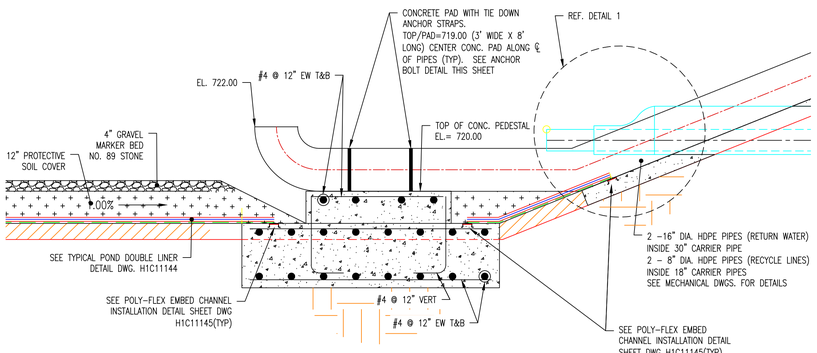
PERIMETER DITCH WITH ANCHOR TRENCH DETAIL (ANCHOR ON DIKE SLOPE - MATCH ROAD ELEVATION AT ANCHOR)

N.T.S.



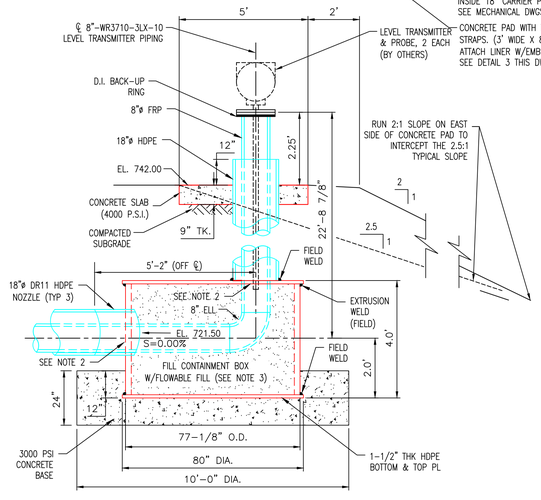
DETAIL 1

NTS



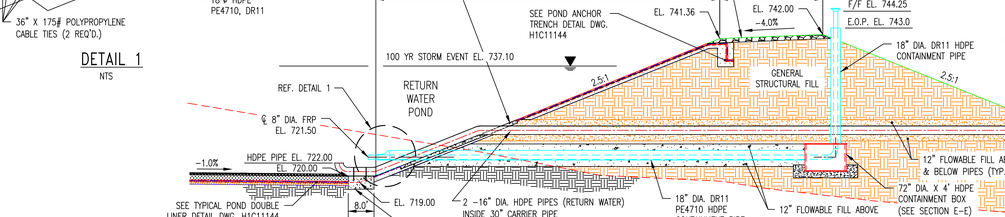
DETAIL 3

NOT TO SCALE
(H1C11125)



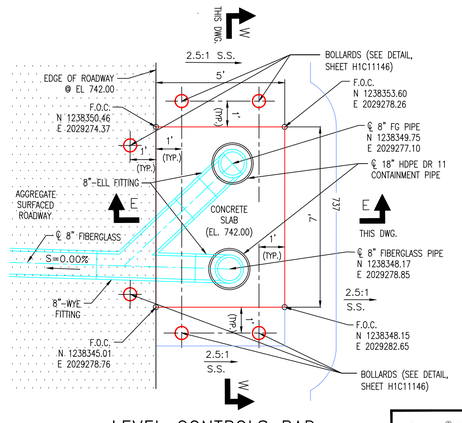
SECTION E-E

NOT TO SCALE



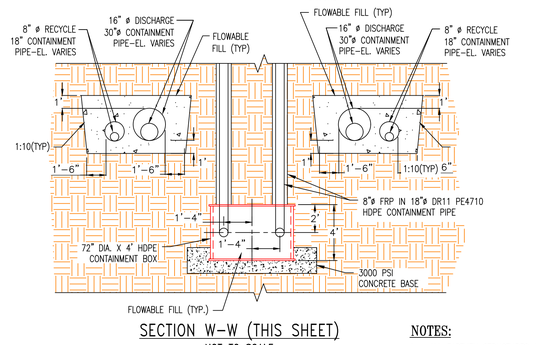
RETURN WATER LINE TO PUMP SECTION

NOT TO SCALE
(H1C11125)



LEVEL CONTROLS PAD

NOT TO SCALE



SECTION W-W (THIS SHEET)

NOT TO SCALE

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL FORCE OF 0.17G

REFERENCES:

H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11131 CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11133 CELL NO. 3 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2
H1C11145 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 3

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27185 R. BRANT LANE 9/22/22

GEORGIA REGISTERED PROFESSIONAL SURVEYOR No. 3097 9/26/22

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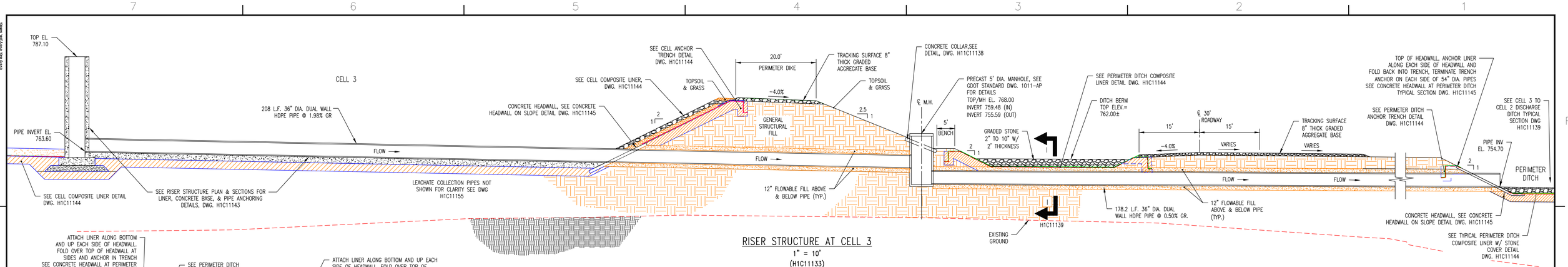
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 0	DATE 09-23-2022	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
CCR LF PERMIT APPLICATION [BY HHNT, INC.]		ANR	RBL					

Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

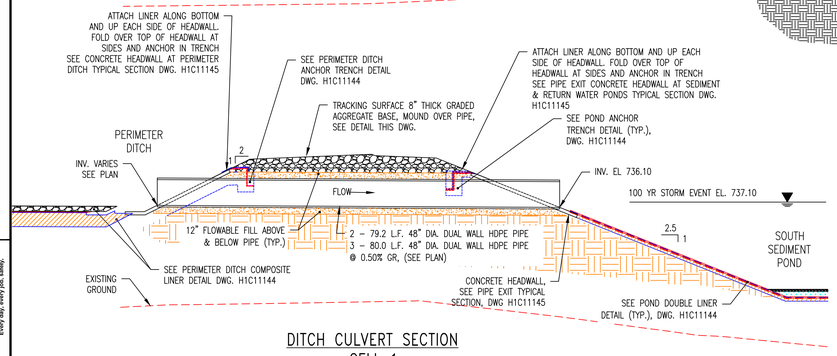
PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3
MISCELLANEOUS SECTIONS
SHEET 2

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	H1C11139	1	FINAL	0

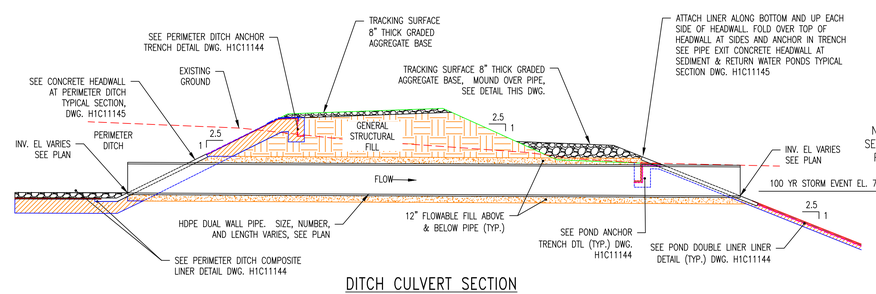
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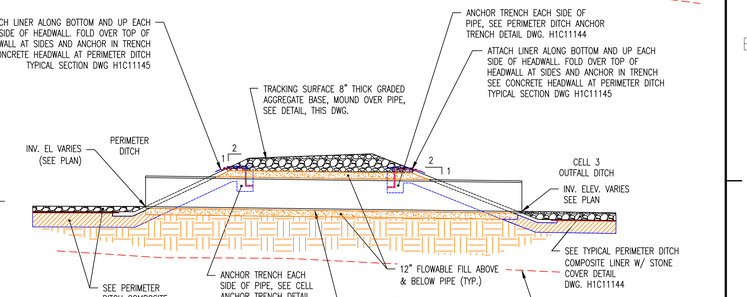
RISER STRUCTURE AT CELL 3
1" = 10'
(H1C11133)



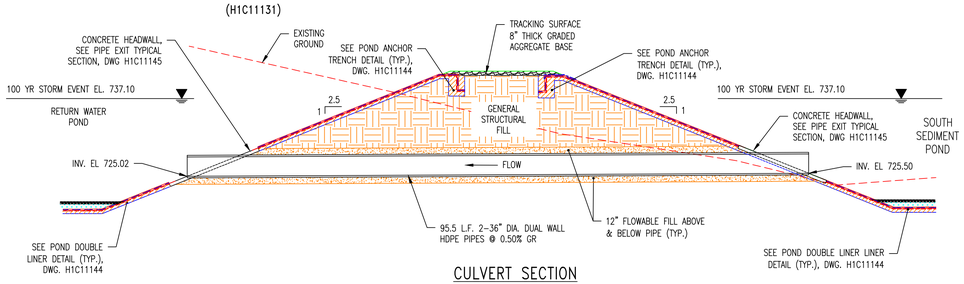
DITCH CULVERT SECTION CELL 1
1" = 10'
(H1C11125)



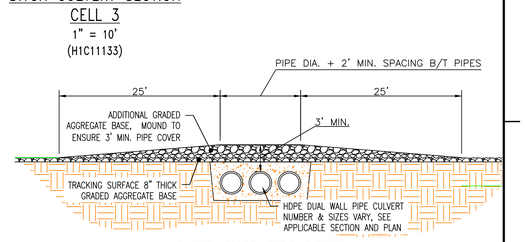
DITCH CULVERT SECTION CELL 2
1" = 10'
(H1C11131)



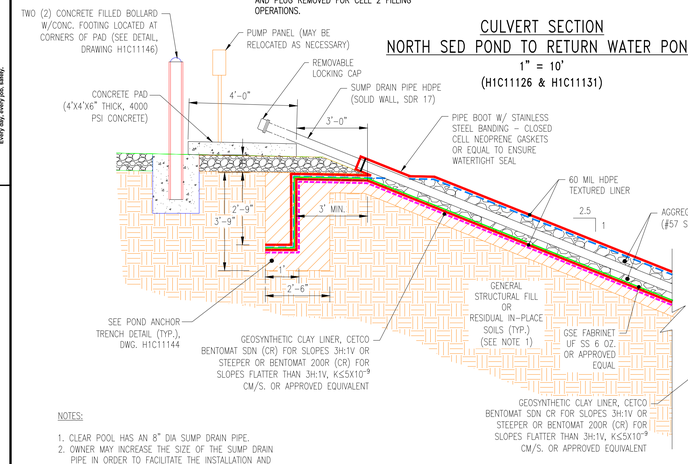
DITCH CULVERT SECTION CELL 3
1" = 10'
(H1C11133)



CULVERT SECTION SOUTH SED POND TO RETURN WATER POND
1" = 10'
(H1C11125)



MOUND OVER PIPE DETAIL
1" = 10'
(H1C11139)

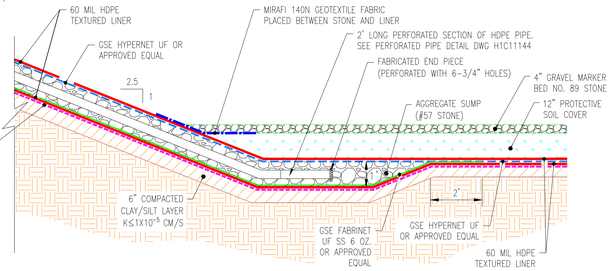


CULVERT SECTION NORTH SED POND TO RETURN WATER POND
1" = 10'
(H1C11126 & H1C11131)

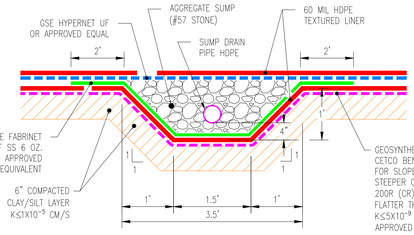
NOTES:

1. CLEAR POOL HAS AN 8" DIA SUMP DRAIN PIPE.
2. OWNER MAY INCREASE THE SIZE OF THE SUMP DRAIN PIPE IN ORDER TO FACILITATE THE INSTALLATION AND MAINTENANCE OF SUMP PUMPS.
3. OWNER MAY INSTALL A FLOW METER AS NECESSARY TO RECORD FLOW RATES.

SEDIMENT PONDS AND CLEAR POOL



TYPICAL LEAKAGE DETECTION SUMP DETAIL
N.T.S.
(H1C11125 & H1C11131)



TYPICAL LEAKAGE DETECTION SUMP DRAIN PIPE DETAIL
N.T.S.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 9/27/22

GEORGIA REGISTERED No. 33982 PROFESSIONAL ENGINEER KEITH M. MCWHORTER 9/27/22

NOTES:

1. THE SECTIONS SHOWN ON THIS DRAWING REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCHES, LEACHATE COLLECTION SYSTEM, AND SEDIMENT BASIN. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REFERENCES:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11125	CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11126	CELL NO. 2, SITE DEVELOPMENT, ROUGH GRADE/BORROW PLAN
H1C11131	CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11133	CELL NO. 3 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11145	CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS, SHEET 3

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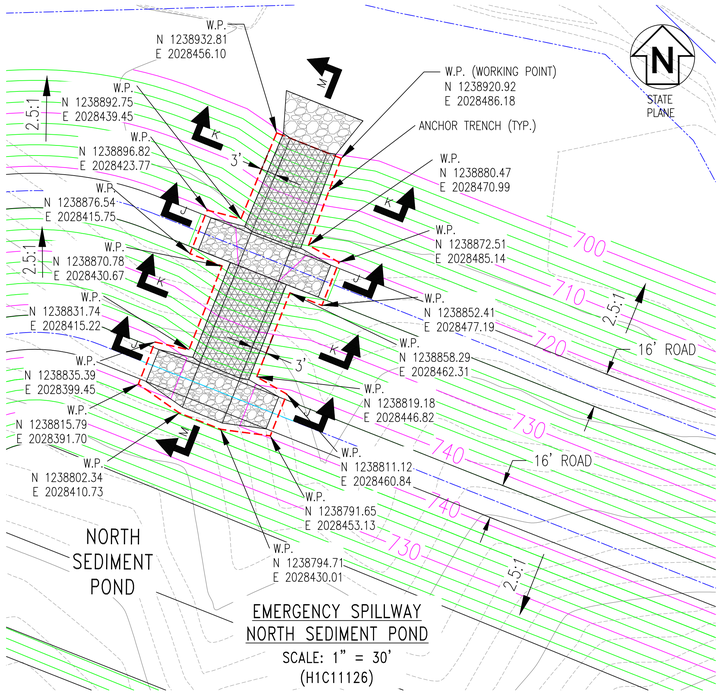
Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL 1 THROUGH CELL 3
MISCELLANEOUS SECTIONS
SHEET 3

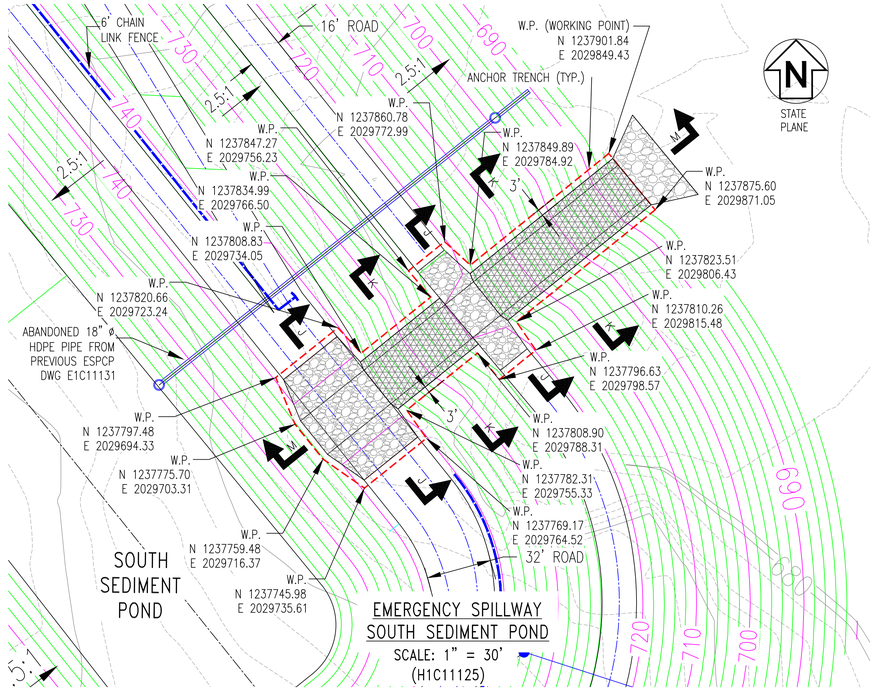
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
0	09-23-2022	ANR	RBL					

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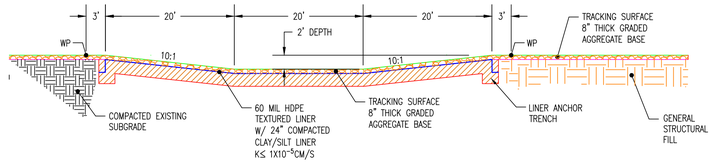
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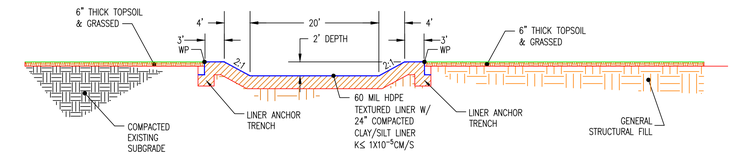
EMERGENCY SPILLWAY
NORTH SEDIMENT POND
SCALE: 1" = 30'
(H1C11126)



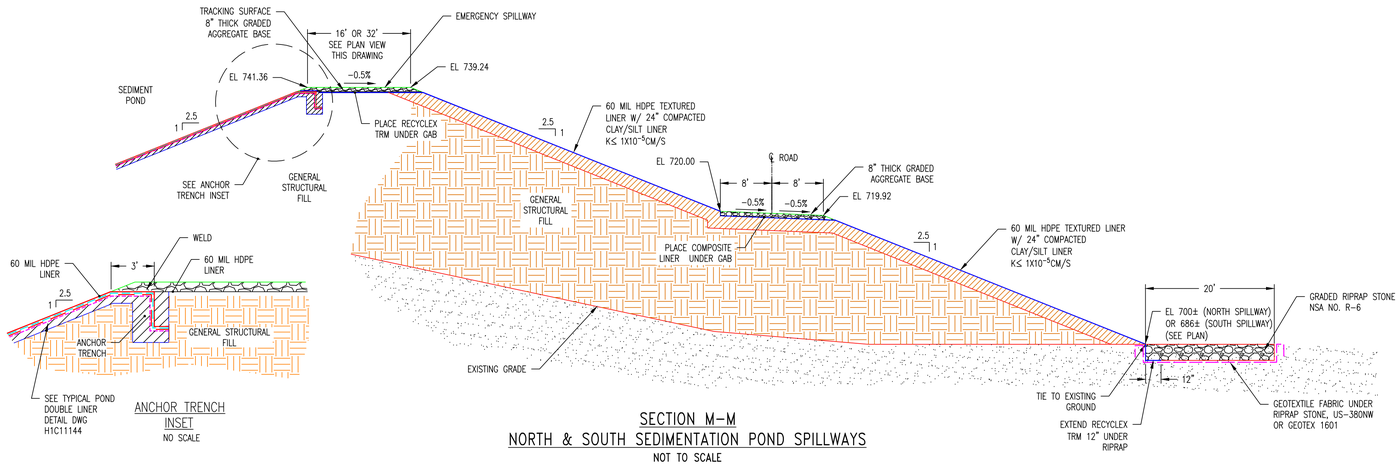
EMERGENCY SPILLWAY
SOUTH SEDIMENT POND
SCALE: 1" = 30'
(H1C11125)



SECTION J–J
EMERGENCY SPILLWAY SECTION TYPICAL ROAD CROSSING
NOT TO SCALE
(H1C11125 & H1C11126)



SECTION K–K
EMERGENCY SPILLWAY SEDIMENT POND TYPICAL SECTION ON SLOPE
NOT TO SCALE
(H1C11125 & H1C11126)



ANCHOR TRENCH
INSET
NO SCALE

SECTION M–M
NORTH & SOUTH SEDIMENTATION POND SPILLWAYS
NOT TO SCALE

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER W. BRANT LANE 9/22/22

GEORGIA REGISTERED No. 12907 PROFESSIONAL LANDSCAPE ARCHITECT SCOTT M. MCWHORTER 9/6/22

REFERENCES:

H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11124 GENERAL SITE DEVELOPMENT, CELL LAYOUT
H1C11125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11126 CELL NO. 2, SITE DEVELOPMENT, ROUGH GRADE/BORROW PLAN
H1C11131 CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2
H1C11146 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL NO. 1 AND CELL NO. 2
SEDIMENT POND SPILLWAY SECTIONS AND DETAILS

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
N.T.S.	H1C11141	1	FINAL	0

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PLANT WANSLEY COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY DESCRIPTION OF GENERAL CELL FILLING OPERATIONS

1. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR UTILIZATION OF ANY TEMPORARY CONTAINMENT BASINS LOCATED ELSEWHERE WITHIN THE DISPOSAL CELL. THE LOCATION AND USE OF SUCH TEMPORARY CONTAINMENT BASINS SHALL BE SUBJECT TO THE APPROVAL OF THE PURCHASER AND ENGINEERING & CONSTRUCTION SERVICES, SOUTHERN COMPANY SERVICES, INC.
2. THE INITIAL RIM DITCH WILL BE CONSTRUCTED FROM DRY GYPSUM EXCAVATED AND HAULED FROM THE TEMPORARY GYPSUM DEWATERING CELLS LOCATED IN THE ASH POND.
3. THE INITIAL RIM DITCH WILL BE CONSTRUCTED BEGINNING AT THE DISCHARGE CONTAINMENT BASIN'S SPILLWAY LOCATION PROGRESSING ALONG THE PERIMETER OF THE DISPOSAL CELL TO THE LOWER TIER (PHASE 1).THE RIM DITCH SHALL CONSIST OF AN INTERIOR BERM OF SUFFICIENT WIDTH TO PROVIDE ACCESS AND MANEUVERABILITY FOR A TRACKED EXCAVATOR DURING GYPSUM CLEAN – OUT OF THE RIM DITCH.
4. THE RIM DITCH SHALL BE CONSTRUCTED TO CONTAIN THE DISCHARGE FROM THE DISCHARGE CONTAINMENT BASIN TO PREVENT THE EROSION OF THE 24 INCH PROTECTIVE COVER ON THE BOTTOM OF THE CELL.
5. SLUICING OPERATIONS BEGIN WITH THE DISCHARGE OF GYPSUM SLURRY INTO THE CONTAINMENT BASIN. FLOW FROM THE CONTAINMENT BASIN WILL BE DIRECTED INTO THE RIM DITCH TOWARD THE FAR DOWNSTREAM END OF THE CELL (PHASE 1). THE GYPSUM WILL SETTLE OUT IN THE CONTAINMENT BASIN AND IN THE RIM DITCH AS THE SLURRY FLOWS ALONG THE RIM DITCH. IN ORDER TO PREVENT EROSION OF THE SAND COVER AND TO FACILITATE SETTLING, CHECK BERMS OF GYPSUM, GRAVEL OR SOIL MAY BE PLACED AT INTERVALS IN THE RIM DITCH. IT WILL BE PRUDENT TO COVER THE SAND PROTECTIVE COVER WITH GYPSUM AS APPROPRIATE.
6. GYPSUM EXCAVATED FROM THE DISCHARGE CONTAINMENT BASIN SHOULD BE CAST TO THE AREA IMMEDIATELY OUTSIDE THE CONTAINMENT BASIN BERM, AND INSIDE THE DISPOSAL CELL, WHERE IT WILL DEWATER BY GRAVITY. THE DEWATERED GYPSUM SHOULD BE USED TO EXTEND THE INITIAL RIM DITCH, CONSTRUCT A SECOND RIM DITCH, OR COVER ANY EXPOSED AREAS OF THE 24 INCH SAND PROTECTIVE LAYER.
7. AFTER THE GYPSUM HAS ACCUMULATED IN THE RIM DITCH, THE DITCH CAN BE EXCAVATED BY A TRACKED EXCAVATOR LOCATED ON THE PERIMETER BERM OR THE INTERIOR BERM OF THE RIM DITCH. AS THE RIM DITCH IS EXCAVATED, THE GYPSUM WILL BE CAST ON EITHER SIDE OF THE DITCH AS THE EXCAVATOR TRAVELS ALONG THE DIKE/BERM.
8. THE RIM DITCH MAY BE BLOCKED OR DAMMED AT ANY POINT SO THAT THE FUTURE GYPSUM SLURRY MAY BE DIRECTED TOWARD THE INTERIOR OF THE CELL IN LATERAL DITCHES.
9. THE LATERAL DITCHES SHOULD BE CONSTRUCTED OF GYPSUM EXCAVATED FROM THE PREVIOUS DITCH OR FROM THE DISCHARGE CONTAINMENT BASIN.
10. THE CAST GYPSUM EXCAVATED FROM THE RIM DITCHES WILL BE SPREAD BY TRACKED DOZERS, ALONG THE DIRECTION OF THE RIM DITCHES AND ON BOTH SIDES, TO PROVIDE WORKING PADS FOR EXCAVATION OF FUTURE RIM DITCHES AS WELL AS SECTIONS FOR RAISING THE GYPSUM STACK.
11. THIS METHOD OF ALLOWING GYPSUM SETTLEMENT AND RIM AND LATERAL DITCH EXCAVATION IN PHASES WILL BE UTILIZED FOR FILLING TO THE FINAL STACK ELEVATIONS.
12. AS FILLING OF THE FIRST LIFT PROGRESSES, SLURRY WATER AND STORM WATER ARE DIRECTED TO THE LOW END OF THE CELL TOWARDS THE RISER AND DISCHARGE PIPE.
13. AS THE RIM DITCHES ARE EXCAVATED, A MINIMUM OF 3 FEET OF GYPSUM SHALL BE LEFT IN PLACE ABOVE THE DRAINAGE SYSTEM TO PROVIDE A PROTECTIVE LAYER.
14. THE RISER AND DISCHARGE ASSEMBLY MAY BE USED AS LONG AS PRACTICAL TO PROVIDE DRAINAGE FROM WITHIN THE CELL TO THE SEDIMENTATION BASIN. HOWEVER, IT IS ANTICIPATED THAT THE USE OF THIS ASSEMBLY WILL BE TERMINATED AFTER FILLING OF THE FIRST 20 FT. LIFT ABOVE THE PERIMETER BERM. AT THAT TIME THE SIPHON DISCHARGE SYSTEM WILL BE INSTALLED FOR USE AND THE RISER/DISCHARGE ASSEMBLY WILL BE ABANDONED IN PLACE.
15. THE SIPHON SPILLWAY, DISCHARGING TO THE PERIMETER DITCH (OR TOWARD THE RISER/DISCHARGE STRUCTURE), WILL BE UTILIZED FOR CONTROLLING THE LEVEL OF SLURRY AND STORM WATER DURING FILLING AND RAISING OF EACH 20 FT. LIFT. A SECOND SIPHON WILL BE INSTALLED AND BE OPERABLE FOR THE SUBSEQUENT 20 FT. LIFT BEFORE MOVING THE PREVIOUS SIPHON.
16. PROPER WATER MANAGEMENT PROCEDURES SHALL BE FOLLOWED TO ENSURE THAT OVERTOPPING OF ANY DISCHARGE SETTLING POOLS IS PREVENTED AND THAT SUFFICIENT FREEBOARD BE MAINTAINED IN POOLS FOR STORAGE OF EXPECTED RAINFALL EVENTS. SIPHONS WILL NEED TO BE OPERATED AS NEEDED PRIOR TO AND DURING A STORM EVENT TO ENSURE NO OVERTOPPING.
17. FOR EACH SUBSEQUENT LEVEL OF GYPSUM SLUICING AND GYPSUM DIKE AND RIM DITCH CONSTRUCTION, THE SAME CONSTRUCTION TECHNIQUES AND OPERATIONS WILL APPLY. GYPSUM SLUICE LINES WILL BE PROGRESSIVELY EXTENDED UP THE GYPSUM SLOPES TO THE NEXT LEVEL AS FILLING PROGRESSES.
18. GYPSUM SLOPES SHALL BE MAINTAINED UNTIL THE FINAL COVER SYSTEM IS PLACED.
19. THE CELLS WILL BE CLOSED IN ACCORDANCE WITH THE CLOSURE PLAN.

ABANDONMENT PROCEDURES
RISER STRUCTURE AND DECANT PIPE ASSEMBLY

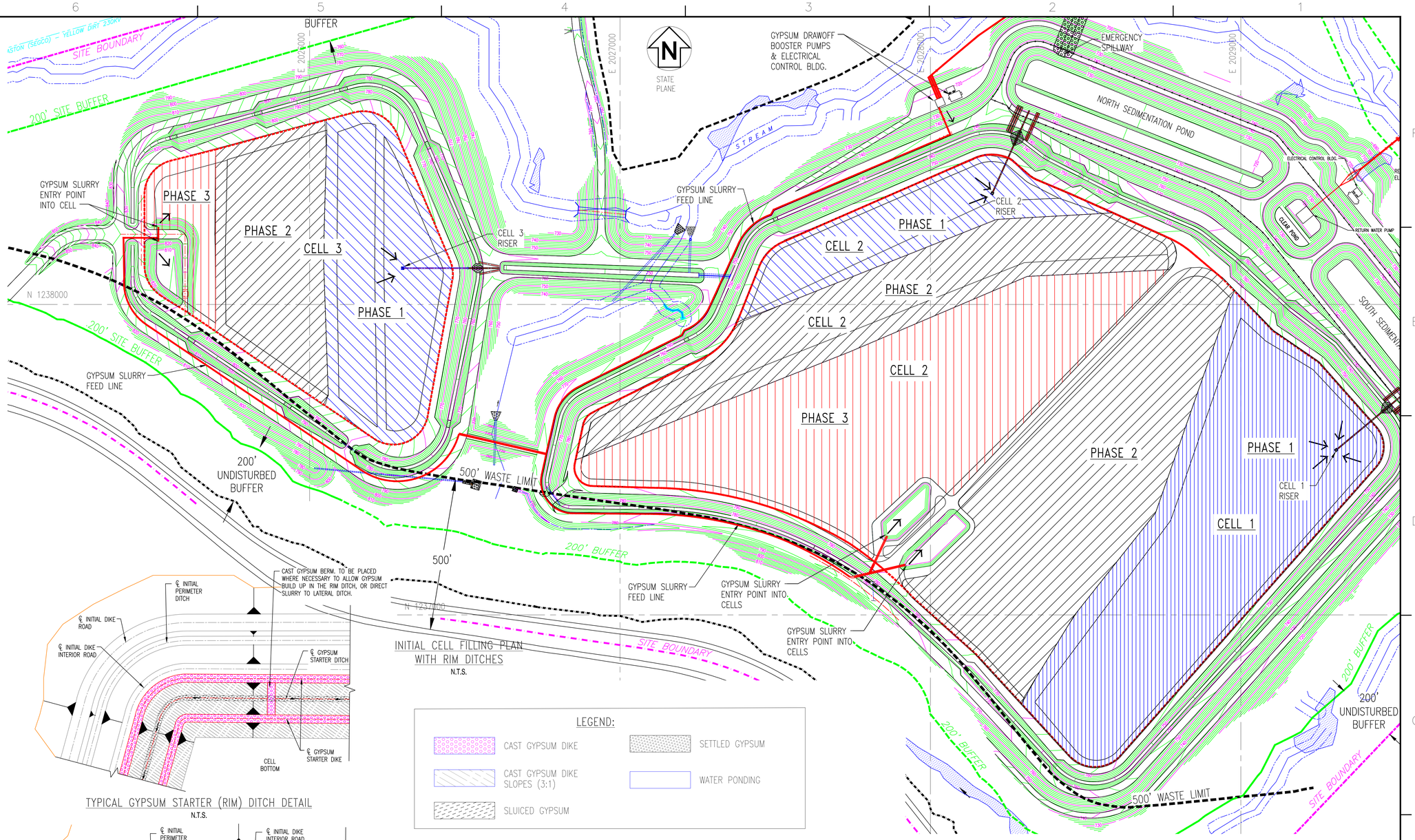
THE CELL 1, CELL 2, AND CELL 3 RISER STRUCTURES AND DECANT PIPE ASSEMBLIES WILL BE ABANDONED IN PLACE ONCE THE RESPECTIVE STRUCTURE HAS REACHED ITS INTENDED SERVICE LIFE, TYPICALLY, AS THE DEPOSITED GYPSUM REACHES OR APPROACHES THE UPPER ELEVATIONS DEFINED BY THE PERIMETER BERM OR ELEVATION OF THE RISER STRUCTURE.

ABANDONMENT OF THE CONCRETE RISER STRUCTURE AND HDPE DECANT PIPE ASSEMBLY WILL BE ACCOMPLISHED BY COMPLETELY FILLING THE DECANT PIPE AND THE LOWER PORTION OF THE RISER STRUCTURE WITH A SELF-LEVELING, LOW STRENGTH, NON-SHRINK, FLOWABLE FILL, GROUT, OR LIGHTWEIGHT CELLULAR CONCRETE IN GENERAL ACCORDANCE WITH THE FOLLOWING PROCEDURES.

1. THE DECANT PIPE UPSTREAM OPENING IN THE RISER STRUCTURE SHALL BE BLOCKED/SEALED WITH A STEEL BULKHEAD. A GROUT INJECTION PORT SHALL BE PROVIDED IN THE TOP PORTION OF THE BULKHEAD, EXTENDING INTO THE HDPE DECANT PIPE. THE UPSTREAM END OF THE INJECTION PORT SHALL BE AFFIXED WITH A 90 ° ELBOW AND PIPE EXTENSION TO RECEIVE THE VERTICAL GROUT PIPE FROM INSIDE THE RISER STRUCTURE. THE VERTICAL PIPE FROM THE INJECTION PORT SHALL EXTEND TO ABOVE THE LEVEL OF CONCRETE POURED TO PLUG THE BOTTOM OF THE RISER (SEE #4 BELOW).
2. A VERTICAL GROUT PIPE SHALL BE THREADED ONTO THE INJECTION PORT EXTENSION AFFIXED TO THE STEEL BULKHEAD AND EXTEND UPWARD TO THE TOP OF THE RISER STRUCTURE.
3. THE VERTICAL GROUT PIPE SHALL BE EQUIPPED WITH A BLEED VALVE AND PRESSURE GAGE ASSEMBLY BELOW THE GROUT NOZZLE ATTACHMENT POINT.
4. THE BOTTOM OF THE RISER STRUCTURE SHALL BE FILLED WITH CONCRETE TO A HEIGHT OF 1.5 TIMES THE DIAMETER OF THE DECANT PIPE.
5. THE DOWNSTREAM OUTLET OF THE DECANT PIPE SHALL BE SEALED WITH A BULKHEAD OR CONCRETE PLUG.
6. THE DECANT PIPE SHALL BE FILLED WITH A FLOWABLE, SELF-LEVELING GROUT OR CONCRETE.
7. THE GROUT OF FLOWABLE CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ABANDONMENT.
8. THE REMAINING VERTICAL PORTION OF THE RISER STRUCTURE MAY EITHER BE FILLED WITH CONCRETE OR BACKFILLED WITH GYPSUM FROM THE DISPOSAL CELL.

MATERIAL RECLAMATION FOR MARKET

1. ANY DRYING AND TEMPORARY STORAGE OF GYPSUM FOR POSSIBLE REUSE WILL BE ACCOMPLISHED WITHIN THE FOOTPRINT OF THE CELL. AN AREA, OR AREAS, CAN BE PROVIDED WITHIN THE CELL BY DIRECTING SLURRY AWAY FROM THE STORAGE/DRYING AREA SUCH THAT THE AREA AND STOCKPILES CAN BE WORKED APPROPRIATELY.



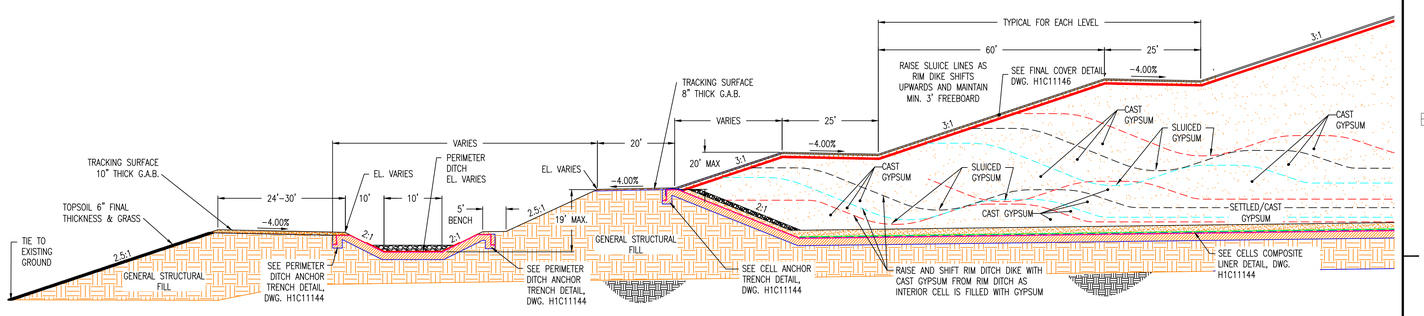
INITIAL CELL FILLING PLAN WITH RIM DITCHES
N.T.S.

TYPICAL GYPSUM STARTER (RIM) DITCH DETAIL
N.T.S.

TYPICAL LATERAL DITCH DETAIL
N.T.S.

LEGEND:

- CAST GYPSUM DIKE
- CAST GYPSUM DIKE SLOPES (3:1)
- SLUICED GYPSUM
- SETTLED GYPSUM
- WATER PONDING



TYPICAL GYPSUM DIKE CONSTRUCTION DEVELOPMENT OF GYPSUM STACK
N.T.S.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens (Digitally signed by Keith Stevens Date: 2022.10.21 08:09:56 -04'00')

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 R. BRANT LANE 9/27/22

GEORGIA REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT NO. 1060 KERRY W. McCRACKEN 9/26/22

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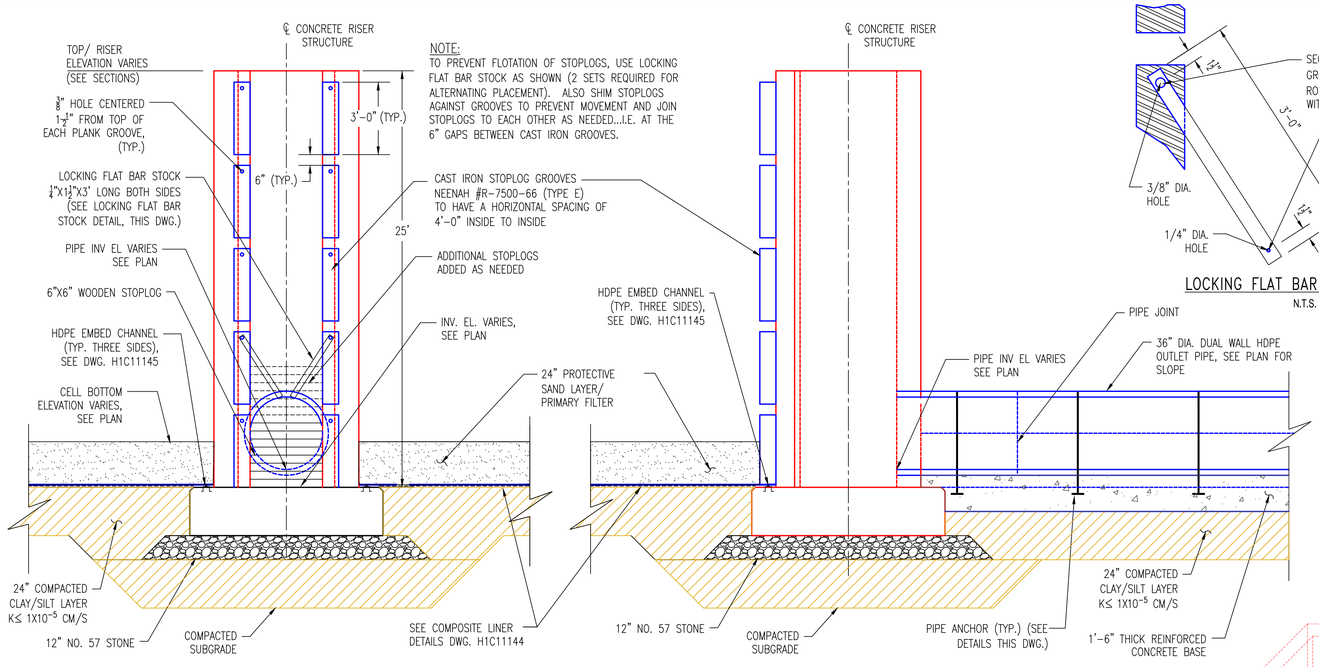
PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
GENERAL GYPSUM STACKING
OPERATION PLAN

REVISION	DATE	BY	CHK'D
0	09-23-2022	ANR	RBL
CCR LF PERMIT APPLICATION [BY HHNT, INC.]			

CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
	X	X	X	X

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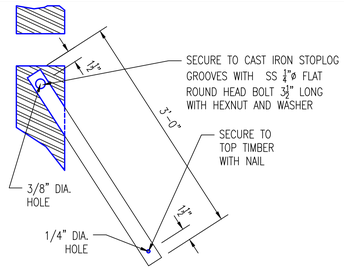
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RISER STRUCTURE SECTION

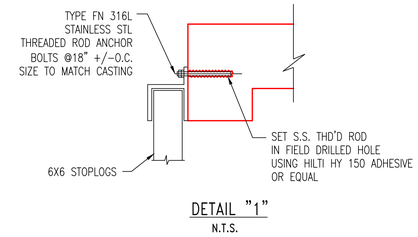
H1C11125, H1C11127 & H1C11129

N.T.S.



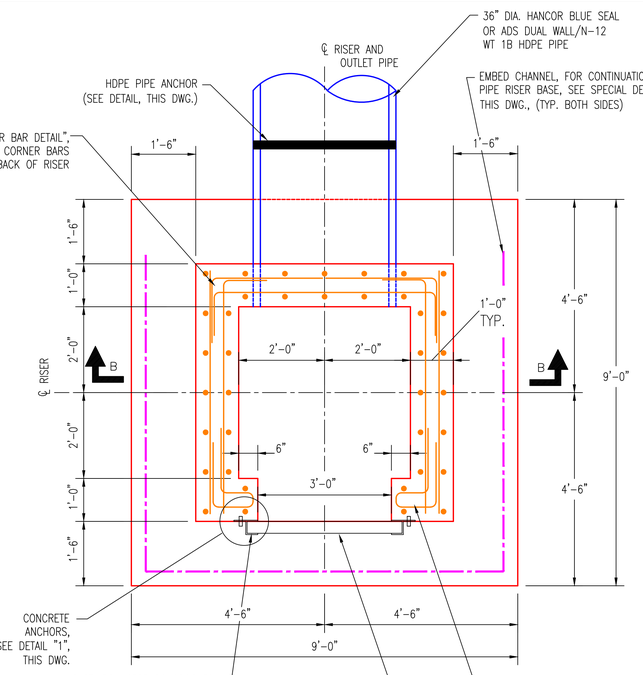
LOCKING FLAT BAR STOCK DETAIL

N.T.S.



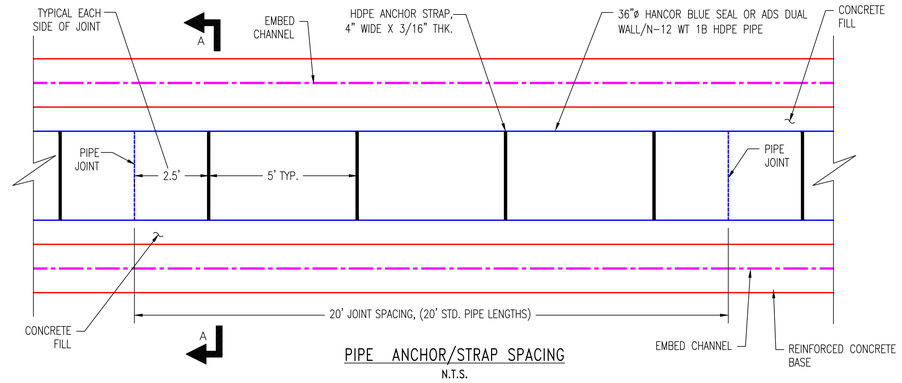
DETAIL "1"

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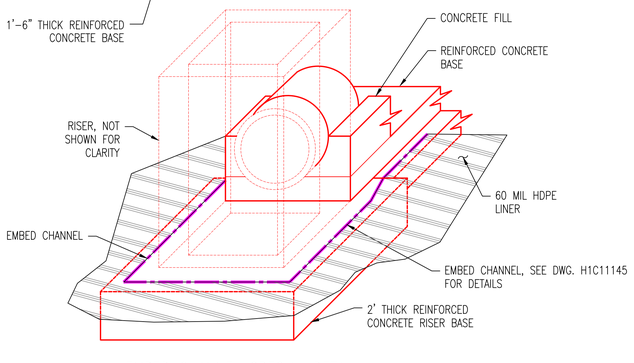
PLAN

N.T.S.



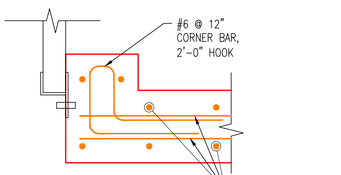
PIPE ANCHOR/STRAP SPACING

N.T.S.



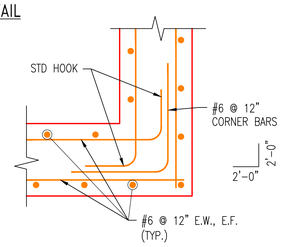
EMBED CHANNEL SPECIAL DETAIL

N.T.S.



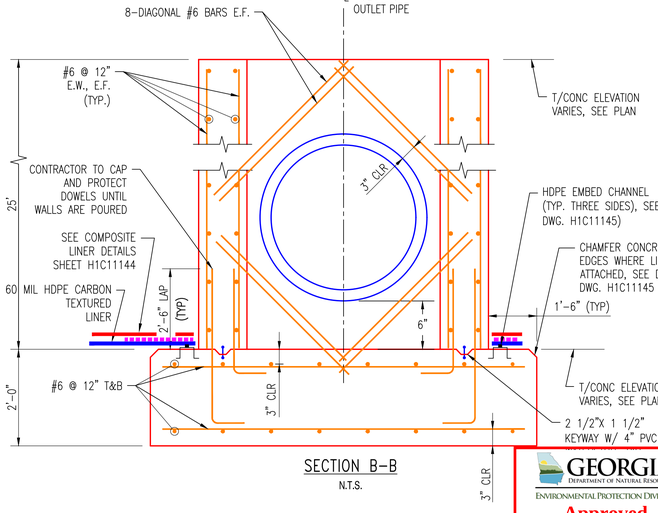
CORNER BAR DETAIL AT OPENING

N.T.S.



TYP. CORNER BAR DETAIL

N.T.S.

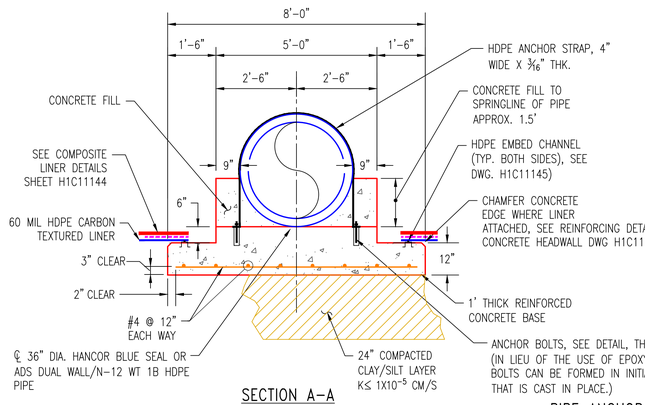


SECTION B-B

N.T.S.

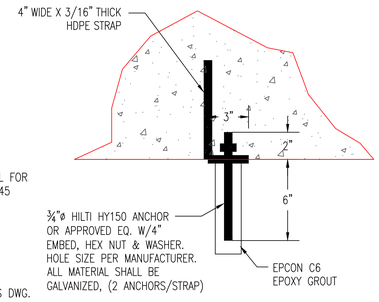
RISER STRUCTURE REINFORCEMENT DETAIL

N.T.S.



SECTION A-A

N.T.S.



ANCHOR BOLT DETAIL

N.T.S.

PIPE ANCHOR DETAIL

N.T.S.

NOTES:

1. ALL CONCRETE AND METAL THAT WILL BE EXPOSED TO OR IN CONTACT WITH GYPSUM AND/OR GYPSUM SLURRY WATER, UNLESS OTHERWISE NOTED, SHALL BE COATED WITH CHEMPRUF 2410 LINING SYSTEM BY ATLAS MINERALS AND CHEMICALS, INC. OR APPROVED EQUAL. THIS WILL INCLUDE ALL CONCRETE HEADWALLS AT DITCH CULVERT DRAIN PIPES IN CELLS, LINED DITCHES AND LINED PONDS AS WELL AS COLLARS/HEADWALLS AROUND THE GYPSUM SLUICE LINES, LEACHATE COLLECTION PIPES, CONCRETE SURFACES FOR HDPE CHANNEL EMBEDS AT RISER STRUCTURE AND ASSOCIATED DECANT PIPE, CONCRETE RISER STRUCTURES, AND ALL CONCRETE FOUNDATIONS AND EXPOSED CONCRETE WITHIN THE PONDS AND LINED DITCHES.
2. THE LINING SYSTEM MATERIALS SHALL BE STORED, HANDLED AND APPLIED AS PER MANUFACTURER'S GUIDELINES AND INSTRUCTIONS.
3. THE LINING SYSTEM SHALL BE APPLIED BY PAINTING/COATINGS CONTRACTOR KNOWLEDGEABLE AND EXPERIENCED WITH IT'S APPLICATION.
4. FOR CORRESPONDING ELEVATIONS, PIPE LENGTHS AND SLOPES FOR EACH RISER ASSEMBLY FOR CELLS 1, 2 & 3 SEE DRAWINGS:
   H1C11125 – FOR CELL 1
   H1C11131 – FOR CELL 2
   H1C11133 – FOR CELL 3

REFERENCES:

H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11131 CELL NO. 2, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11133 CELL NO. 3, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2
H1C11145 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 3

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 9/27/22

GEORGIA REGISTERED NO. 13967 PROFESSIONAL ENGINEER BRENT N. MCWHORTER 9/6/22

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

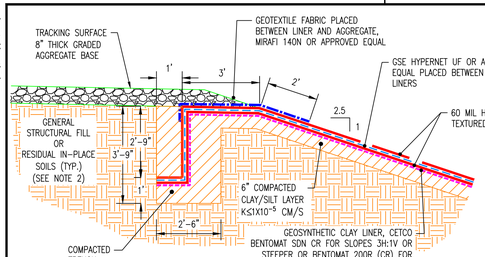
PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3
MISCELLANEOUS DETAILS
SHEET 1

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
0	09-23-2022	ANR	RBL					

CCR LF PERMIT APPLICATION [BY HHNT, INC.]

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
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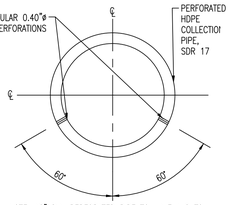
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POND ANCHOR TRENCH DETAIL

N.T.S.

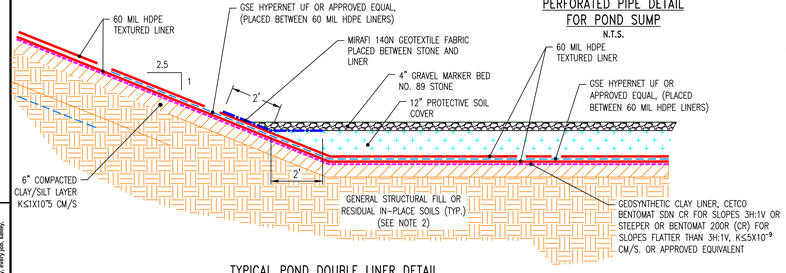
NOTE:
60 MIL HDPE LINER IS NOT TO BE PERMANENTLY ANCHORED AT TOP OF SLOPES UNTIL COVER HAS BEEN TEMPORARILY PLACED ON BOTTOM AND SIDES OF PERIMETER DITCH. LINER TO BE TEMPORARILY ANCHORED WITH SAND BAGS TO PREVENT MOVEMENT.

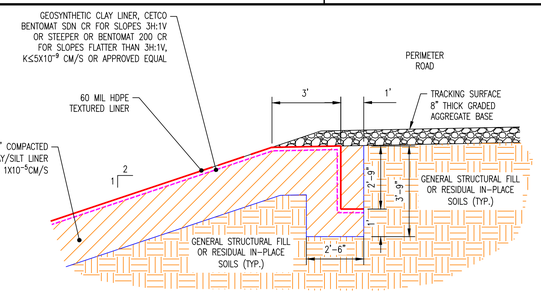


NOTE: 18" DIA. PERFORATED PIPE TO HAVE AASHTO CLASS I PERFORATIONS–6 ROWS OF PERFORATIONS REQ'D PER FT–OF–PIPE (12 PER LF OF PIPE OR 24 TOTAL FOR 2' LONG PERFORATED SECTION)

PERFORATED PIPE DETAIL FOR POND SUMP

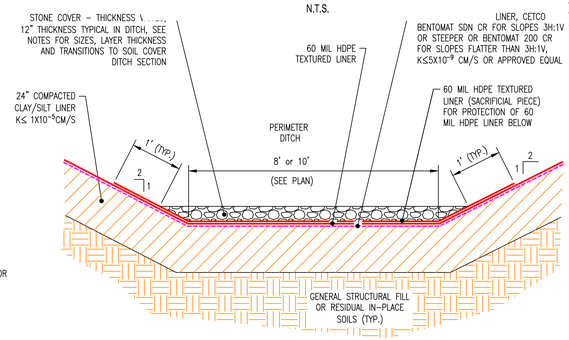
N.T.S.





PERIMETER DITCH WITH ANCHOR TRENCH DETAIL

N.T.S.



PERIMETER DITCH STONE INSTALLATION NOTES:

MATERIALS:

1. THE STONE COVER MATERIALS FOR THE EXPOSED HDPE GEOMEMBRANE ON THE BOTTOM OF THE PERIMETER DITCH SHALL CONSIST OF THE FOLLOWING:
   a. A SACRIFICIAL PIECE OF 60 MIL HDPE LINER SHALL BE PLACED IN THE ENTIRE DITCH SECTION FOR THE GYPSUM DISPOSAL CELLS (NOT INCLUDING CONCRETE DROP STRUCTURES). THIS MATERIAL SHALL EXTEND UP BOTH SIDE SLOPES AND TERMINATE AT A DISTANCE OF 2 FEET ABOVE THE STONE COVER.
   b. A NOMINAL 12–INCH TO 24–INCH THICK LAYER OF R–3 OR R–4 STONE (SEE SCHEDULE ABOVE FOR CLASS/LOCATIONS) ON THE DITCH BOTTOMS.

PLACEMENT:

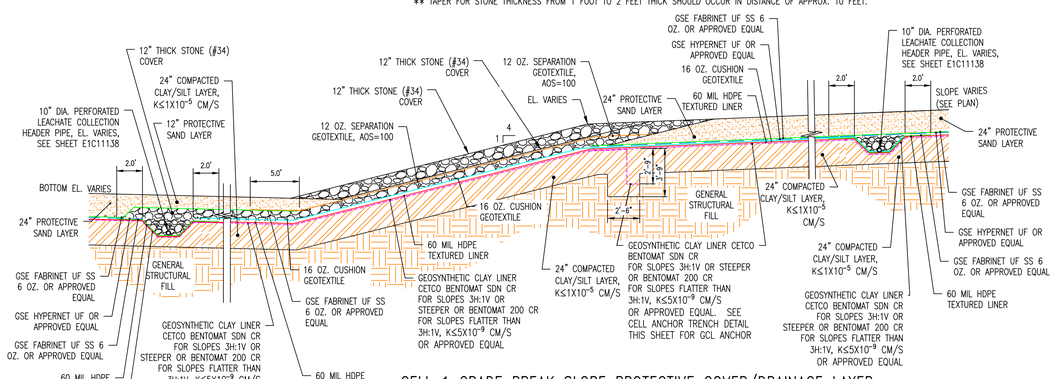
1. AS MUCH AS PRACTICAL, THE GEOCOMPOSITE AND STONE COVER PLACEMENT SHALL BEGIN AT THE HIGH POINT OF THE PERIMETER DITCH AND PROGRESS IN THE DOWN–GRADIENT DIRECTION TO THE LOW POINT OF THE DITCH.
2. PRIOR TO PLACEMENT OF THE GEOCOMPOSITE, THE SURFACE OF THE HDPE LINER SHALL BE CLEARED OF ANY MUD, ROCKS, OR DELETERIOUS DEBRI.
5. PLACEMENT OF THE STONE MATERIALS SHALL BE SUCH THAT GEOCOMPOSITE MATERIAL AND GEOMEMBRANE ARE NOT DAMAGED.
6. AVOID STRETCHING AND TEARING OF THE GEOTEXTILE AND HDPE LINER AT ALL TIMES.
7. DO NOT DROP THE HEAVIER R–3 STONE FROM A HEIGHT OF MORE THAN 8 INCHES.
8. DO NOT DROP THE LIGHTER R2 STONE FROM A HEIGHT OF MORE THAN 12 INCHES.
9. DO NOT ALLOW STONE OR RIP RAP TO ROLL DOWN SLOPES.
10. CONTINUOUS FIELD MONITORING SHALL BE PROVIDED FOR EACH PIECE OF EQUIPMENT USED TO PLACE RIP RAP OR STONE MATERIAL TO ENSURE THAT THE GEOCOMPOSITE AND GEOMEMBRANE ARE NOT DAMAGED.

PERIMETER DITCH STONE COVER SCHEDULE

STRUCTURE	LOCATION/LENGTH* ALONG DITCH ℄	STONE SIZE (NSA) BOTTOM		NOTES
CONCRETE DITCH DROP STRUCTURES DOWNSTREAM SECTION	DOWNSTREAM DITCH 25 L.F.	R–4	2"	–PLACE 2 FT. THICK LAYER DOWNSTREAM AND TERMINATE AT 1' STONE DEPTH **
CROSSOVER PIPE @ SE CORNER CELL #3	UPSTREAM DITCH 10 L.F. DOWNSTREAM DITCH (SEE NOTE)	R–4	2"	–PLACE 1 FT. THK. LAYER UPSTREAM & TAPER ** –PLACE 2 FT. THICK LAYER DOWNSTREAM TO STR. #18
54" DIA. OUTFALL PIPES CELL #3 PERIM DT. STONE COVER AT INLET	UPSTREAM DITCH 30 L.F. DOWNSTREAM DITCH (SEE NOTE)	R–4	2"	–PLACE 2 FT. THK. LAYER UPSTREAM AND TERMINATE AT 1' THK. STONE SECTION –PLACE 2 FT. THK. LAYER DOWNSTREAM TO BERM
54" DIA. OUTFALL PIPES CELL #3 PERIM DT. STONE COVER AT OUTLET	UPSTREAM DITCH N/A DOWNSTREAM DITCH 50 L.F.	R–4	2"	–PLACE 2 FT. THK. LAYER DOWNSTREAM AND TERMINATE AT 1' THK. STONE SECTION
54" DIA. OUTFALL PIPES FROM 15' WIDE DITCH FROM CELL #3 TO CELL #2 PERIM. DT. STONE COVER AT INLET	UPSTREAM DITCH 50 L.F. DOWNSTREAM DITCH N/A	R–4	2"	–PLACE 2 FT. THK. LAYER UPSTREAM AND TERMINATE AT 1' THK. STONE SECTION
54" DIA. OUTFALL PIPES FROM 15' WIDE DITCH FROM CELL #3 TO CELL #2 PERIM. DT. STONE COVER AT OUTLET	UPSTREAM DITCH 30 L.F. DOWNSTREAM DITCH 50 L.F.	R–4	2"	–PLACE 2 FT. THK. LAYER UPSTREAM AND TERMINATE AT 1' THK. STONE SECTION –PLACE 2 FT. THK. LAYER DOWNSTREAM AND TERMINATE AT 1' THK. STONE SECTION
OUTFALL PIPES FROM PERIM. DITCHES TO NORTH SED. POND, STONE COVER AT INLET	UPSTREAM DITCH 30 L.F. DOWNSTREAM DITCH (SEE NOTE)	R–4	2"	–PLACE 2 FT. THK. LAYER UPSTREAM AND TERMINATE AT 1' TK. STONE SECTION –PLACE 2 FT. THK. LAYER DOWNSTREAM TO BERM
OUTFALL PIPES FROM PERIM. DITCHES TO SOUTH SED. POND, STONE COVER AT INLET	UPSTREAM DITCH 30 L.F. DOWNSTREAM DITCH (SEE NOTE)	R–4	2"	–PLACE 2 FT. THK. LAYER UPSTREAM AND TERMINATE AT 1 FT. THK. STONE SECTION –PLACE 2 FT. THK. LAYER DOWNSTREAM TO BERM

* DISTANCES ARE MEASURED ALONG THE PERIMETER DITCH CENTERLINE FROM THE CENTERLINE OF PIPE OR PIPES

** TAPER FOR STONE THICKNESS FROM 1 FOOT TO 2 FEET THICK SHOULD OCCUR IN DISTANCE OF APPROX. 10 FEET.



CELL 2 & 3 GRADE BREAKS PROTECTIVE COVER/DRAINAGE LAYER

N.T.S.

TYPICAL POND DOUBLE LINER DETAIL

N.T.S.

TYPICAL PERIMETER DITCH COMPOSITE LINER W/STONE COVER

N.T.S.

TYPICAL COMPOSITE LINER DETAIL – CELLS 1, 2 & 3

N.T.S.

CELL ANCHOR TRENCH DETAIL

N.T.S.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

NOTES:

1. SEE H1C111124 FOR GENERAL NOTES AND LEGEND.
2. THE SECTIONS SHOWN ON THIS DRAWING REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCHES, LEACHATE COLLECTION SYSTEM, AND SEDIMENT BASIN. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN–PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION SPECIFICATIONS FOR PROOF–ROLLING CRITERIA FOR IN–PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REFERENCES:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11125	CELL NO. 1 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11131	CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11133	CELL NO. 3 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11135	CELL NO. 1 SECTIONS THRU STACK
H1C11145	CELL NO. 1 THROUGH CELL NO. E, MISCELLANEOUS DETAILS, SHEET 3

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 9/27/22

GEORGIA REGISTERED No. 1307 PROFESSIONAL ENGINEER KIRK M. MCMASTER 9/26/22

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0	09–23–2022	ANR	RBL					

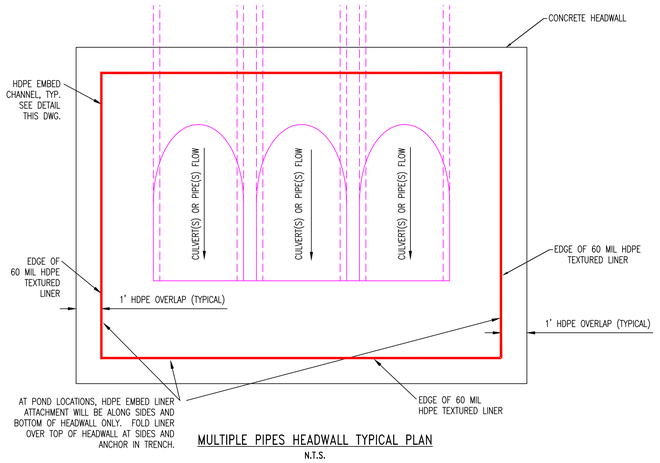
CCR LF PERMIT APPLICATION [BY HHNT, INC.]

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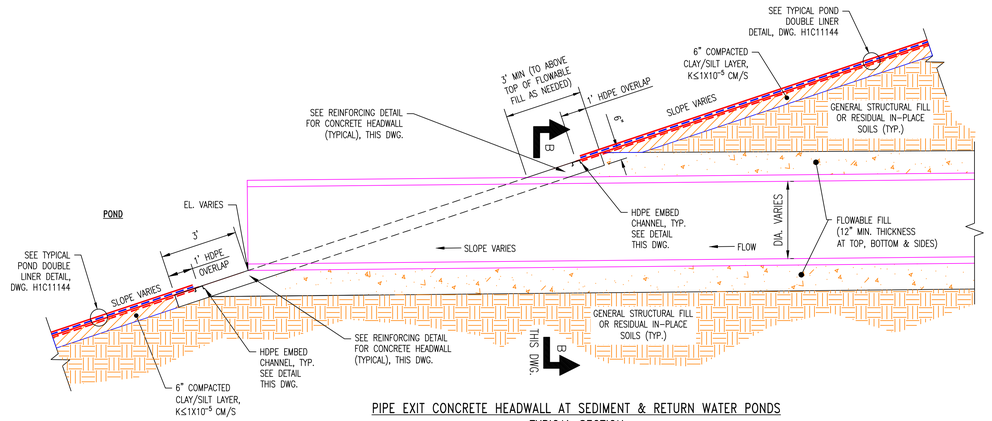
PLANT WANSLEY
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL 1 THROUGH CELL 3
MISCELLANEOUS DETAILS
SHEET 2

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	H1C11144	1	FINAL	0

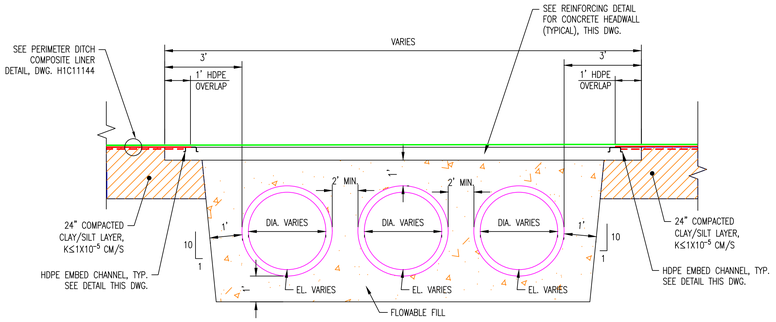
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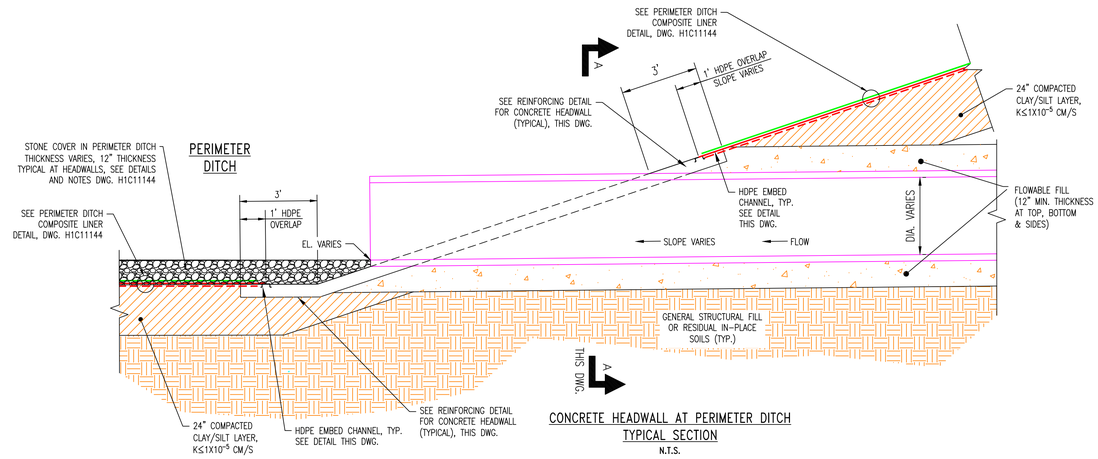
MULTIPLE PIPES HEADWALL TYPICAL PLAN
N.T.S.



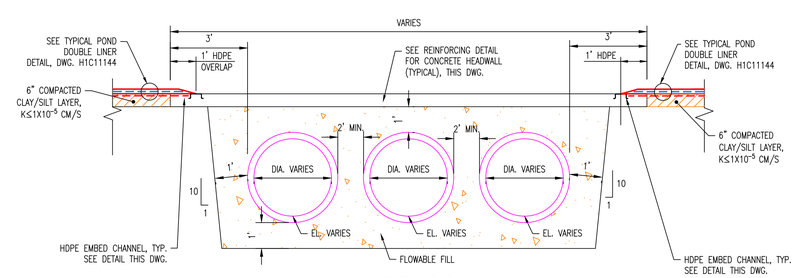
PIPE EXIT CONCRETE HEADWALL AT SEDIMENT & RETURN WATER PONDS
TYPICAL SECTION
N.T.S.



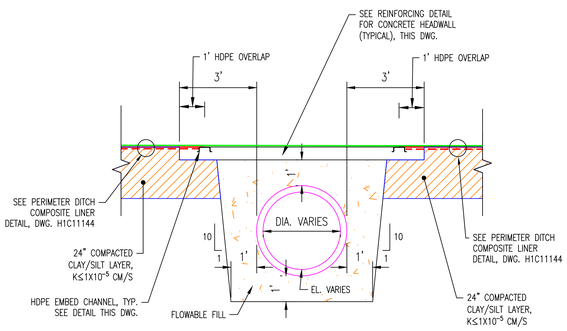
SECTION A–A
TYPICAL MULTIPLE PIPE SECTION AT PERIMETER DITCHES
N.T.S.



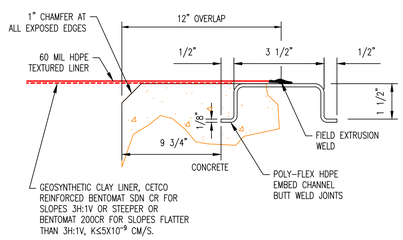
CONCRETE HEADWALL AT PERIMETER DITCH
TYPICAL SECTION
N.T.S.



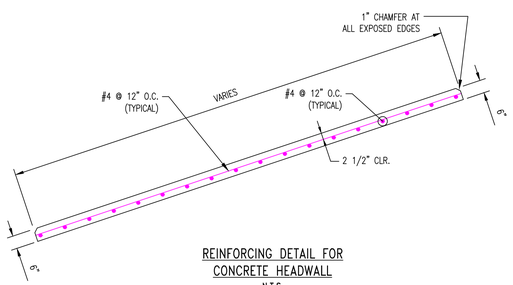
SECTION B–B
TYPICAL MULTIPLE PIPE SECTION AT PONDS
N.T.S.



TYPICAL SINGLE PIPE SECTION AT PERIMETER DITCHES
N.T.S.



POLY-FLEX EMBED CHANNEL INSTALLATION DETAIL
N.T.S.



REINFORCING DETAIL FOR CONCRETE HEADWALL
N.T.S.

LINER NOTE:
COMPOSITE LINER COMPONENTS AND COMPONENT THICKNESSES VARY AT PIPE HEADWALLS DEPENDING ON LOCATION IN PERIMETER DITCHES OR PONDS. SEE COMPOSITE LINER DETAILS OF DITCHES AND PONDS, DWG. H1C11144.

REFERENCES:

H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11131 CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11133 CELL NO. 3 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 9/27/22

GEORGIA REGISTERED No. 12807 PROFESSIONAL ENGINEER KEITH R. NEWSOME 9/6/22

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0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

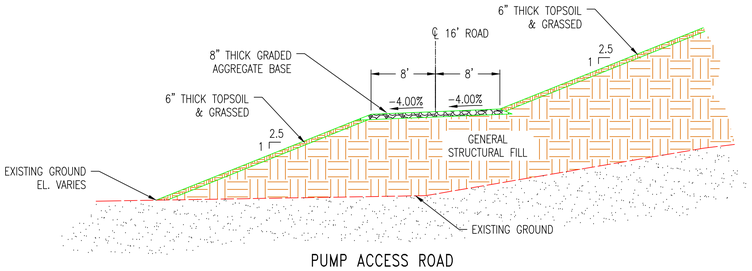
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ANR	RBL					

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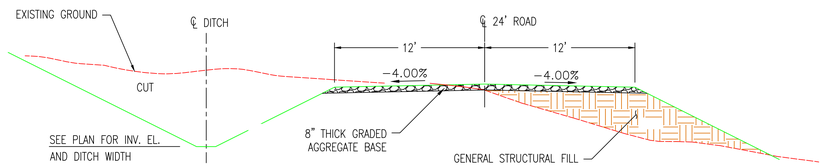
PLANT WANSLEY
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3
MISCELLANEOUS DETAILS
SHEET 3

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
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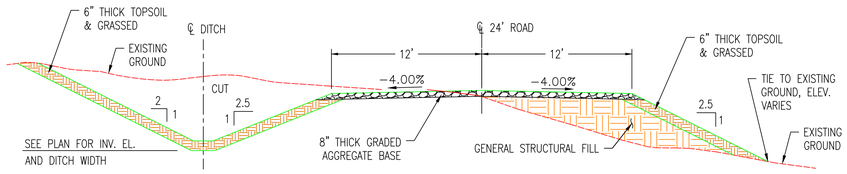
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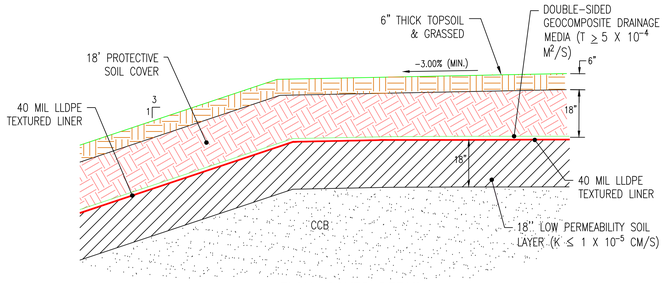
PUMP ACCESS ROAD
TYPICAL SECTION
NOT TO SCALE
(H1C11125, H1C11126, H1C11131, H1C11132, & H1C11133)



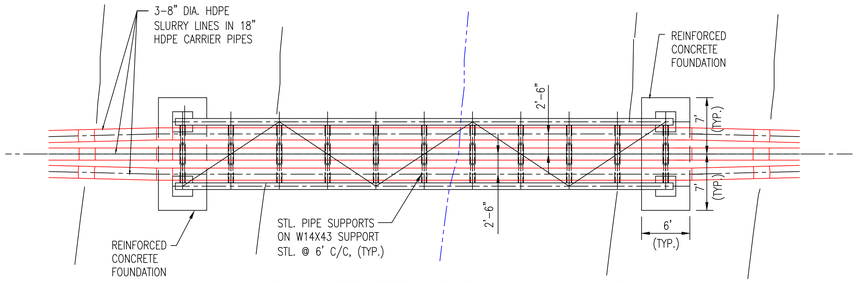
ACCESS ROAD
TYPICAL SECTION
NOT TO SCALE
(H1C11125, H1C11126, H1C11131, H1C11132, & H1C11133)



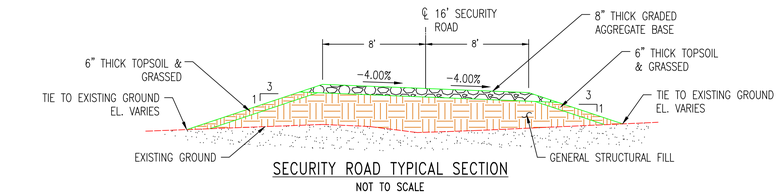
ENTRANCE ROAD
TYPICAL SECTION
NOT TO SCALE
(H1C11125, H1C11126, H1C11131, H1C11132, & H1C11133)



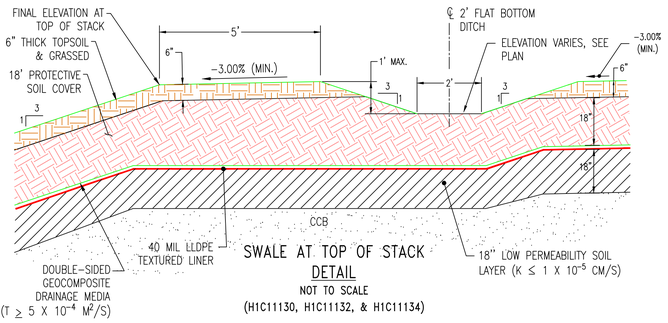
FINAL COVER DETAIL
NOT TO SCALE
(H1C11130, H1C11132, & H1C11134)



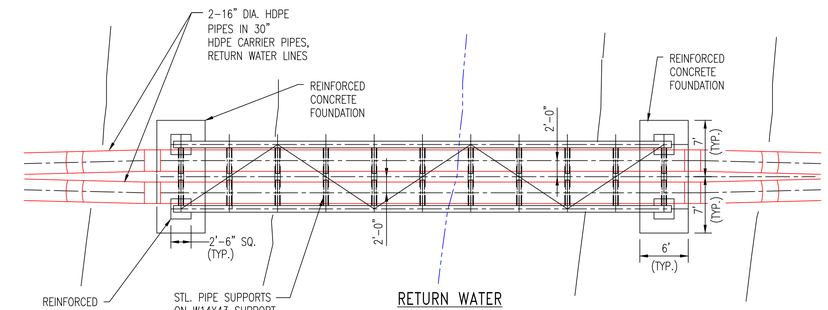
GYPSUM SLURRY STREAM CROSSINGS #1 & #2 – PLAN
NOT TO SCALE
(H1C11124 & H1C11126)



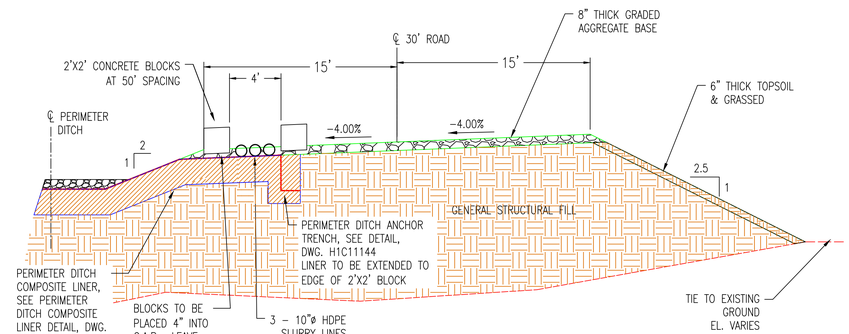
SECURITY ROAD TYPICAL SECTION
NOT TO SCALE
(H1C11125, H1C11126, H1C11127, & H1C11128)



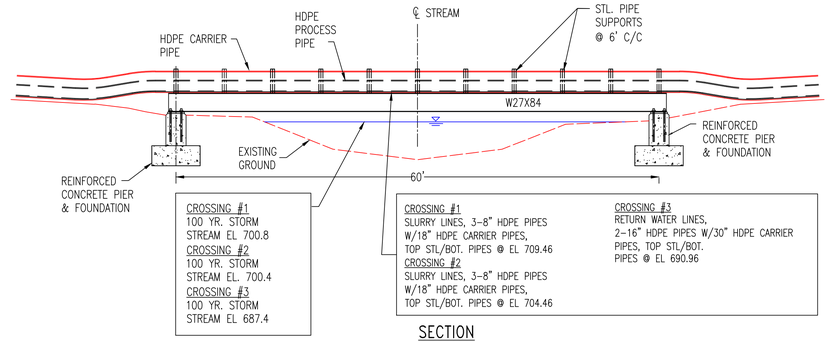
SWALE AT TOP OF STACK
DETAIL
NOT TO SCALE
(H1C11130, H1C11132, & H1C11134)



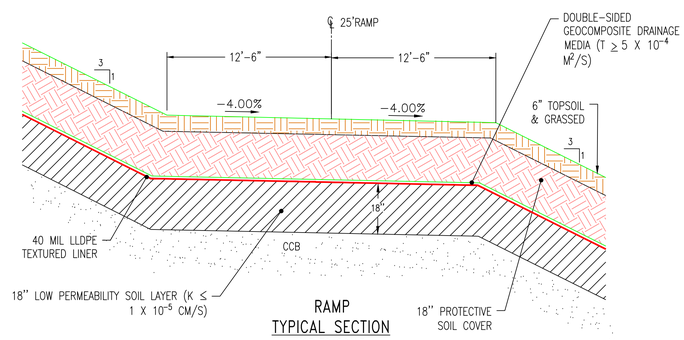
RETURN WATER
STREAM CROSSING PLAN
NOT TO SCALE
(H1C11124 & H1C11125)



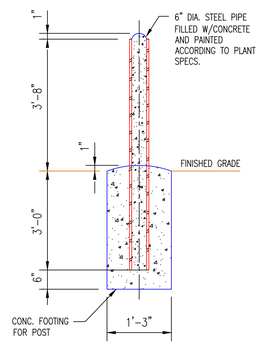
PERIMETER ROAD W/ WIDENING FOR SLURRY LINES
TYPICAL SECTION
NOT TO SCALE
(H1C11125, H1C11126, H1C11131, H1C11132 & H1C11133)



SECTION
NOT TO SCALE
PROCESS PIPING STREAM CROSSING DETAILS
NOT TO SCALE
(H1C11124, H1C11125, & H1C11126)



RAMP
TYPICAL SECTION
NOT TO SCALE
(H1C11130, H1C11132, & H1C11134)



BOLLARD DETAIL
NOT TO SCALE

REFERENCES:

H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11124 GENERAL SITE DEVELOPMENT, CELL LAYOUT
H1C11125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11126 CELL NO. 2, SITE DEVELOPMENT, ROUGH GRADE/BORROW PLAN
H1C11127 SECURITY ROAD LAYOUT AND GRADING PLAN
H1C11130 CELL NO. 1 FINAL STACKING PLAN
H1C11131 CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11132 CELL 1 & 2 COMBINED, FINAL STACKING PLAN
H1C11133 CELL NO. 3 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11134 CELL NO. 3 FINAL STACKING PLAN
H1C11135 CELL NO. 1 SECTIONS THRU STACK
H1C11141 CELL NO. 1 AND CELL NO. 2, SEDIMENT POND SPILLWAY SECTIONS AND DETAILS
H1C11144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2

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Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 9/27/22

GEORGIA REGISTERED No. 32007 PROFESSIONAL LANDSCAPE ARCHITECT GARY M. MCWHORTER 9/26/22

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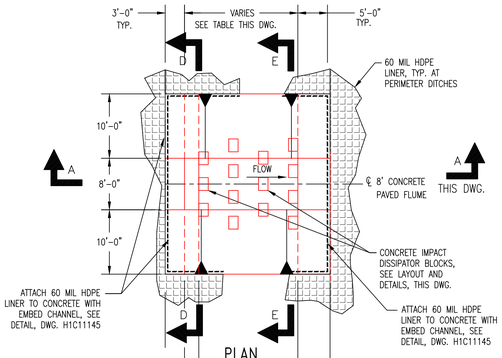
Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 THROUGH CELL NO. 3
MISCELLANEOUS SECTIONS AND DETAILS
SHEET 1

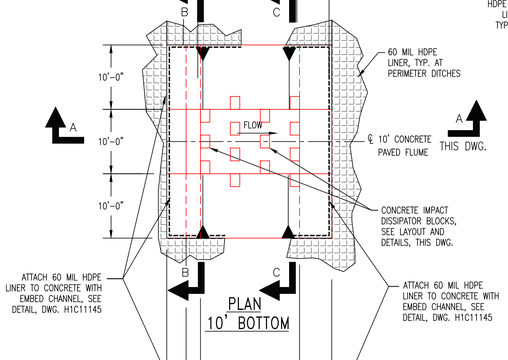
REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

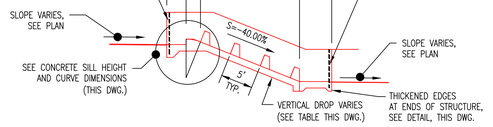
SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
N.T.S.	H1C11146	1	FINAL	0



PLAN
8' BOTTOM

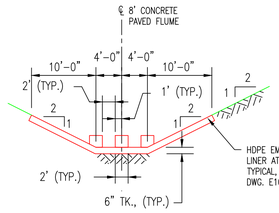


PLAN
10' BOTTOM

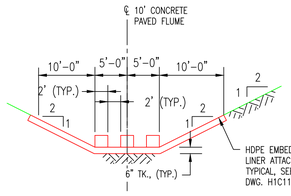


SECTION A–A

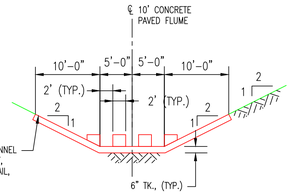
CONCRETE DITCH DROP STRUCTURES
8' AND 10' BOTTOM
(SEE PLANS FOR LOCATIONS)
N.T.S.



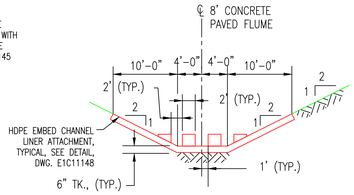
SECTION D–D



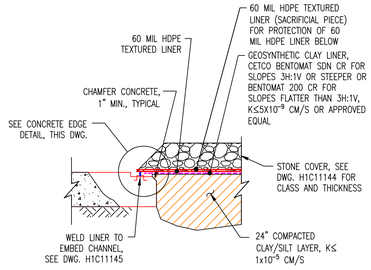
SECTION B–B



SECTION C–C



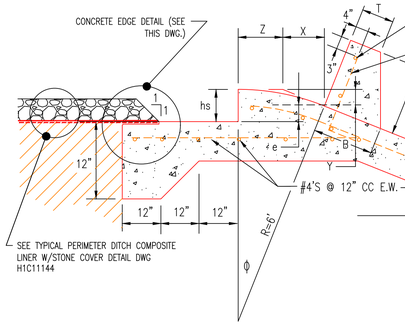
SECTION E–E

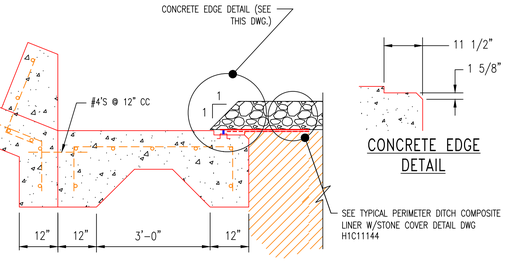


LINER ATTACHMENT
AT CONCRETE EDGES

DROP STRUCTURE TABLE

STRUCTURE NO.	CELL NO.	DROP HEIGHT, FT.
1	1	6.00'
2	1	6.00'
3	1	10.00'
4	1	10.00'
5	2	5.62'
6	2	5.62'
7	2	8.13'
8	2	8.13'
9	2	8.13'
10	OMIT	
11	3	9.04'
12	3	10.00'
13	3	10.00'
14	3	10.00'
15	OMIT	
16	3	10.00'
17	3	10.00'
18	3	10.00'
19	3	9.20'



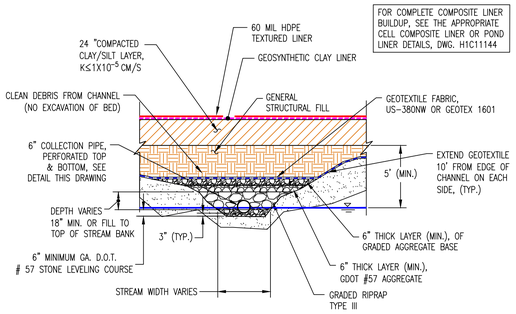


CONCRETE SILL HEIGHT
AND CURVE DIMENSIONS

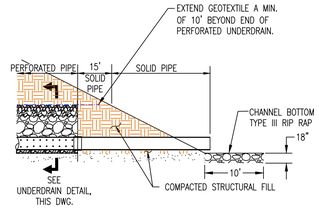
CONCRETE EDGE
DETAIL

B =	1'-6 3/4"
e =	4 1/8"
hs =	10"
hb =	1'-10"
X =	1'-0 1/8"
Y =	5 3/8"
Z =	1'-1 1/8"
T =	10"
∣ 0 =	21°48'05"

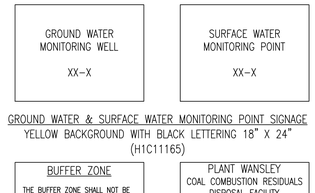
DIMENSION TABLE



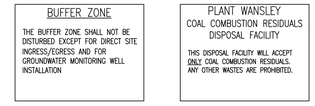
UNDERDRAIN (UNDER CELLS)
INSTALLED IN EXISTING STREAMBEDS
N.T.S.



UNDERDRAIN OUTLET DETAIL
N.T.S.



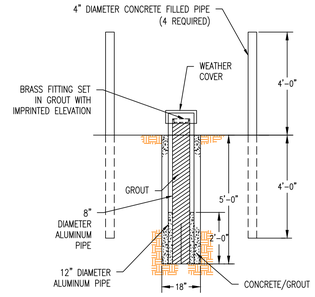
GROUND WATER & SURFACE WATER MONITORING POINT SIGNAGE
YELLOW BACKGROUND WITH BLACK LETTERING 18" X 24"
(H1C11165)



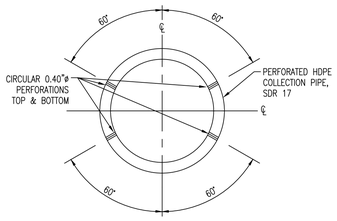
BUFFER ZONE SIGNAGE
YELLOW BACKGROUND
WITH BLACK LETTERING
18" X 24"
(H1C11124)

ENTRANCE SIGNAGE
WHITE BACKGROUND
WITH BLACK LETTERING
4' X 6'
(H1C11124)

SIGNAGE
N.T.S.
H1C11124

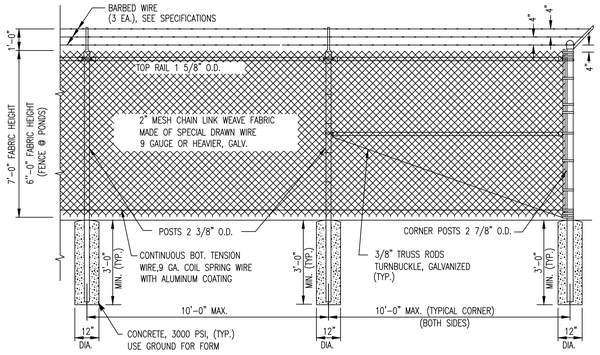


SURVEY CONTROL MONUMENT
N.T.S.
H1C11124



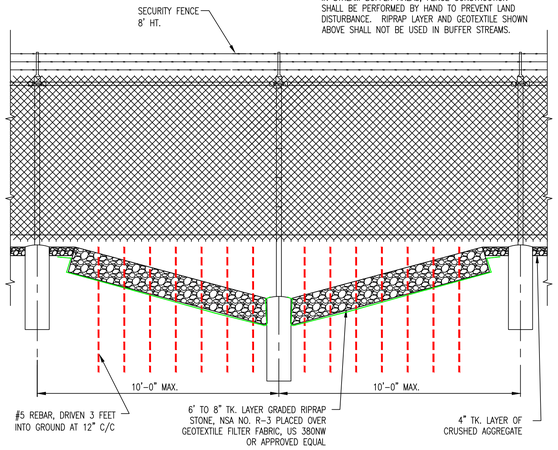
NOTE: 6" DIA. PERFORATED PIPE TO HAVE AASHTO CLASS I PERFORATIONS–6 ROWS OF PERFORATIONS REQ'D PER FT–OF–PIPE (24 PER LF OF PIPE OR 48 TOTAL FOR 2' LONG PERFORATED SECTION)

PERFORATED PIPE DETAIL
FOR UNDERDRAIN
N.T.S.

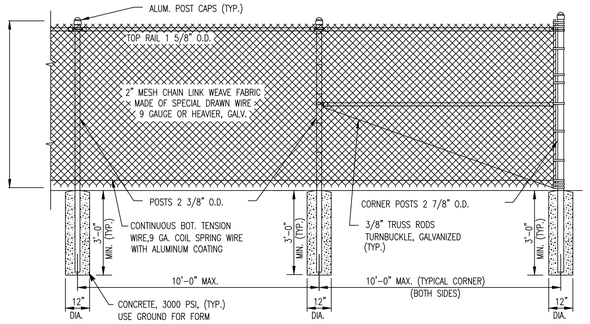


TYPICAL 8' SECURITY
FENCE SECTION AND CORNER
N.T.S.

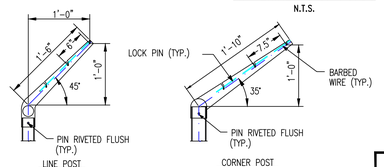
NOTE:
IN STREAM BUFFER AREAS, FENCE CONSTRUCTION SHALL BE PERFORMED BY HAND TO PREVENT LAND DISTURBANCE. RIPRAP LAYER AND GEOTEXTILE SHOWN ABOVE SHALL NOT BE USED IN BUFFER STREAMS.



TYPICAL SECURITY
FENCE DITCH/STREAM CROSSING
N.T.S.



TYPICAL 6' FENCE SECTION AND CORNER
AT PERIMETER OF PONDS
N.T.S.



EXTENSION ARM DETAILS

REFERENCES:

H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11124 GENERAL SITE DEVELOPMENT, CELL LAYOUT
H1C11125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11127 SECURITY ROAD LAYOUT AND GRADING PLAN
H1C11131 CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11133 CELL NO. 3 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11136 CELL NO. 2 SECTIONS THRU STACK
H1C11145 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 3

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3
MISCELLANEOUS SECTIONS AND DETAILS
SHEET 2

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

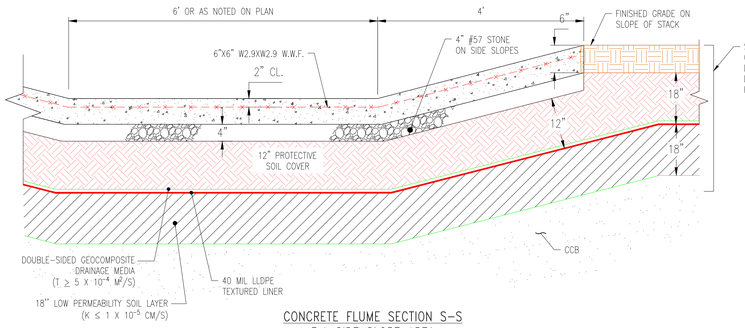
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
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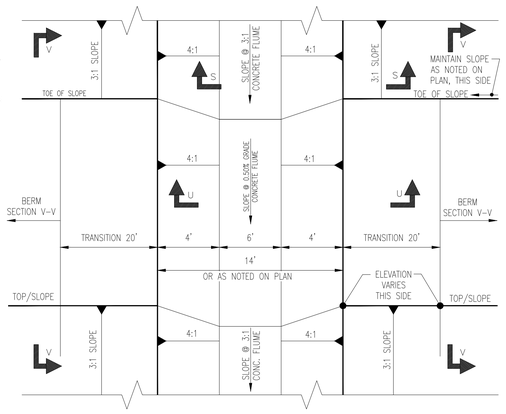
GEORGIA REGISTERED PROFESSIONAL NO. 27685 E. GRANT LANE 9/27/22
GEORGIA REGISTERED PROFESSIONAL No. 12900 KEITH W. STEVENS 9/6/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

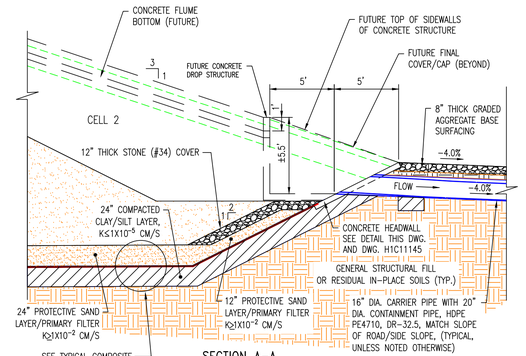
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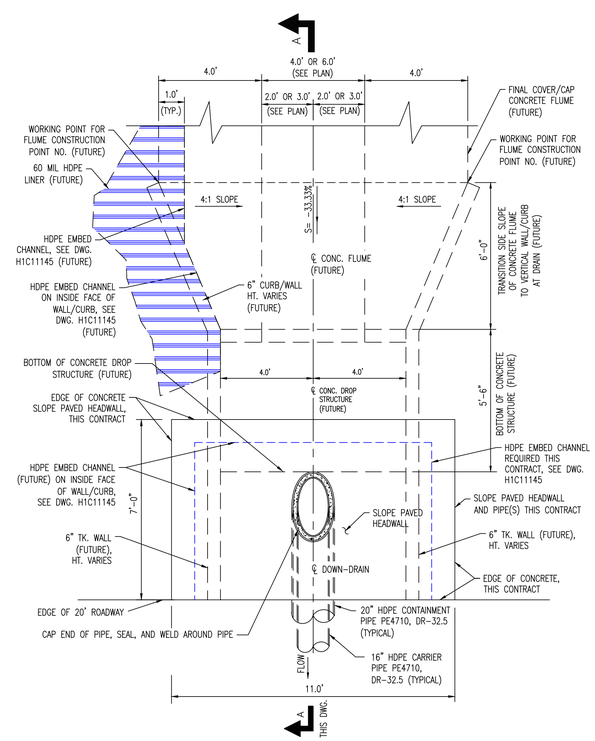
CONCRETE FLUME SECTION S-S
3:1 SIDE SLOPE AREA
N.T.S.
(THIS DWG.)



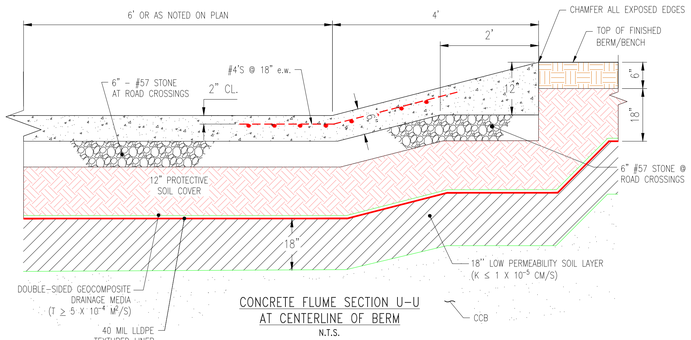
BERM TRANSITION AT FLUME DETAIL
PLAN VIEW
N.T.S.
(H1C11132 & H1C11134)



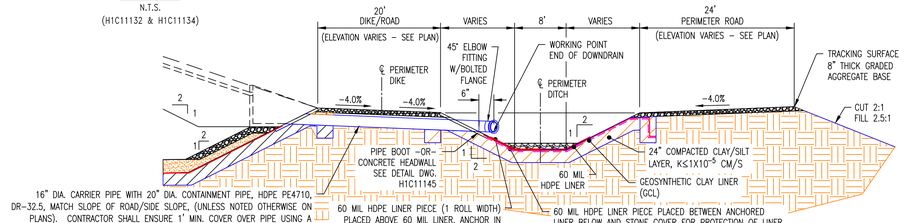
SECTION A-A
RIM DITCH
N.T.S.



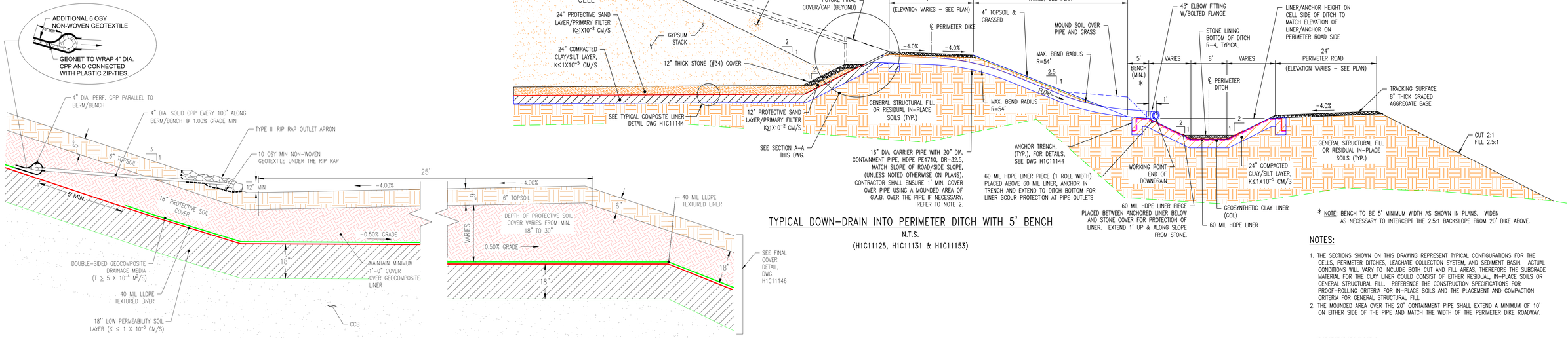
PLAN
INLET WITH HEADWALL
N.T.S.



CONCRETE FLUME SECTION U-U
AT CENTERLINE OF BERM
N.T.S.
(THIS DWG.)



TYPICAL DOWN-DRAIN INTO PERIMETER DITCH
(WITH DIKE ELEVATION AT PERIMETER ROAD ELEVATION)
N.T.S.



TYPICAL FINAL COVER SECTION V-V AT OUTLET LOCATIONS
N.T.S.
(THIS DWG.)

TYPICAL DOWN-DRAIN INTO PERIMETER DITCH WITH 5' BENCH
N.T.S.
(H1C11125, H1C11131 & H1C11153)

* NOTE: BENCH TO BE 5' MINIMUM WIDTH AS SHOWN IN PLANS. WIDEN AS NECESSARY TO INTERCEPT THE 2.5:1 BACKSLOPE FROM 20' DIKE ABOVE.

NOTES:

1. THE SECTIONS SHOWN ON THIS DRAWING REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCHES, LEACHATE COLLECTION SYSTEM, AND SEDIMENT BASIN. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.
2. THE MOUNDED AREA OVER THE 20" CONTAINMENT PIPE SHALL EXTEND A MINIMUM OF 10' ON EITHER SIDE OF THE PIPE AND MATCH THE WIDTH OF THE PERIMETER DIKE ROADWAY.

REFERENCES:

H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11132 CELL NO. 1 & 2 COMBINED FINAL STACKING PLAN
H1C11134 CELL NO. 3 FINAL STACKING PLAN
H1C11144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2
H1C11146 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1
H1C11152 FLUME DATA SHEET

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens Digitally signed by Keith Stevens Date: 2022.10.25 08:59:46 -04'00'

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 R. BRANT LANE 9/22/22

GEORGIA REGISTERED PROFESSIONAL ENGINEER KEITH W. MCMINISTER 9/21/22

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Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 THROUGH CELL NO. 3
MISCELLANEOUS SECTIONS AND DETAILS
SHEET 3

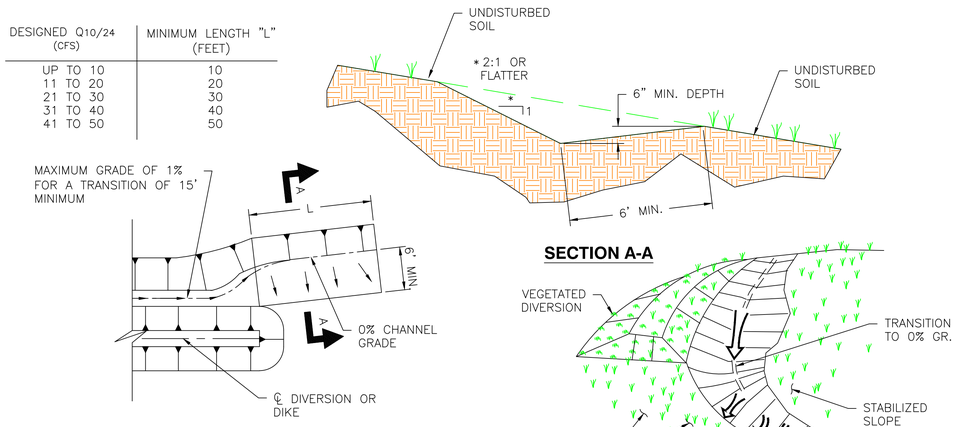
REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
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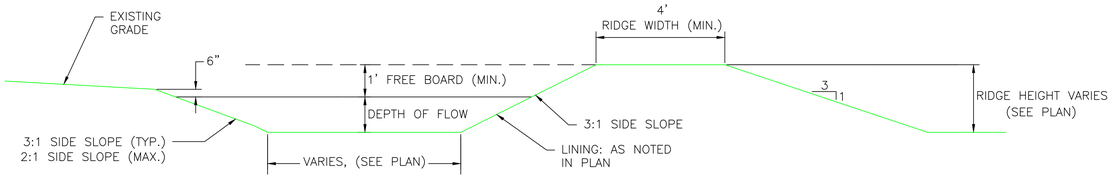
Acad2004 ANSI F: 40x28

DESIGNED Q10/24 (CFS)	MINIMUM LENGTH "L" (FEET)
UP TO 10	10
11 TO 20	20
21 TO 30	30
31 TO 40	40
41 TO 50	50



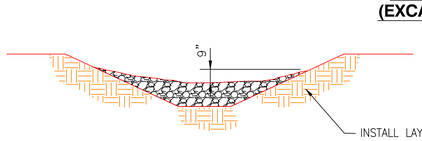
NOTES:
1. GRADE OF CHANNEL FOR LAST 15 FEET OF THE DIKE OR DIVERSION ENTERING THE LEVEL SPREADER SHALL BE LESS THAN OR EQUAL TO 1%.
2. LEVEL SPREADERS MUST BE CONSTRUCTED ON UNDISTURBED SOIL.

TYPICAL LEVEL SPREADER DETAIL (Lv)
N.T.S.



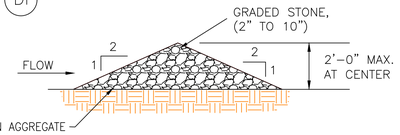
NOTES:
1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIVERSION.
2. THE DIVERSION SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. ALL FILLS SHALL BE MACHINE COMPACTED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETED DIVERSION.
4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIVERSION.
5. DIVERSION CHANNEL SHALL BE STABILIZED TO PREVENT MIGRATION OF SOIL FROM DITCH AND/OR BERM.

DIVERSION DETAIL (EXCAVATION PHASE) (Di)
N.T.S.

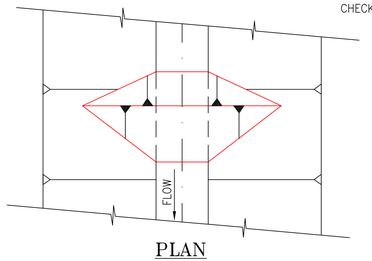


DITCH ELEVATION
N.T.S.

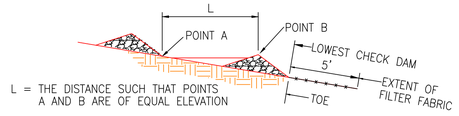
INSTALL LAYER OF FILTER FABRIC BETWEEN AGGREGATE OF STONE CHECK DAM AND EXISTING GROUND TO PREVENT EROSION AT CHECK DAMS. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3, TABLE 3. FILTER FABRIC SHALL EXTEND FIVE FEET (5') PAST TOE OF LAST CHECK DAM.



END ELEVATION
N.T.S.



PLAN
N.T.S.

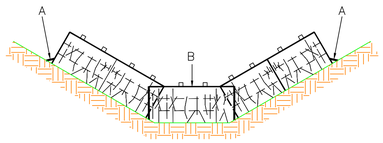


L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

SPACING BETWEEN CHECK DAMS
N.T.S.

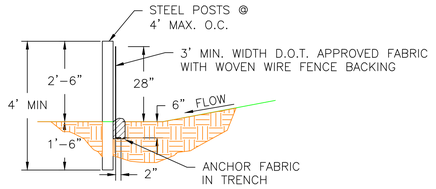
NOTE:
USE WHERE INDICATED ON PLANS AND AS REQUIRED. CHECK DAMS ARE NOT TO BE USED IN LIVE STREAMS.

TYPICAL STONE CHECK DAM (Cd-S)
N.T.S.



NOTES:
1. POINTS "A" SHOULD BE HIGHER THAN POINT "B".
2. EMBED HAY BALES A MINIMUM OF 4 INCHES.
3. HAY BALES ARE TO BE BOUND WITH WIRE OR NYLON.
4. EACH BALE SHALL BE CONSTRAINED BY TWO 2"x 2" WOODEN STAKES OR TWO 1/2" ø STEEL REINFORCING BARS EMBEDDED 2 FT. IN THE GROUND.
5. HAY BALE CHECK DAMS SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED.
6. SEDIMENT BEHIND CHECK DAM SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE-HALF THE ORIGINAL DEPTH OF CHECK DAM OR BEFORE.

PLACEMENT OF HAY BALE BARRIER IN DRAINAGE WAY (Sd1-Hb)
N.T.S.



NOTE:
THE SILT FENCE SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE FABRIC

TYPICAL SILT FENCE DETAIL TYPE "C" (Sd1-C)
N.T.S.

EROSION CONTROL NOTES:

1. EROSION CONTROL MEASURES FOR THIS PROJECT SHALL BE IN COMPLIANCE WITH THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA", CURRENT EDITION.
2. PRIOR TO THE COMMENCEMENT OF CLEARING AND GRUBBING OPERATIONS, AND OTHER EARTHWORK ACTIVITIES, THE INITIAL EROSION CONTROL MEASURES SHOWN ON THE PLANS SHALL BE IN-PLACE AND FULLY OPERATIONAL.
3. CONSTRUCTION OPERATIONS SHALL NOT ENCROACH UPON THE STREAM AND WETLAND BUFFERS OR THE 200' UNDISTURBED SITE BUFFER. SEDIMENT FROM CONSTRUCTION ACTIVITY SHALL BE PREVENTED FROM ENTERING BUFFERS.
4. EROSION CONTROL BMP'S SHOWN ON THE PLAN ARE NOT INCLUSIVE OF ALL CONDITIONS/OPERATIONS WHICH MAY OCCUR DURING THE DURATION OF THE PROJECT. ADDITIONAL MEASURES SHALL BE REQUIRED TO PREVENT TRANSPORT OF SEDIMENT FROM THE SITE. CONTRACTOR SHALL SCHEDULE CLEARING AND GRUBBING, AND EARTHWORK OPERATIONS SO AS TO MINIMIZE THE AREA OF SOIL EXPOSED AT ANY ONE TIME DURING THE PROJECT. SEE "SILT FENCE/HAY BALE BARRIER NOTES" ON THIS DRAWING FOR ADDITIONAL BMP'S REQUIRED FOR CLEARING AND GRUBBING AND GRADING OF AREAS WHICH DO NOT DRAIN INTO TEMPORARY SEDIMENT BASINS.
5. SURFACES OF ALL GRASSED SLOPES CONSTRUCTED AT 2.5:1 (2.5 HORIZ TO 1 VERTICAL) AND STEEPER SHALL BE REINFORCED WITH A PERMANENT, NON-DEGRADEABLE "POLYMER NET" EROSION CONTROL MATTING. MATTING SHALL BE LISTED IN THE GEORGIA DOT QUALIFIED PRODUCTS LIST (QPL#49).
6. PERIODIC INSPECTION AND MAINTENANCE OF BMP'S SHALL BE PROVIDED DURING THE LIFE OF THE PROJECT TO ENSURE SEDIMENT TRAPPING EFFICIENCIES ARE ADEQUATE. THE TEMPORARY SEDIMENT BASIN LOCATED AT THE FUTURE NORTH SEDIMENT POND SHALL BE INSPECTED AND MAINTAINED FOR THE DURATION OF PHASE 1, CELL 1 GYPSUM FILLING OPERATIONS AND UNTIL CELL 2 HAS BEEN BASE GRADED AND READY TO RECEIVE LINER(S).
7. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE EROSION CONTROL MEASURES DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL [illegible] WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

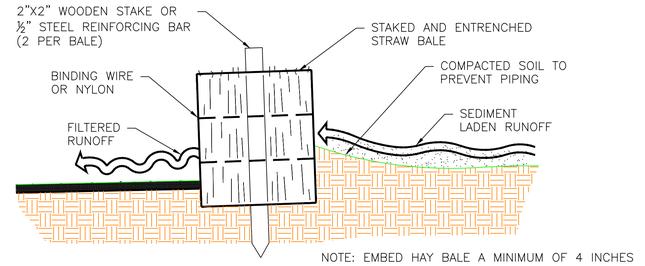
REFERENCES:

H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11127 SECURITY ROAD LAYOUT AND GRADING PLAN
H1C11126 CELL NO. 2, ROUGH SITE GRADING PLAN
H1C11130 CELL NO. 1, FINAL STACKING PLAN
H1C11131 CELL NO. 2, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11132 CELL NO. 2, FINAL STACKING PLAN
H1C11133 CELL NO. 3 SITE DEVELOPMENT, BASE GRADING PLAN
H1C11134 CELL NO. 3, FINAL STACKING PLAN
H1C11145 CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS, SHEET 3

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens
Digitally signed by Keith Stevens Date: 2022.10.25 08:58:06 -04'00'

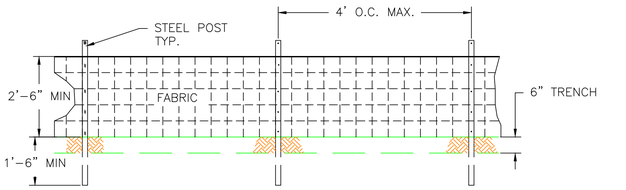
GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LAIRE 9/27/22

GEORGIA REGISTERED No. 12607 PROFESSIONAL ENGINEER DAVID H. MCWHORTER 9/26/22



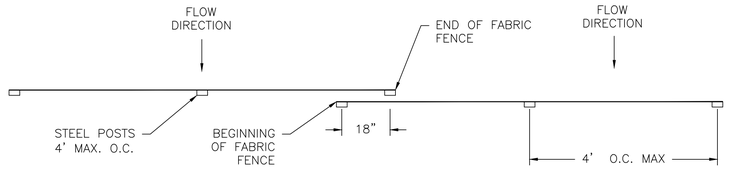
NOTE: EMBED HAY BALE A MINIMUM OF 4 INCHES

CROSS SECTION OF INSTALLED HAY BALE (Sd1-Hb)
N.T.S.



NOTE:
USE 36" G.D.O.T. APPROVED FABRIC USE STEEL POSTS

TYPICAL SILT FENCE FRONT VIEW (Sd1-C)
SCALE: 1"=2'



TOP VIEW

TYPICAL SILT FENCE TYPE C- OVERLAP DETAIL (Sd1-C)
N.T.S.

SILT FENCE/HAY BALE BARRIER NOTES:

1. ALL SILT FENCE SHOWN ON THE PLANS IS TO BE DOUBLE ROW TYPE"C" BARRIER. CONTRACTOR SHALL MAINTAIN FENCE AT THESE LOCATIONS DURING CONSTRUCTION OF CELLS UNTIL FINAL SURFACE TREATMENTS HAVE BEEN APPLIED AND A SUFFICIENT STAND OF GRASS HAS BEEN ESTABLISHED AS DETERMINED BY THE SITE ENGINEER.
2. ADDITIONAL SILT FENCE (OR HAY BALES) SHALL BE REQUIRED IN AREAS WHICH ARE CLEARED OR GRADED AND DO NOT HAVE STORMWATER RUNOFF DIVERTED TO SEDIMENT BASINS MEETING THE CRITERIA LISTED IN THE TABLES BELOW. THE DRAINAGE AREA SHALL NOT EXCEED 1/4 ACRE FOR EVERY 100 FEET OF SILT FENCE.

CRITERIA FOR SILT FENCE PLACEMENT

LAND SLOPE (PERCENT)	MAXIMUM LENGTH OF SLOPE ABOVE FENCE (FEET)
<2	100
2 TO 5	75
5 TO 10	50
10 TO 20	25
>20	15

CRITERIA FOR HAY BALE PLACEMENT

LAND SLOPE (PERCENT)	MAXIMUM LENGTH OF SLOPE ABOVE FENCE (FEET)
<2	75
2 TO 5	50
5 TO 10	35
10 TO 20	20
>20	10

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Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

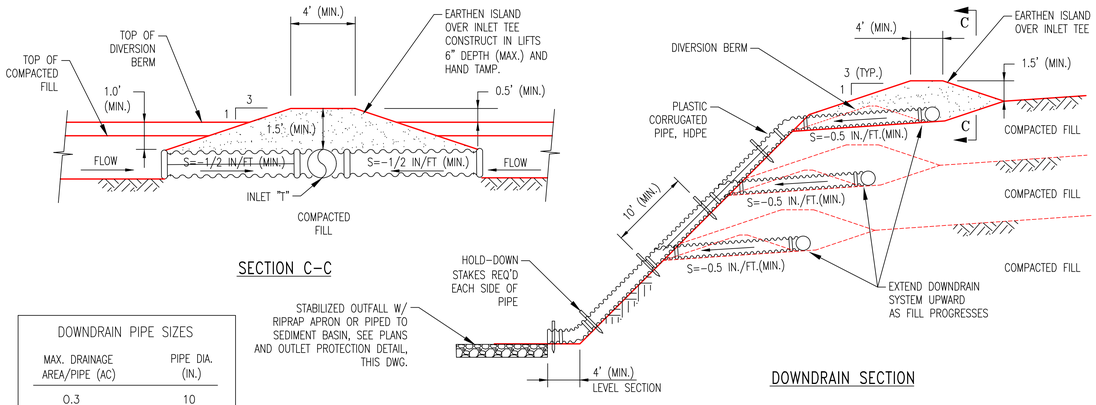
PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL 1 THROUGH CELL 3
EROSION CONTROL SECTIONS & DETAILS
SHEET 1

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010209	H1C11149	1	FINAL	0

ANSI F: 40x28 Acad2004



SECTION C-C

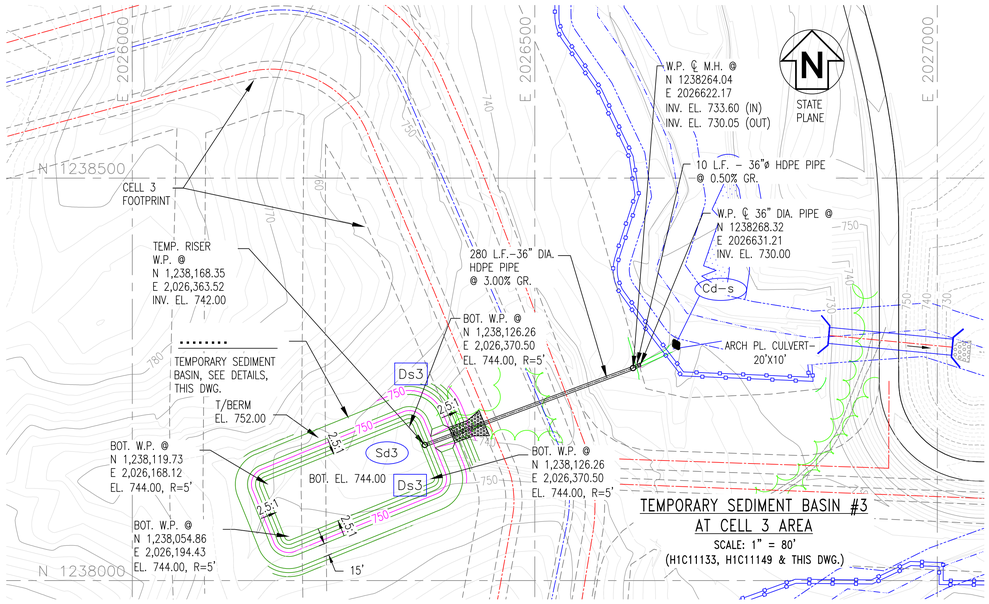
DOWNDRAIN SECTION

DOWNDRAIN PIPE SIZES	
MAX. DRAINAGE AREA/PIPE (AC)	PIPE DIA. (IN.)
0.3	10
0.5	12
1.0	18

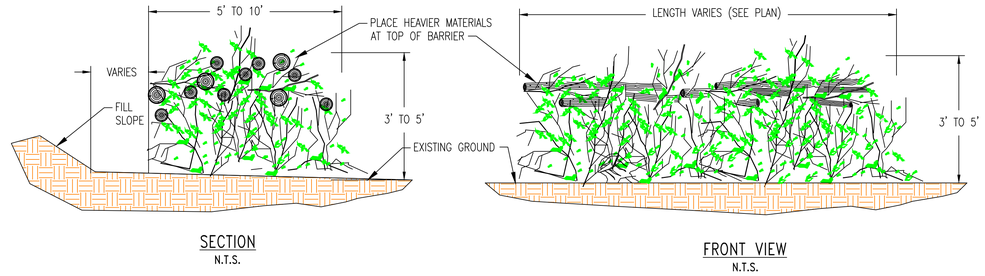
NOTE: ALL PIPE CONNECTIONS SHALL BE WATERTIGHT AND SECURE TO PREVENT SEPARATION DURING USE.

TEMPORARY SLOPE DRAIN
N.T.S.

Dn1



TEMPORARY SEDIMENT BASIN #3 AT CELL 3 AREA
SCALE: 1" = 80'
(H1C11133, H1C11149 & THIS DWG.)



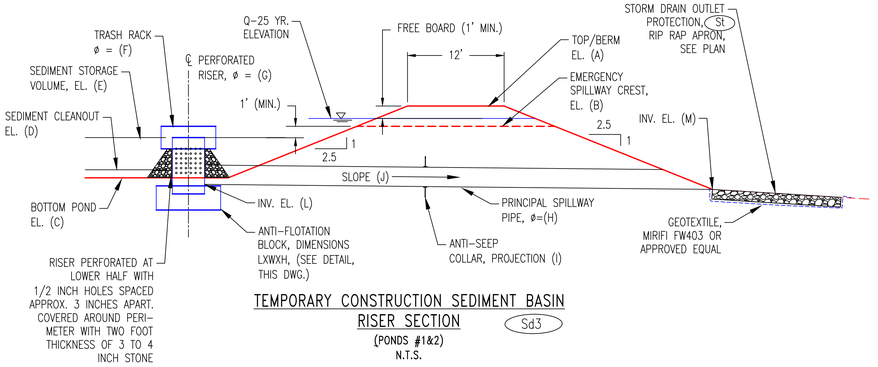
SECTION
N.T.S.

FRONT VIEW
N.T.S.

NOTES:
1. INTERMINGLE BRUSH, LOGS, ETC., SO AS NOT TO FORM A SOLID DAM.
2. REMOVE SOIL FROM STUMPS, LOGS, ETC.. PRIOR TO PLACING IN BARRIER.

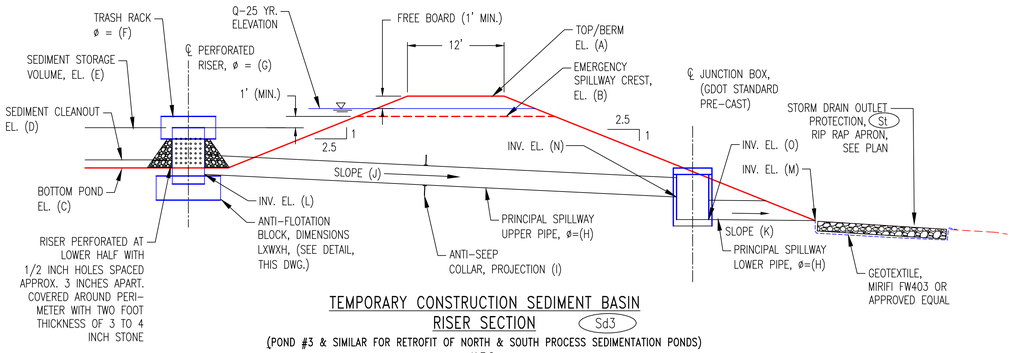
BRUSH BARRIER DETAIL
N.T.S.

Sd1-Bb



TEMPORARY CONSTRUCTION SEDIMENT BASIN RISER SECTION
(PONDS #1&2)
N.T.S.

Sd3



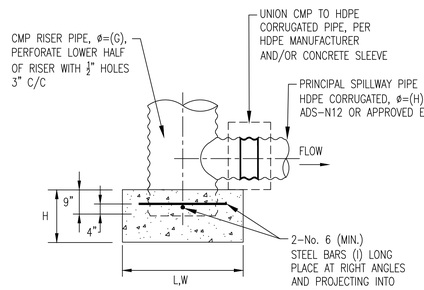
TEMPORARY CONSTRUCTION SEDIMENT BASIN RISER SECTION
(POND #3 & SIMILAR FOR RETROFIT OF NORTH & SOUTH PROCESS SEDIMENTATION PONDS)
N.T.S.

Sd3

TEMPORARY SEDIMENT BASIN SECTION DATA

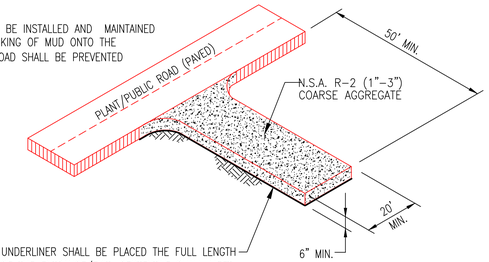
	POND #1	POND #2	RETROFIT SOUTH SED. POND	RETROFIT NORTH SED. POND	POND #3
A	710.00	702.00	740.70	740.70	752.00
B	708.00	700.00	738.33	738.33	750.00
C	704.00	696.50	VARIES	VARIES	744.00
D	704.80	697.30	*SEE NOTE	*SEE NOTE	745.40
E	707.00	699.00	724.00	724.00	748.00
F	72"	72"	54"	54"	54"
G	48"	48"	36"	36"	36"
H	30"	30"	18"	18"	24"
I	18"	18"	24"	24"	24"
J	1.00%	0.50%	18.00%	13.50%	3.00%
K	N/A	N/A	0.50%	0.50%	0.50%
L	702.40	695.50	724.00	723.20	742.00
M	701.40	695.15	685.90	699.95	730.00
N	N/A	N/A	688.00	700.25	733.60
O	N/A	N/A	686.00	700.00	730.05

*NOTE: RETROFITTED SEDIMENTATION PONDS ARE SIZED FOR FLOW RATES FOR PROCESS CONDITIONS AND ARE LARGER THAN REQUIRED FOR BMP'S. SUGGEST CLEANOUT WHEN SEDIMENT DEPTH REACHES TWO FEET. PONDS AND PIPE APPURTENANCES SHALL BE THOROUGHLY CLEANED BEFORE CONVERTING TO USE AS PROCESS PONDS.



CONCRETE RISER BASE DETAIL
NOT TO SCALE

NOTE:
ENTRANCE SHALL BE INSTALLED AND MAINTAINED SUCH THAT TRACKING OF MUD ONTO THE PLANT/PUBLIC ROAD SHALL BE PREVENTED



GEOTEXTILE UNDERLINER SHALL BE PLACED THE FULL LENGTH AND WIDTH OF THE ENTRANCE/EXIT. GEOTEXTILE SHALL MEET REQUIREMENTS OF AASHTO M288-98:

1. FOR SUBGRADES WITH A CBR ≥3 OR SHEAR STRENGTH GREATER THAN 90 KPA, GEOTEXTILE MUST MEET REQUIREMENTS OF AASHTO M288-96 SECTION 7.3.
2. FOR SUBGRADES WITH A CBR BETWEEN 1 AND 3 OR SHEER STRENGTH BETWEEN 30 AND 90 KPA, GEOTEXTILE MUST MEET REQUIREMENTS OF AASHTO M288-96 SECTION 7.4.

GRAVEL CONSTRUCTION ENTRANCE/EXIT
N.T.S.

Co

REFERENCES:
H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11127 SECURITY ROAD LAYOUT AND GRADING PLAN
H1C11126 CELL NO. 2, ROUGH SITE GRADING PLAN
H1C11130 CELL NO. 1, FINAL STACKING PLAN
H1C11131 CELL NO. 2, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11132 CELL NO. 2, FINAL STACKING PLAN
H1C11133 CELL NO. 3, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11134 CELL NO. 3, FINAL STACKING PLAN
H1C11145 CELL [illegible] 3 MISCELLANEOUS SECTIONS, SHEET 3

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Keith Stevens
Date: 2022.09.26 14:57:54 -04'00'

GEORGIA REGISTERED ENGINEER NO. 27185 PROFESSIONAL R. BRANT LANE 9/27/22

GEORGIA REGISTERED LANDSCAPE ARCHITECT No. 1092 PROFESSIONAL Robert M. Wentworth 9/26/22

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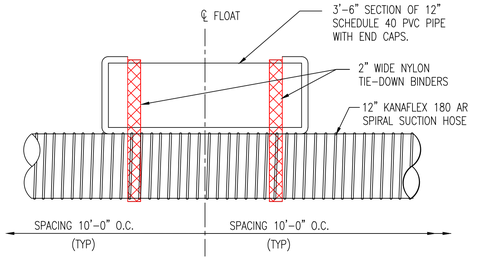
PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL 1 THROUGH CELL 3
EROSION CONTROL SECTIONS & DETAILS
SHEET 2

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	H1C11150	1	FINAL	0

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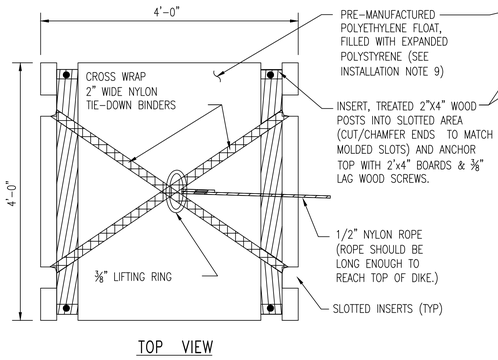


SUCTION HOSE FLOAT

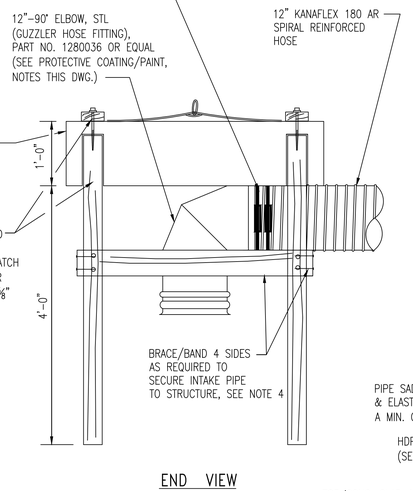
N.T.S.

SIPHON WORK POINT TABLE

CELL NO.	COORDINATE WORK POINT	TOP OF CONCRETE ELEVATION
1	W.P. N 1237639.49 E 2029472.05	EL.= 736.50
2	W.P. N 1238520.40 E 2028299.32	EL.= 736.90
3	W.P. N 1238085.50 E 2026538.22	EL.= 755.00



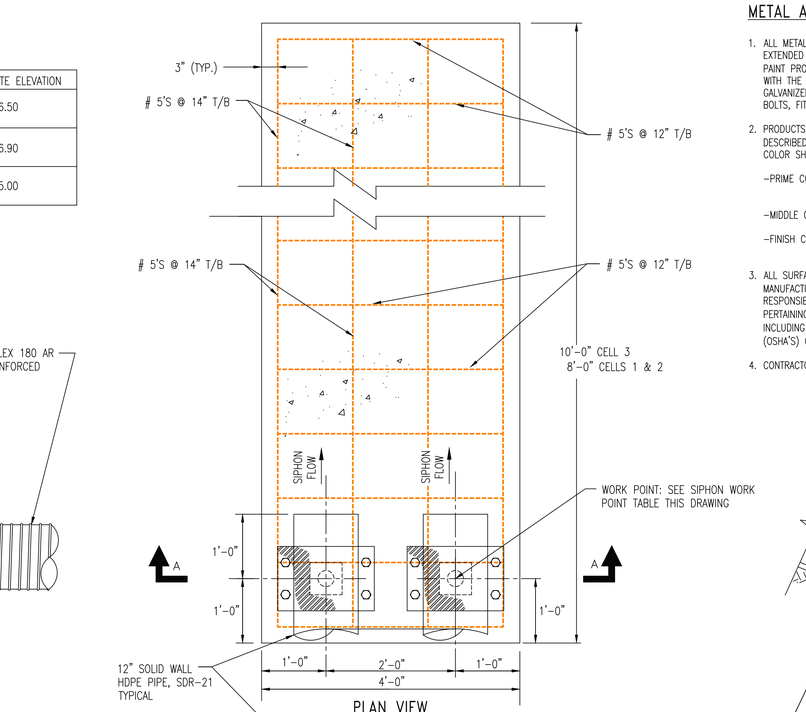
TOP VIEW



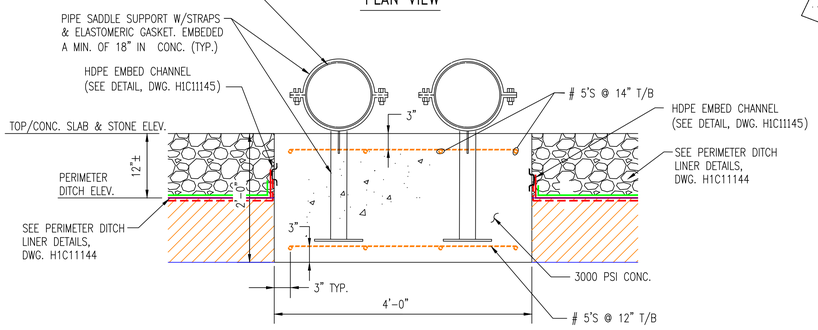
END VIEW

POLYETHYLENE 4'X4'X1' FLOTATION INTAKE

N.T.S.

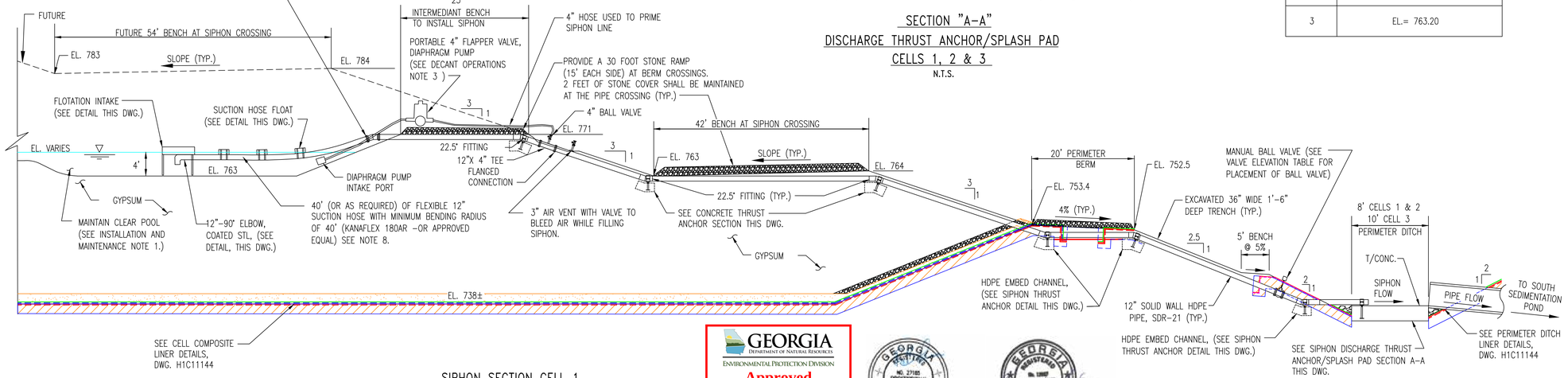


PLAN VIEW



SECTION "A-A"
DISCHARGE THRUST ANCHOR/SPLASH PAD
CELLS 1, 2 & 3

N.T.S.



SIPHON SECTION CELL 1

SCALE: 1" = 10'

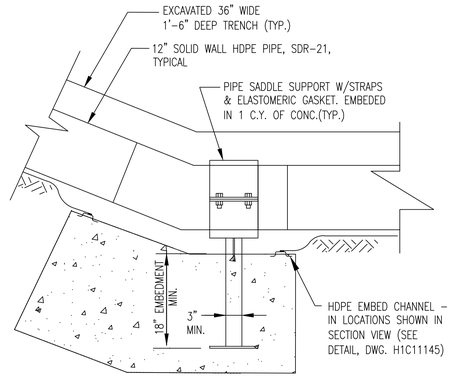
METAL AND CONCRETE SURFACE COATINGS/PAINT:

1. ALL METAL SURFACES WHICH SHALL BE IN CONTACT WITH GYPSUM SLURRY OR DECANT OVER AN EXTENDED PERIOD OF TIME SHALL BE COATED BY THE MANUFACTURER WITH A CORROSION INHIBITIVE PAINT PROVEN EFFECTIVE AS A BARRIER TO THE GYPSUM PRODUCT (CALCIUM SULFATE DIHYDRATE) WITH THE EXCEPTION OF STAINLESS STEEL AND ALUMINUM WHICH DO NOT REQUIRE COATING. GALVANIZED STEEL SHOULD NOT BE SUBSTITUTED FOR MATERIAL SHOWN ON THE PLANS. GALVANIZED BOLTS, FITTINGS, ETC... WHERE INDICATED IN THE PLANS SHOULD NOT BE COATED.
2. PRODUCTS WITHOUT MANUFACTURER APPLIED PROTECTANT SHALL BE THOROUGHLY COATED AS DESCRIBED BELOW IN ACCORDANCE WITH SCS/GEORGIA POWER PAINT/COATING SPECIFICATIONS. PAINT COLOR SHALL BE AS DIRECTED BY GEORGIA POWER.

   -PRIME COAT: SHERWIN-WILLIAMS ZINC-CLAD II, ETHYL SILICATE, INORGANIC, ZINC-RICH COATING AT 2 TO 3 MILS DFT

   -MIDDLE COAT: SHERWIN-WILLIAMS MACROPOXY 646, EPOXY MASTIC AT 5 TO 7 MILS DFT

   -FINISH COAT: SHERWIN-WILLIAMS ACROLON 218 HS ACRYLIC POLYURETHANE, POLYURETHANE ENAMEL AT 2 MILS DFT
3. ALL SURFACES TO RECEIVE COATINGS SHALL BE THOROUGHLY PREPARED FOLLOWING MANUFACTURER'S GUIDELINES AND SCS/GEORGIA POWER SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS PERTAINING TO THE STORAGE/TRANSPORT AND APPLICATION OF PAINTS, COATINGS, SOLVENTS, ETC... INCLUDING THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S (OSHA'S) CURRENT REGULATIONS.
4. CONTRACTOR SHALL PROTECT VALVE STEMS AND OTHER SURFACES FROM OVERSPRAY.



SECTION
SIPHON THRUST ANCHOR

N.T.S.

ELEVATION TABLE FOR PLACEMENT OF BALL VALVE

CELL NO.	MANUAL VALVE PLACEMENT ELEVATION
1	EL.= 744.50
2	EL.= 749.00
3	EL.= 763.20

SIPHON INSTALLATION AND OPERATION NOTES:

INSTALLATION AND MAINTENANCE:

1. MAINTAIN CLEAR POOL AREA AT SIPHON INTAKE OF SUFFICIENT DEPTH DURING DECANT OPERATIONS OF CELL. (5' SUGGESTED, 3' MINIMUM DEPTH – WILL LOSE SIPHON AT 2' DEPTH). AT LEAST 2' OF FREEBOARD MUST BE MAINTAINED AT ALL TIMES.
2. SECOND SIPHON SHOULD BE CAREFULLY MAINTAINED, TESTED, AND SHOULD BE IN POSITION FOR USE AS REQUIRED DURING STORM EVENTS. INTAKE POINT OF THIS SIPHON SHOULD BE POSITIONED 50 FEET OR MORE FROM THE PRIMARY INTAKE SIPHON.
3. FLAG/PROTECT VALVES AND APPURTENANCES OF SIPHON TO PREVENT DAMAGE FROM TRAFFIC AT TOP OF DIKES.
4. SIPHON MUST BE MAINTAINED AIRTIGHT TO PREVENT LOSS OF SUCTION DURING OPERATIONS. FLEX HOSE OR HDPE SOLID WALL PIPE MUST NOT BE PIERCED BY ANY SUPPORTING SCREWS OR BOLTS WHEN ASSEMBLING APPARATUS.
5. WATER SUPPLY INTO SIPHON MAY BE PUMPED FROM CELL OR PLANT WATER.
6. UPPER SECTION OF SIPHON AT TOP-OF-DIKE SHOULD BE BURIED WITH A MINIMUM OF 2 FEET OF COMPACTED COVER ABOVE PIPES. THE 2 FEET OF COVER, SHALL BE TAPERED DOWN TO BERM HEIGHT OVER A DISTANCE OF 15 FEET EACH SIDE OF PIPE TO ALLOW VEHICLE ACCESS ACROSS PIPES. THE UPPER FOOT OF COVER SHOULD BE CRUSHED AGGREGATE BASE MATERIAL.
7. TO REMOVE ANY ACCUMULATED HARDENED GYPSUM FROM INSIDE SURFACE OF PIPE, OPERATOR MAY PERIODICALLY USE HAND-HELD RUBBER HAMMER STRIKING OUTSIDE SURFACE OF MAIN SIPHON LINE. CARE SHOULD BE TAKEN TO PREVENT DAMAGE TO SIPHON VALVES/APPURTENANCES. MOTOR OPERATED EQUIPMENT SHOULD NOT BE USED TO STRIKE SIPHON.
8. SIPHON OPERATIONS WILL BE LIMITED DUE TO AVAILABLE HEIGHT DIFFERENTIAL BETWEEN INTAKE IN GYPSUM CELL AND DISCHARGE OUTLET END OF SIPHON. SIPHON WILL ONLY WORK AT DIKE ELEVATION HEIGHTS: CELL#1 EL. 771 AND ABOVE. THE SUCTION HOSE CAN NOT EXCEED 55' IN LENGTH AT CELL HEIGHT EL. 771'. AS THE CELL HEIGHT INCREASES, THE SUCTION HOSE LENGTH MAY BE INCREASED AS CALCULATED USING THE FOLLOWING EQUATION. (CELL HEIGHT ELEVATION – EL. 771') (3) + (55') = MAXIMUM SUCTION HOSE LENGTH. EX. AT A CELL HEIGHT EL. OF 784', THE MAXIMUM SUCTION HOSE LENGTH WOULD BE (EL. 784' – EL. 771') (3) + (55') = 94'.
9. A PRE-MANUFACTURED 4'X4'X12" POLYETHYLENE DOCK FLOAT SECTION WITH EXPANDED POLYSTYRENE FILL AS SHOWN IN DETAILS MAY BE ACQUIRED AT WWW.PROTATCH.COM OR AN APPROVED EQUAL MAY BE PROVIDED.
10. THE SIPHON PIPE RUNNING DOWN OUTER SLOPE OF STACKS SHOULD BE PLACED IN AN EXCAVATED TRENCH TO CONTROL MOVEMENT OF PIPE FROM EXPANSION/CONTRACTION OF HDPE AND THRUST OF SIPHON DURING OPERATIONS. THIS TRENCH SHOULD NOT BE BACKFILLED AS THERE WILL BE A NEED TO REMOVE GYPSUM DEPOSITS ACCUMULATING ALONG THE LENGTH OF THE PIPE (SEE NOTE 7 ABOVE). THE PIPE SHOULD NOT BE ENCASED IN THE CONCRETE THRUST BLOCKS BUT SHOULD BE SECURELY ATTACHED TO THE CONCRETE USING PIPE SADDLE SUPPORTS W/STRAPS AND ELASTOMERIC GASKET.
11. ALL METAL SURFACES OF THE SIPHON ASSEMBLY ARE TO BE COATED AS OUTLINED IN METAL SURFACE COATINGS/PAINT NOTES ON THIS DRAWING.
12. PRIOR TO PLACING FINAL SURFACE/CAP, THE SIPHON AND ALL APPURTENANCES (INCLUDING CONCRETE THRUST BLOCKS) SHALL BE REMOVED.

DECANT OPERATIONS:

1. SUBMERGE INTAKE OF PIPE BELOW POOL ELEVATION OF GYPSUM CELL. ALLOW FOR SUFFICIENT SUBMERGENCE TO PREVENT LOSS OF PRIME IN SIPHON IF AIR IS ALLOWED INTO INTAKE. A CLEAR POOL IN THE AREA OF THE INTAKE MUST BE MAINTAINED DURING COURSE OF CELL DECANTING.
2. CLOSE BALL VALVE AT PIPE DISCHARGE END. VALVE SHOULD BE A MANUAL BALL VALVE WHICH CAN BE OPERATED FROM THE TOP OF THE DIKE AREA TO FACILITATE SEQUENCE OF OPERATION/FILLING OF SIPHON.
3. OPEN AIR VENT VALVE AND OPEN WATER SUPPLY VALVE AT TOP OF SIPHON/DIKE AND FILL DISCHARGE PIPE FROM DOWNSTREAM BALL VALVE UNTIL WATER DISCHARGES FROM THE AIR VENT.
4. TURN OFF WATER SUPPLY WHEN DOWNSTREAM PIPE IS FILLED AND CLOSE AIR VENT VALVE.
5. OPEN DISCHARGE VALVE (BALL VALVE) TO START SIPHON.
6. REGULATE FLOW FROM CELL BY DISCHARGE VALVE.
7. FOR CONTINUOUS OPERATION, THE DISCHARGE VALVE WILL NEED TO BE CALIBRATED SUCH THAT THE OPERATOR WILL KNOW THE VALVE POSITION WHERE THE DISCHARGE EQUALS THAT OF THE SLURRY ENTERING THE STACK..I.E. THE PERMANENT POOL ELEVATION OF THE STACK IS CONSTANT. THIS VALVE MAY BE OPENED UP TO ALLOW FOR ADDITIONAL DISCHARGE FROM STORM EVENTS, HOWEVER A SECOND SIPHON WILL BE NEEDED FOR LARGER STORM FLOW DISCHARGE (SEE BELOW).

STORM FLOW DISCHARGE OPERATIONS:

1. MAINTAIN DECANT SIPHON FLOW WITH DISCHARGE VALVE OPEN FOR FULL FLOW.
2. PRIME SECOND SIPHON USING PROCEDURES ABOVE AND SET DISCHARGE VALVE OPEN TO FULL FLOW.
3. SHUT OFF SECOND SIPHON WHEN WATER LEVEL IN CELL RETURNS TO PROCESS ELEVATION. (CLOSE MANUAL BALL VALVE AT DISCHARGE OF SIPHON).

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 — GRANT LANE — 9/27/22

GEORGIA REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT NO. 1202 — DAVID M. MCDONALD — 9/26/22

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Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL 1 THROUGH CELL 3
SIPHON SECTIONS AND DETAILS

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	H1C11151	1	FINAL	0

Acad2004 ANSI F: 40x28

FLUME A			
POINT NO.	NORTHING	EASTING	ELEVATION
A1	1237682.66	2027978.61	904.15
A2	1237696.47	2027974.78	904.15
A3	1237678.66	2027908.07	883.00
A4	1237692.60	2027906.67	883.00
A5	1237671.67	2027784.99	882.00
A6	1237685.57	2027782.75	882.14
A7	1237656.75	2027729.59	863.00
A8	1237670.34	2027726.18	863.00
A9	1237619.74	2027592.10	843.00
A10	1237633.48	2027589.29	843.00
A11	1237586.39	2027468.24	843.00
A12	1237600.16	2027465.56	843.60
A13	1237578.73	2027405.52	823.00
A14	1237592.57	2027403.35	823.00
A15	1237549.47	2027165.58	823.30
A16	1237563.31	2027163.43	823.20
A17	1237537.81	2027104.17	803.00
A18	1237551.59	2027101.68	803.00
A19	1237507.31	2026943.45	803.80
A20	1237521.07	2026940.84	803.83
A21	1237507.96	2026909.77	803.98
A22	1237521.61	2026912.91	803.98
A23	1237516.76	2026871.60	792.00
A24	1237530.33	2026874.99	792.00
A25	OMIT	OMIT	OMIT
A26	OMIT	OMIT	OMIT

FLUME B			
POINT NO.	NORTHING	EASTING	ELEVATION
B1	1237783.38	2028160.95	904.15
B2	1237780.51	2028175.04	904.27
B3	1237853.81	2028158.95	883.00
B4	1237853.24	2028172.92	883.00
B5	1237945.35	2028156.26	863.00
B6	1237945.34	2028170.24	863.00
B7	1238040.51	2028153.51	843.00
B8	1238039.81	2028167.49	843.00
B9	1238135.80	2028158.29	823.00
B10	1238134.73	2028172.25	823.00
B11	1238232.03	2028168.25	803.00
B12	1238230.59	2028182.18	803.00
B13	1238331.17	2028178.52	783.00
B14	1238329.73	2028192.44	783.00
B15	1238433.85	2028195.75	763.00
B16	1238431.32	2028209.52	763.00
B17	1238464.86	2028200.95	762.00
B18	1238462.31	2028214.72	762.00
B19	OMIT	OMIT	OMIT
B20	OMIT	OMIT	OMIT
B21	OMIT	OMIT	OMIT
B22	OMIT	OMIT	OMIT

FLUME C			
POINT NO.	NORTHING	EASTING	ELEVATION
C1	1237682.86	2028501.34	904.15
C2	1237676.02	2028513.55	904.15
C3	1237743.03	2028534.73	883.00
C4	1237736.24	2028546.97	883.00
C5	1237782.59	2028556.68	883.85
C6	1237774.70	2028568.32	883.40
C7	1237831.38	2028596.47	863.00
C8	1237823.57	2028608.16	863.00
C9	1237915.32	2028641.71	843.00
C10	1237908.62	2028654.11	843.00
C11	1237939.94	2028654.98	844.00
C12	1237934.30	2028667.84	844.00
C13	1237998.76	2028675.34	823.00
C14	1237994.18	2028688.57	823.00
C15	1238081.99	2028704.15	803.00
C16	1238077.42	2028717.38	803.00
C17	1238165.19	2028732.95	783.00
C18	1238160.61	2028746.18	783.00
C19	1238205.75	2028746.99	778.00
C20	1238200.35	2028759.93	778.20

FLUME D			
POINT NO.	NORTHING	EASTING	ELEVATION
D1	1237350.55	202644.19	863.00
D2	1237341.39	2028636.42	863.00
D3	OMIT	OMIT	OMIT
D4	OMIT	OMIT	OMIT
D5	OMIT	OMIT	OMIT
D6	OMIT	OMIT	OMIT
D7	1237292.84	2028709.80	844.00
D8	1237282.08	2028701.57	844.00
D9	1237231.98	2028774.43	823.00
D10	1237222.82	2028766.66	823.00
D11	1237172.70	2028839.54	803.00
D12	1237163.52	2028831.80	803.00
D13	1237100.62	2028918.71	783.00
D14	1237091.58	2028910.81	783.00
D15	1237041.38	2028983.78	763.00
D16	1237032.30	2028975.92	763.00
D17	1237019.58	2029007.72	761.53
D18	1237010.74	2028999.61	761.64

CELL 1 AND CELL 2

FLUME D			
POINT NO.	NORTHING	EASTING	ELEVATION
D19	OMIT	OMIT	OMIT
D20	OMIT	OMIT	OMIT

FLUME E			
POINT NO.	NORTHING	EASTING	ELEVATION
E1	1237438.13	2028232.97	883.00
E2	1237445.41	2028223.43	883.00
E3	1237368.54	2028179.04	863.00
E4	1237375.82	2028169.50	863.00
E5	1237298.99	2028125.14	843.00
E6	1237306.26	2028115.59	843.00
E7	1237215.86	2028060.71	823.00
E8	1237223.12	2028051.16	823.00
E9	1237146.30	2028006.81	803.00
E10	1237153.56	2027997.25	803.00
E11	1237098.43	2027969.71	792.00
E12	1237105.80	2027960.24	792.00
E13	OMIT	OMIT	OMIT
E14	OMIT	OMIT	OMIT

FLUME F			
POINT NO.	NORTHING	EASTING	ELEVATION
F1	1237674.48	2027269.49	803.00
F2	1237678.91	2027280.52	803.00
F3	1237755.01	2027233.90	783.00
F4	1237759.49	2027245.04	783.00
F5	1237782.04	2027221.96	782.45
F6	1237786.70	2027233.02	782.45
F7	OMIT	OMIT	OMIT
F8	OMIT	OMIT	OMIT

FLUME G			
POINT NO.	NORTHING	EASTING	ELEVATION
G1	1237865.39	2027727.84	843.00
G2	1237872.30	2027737.70	843.00
G3	1237935.90	2027668.96	823.00
G4	1237942.96	2027678.70	823.00
G5	1238006.21	2027610.25	803.00
G6	1238013.49	2027619.80	803.00
G7	1238076.84	2027551.27	783.00
G8	1238084.24	2027560.72	783.00
G9	1238132.58	2027504.71	768.50
G10	1238140.12	2027514.06	768.50
G11	OMIT	OMIT	OMIT
G12	OMIT	OMIT	OMIT
G13	OMIT	OMIT	OMIT
G14	OMIT	OMIT	OMIT

FLUME H			
POINT NO.	NORTHING	EASTING	ELEVATION
H1	1238136.62	2027915.51	803.00
H2	1238141.19	2027926.61	803.00
H3	1238217.99	2027881.97	783.00
H4	1238222.54	2027893.07	783.00
H5	1238299.34	2027848.44	763.00
H6	1238303.90	2027859.54	763.00
H7	1238322.05	2027839.08	764.00
H8	1238326.42	2027850.25	764.00
H9	OMIT	OMIT	OMIT
H10	OMIT	OMIT	OMIT

FLUME J			
POINT NO.	NORTHING	EASTING	ELEVATION
J1	1238060.33	2028435.60	823.00
J2	1238057.35	2028447.22	823.00
J3	1238145.57	2028457.48	803.00
J4	1238142.59	2028469.10	803.00
J5	1238230.81	2028479.35	783.00
J6	1238227.83	2028490.98	783.00
J7	1238296.47	2028496.21	769.70
J8	1238291.96	2028507.44	770.25
J9	1238301.82	2028499.22	767.75
J10	1238295.74	2028509.57	768.85
J11	OMIT	OMIT	OMIT
J12	OMIT	OMIT	OMIT

FLUME K			
POINT NO.	NORTHING	EASTING	ELEVATION
K1	1237758.12	2028746.37	843.00
K2	1237748.71	2028751.99	843.00
K3	1237810.91	2028818.59	823.00
K4	1237800.22	2028824.27	823.00
K5	1237862.09	2028890.40	803.00
K6	1237851.55	2028896.29	803.00
K7	1237913.93	2028963.15	783.00
K8	1237903.24	2028968.83	783.00
K9	1237950.33	2029014.23	771.59
K10	1237941.21	2029022.11	770.71
K11	OMIT	OMIT	OMIT
K12	OMIT	OMIT	OMIT

FLUME K			
POINT NO.	NORTHING	EASTING	ELEVATION
K13	OMIT	OMIT	OMIT
K14	OMIT	OMIT	OMIT

FLUME L			
POINT NO.	NORTHING	EASTING	ELEVATION
L1	1237618.50	2029090.04	803.00
L2	1237609.61	2029098.15	803.00
L3	1237673.15	2029159.30	783.00
L4	1237664.27	2029167.42	783.00
L5	1237727.81	2029228.56	763.00
L6	1237718.92	2029236.68	763.00
L7	1237744.52	2029249.75	763.35
L8	1237735.88	2029258.17	763.22
L9	OMIT	OMIT	OMIT
L10	OMIT	OMIT	OMIT

FLUME M			
POINT NO.	NORTHING	EASTING	ELEVATION
M1	1237515.35	2029010.91	823.00
M2	1237502.99	2029006.90	823.00
M3	1237440.34	2029098.42	803.00
M4	1237431.30	2029090.52	803.00
M5	1237383.06	2029165.22	783.00
M6	1237374.02	2029157.33	783.00
M7	1237325.78	2029232.04	763.00
M8	1237316.74	2029224.14	763.00
M9	1237303.07	2029258.53	760.70
M10	1237294.08	2029250.57	760.70
M11	OMIT	OMIT	OMIT
M12	OMIT	OMIT	OMIT

FLUME N			
POINT NO.	NORTHING	EASTING	ELEVATION
N1	1236834.51	2028691.00	783.00
N2	1236825.52	2028683.05	783.00
N3	1236786.96	2028744.72	768.42
N4	1236778.10	2028736.62	768.51
N5	OMIT	OMIT	OMIT
N6	OMIT	OMIT	OMIT
N7	OMIT	OMIT	OMIT
N8	OMIT	OMIT	OMIT

FLUME P			
POINT NO.	NORTHING	EASTING	ELEVATION
P1	1237374.99	2028435.92	904.15
P2	1237373.40	2028422.04	904.15
P3	1237018.77	2028469.26	844.00
P4	1237016.37	2028455.39	844.00
P5	1236910.00	2028476.76	823.00
P6	1236908.16	2028462.86	823.00
P7	1236771.70	2028486.30	803.00
P8	1236771.84	2028472.26	803.00
P9	1236739.48	2028468.52	804.30
P10	1236736.81	2028474.68	804.39
P11	1236655.93	2028515.52	783.00
P12	1236653.97	2028501.45	783.00
P13	1236564.70	2028545.01	768.00
P14	1236562.82	2028530.90	768.70
P15	1237306.39	2028443.80	883.00
P16	1237304.80	2028429.92	883.00
P17	1237183.95	2028457.87	863.00
P18	1237183.19	2028443.89	863.00
P19	1237034.75	2028472.38	843.00
P20	1237034.87	2028454.12	843.00

FLUME Q			
POINT NO.	NORTHING	EASTING	ELEVATION
Q1	1236932.04	2028263.41	803.00
Q2	1236939.95	2028254.39	803.00
Q3	1236867.12	2028194.95	783.00
Q4	1236875.04	2028194.95	783.00
Q5	1236843.07	2028181.95	781.47
Q6	1236851.90	2028173.76	781.88
Q7	OMIT	OMIT	OMIT
Q8	OMIT	OMIT	OMIT

FLUME R			
POINT NO.	NORTHING	EASTING	ELEVATION
R1	1237557.09	2027656.32	843.00
R2	1237560.90	2027644.94	843.00
R3	1237474.23	2027626.23	823.00
R4	1237478.33	2027614.95	823.00
R5	1237375.42	2027590.34	803.00
R6	1237379.52	2027579.06	803.00
R7	1237322.68	2027571.18	793.90
R8	1237327.50	2027560.17	793.90

FLUME S			
POINT NO.	NORTHING	EASTING	ELEVATION
S1	1237486.00	2027160.26	803.00
S2	1237489.38	2027148.45	803.00
S3	1237421.73	2027156.18	796.65
S4	1237422.22	2027144.22	796.69
S5	OMIT	OMIT	OMIT
S6	OMIT	OMIT	OMIT

BENCH			
POINT NO.	NORTHING	EASTING	ELEVATION
HP1	1237795.40	2028010.99	883.79
HP2	1237808.67	2028354.33	883.91
HP3	1237802.50	2028378.35	883.74
HP4	1237497.14	2028630.17	884.00
HP5	1237361.54	2028327.32	883.61
HP6	1237557.76	2028058.27	884.00
HP7	1237846.39	2027903.42	864.00
HP8	1237895.82	2028368.62	863.92
HP9	1237889.65	2028392.67	863.97
HP10	1237585.35	2028761.49	864.00
HP11	1237203.86	2028519.21	863.91
HP12	1237264.40	2028306.37	863.82
HP13	1237519.86	2027948.28	864.00
HP14	1237754.63	2027646.42	843.69
HP15	1237961.50	2027952.32	844.00
HP16	1237983.00	2028382.93	844.00
HP17	1237976.82	2028407.00	844.00
HP18	1237837.56	2028704.79	843.44
HP19	1237511.00	2028891.60	844.00
HP20	1237151.81	2028591.04	843.85
HP21	1237149.80	2028279.58	844.00
HP22	1237448.59	2027895.25	844.00
HP23	1237584.28	2027611.80	843.20
HP24	1237756.84	2027540.38	824.00
HP25	1238042.37	2027917.49	824.00
HP26	1238092.47	2028310.39	823.68
HP27	1238086.02	2028335.54	823.66
HP28	1238028.05	2028561.28	823.59
HP29	1237912.30	2028764.70	823.57
HP30	1237551.88	2029012.27	824.00
HP31	1237527.22	2029013.01	823.18
HP32	1237294.71	2028829.11	824.00
HP33	1237065.65	2028633.39	824.00
HP34	1237032.46	2028282.40	824.00
HP35	1237430.00	2027691.80	824.00
HP36	1237515.12	2027499.68	823.61
HP37	1237632.61	2027165.28	803.56
HP38	1237812.93	2027472.45	804.00
HP39	1238075.89	2027767.22	803.80
HP40	1238190.33	2028046.47	803.65
HP41	1238182.14	2028315.01	803.69
HP42	1238175.81	2028339.68	803.67
HP43	1238112.42	2028586.66	803.61
HP44	1237987.72	2028824.02	803.71
HP45	1237729.95	2028988.30	803.76
HP46	1237554.19	2029138.45	803.40
HP47	1237529.60	2029143.09	803.59
HP48	1237198.24	2028887.10	804.00
HP49	1236964.24	2028662.77	804.00
HP50	1236845.68	2028361.78	803.66
HP51	1237024.22	2028155.42	803.65
HP52	1237279.43	2027801.94	804.00
HP53	1237464.44	2027206.79	804.00
HP54	1237508.33	2027120.59	803.17
HP55	1237892.74	2027420.96	784.00
HP56	1238152.01	2027720.91	783.87
HP57	1238280.67	2028034.81	783.78
HP58	1238271.81	2028319.62	783.67
HP59	1238265.47	2028344.29	783.68
HP60	1238196.75	2028612.03	783.62
HP61	1238061.25	2028880.33	783.85
HP62	1238196.76	2028612.03	783.62
HP63	1237556.34	2029256.12	783.77
HP64	1237531.76	2029261.00	783.94
HP65	1237237.73	2029038.38	783.90
HP66	1236965.43	2028802.02	783.83
HP67	1236731.47	2028603.62	783.64
HP68	1236744.35	2028343.83	783.93
HP69	1236957.39	2028098.15	783.63
HP70	1238228.10	2027674.73	763.94
HP71	1238372.47	2028026.76	763.91
HP72	1238357.23	2028340.76	763.75
HP73	1238351.02	2028364.97	764.00
HP74	1237558.49	2029373.78	764.00
HP75	1237533.91	2029378.90	764.00
HP76	1237179.46	2029104.33	763.91
HP77	1236906.15	2028867.13	763.83
HP78	1236651.86	2028651.50	763.78
HP79	1237206.71	2028498.51	863.23
HP80	1237452.44	2027682.45	823.30
HP81	1237483.03	2027190.06	803.15

CELL 3

FLUME A			
POINT NO.	NORTHING	EASTING	ELEVATION
A1	1238239.13	2025770.08	870.20
A2	1238251.01	2025772.49	870.20
A3	1238245.17	2025668.51	863.24
A4	1238256.82	2025673.73	863.49
A5	1238279.14	2025633.44	859.00
A6	1238282.14	2025647.59	859.00
A7	1238366.73	2025543.02	839.00
A8	1238370.38	2025556.50	839.00

FLUME B			
POINT NO.	NORTHING	EASTING	ELEVATION
B1	1238306.67	2025846.18	859.00
B2	1238306.57	2025858.30	859.00
B3	1238390.99	2025835.47	839.00
B4	1238394.96	2025847.06	839.00
B5	1238481.27	2025824.00	819.00
B6	1238482.74	2025835.91	819.00

FLUME C			
POINT NO.	NORTHING	EASTING	ELEVATION
C1	1238265.61	2025953.97	870.20
C2	1238265.17	2025968.34	870.20
C3	1238302.86	2025979.25	859.00
C4	1238302.14	2025993.27	859.00
C5	1238389.10	2026037.81	839.00
C6	1238388.59	2026051.96	839.00
C7	1238469.35	2026092.29	823.85
C8	1238460.65	2026100.90	826.60
C9	1238485.06	2026115.86	819.00
C10	1238478.63	2026128.34	819.00
C11	1238526.14	2026177.76	810.50
C12	1238515.37	2026183.27	809.50
C13	1238537.49	2026210.67	799.00
C14	1238525.72	2026213.31	799.00

FLUME D			
POINT NO.	NORTHING	EASTING	ELEVATION
D1	1238153.50	2026066.12	859.00
D2	1238142.34	2026070.51	859.00
D3	1238186.36	2026147.76	839.00
D4	1238175.20	2026152.15	839.00
D5	1238229.39	2026219.22	819.00
D6	1238208.05	2026233.79	819.00
D7	1238252.08	2026311.03	799.00
D8	1238240.91	2026315.42	799.00

FLUME E			
POINT NO.	NORTHING	EASTING	ELEVATION
E1	1238028.35	2026178.67	839.00
E2	1238016.54	2026176.59	839.00
E3	1238013.16	2026265.34	819.00
E4	1238001.34	2026263.27	819.00
E5	1237997.96	2026352.02	799.00
E6	1237986.14	2026349.95	799.00

FLUME F			
POINT NO.	NORTHING	EASTING	ELEVATION
F1	1238037.93	2026047.47	870.20
F2	1238033.49	2026036.29	870.20
F3	1237987.63	2026063.89	859.00
F4	1237988.26	2026050.64	859.00
F5	1237868.55	2026130.93	839.00
F6	1237870.60	2026115.91	839.00
F7	1237774.66	2026183.78	827.37
F8	1237766.91	2026174.19	825.26
F9	1237749.36	2026216.37	819.00
F10	1237741.15	2026207.37	819.00
F11	1237708.16	2026269.44	809.42
F12	1237696.86	2026264.43	810.41
F13	1237702.75	2026300.23	799.00
F14	1237690.93	2026298.15	799.00

FLUME G			
POINT NO.	NORTHING	EASTING	ELEVATION
G1	1238064.47	2025922.25	859.00
G2	1238073.25	2025913.34	859.00
G3	1237984.33	2025879.29	839.00
G4	1237989.95	2025868.68	839.00
G5	1237889.20	2025828.29	819.00
G6	1237894.83	2025817.69	819.00

FLUME H			
POINT NO.	NORTHING	EASTING	ELEVATION
H1	1238220.46	2025651.75	859.00
H2	1238225.21	2025639.81	859.00
H3	1238124.36	2025563.33	839.00
H4	1238124.70	2025546.99	839.00

FLUME J			
POINT NO.	NORTHING	EASTING	ELEVATION
J1	OMIT	OMIT	OMIT
J2	OMIT	OMIT	OMIT
J3	OMIT	OMIT	OMIT
J4	OMIT	OMIT	OMIT
J5	OMIT	OMIT	OMIT
J6	OMIT	OMIT	OMIT
J7	OMIT	OMIT	OMIT
J8	OMIT	OMIT	OMIT

FLUME K			
POINT NO.	NORTHING	EASTING	ELEVATION
K1	OMIT	OMIT	OMIT
K2	OMIT	OMIT	OMIT
K3	OMIT	OMIT	OMIT
K4	OMIT	OMIT	OMIT

BENCH			
POINT NO.	NORTHING	EASTING	ELEVATION
HP1	1238264.42	2025862.76	869.63
HP2	1238161.81	2026017.72	869.79
HP3	OMIT	OMIT	OMIT
HP4	1238181.03	2025736.12	859.67
HP5	1238250.93	2025617.01	859.18
HP6	OMIT	OMIT	OMIT
HP7	1238294.40	2025746.89	859.50
HP8	1238304.71	2025918.77	859.30
HP9	1238233.26	2026034.74	859.43
HP10	1238074.00	2026096.27	859.44
HP11	OMIT	OMIT	OMIT
HP12	1238017.25	2025982.58	859.38
HP13	1237914.14	2025991.05	839.67
HP14	1238113.18	2025616.87	839.91
HP15	1238007.73	2025599.71	819.79
HP16	1238243.74	2025519.76	839.64
HP17	1238374.90	2025680.72	839.79
HP18	1238392.03	2025942.44	839.48
HP19	1238293.34	2026105.68	839.57
HP20	1238083.17	2026187.22	839.43
HP21	OMIT	OMIT	OMIT
HP22	1237937.28	2026162.69	839.40
HP23	1238456.41	2025622.78	820.00
HP24	1238479.03	2025976.13	819.70
HP25	1238349.84	2026178.01	819.70
HP26	1238091.58	2026278.23	819.56
HP27	OMIT	OMIT	OMIT
HP28	1237875.24	2026241.15	819.64
HP29	1237814.28	2026018.32	820.00
HP30	1238565.42	2026029.89	800.00
HP31	1238387.66	2026257.70	799.74
HP32	1238100.92	2026369.42	799.69
HP33	OMIT	OMIT	OMIT
HP34	1237844.48	2026325.09	799.73
HP35	1237722.61	2026017.96	800.00

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 9/22/22

GEORGIA REGISTERED NO. 12887 PROFESSIONAL ENGINEER KENT H. MCDONALD 9/22/22

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO.1 THROUGH CELL 3
FLUME DATA SHEET

REVISION	DATE
0	09-23-2022

CCR LF PERMIT APPLICATION [BY HHNT, INC.]

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	H1C11152	1	FINAL	0

Acad2008 ANSI F: 40x28

NOTES:

1. SEE DRAWING H1C11124 FOR GENERAL NOTES AND LEGEND.
2. SEE DRAWING H1C11155 FOR DETAILS OF PIPES, TRENCHES AND BEDDING OF LEACHATE COLLECTION SYSTEM.
3. ALL 6" AND 10" DIAMETER PIPES ASSOCIATED WITH THE LEACHATE COLLECTION SYSTEM; I.E COLLECTION/LATERAL PIPES, HEADER PIPES, AND OUTFALL PIPES SHALL BE TYPE HDPE MAXIMUM RATED SDR-13.5. LATERAL AND HEADER PIPES SHALL BE PERFORATED. ALL CAPPED HEADER PIPE SHALL BE SOLID PIPE AND ALL OUTFALL PIPE SHALL BE DOUBLE CONTAINMENT PIPE AS NOTED IN THE DETAILS ON DRAWING H1C11155 AND IN THE SPECIFICATIONS. ALL LCRS PIPING SHOWN IS TO BE ASSEMBLED WITH FITTING TO FITTING CONNECTIONS.
4. PIPE WORKPOINT (W.P.) ELEVATIONS SHOWN ARE AT PIPE INVERTS.
5. GRADES SHOWN IN PLAN REPRESENT TOP OF 24" CLAY/SILT LAYER. LEACHATE TRENCH GRADES ARE NOT SHOWN AND ARE TO BE CONSTRUCTED PER TYPICAL DETAILS ON DRAWING H1C11155. NOTE THAT CELL BOTTOMS SHALL RECEIVE A 2 FOOT THICK SAND FILTER LAYER AND CELL SIDES SHALL RECEIVE A 1 FOOT THICK SAND FILTER LAYER UNDER A 1 FOOT THICK STONE COVER LAYER AS SHOWN IN DETAILS ON DRAWING H1C11155.

STATE PLANE

LEGEND:

- SOLID WALL PIPE IN TRENCH
- PERFORATED PIPE IN TRENCH
- EXISTING GROUND CONTOURS
- FINAL GRADE CONTOURS
- XXX.XX SPOT ELEVATIONS
- DOWNDRAINS
- TREELINE

REFERENCE DRAWINGS:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11125	CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11138	CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS, SH. 1
H1C11143	CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SH. 1
H1C11155	CELL NO. 3, LEACHATE COLLECTION SYSTEM AND DETAILS

CELL 1
COLLECTION BASINS
NO SCALE

CELL 1
LEACHATE COLLECTION SYSTEM
SCALE: 1" = 80'

SECTION THROUGH COLLECTION BASIN AT SLURRY LINE DISCHARGE
NO SCALE

GRAPHIC SCALE
80 0 40 80 160 320
(IN FEET)
1 inch = 80 ft.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
GENERAL SITE DEVELOPMENT
CELL NO. 1
LEACHATE COLLECTION SYSTEM LAYOUT

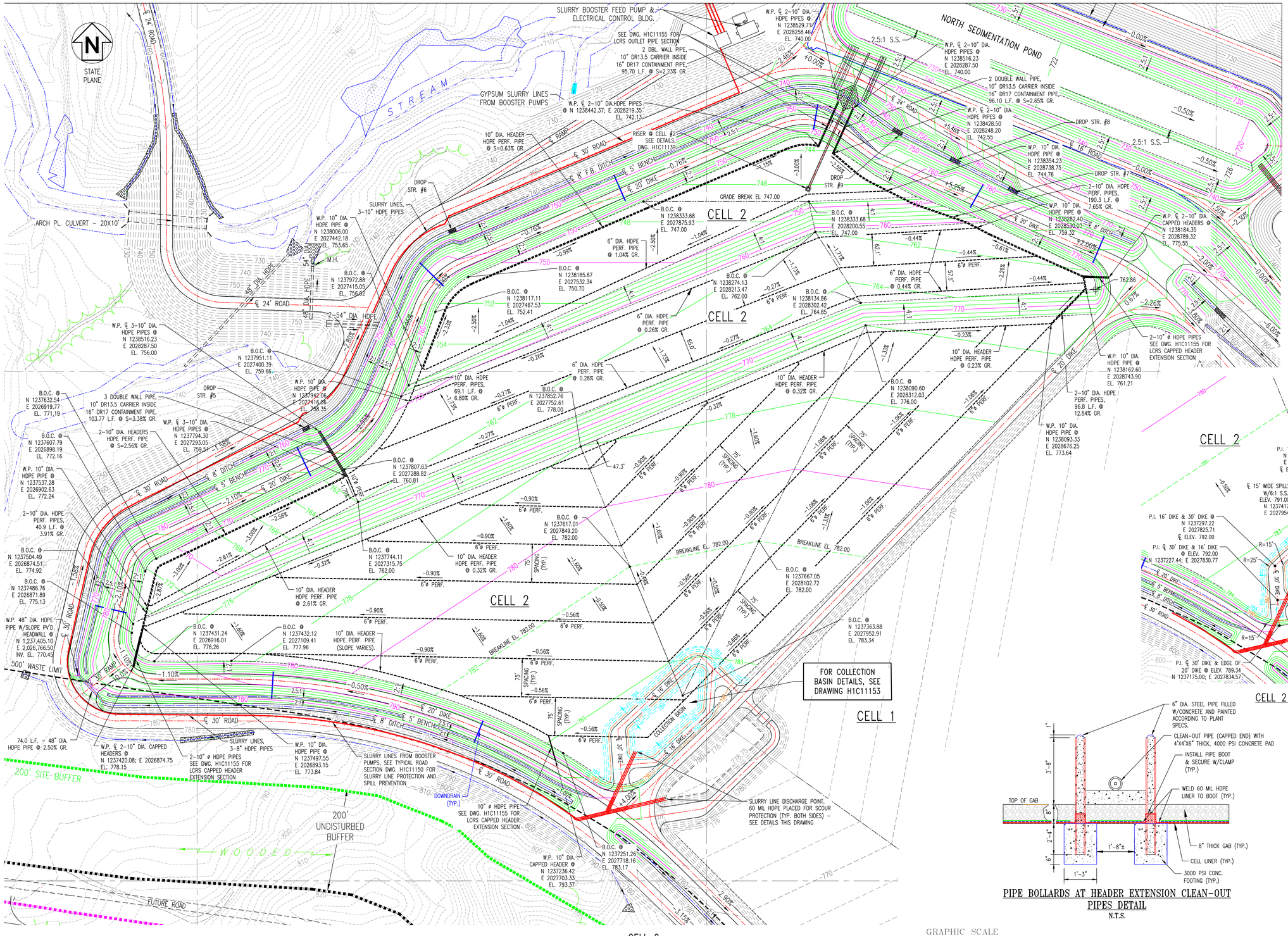
REVISION	DATE
0	09-23-2022

CCR LF PERMIT APPLICATION [BY HHNT, INC.]

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=80'	H1C11153	1	FINAL	0

Acad2008 ANSI F: 40x28



CELL 2
LEACHATE COLLECTION SYSTEM
SCALE: 1" = 80'

LEGEND:

- SOLID WALL PIPE IN TRENCH
- PERFORATED PIPE IN TRENCH
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- xxx.xx SPOT ELEVATIONS
- DOWNDRAINS
- TREELINE

NOTES:

1. SEE DRAWING H1C11124 FOR GENERAL NOTES AND LEGEND.
2. SEE DRAWING H1C11155 FOR DETAILS OF PIPES, TRENCHES AND BEDDING OF LEACHATE COLLECTION SYSTEM.
3. ALL 6" AND 10" DIAMETER PIPES ASSOCIATED WITH THE LEACHATE COLLECTION SYSTEM; I.E COLLECTION/LATERAL PIPES, HEADER PIPES, AND OUTFALL PIPES SHALL BE TYPE HDPE MAXIMUM RATED SDR-13.5. LATERAL AND HEADER PIPES SHALL BE PERFORATED. ALL CAPPED HEADER PIPE SHALL BE SOLID PIPE AND ALL OUTFALL PIPE SHALL BE DOUBLE CONTAINMENT PIPE AS NOTED IN DETAILS ON DRAWING H1C11155 AND IN THE SPECIFICATIONS. ALL LCRS PIPING SHOWN IS TO BE ASSEMBLED WITH FITTING-TO-FITTING CONNECTIONS.
4. PIPE WORKPOINT (W.P.) ELEVATIONS SHOWN ARE AT PIPE INVERTS.
5. GRADES SHOWN IN PLAN REPRESENT TOP OF 24" CLAY/SILT LAYER. LEACHATE TRENCH GRADES ARE NOT SHOWN AND ARE TO BE CONSTRUCTED PER THE TYPICAL DETAILS ON DRAWING H1C11155. NOTE THAT CELL BOTTOMS SHALL RECEIVE 2 FOOT THICK SAND FILTER LAYER AND CELL SIDES SHALL RECEIVE 1 FOOT THICK SAND FILTER LAYER UNDER A 1 FOOT THICK STONE COVER LAYER AS SHOWN IN DETAILS ON DRAWING H1C11155.

REFERENCE DRAWINGS:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11131	CELL NO. 2, SITE DEVELOPMENT, BASE GRADING PLAN
H1C11139	CELL 1 THROUGH CELL 3, MISCELLANEOUS SECTIONS, SHEET 2
H1C11140	CELL 1 THROUGH CELL 3, MISCELLANEOUS SECTIONS, SHEET 3
H1C11143	CELL 1 THROUGH CELL 3, MISCELLANEOUS DETAILS, SHEET 1
H1C11146	CELL 1 THROUGH CELL 3, MISCELLANEOUS SECTIONS & DETAILS, SH.1
H1C11147	CELL 1 THROUGH CELL 3, MISCELLANEOUS SECTIONS & DETAILS, SH.2
H1C11155	CELL NO. 3, LEACHATE COLLECTION SYSTEM LAYOUT AND DETAILS

CELL 2 COLLECTION BASINS DETAIL
NO SCALE

PIPE BOLLARDS AT HEADER EXTENSION CLEAN-OUT PIPES DETAIL
N.T.S.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens (Digitally signed by Keith Stevens Date: 2022.10.25 08:59:46 -04'00')

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27185 R. GRANT LANE 9/27/22

GEORGIA REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 1260 MARY M. MCPHERSON 9/26/22

GRAPHIC SCALE
80 0 40 80 160 320
(IN FEET)

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Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

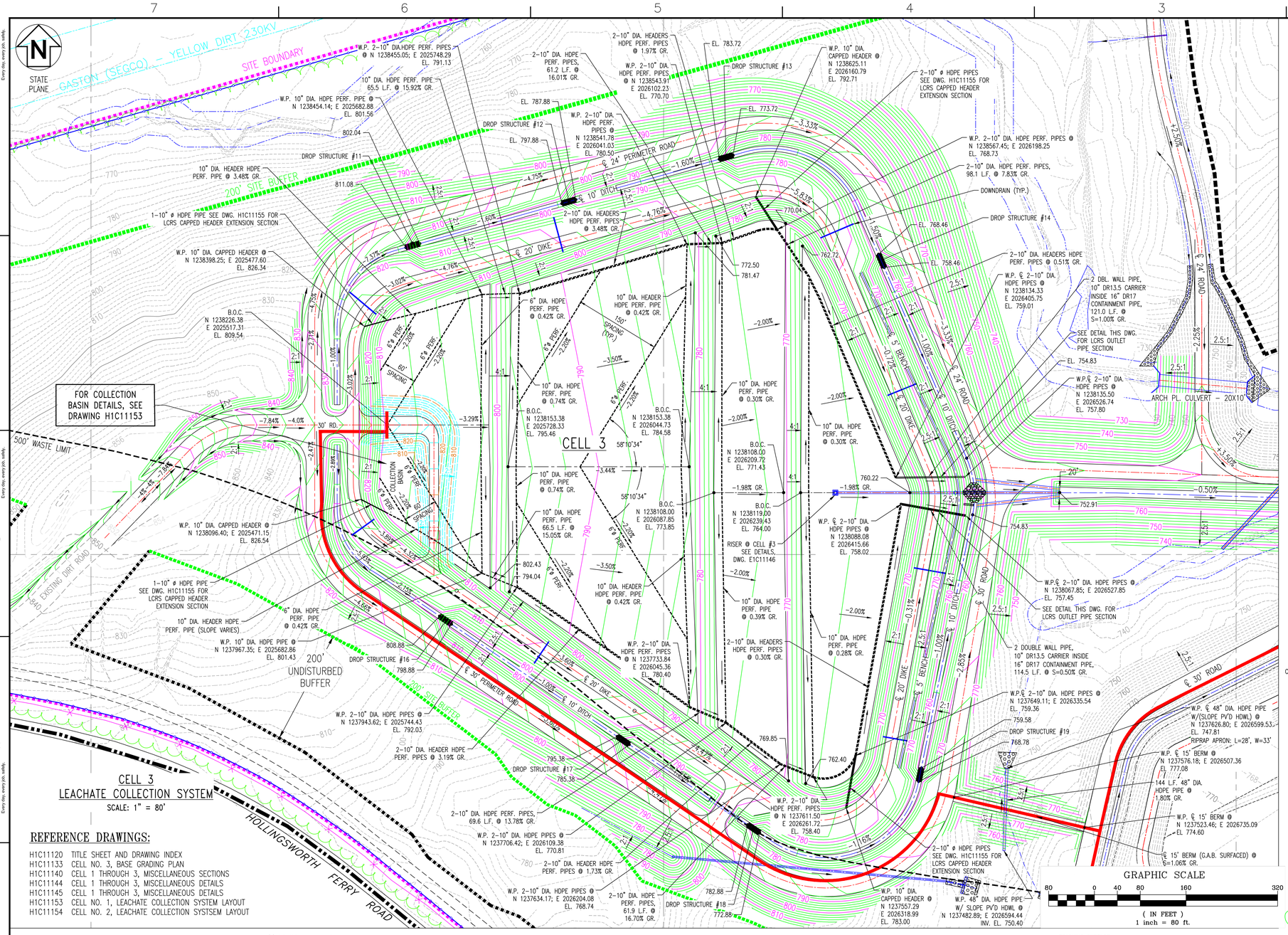
PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
GENERAL SITE DEVELOPMENT
CELL NO. 2
LEACHATE COLLECTION SYSTEM LAYOUT

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=80'	H1C11154	1	FINAL	0

Acad2008 ANSI F: 40x28

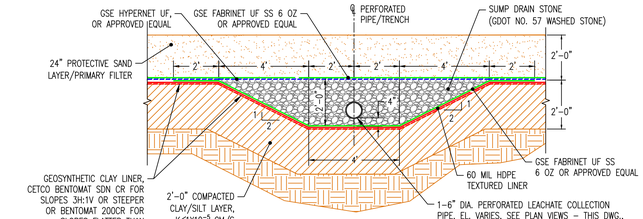


CELL 3
LEACHATE COLLECTION SYSTEM

SCALE: 1" = 80'

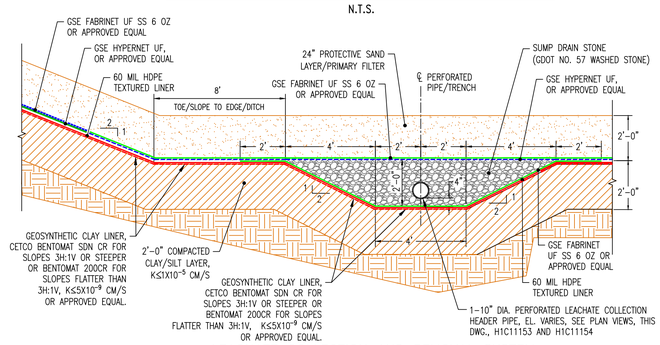
REFERENCE DRAWINGS:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11133	CELL NO. 3, BASE GRADING PLAN
H1C11140	CELL 1 THROUGH 3, MISCELLANEOUS SECTIONS
H1C11144	CELL 1 THROUGH 3, MISCELLANEOUS DETAILS
H1C11145	CELL 1 THROUGH 3, MISCELLANEOUS DETAILS
H1C11153	CELL NO. 1, LEACHATE COLLECTION SYSTEM LAYOUT
H1C11154	CELL NO. 2, LEACHATE COLLECTION SYSTSEM LAYOUT



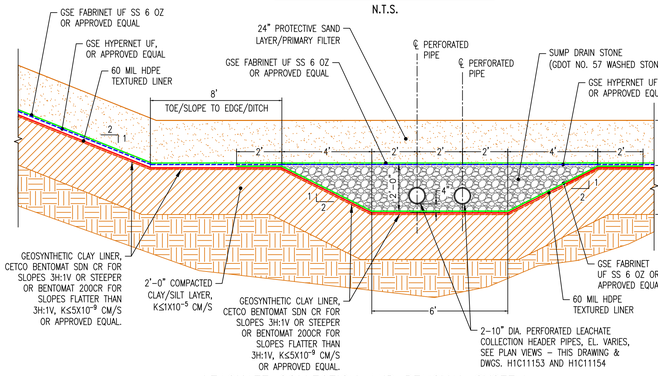
LEACHATE COLLECTION AND REMOVAL SYSTEM LATERAL

N.T.S.



LEACHATE COLLECTION AND REMOVAL SYSTEM
HEADER – SINGLE PIPE DETAIL

N.T.S.



LEACHATE COLLECTION AND REMOVAL SYSTEM
HEADER – DOUBLE PIPE DETAIL

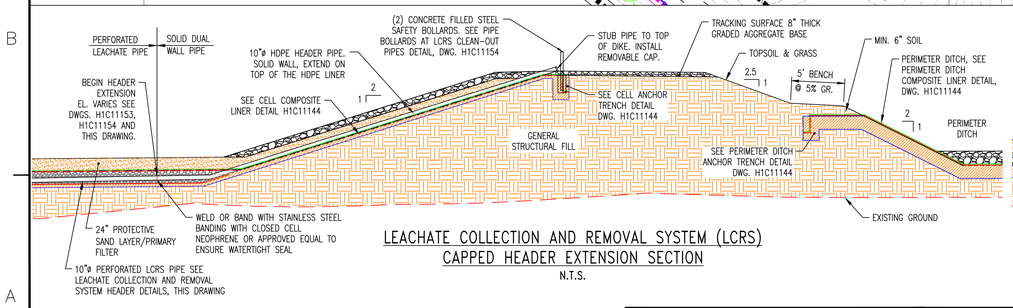
N.T.S.

LEGEND:

- SOLID WALL PIPE IN TRENCH
- PERFORATED PIPE IN TRENCH
- 700 EXISTING GROUND CONTOURS
- 700 FINAL GRADE CONTOURS
- XXX.XX SPOT ELEVATIONS
- DOWNDRAIN
- TREELINE

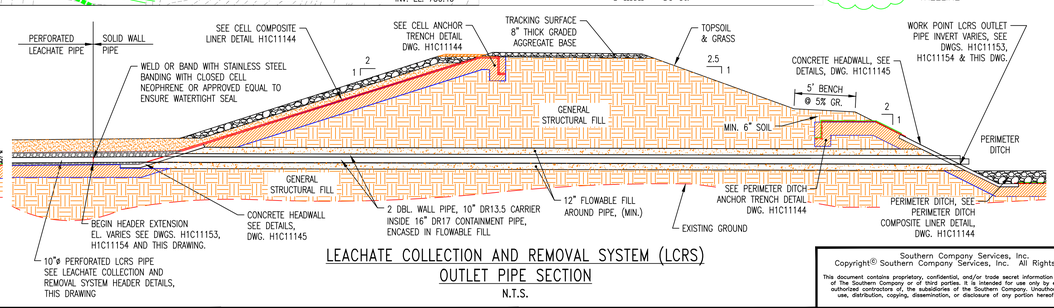
NOTES:

1. SEE DRAWING H1C11124 FOR GENERAL NOTES AND LEGEND.
2. ALL 6" AND 10" DIAMETER PIPES ASSOCIATED WITH THE LEACHATE COLLECTION SYSTEM; LE COLLECTION/LATERAL PIPES, HEADER PIPES, AND OUTFALL PIPES SHALL BE TYPE HDPE MAXIMUM RATED SDR–13.5. LATERAL AND HEADER PIPES SHALL BE PERFORATED. ALL CAPPED HEADER PIPE SHALL BE SOLID WALL AND ALL OUTFALL PIPE SHALL BE DOUBLE CONTAINMENT PIPE AS NOTED IN DETAILS ON THIS DRAWING AND IN THE SPECIFICATIONS. ALL LCRS PIPING SHOWN IS TO BE ASSEMBLED WITH FITTING–TO–FITTING CONNECTIONS.
3. PERFORATED PIPE SHALL HAVE AASHTO CLASS 1 PERFORATIONS – 3 ROWS OF PERFORATIONS REQ'D (TOTAL OF 6 PER FT OF PIPE). EACH PERFORATION SHALL BE 0.4" DIA. CIRCULAR AT 60 DEGREES OFF CENTERLINE OF BOTTOM OF PIPE.
4. PIPE WORKPOINT (W.P.) ELEVATIONS SHOWN ARE AT THE PIPE INVERTS.
5. GRADES SHOWN IN PLAN REPRESENT TOP OF 24" CLAY/SILT LAYER. LEACHATE TRENCH GRADES ARE NOT SHOWN AND ARE TO BE CONSTRUCTED PER TYPICAL DETAILS ON THIS DRAWING. NOTE THAT CELL BOTTOMS SHALL RECEIVE A 2 FOOT THICK SAND FILTER LAYER AS SHOWN IN DETAILS. CELL SIDES SHALL RECEIVE A 1 FOOT THICK SAND FILTER LAYER UNDER A 1 FOOT THICK STONE COVER LAYER AS SHOWN IN DETAILS.
6. THE SECTIONS SHOWN ON THIS DRAWING REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCHES, AND LEACHATE COLLECTION SYSTEM. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, INPLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION SPECIFICATIONS FOR PROOF–ROLLING CRITERIA FOR IN–PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.



LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS)
CAPPED HEADER EXTENSION SECTION

N.T.S.



LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS)
OUTLET PIPE SECTION

N.T.S.

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GEORGIA REGISTERED No. 27188 PROFESSIONAL ENGINEER R. BRANT LAKE 9/27/22

GEORGIA REGISTERED No. 13907 PROFESSIONAL ENGINEER MATT R. MCWHORTER 9/26/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

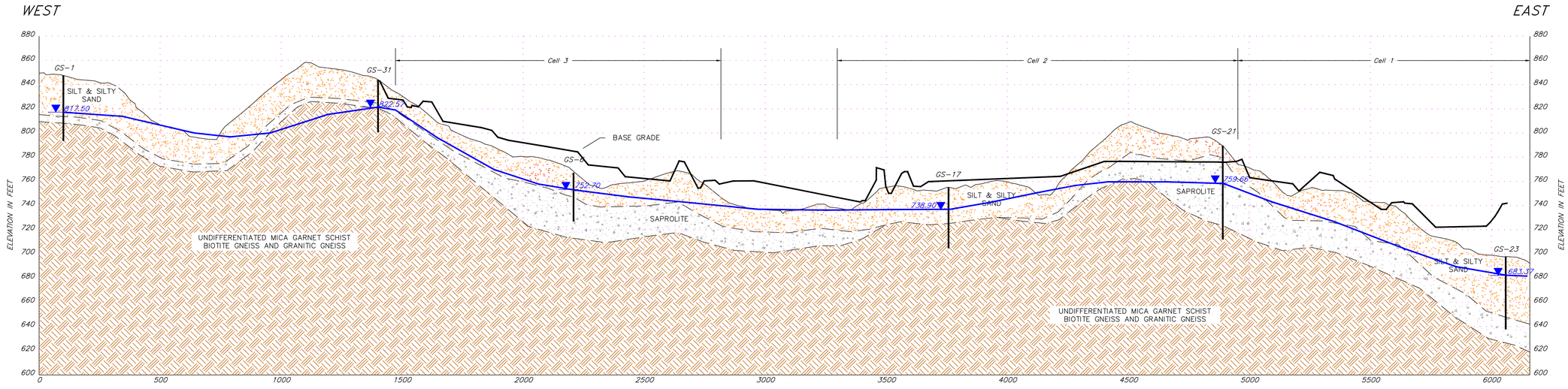
	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 0	ANR	RBL					

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
GENERAL SITE DEVELOPMENT
CELL NO. 3
LEACHATE COLLECTION SYSTEM LAYOUT & DETAILS

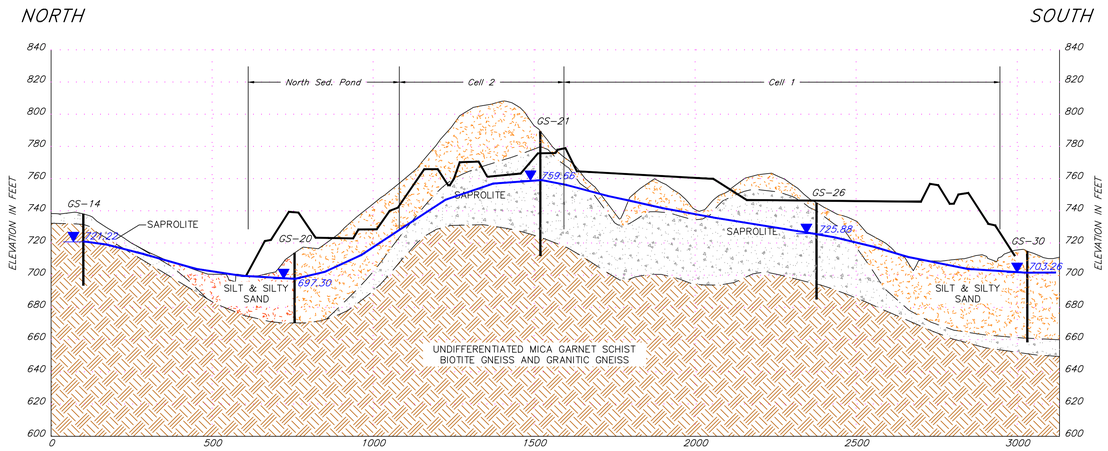
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AS NOTED	H1C11155	1	FINAL	0

Acad2008 ANSI F: 40x28



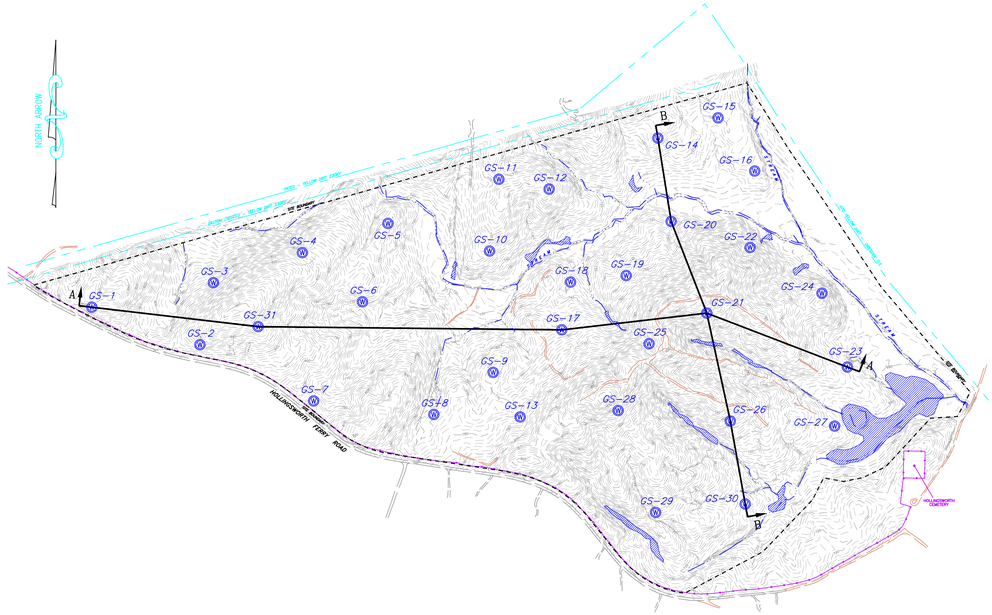
GEOLOGIC CROSS-SECTION A-A

SCALE H: 1"=200' V: 1"=40'



GEOLOGIC CROSS-SECTION B-B

SCALE H: 1"=200' V: 1"=40'



KEY PLAN

SCALE : 1"=500'

The information provided on this drawing was originally prepared by qualified groundwater scientists at Southern Company Generation Engineering and Construction Services in August 2009 in support of the Industrial Solid Waste Permit 074-005D(LI). The drawing was subsequently modified with final approval from EPD occurring in May 2012. All noted submittals were sealed by a professional engineer and professional geologist licensed in the state of Georgia. The information on this sheet is provided for reference only and has not been amended by Hodges, Harbin, Newberry and Tribble, Inc. or Bunnell Lammons Engineering, Inc.

ANDREW W. ALEXANDER — No.1485 — GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 9/27/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens Digitally signed by Keith Stevens Date: 2022.10.25 08:54:46 -04'00'

LEGEND:

- HIGH GROUNDWATER ELEVATION FROM NOVEMBER 17, 2006
- GS-1 — PIEZOMETER
- BASE GRADE

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FOR
Georgia Power Company

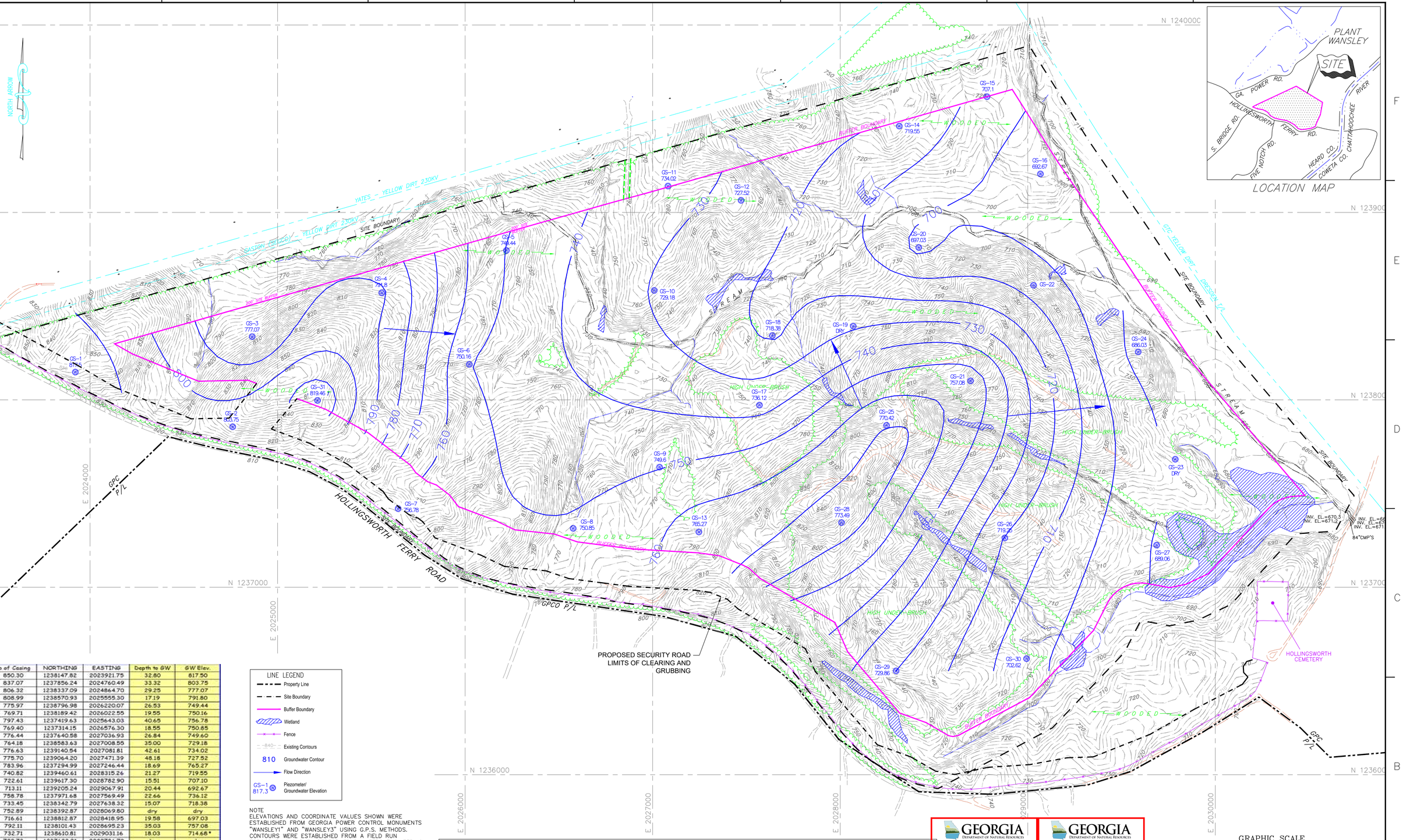
PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
GEOLOGIC CROSS SECTION A-A' AND B-B'

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	H1C11160	1	FINAL	0

ANSI F: 40x28 Acad2008



Well #	Top of Casing	NORTHING	EASTING	Depth to GW	GW Elev.
GS-1	850.30	1238147.82	2023921.75	32.80	817.50
GS-2	837.07	1237856.24	2024760.49	33.32	803.75
GS-3	806.32	1238337.09	2024864.70	29.25	777.07
GS-4	808.99	1238570.93	2025555.30	17.19	791.80
GS-5	775.97	1238796.98	2026220.07	26.53	749.44
GS-6	769.71	1238189.42	2026022.55	19.55	750.16
GS-7	797.43	1237419.63	2025643.03	40.65	756.78
GS-8	769.40	1237314.15	2026576.30	18.55	750.85
GS-9	776.44	1237640.58	2027036.93	26.84	749.60
GS-10	764.18	1238583.63	2027008.55	35.00	729.18
GS-11	776.63	1239140.54	2027081.81	42.61	734.02
GS-12	775.70	1239064.20	2027471.39	48.18	727.52
GS-13	783.96	1237294.99	2027246.44	18.69	765.27
GS-14	740.82	1239460.61	2028315.26	21.27	719.55
GS-15	722.61	1239617.30	2028782.90	15.51	707.10
GS-16	713.11	1239205.24	2029067.91	20.44	692.67
GS-17	758.78	1237971.68	2027569.49	22.66	736.12
GS-18	733.45	1238342.79	2027638.32	15.07	718.38
GS-19	752.89	1238392.87	2028069.80	dry	dry
GS-20	716.61	1238812.87	2028418.95	19.58	697.03
GS-21	792.11	1238101.43	2028695.23	35.03	757.08
GS-22	732.71	1238610.81	2029031.16	18.03	714.68*
GS-23	700.73	1237682.91	2029786.70	dry	dry
GS-24	728.21	1238255.48	2029589.09	42.18	686.03
GS-25	788.47	1237863.92	2028247.05	18.05	770.42
GS-26	748.14	1237263.35	2028877.97	28.89	719.25
GS-27	702.67	1237224.47	2029687.47	13.61	689.06
GS-28	816.37	1237344.85	2028006.96	42.88	773.49
GS-29	749.67	1236553.98	2028298.21	19.81	729.86
GS-30	717.54	1236619.15	2028993.81	14.92	702.62

* ERRONEOUS READING – NOT USED ON PREPARATION ON MAP.

LINE LEGEND
- Property Line
- Site Boundary
- Buffer Boundary
- Wetland
- Fence
- Existing Contours (840)
- Groundwater Contour (810)
- Flow Direction
- GS-1 817.3 — Piezometer/ Groundwater Elevation

NOTE
ELEVATIONS AND COORDINATE VALUES SHOWN WERE ESTABLISHED FROM GEORGIA POWER CONTROL MONUMENTS "WANSLEY1" AND "WANSLEY3" USING G.P.S. METHODS. CONTOURS WERE ESTABLISHED FROM A FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY METRO ENGINEERING & SURVEY COMPANY INC. BETWEEN THE DATES OF JUNE 8, 2006 AND SEPT. 29, 2006.

The information provided on this drawing was originally prepared by qualified groundwater scientists at Southern Company Generation Engineering and Construction Services in August 2009 in support of the Industrial Solid Waste Permit 074-0050(LI). The drawing was subsequently modified with final approval from EPD occurring in May 2012. All noted submittals were sealed by a professional engineer and professional geologist licensed in the state of Georgia. The information on this sheet is provided for reference only and has not been amended by Hodges, Harbin, Newberry and Tribble, Inc. or Bunnell Lammons Engineering, Inc.

Andrew W. Alexander — No. 1485 — Certified Professional Geologist

Georgia — No. 27185 — Professional — Engineer — R. Brant Lane — 9/27/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Beverly Tipton — Digitally signed by Beverly Tipton, Date: 2022.10.20 14:15:08 -04'00'

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens — Digitally signed by Keith Stevens, Date: 2022.10.21 08:54:06 -04'00'

GRAPHIC SCALE
200 0 100 200 400 800
(IN FEET)
1 inch = 200 ft.

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Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

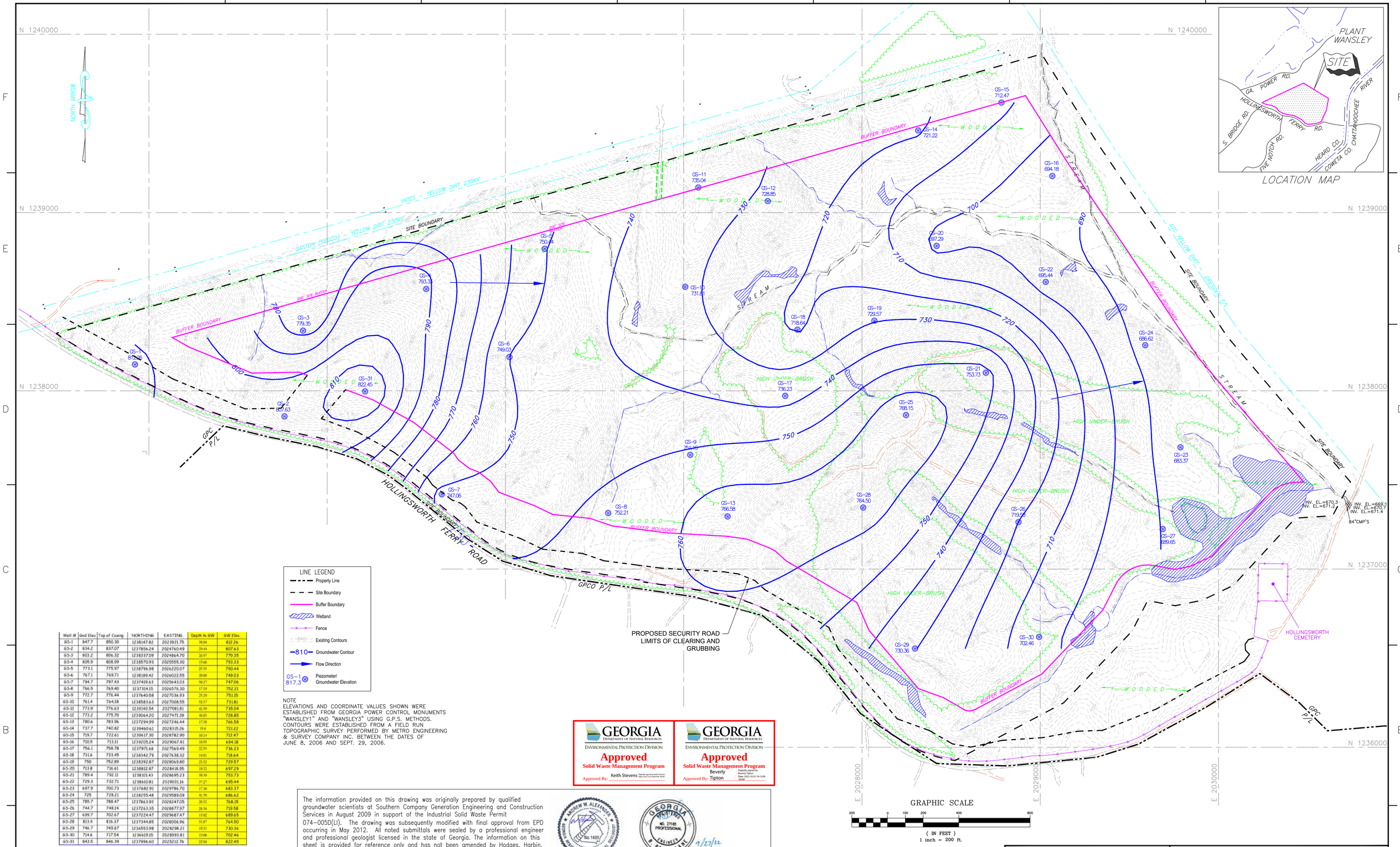
PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
POTENTIOMETRIC SURFACE MAP 11/17/2006

REVISION	DATE
0	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	H1C11161	1	FINAL	0

ANSI F: 40x28 Acad2008



LOCATION MAP

LINE LEGEND

- Property Line
- Site Boundary
- Buffer Boundary
- Wetland
- Fence
- Existing Contours
- Groundwater Contour
- Flow Direction
- GS-1 817.3 — Piezometer/ Groundwater Elevation

Well #	Gnd Elev	Top of Casing	NORTHING	EASTING	Depth to GW	GW Elev.
GS-1	847.7	850.30	1238147.82	2023921.75	38.04	812.26
GS-2	834.2	837.07	1237856.24	2024760.49	29.44	807.63
GS-3	803.2	806.32	1238337.09	2024864.70	26.97	779.35
GS-4	805.9	808.99	1238570.93	2025555.30	15.86	793.33
GS-5	773.1	775.97	1238796.98	2026220.07	25.53	750.44
GS-6	767.1	769.71	1238189.42	2026022.55	20.68	749.03
GS-7	794.7	797.43	1237419.63	2025643.03	50.37	747.06
GS-8	766.5	769.40	1237314.15	2026576.30	17.19	752.21
GS-9	772.7	776.44	1237640.58	2027036.93	21.29	751.15
GS-10	761.4	764.18	1238583.63	2027008.55	32.37	731.81
GS-11	773.9	776.63	1239140.54	2027081.81	41.79	735.04
GS-12	773.2	775.70	1239064.20	2027471.39	44.85	728.85
GS-13	780.6	783.96	1237294.99	2027246.44	17.38	766.58
GS-14	737.7	740.82	1239460.61	2028315.26	19.6	721.22
GS-15	719.7	722.61	1239617.30	2028782.90	10.14	712.47
GS-16	710.5	713.11	1239205.24	2029067.91	16.93	694.18
GS-17	756.1	758.78	1237971.68	2027569.49	22.55	736.23
GS-18	731.6	733.45	1238342.79	2027638.32	14.81	718.64
GS-19	750	752.89	1238392.87	2028069.80	23.32	729.57
GS-20	713.8	716.61	1238812.87	2028418.95	19.32	697.29
GS-21	789.4	792.11	1238101.43	2028695.23	38.38	753.73
GS-22	729.3	732.71	1238610.81	2029031.16	37.27	695.44
GS-23	697.9	700.73	1237682.91	2029786.70	17.36	683.37
GS-24	725	728.21	1238255.48	2029589.09	41.59	686.62
GS-25	785.7	788.47	1237863.92	2028247.05	26.52	768.15
GS-26	744.7	748.14	1237263.35	2028877.97	28.96	719.58
GS-27	699.7	702.67	1237224.47	2029687.47	13.02	689.65
GS-28	813.4	816.37	1237344.85	2028006.96	51.87	764.50
GS-29	746.7	749.67	1236553.98	2028298.21	19.31	730.36
GS-30	714.6	717.54	1236419.15	2028993.81	11.88	702.46
GS-31	843.5	846.39	1237996.60	2025212.76	23.94	822.45

NOTE
ELEVATIONS AND COORDINATE VALUES SHOWN WERE ESTABLISHED FROM GEORGIA POWER CONTROL MONUMENTS "WANSLEY1" AND "WANSLEY3" USING G.P.S. METHODS. CONTOURS WERE ESTABLISHED FROM A FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY METRO ENGINEERING & SURVEY COMPANY INC. BETWEEN THE DATES OF JUNE 8, 2006 AND SEPT. 29, 2006.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens (Digitally signed by Keith Stevens, Date: 2022.10.25 08:53:46 -04'00')

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Beverly Tipton (Digitally signed by Beverly Tipton, Date: 2022.10.25 14:15:08 -04'00')

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ANDREW W. ALEXANDER — No. 1405 — GEORGIA REGISTERED PROFESSIONAL GEOLOGIST — 9/27/22

GEORGIA REGISTERED — NO. 27185 PROFESSIONAL ENGINEER — W. BRANT LANE — 9/27/22

GRAPHIC SCALE
200 0 100 200 400 800
(IN FEET)
1 inch = 200 ft.

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Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
POTENTIOMETRIC SURFACE MAP 04/10/2009

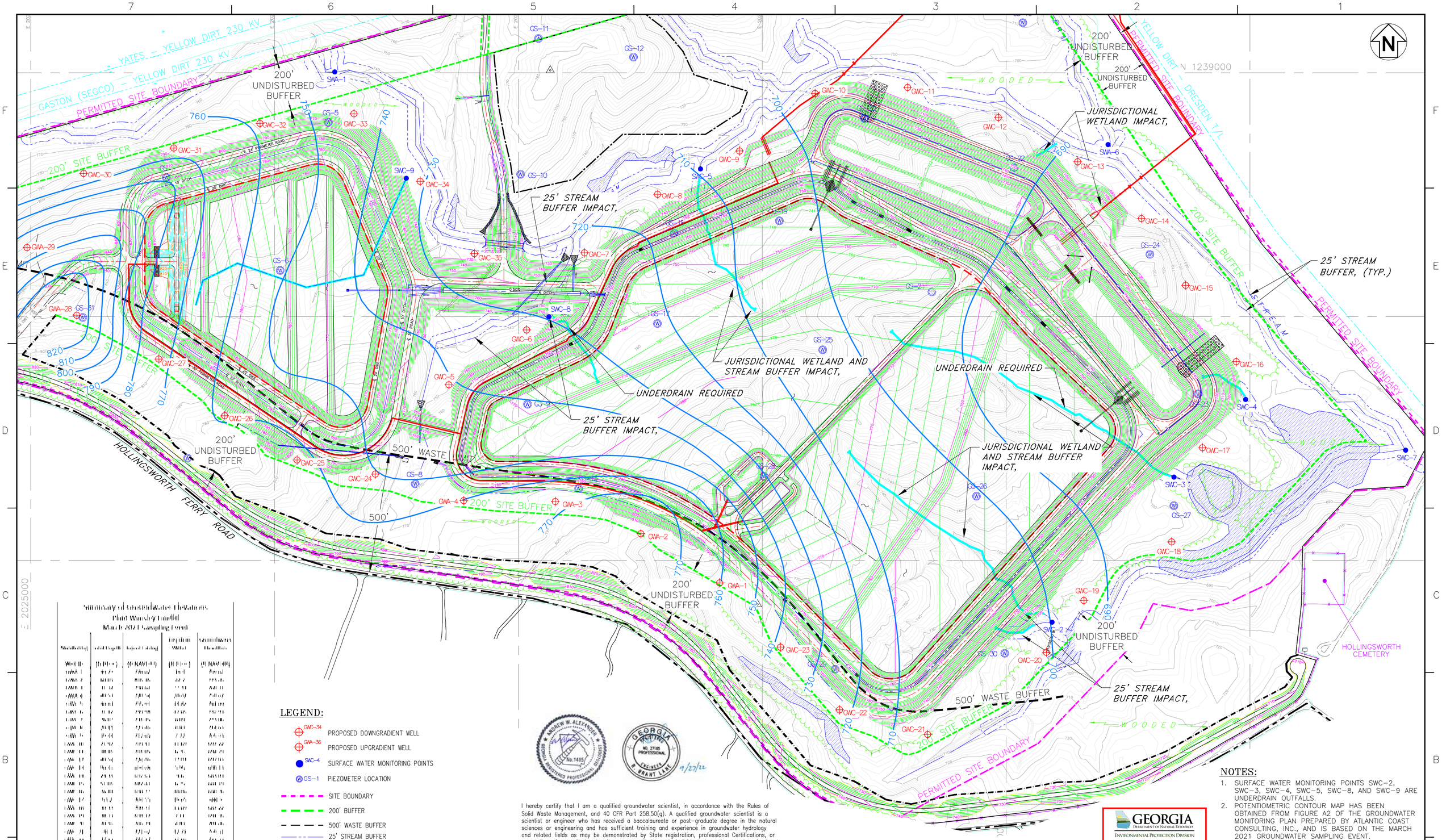
REVISION	DATE
0	09–23–2022

CCR LF PERMIT APPLICATION [BY HHNT, INC.]

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	H1C11163	1	FINAL	0

ANSI F: 40x28 Acad2008



Summary of Groundwater Elevations
Plant Wansley Landfill
March 2021 Sampling Event

Monitoring Well	Total Depth (ft Below Grade)	Top of Casing Elevation (ft NAVD88)	Depth to Water (ft Below Grade)	Groundwater Elevation (ft NAVD88)
GWA-1	40.00	769.60	29.12	740.48
GWA-2	60.00	809.10	48.78	760.32
GWA-3	41.00	788.60	28.43	760.17
GWA-4	40.00	809.10	48.62	760.48
GWA-28	40.00	820.00	59.51	760.49
GWA-29	40.00	820.00	59.52	760.48
GWC-2	40.00	769.60	29.12	740.48
GWC-3	60.00	809.10	48.78	760.32
GWC-4	41.00	788.60	28.43	760.17
GWC-5	40.00	809.10	48.62	760.48
GWC-6	40.00	820.00	59.51	760.49
GWC-7	40.00	820.00	59.52	760.48
GWC-8	40.00	769.60	29.12	740.48
GWC-9	60.00	809.10	48.78	760.32
GWC-10	41.00	788.60	28.43	760.17
GWC-11	40.00	809.10	48.62	760.48
GWC-12	40.00	820.00	59.51	760.49
GWC-13	40.00	820.00	59.52	760.48
GWC-14	40.00	769.60	29.12	740.48
GWC-15	60.00	809.10	48.78	760.32
GWC-16	41.00	788.60	28.43	760.17
GWC-17	40.00	809.10	48.62	760.48
GWC-18	40.00	820.00	59.51	760.49
GWC-19	40.00	820.00	59.52	760.48
GWC-20	40.00	769.60	29.12	740.48
GWC-21	60.00	809.10	48.78	760.32
GWC-22	41.00	788.60	28.43	760.17
GWC-23	40.00	809.10	48.62	760.48
GWC-24	40.00	820.00	59.51	760.49
GWC-25	40.00	820.00	59.52	760.48
GWC-26	40.00	769.60	29.12	740.48
GWC-27	60.00	809.10	48.78	760.32
GWC-28	41.00	788.60	28.43	760.17
GWC-29	40.00	809.10	48.62	760.48
GWC-30	40.00	820.00	59.51	760.49
GWC-31	40.00	820.00	59.52	760.48
GWC-32	40.00	769.60	29.12	740.48
GWC-33	60.00	809.10	48.78	760.32
GWC-34	41.00	788.60	28.43	760.17
GWC-35	40.00	809.10	48.62	760.48

Notes:
1. Elevations based on North American Vertical Datum of 1988 (NAVD88).
2. ft BGS = feet Below ground surface.

LEGEND:

- GWC-34 — PROPOSED DOWNGRADIENT WELL
- GWA-36 — PROPOSED UPGRADIENT WELL
- SWC-4 — SURFACE WATER MONITORING POINTS
- GS-1 — PIEZOMETER LOCATION
- SITE BOUNDARY
- 200' BUFFER
- 500' WASTE BUFFER
- 25' STREAM BUFFER
- LIMITS OF CLEARING
- EXCAVATION LAYOUT CONTROL
- WETLANDS
- 50 — EXISTING GROUND CONTOURS
- 50 — FINAL GRADE CONTOURS
- LIMITS OF WASTE
- UNDERDRAIN
- GROUNDWATER ELEVATION CONTOUR

I hereby certify that I am a qualified groundwater scientist, in accordance with the Rules of Solid Waste Management, and 40 CFR Part 258.50(g). A qualified groundwater scientist is a scientist or engineer who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields as may be demonstrated by State registration, professional Certifications, or completion of accredited university programs that enable individuals to make sound professional judgements regarding groundwater monitoring, contaminant fate and transport, and corrective action. I hereby certify that the design of this groundwater monitoring system was developed in accordance with the Rules of Solid Waste Management, Chapter 391-3-4.

Signature: A. W. Alexander

Date: 2022-09-23

ANDREW W. ALEXANDER — No.1485 — REGISTERED PROFESSIONAL GEOLOGIST

GEORGIA — NO. 27185 — PROFESSIONAL ENGINEER — R. BRANT LANE — 9/27/22

GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)
1 inch = 150 ft.

NOTES:

1. SURFACE WATER MONITORING POINTS SWC-2, SWC-3, SWC-4, SWC-5, SWC-8, AND SWC-9 ARE UNDERDRAIN OUTFALLS.
2. POTENTIOMETRIC CONTOUR MAP HAS BEEN OBTAINED FROM FIGURE A2 OF THE GROUNDWATER MONITORING PLAN PREPARED BY ATLANTIC COAST CONSULTING, INC., AND IS BASED ON THE MARCH 2021 GROUNDWATER SAMPLING EVENT.

REFERENCES:

1. FOR A COMPLETE DRAWING LIST SEE H1C11120

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Beverly Tipton
Digitally signed by Beverly Tipton
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REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
0	09-23-2022	ANR	RBL					

CCR LF PERMIT APPLICATION [BY HHNT, INC.]

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
COMPLIANCE NETWORK

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	**H1C11165**	1	FINAL	0

ANSI F: 40x28 Acad2008