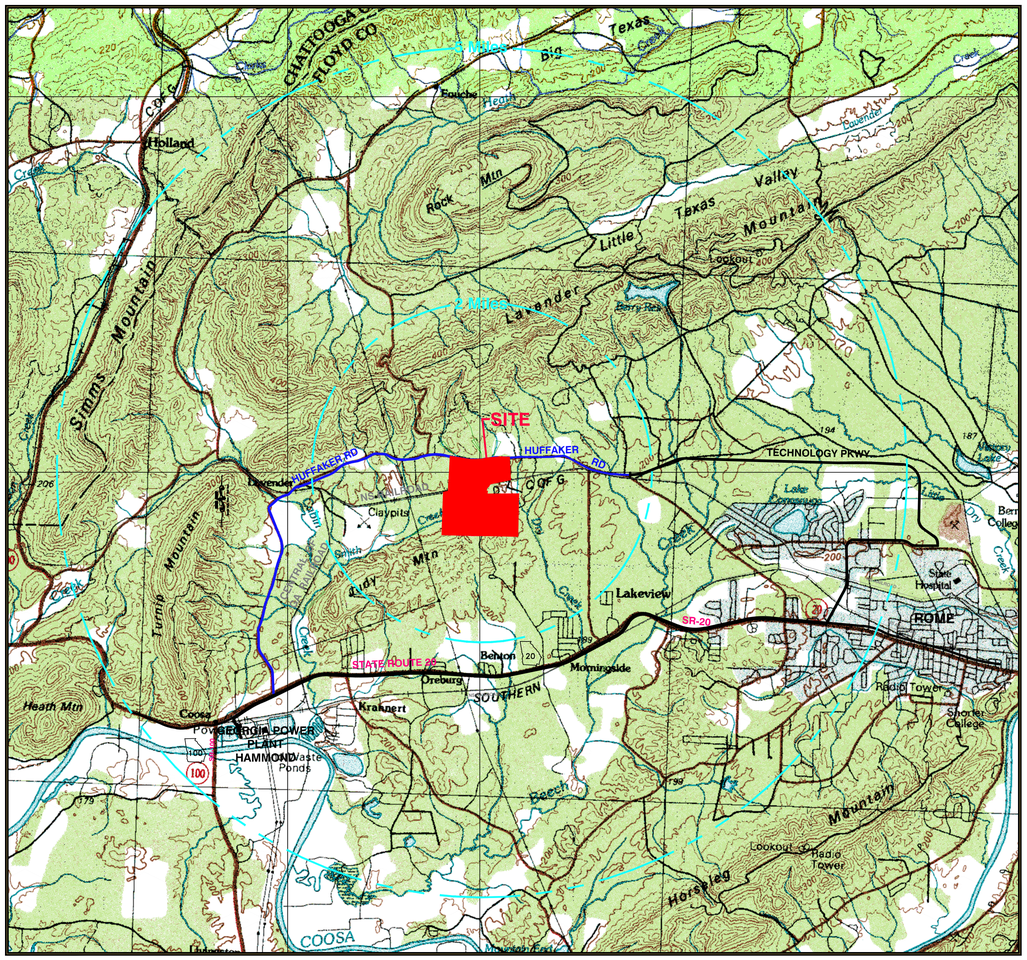
GEORGIA POWER COMPANY

PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION RESIDUALS (CCR) DISPOSAL FACILITY

ROME, FLOYD COUNTY, GEORGIA 30165
PERMIT DRAWINGS

DRAWING INDEX

SH#	REV#	TITLE	HISTORIC DWG#
1	0	COVER DRAWING	H9130
2	0	SITE OVERVIEW PLAN	H9131
3	0	PARCELS A&B SITE DEVELOPMENT PLAN	H9134
4	0	PARCELS A&B FINAL GRADE PLAN	H9136
5	0	PARCELS A&B STORMWATER MANAGEMENT PLAN	H9142
6	0	PARCELS A&B CROSS SECTIONS	H9145-H9146
7	0	PARCELS A&B DETAILS	H11522
8	0	PARCELS A&B DETAILS	H11523
9	0	PARCELS A&B DETAILS	H11524-H9152
10	0	PARCELS A&B DETAILS	H11525
11	0	PARCELS A&B DETAILS	H11526
12	0	PARCELS A&B DETAILS	H11527
13	0	PARCELS A&B DETAILS	-
14	0	PARCELS A&B DETAILS	H9155
15	0	PARCELS A&B DETAILS	H9154
16	0	PARCELS A&B DETAILS	H9156
17	0	PARCELS C&D EXISTING CONDITIONS PLAN	S1800
18	0	PARCELS C&D SUBGRADE PLAN	S1801
19	0	PARCELS C&D TOP OF COMPACTED CLAY LAYER PLAN	S1802
20	0	PARCELS C&D LEACHATE COLLECTION PIPE PLAN	S1803
21	0	PARCELS C&D TOP OF LEACHATE COLLECTION LAYER PLAN	S1804
22	0	PARCELS C&D TOP OF WASTE PLAN	S1805
23	0	PARCELS C&D FINAL GRADE PLAN	S1807
24	0	PARCELS C&D EROSION AND SEDIMENT CONTROL PLAN	-
25	0	PARCELS C&D STORMWATER MANAGEMENT PLAN	-
26	0	PARCELS C&D CROSS SECTIONS	S1808
27	0	PARCELS C&D CROSS SECTIONS	S1809
28	0	PARCELS C&D DETAILS	S1810
29	0	PARCELS C&D DETAILS	S1811
30	0	PARCELS C&D DETAILS	S1812
31	0	PARCELS C&D DETAILS	S1813
32	0	PARCELS C&D DETAILS	S1814
33	0	PARCELS C&D DETAILS	S1815
34	0	PARCELS C&D DETAILS	S1816-H9152
35	0	PARCELS C&D DETAILS	H9155
36	0	PARCELS C&D DETAILS	H9154
37	0	PARCELS C&D DETAILS	H9156
38	0	PARCEL E SITE DEVELOPMENT PLAN	H9140
39	0	PARCEL E FINAL GRADE PLAN	H9141
40	0	PARCEL E STORMWATER MANAGEMENT PLAN	H9144
41	0	PARCEL E CROSS SECTIONS	H9151
42	0	PARCEL E DETAILS	-
43	0	PARCEL E DETAILS	-
44	0	PARCEL E DETAILS	-
45	0	PARCEL E DETAILS	H9155-H9152
46	0	PARCEL E DETAILS	H9154
47	0	PARCEL E DETAILS	H9156
48	0	PARCEL F EXISTING CONDITIONS PLAN	-
49	0	PARCEL F SUBGRADE PLAN	-
50	0	PARCEL F TOP OF COMPACTED CLAY LAYER & LEACHATE COLLECTION PIPE PLAN	-
51	0	PARCEL F TOP OF LEACHATE COLLECTION LAYER PLAN	-
52	0	PARCEL F TOP OF WASTE PLAN	-
53	0	PARCEL F FINAL GRADE PLAN	-
54	0	PARCEL F EROSION AND SEDIMENT CONTROL PLAN	-
55	0	PARCEL F STORMWATER MANAGEMENT PLAN	-
56	0	PARCEL F CROSS SECTIONS	-
57	0	PARCEL F CROSS SECTIONS	-
58	0	PARCEL F SEDIMENT BASIN AND CLEAR POOL 4 PLAN & PROFILE	-
59	0	PARCEL F SEDIMENT BASIN AND CLEAR POOL 5 PLAN & PROFILE	-
60	0	PARCEL F DETAILS	-
61	0	PARCEL F DETAILS	-
62	0	PARCEL F DETAILS	-
63	0	PARCEL F DETAILS	-
64	0	PARCEL F DETAILS	-
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68	0	PARCEL F DETAILS	-
69	0	PARCEL F DETAILS	-
70	0	PARCEL F DETAILS	-
71	0	PARCEL F DETAILS	H9152
72	0	PARCEL F DETAILS	H9154
73	0	PARCEL F DETAILS	H9156
74	0	GRADING, SITE DEVELOPMENT AND GENERAL NOTES	H9157
75	0	GRADING, SITE DEVELOPMENT AND GENERAL NOTES	-
76	0	FLOOD ZONE MAP	H9132
77	0	GROUNDWATER MONITORING NETWORK PLAN	A-1
78	0	GEOLOGICAL CROSS-SECTION A-A'	H9161
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80	0	GEOLOGICAL CROSS-SECTION C-C'	-
81	0	LEGAL DESCRIPTION OF SITE BOUNDARY	H9168
82	0	PROPERTY PLAT AND CLOSURE STATEMENT	H-628-10



SITE LOCATION MAP
SCALE: 1" = 4,000'

CONTACT INFORMATION

RESPONSIBLE OFFICIAL
MANAGER
GEORGIA POWER ENVIRONMENTAL AFFAIRS
241 RALPH MCGILL BLVD NE
ATLANTA, GEORGIA 30308
(404) 506-6505

PROPERTY OWNER
GEORGIA POWER COMPANY
241 RALPH MCGILL BLVD.
ATLANTA, GEORGIA 30308

CONSULTANT
STANTEC CONSULTING SERVICES INC.
WAREHOUSE ROW NORTH 1110 MARKET STREET, SUITE 214A
CHATTANOOGA, TN 37402
(423) 800-5350
(423) 800-5351

GEORGIA REGISTERED No. PE024858 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

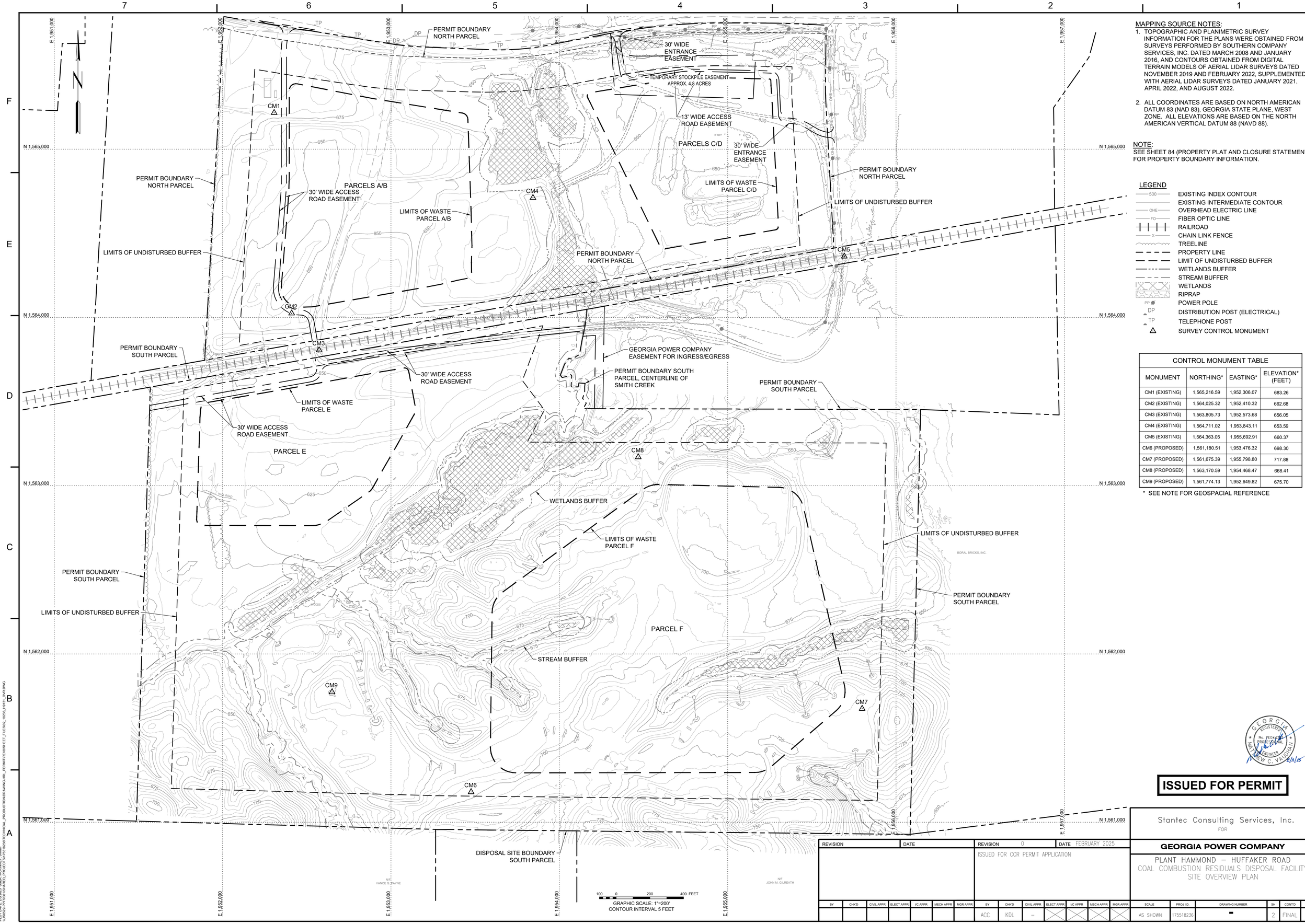
BY	CHK'D	CIVIL APPR.	ELECT APPR.	I/C APPR.	MECH APPR.	MGR APPR.
JJM	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
COVER DRAWING

SCALE	PROJ.I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	1	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 3/6/2025 | USER: MCKINNEY, JIMMY
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MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTE:
SEE SHEET 84 (PROPERTY PLAT AND CLOSURE STATEMENT) FOR PROPERTY BOUNDARY INFORMATION.

LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- OVERHEAD ELECTRIC LINE
- FIBER OPTIC LINE
- RAILROAD
- CHAIN LINK FENCE
- TREELINE
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- WETLANDS
- RIPRAP
- POWER POLE
- DISTRIBUTION POST (ELECTRICAL)
- TELEPHONE POST
- SURVEY CONTROL MONUMENT

CONTROL MONUMENT TABLE

MONUMENT	NORTHING*	EASTING*	ELEVATION* (FEET)
CM1 (EXISTING)	1,565,216.59	1,952,306.07	683.26
CM2 (EXISTING)	1,564,025.32	1,952,410.32	662.68
CM3 (EXISTING)	1,563,805.73	1,952,573.68	656.05
CM4 (EXISTING)	1,564,711.02	1,953,843.11	653.59
CM5 (EXISTING)	1,564,363.05	1,955,692.91	660.37
CM6 (PROPOSED)	1,561,180.51	1,953,476.32	698.30
CM7 (PROPOSED)	1,561,675.39	1,955,798.80	717.88
CM8 (PROPOSED)	1,563,170.59	1,954,468.47	668.41
CM9 (PROPOSED)	1,561,774.13	1,952,649.82	675.70

* SEE NOTE FOR GEOSPACIAL REFERENCE

GEORGIA REGISTERED No. PE042784 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

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

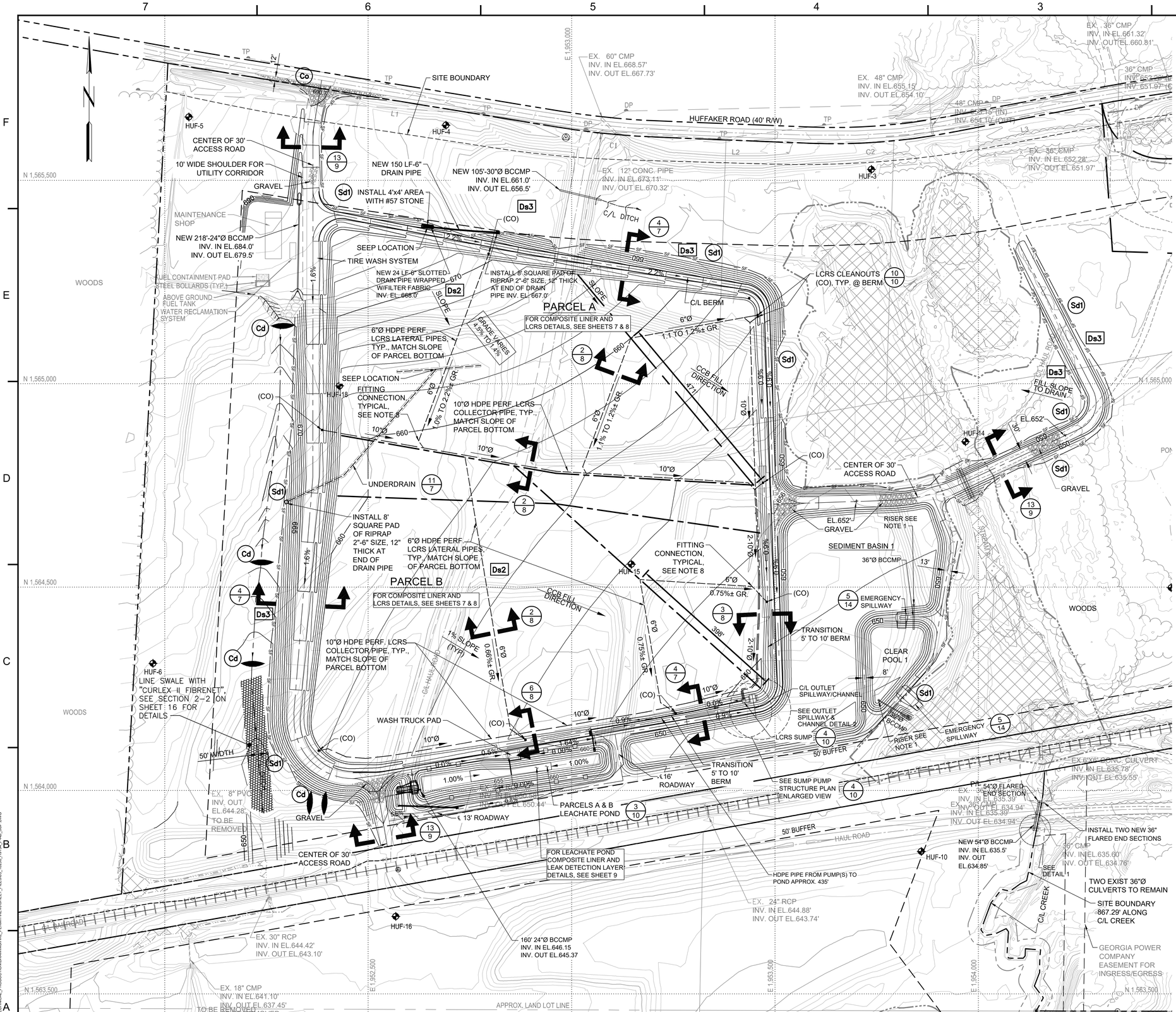
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
ACC	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
SITE OVERVIEW PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CON'D	REV.
AS SHOWN	175518236	-	2	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 28 JAN 2025 USER: MCKINNEY, JIMMY
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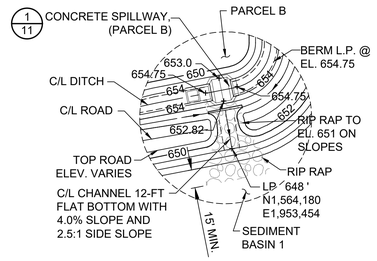


GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL 2 FEET

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

LEGEND

- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- FIBER OPTIC LINE
- RAILROAD
- CHAIN LINK FENCE
- TREELINE
- STORM SEWER PIPE/CULVERT
- PAVED ROAD
- GRAVEL ROAD
- EDGE OF WATER
- EXISTING EASEMENT
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- LIMITS OF CONSTRUCTION
- PERMIT BOUNDARY
- PROPERTY LINE/RIGHT-OF-WAY
- FINAL COVER 60 MIL HDPE LINER LIMIT
- FINAL COVER DOUBLE-SIDED GEOCOMPOSITE DRAINAGE LAYER LIMIT
- TURF REINFORCEMENT (CURLEX II FIBRENET)
- GRAVEL SURFACE
- JURISDICTIONAL WETLANDS
- RIPRAP
- DISTRIBUTION POST (ELECTRICAL)
- TELEPHONE POST
- BORING/TEMPORARY PIEZOMETER LOCATION
- GEODETIC MARKER



OUTLET SPILLWAY & CHANNEL DETAIL 2
NOT TO SCALE

DETAIL 1
NOT TO SCALE

EROSION CONTROL LEGEND:

- Cd — CHECK DAM
- Co — CONSTRUCTION EXIT
- Sd1 — SILT FENCE
- Ds2 — AREA STABILIZATION (TEMPORARY VEGETATION)
- Ds3 — AREA STABILIZATION (PERMANENT VEGETATION)

NOTES

1. FOR PROFILES OF RISERS & OUTLET PIPES, AND OTHER SEDIMENT BASIN AND CLEAR POOL INFORMATION, SEE SHEET 14.
2. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A MAXIMUM HORIZONTAL ACCELERATION OF 0.22g.
3. FOR ALL CULVERT PIPE MATERIALS AND PIPE BEDDING DETAILS SEE SHEET 14.
4. PONDS WITHIN CELL CONSTRUCTION AREA WILL BE DRAINED PIOR TO START OF CONSTRUCTION.
5. SEDIMENT BASIN ARE DESIGNED TO HANDLE HYDRAULIC LOADING FOR 100 YEARS, 24 HOURS STORM AND SEDIMENT LOAD FOR LIFE OF SITE.
6. ALL LANDSCAPING IN BUFFER ZONES WILL BE PERFORMED CONCURRENT WITH PARCEL A & B DEVELOPMENT.
7. FOR LOCATION OF ACCESS EASEMENTS, SEE SHEET 84. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.
8. CONTRACTOR SHALL USE A COMBINATION OF TEE'S AND OTHER FITTINGS AS WELL AS ALLOWABLE PIPE/JOINT DEFLECTIONS AT PIPE INTERSECTIONS AND BENDS TO CONSTRUCT NETWORK SHOWN. PIPE SYSTEM SHALL BE A CONTIGUOUS NETWORK.
9. FINISH GRADE CONTOURS SHOWN ON THIS PLAN REPRESENT TOP OF CLAY LINER IN PARCELS AND PONDS, TOP OF STONE AT PERIMETER ROADS/LINED DITCHES, AND TOP OF SOIL COVER (TOPSOIL) WHERE GRASSED.

REFERENCES

1. FOR A COMPLETE DRAWING LIST SEE SHEET 1.
2. SEE SHEET 74 FOR GENERAL NOTES.

ISSUED FOR PERMIT

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12987 — GARY H. McWHORTER — 2/12/25

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE044 — MATTHEW C. VAUGHAN — 2/12/25

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
SITE DEVELOPMENT PLAN

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

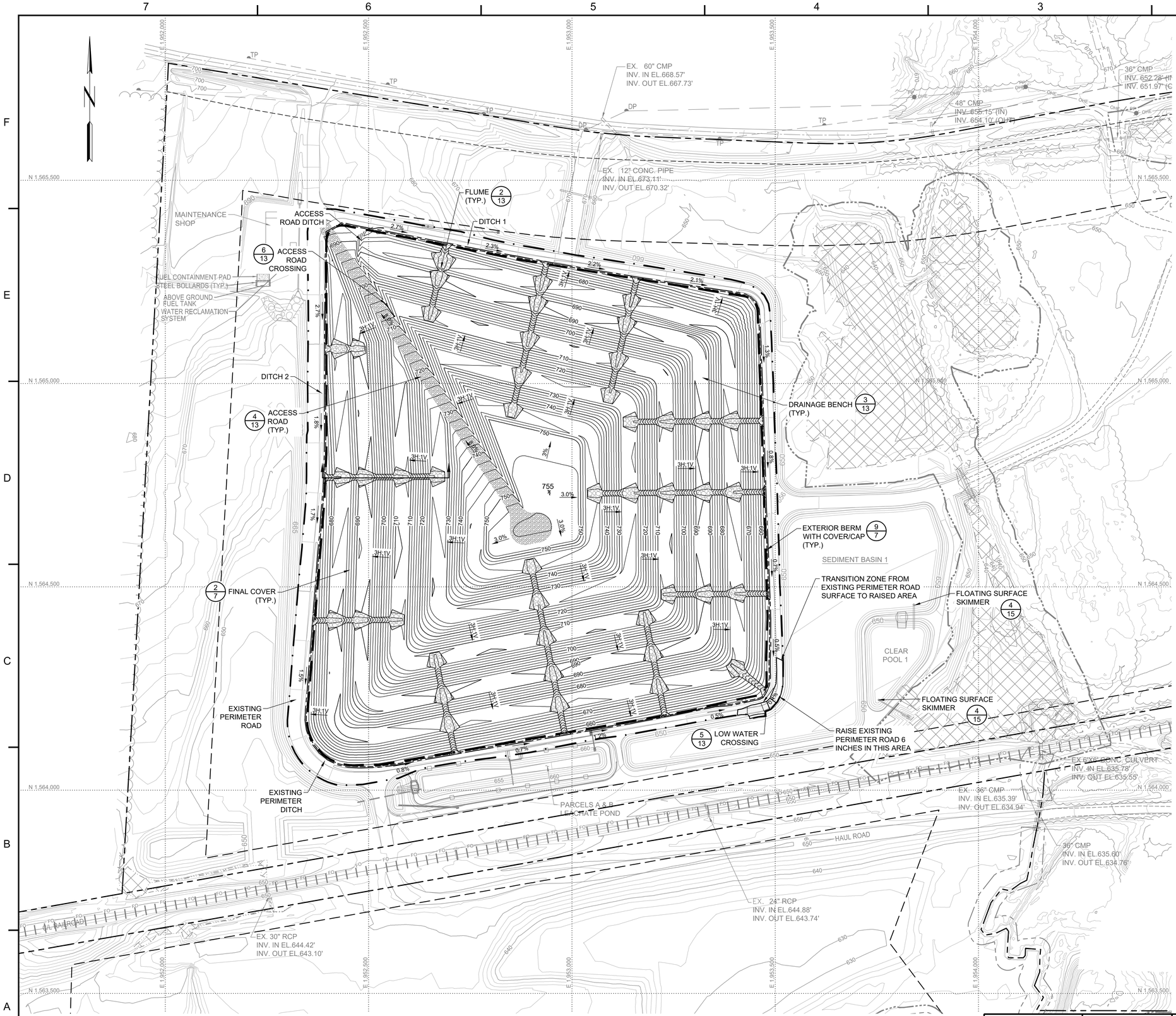
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BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
ACC	KDL	–				

SCALE	PROJ.I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	3	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025, USER: MCKINNEY, JIMMY
\\US0322-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISHEET_FLES\03_18236_H913A_P-AB_SSP.DWG



MAPPING SOURCE NOTES:

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NOTES:

1. THE BASEMAP HAS BEEN MODIFIED TO REFLECT A MERGE OF EXISTING CONDITIONS AND TOP OF WASTE/GEOMEMBRANE SUBGRADE DESIGN SURFACES.
2. THE FLOATING SURFACE SKIMMER WILL BE REMOVED ONCE VEGETATION HAS BEEN ESTABLISHED AT THE SITE.

LEGEND

- 500 — PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- 660 — EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- OHE — OVERHEAD ELECTRIC LINE
- FO — FIBER OPTIC LINE
- RAILROAD
- X — CHAIN LINK FENCE
- TREELINE
- STORM SEWER PIPE/CULVERT
- PAVED ROAD
- GRAVEL ROAD
- EDGE OF WATER
- ESMT — EXISTING EASEMENT
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- LIMITS OF CONSTRUCTION
- PERMIT BOUNDARY
- PROPERTY LINE/RIGHT-OF-WAY
- FINAL COVER 60 MIL HDPE LINER LIMIT
- FINAL COVER DOUBLE-SIDED GEOCOMPOSITE DRAINAGE LAYER LIMIT
- WETLANDS
- RIPRAP
- PP — POWER POLE
- DP — DISTRIBUTION POST (ELECTRICAL)
- TP — TELEPHONE POST

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/25

ISSUED FOR PERMIT

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

Stantec Consulting Services, Inc.
FOR

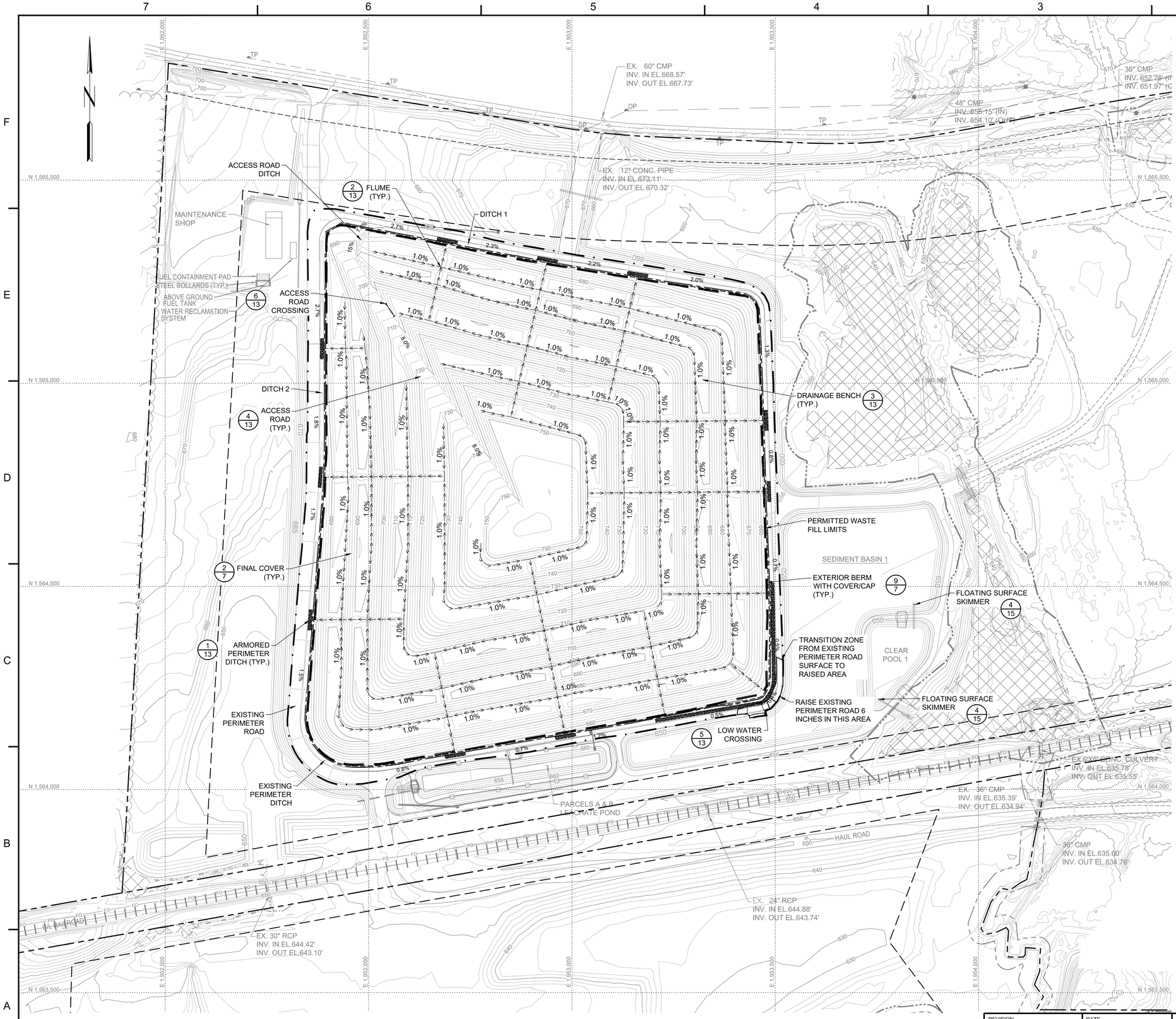
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
FINAL GRADE PLAN

SCALE	PROJ.I.D.	DRAWING NUMBER	SH.	CONT'D	REV.
AS SHOWN	175518236	-	4	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 02/06/2026 USER: MCKINNEY, JIMMY
\\SDSD22VPP3501\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\PA_PERMIT\REVISIONS\SHEET_FILES\04_18X36_H\175_P-A8_FGP.DWG



MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
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NOTE:
THE BASEMAP HAS BEEN MODIFIED TO REFLECT A MERGE OF EXISTING CONDITIONS, TOP OF WASTE/GEOMEMBRANE SUBGRADE AND FINAL GRADE DESIGN SURFACES.

LEGEND

- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- OVERHEAD ELECTRIC LINE
- FIBER OPTIC LINE
- RAILROAD
- CHAIN LINK FENCE
- TREELINE
- STORM SEWER PIPE/CULVERT
- PAVED ROAD
- GRAVEL ROAD
- EDGE OF WATER
- EXISTING EASEMENT
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- LIMITS OF CONSTRUCTION
- PERMIT BOUNDARY
- PROPERTY LINE/RIGHT-OF-WAY
- DITCH FLOWLINE
- FINAL COVER 60 MIL HDPE LINER LIMIT
- FINAL COVER DOUBLE-SIDED GEOCOMPOSITE DRAINAGE LAYER LIMIT
- WETLANDS
- ARMORED PERIMETER DITCH
- POWER POLE
- DISTRIBUTION POST (ELECTRICAL)
- TELEPHONE POST

50 0 100 200 FEET
GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL 2 FEET

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

ISSUED FOR PERMIT

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
STORMWATER MANAGEMENT PLAN

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

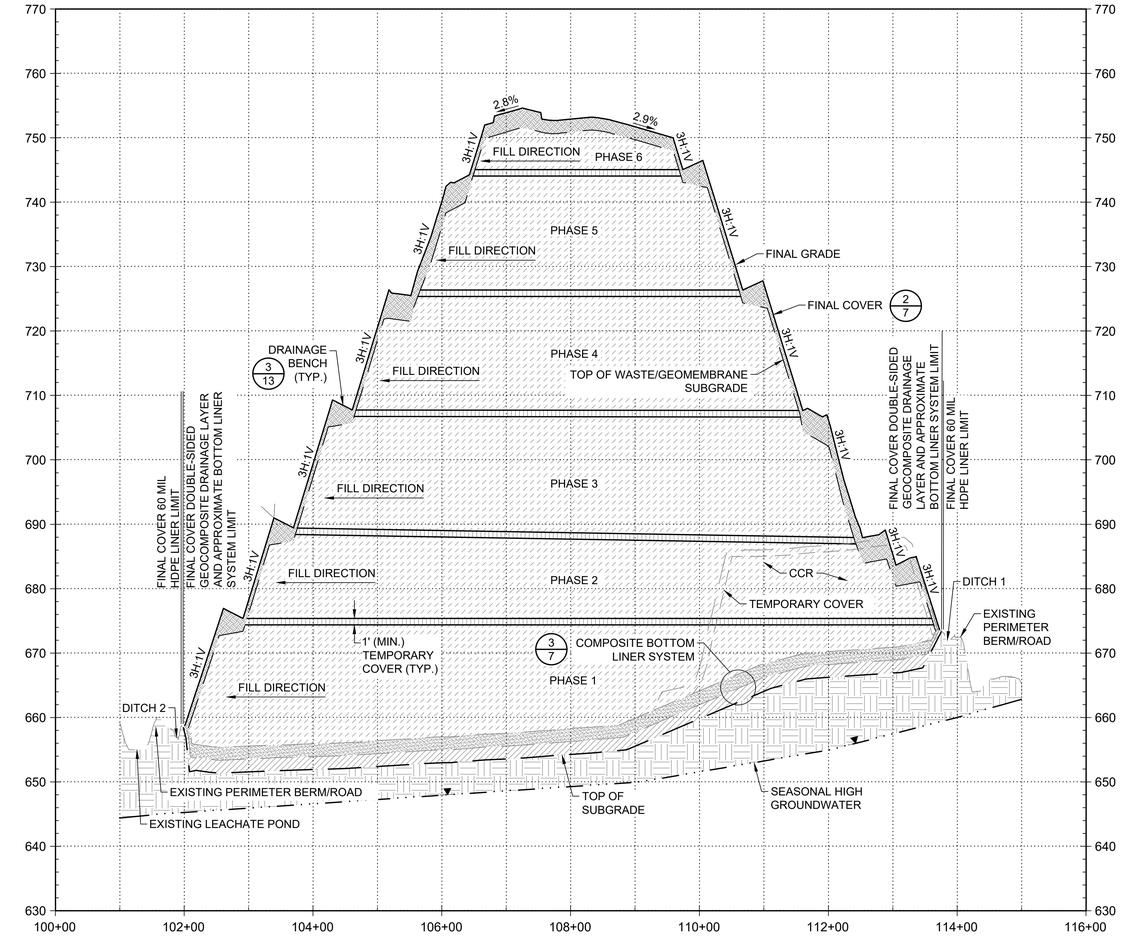
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BMS	KDL	–				

SCALE	PROJ.I.D.	DRAWING NUMBER	SH.	CON'D	REV.
AS SHOWN	175518236	-	5	FINAL	0

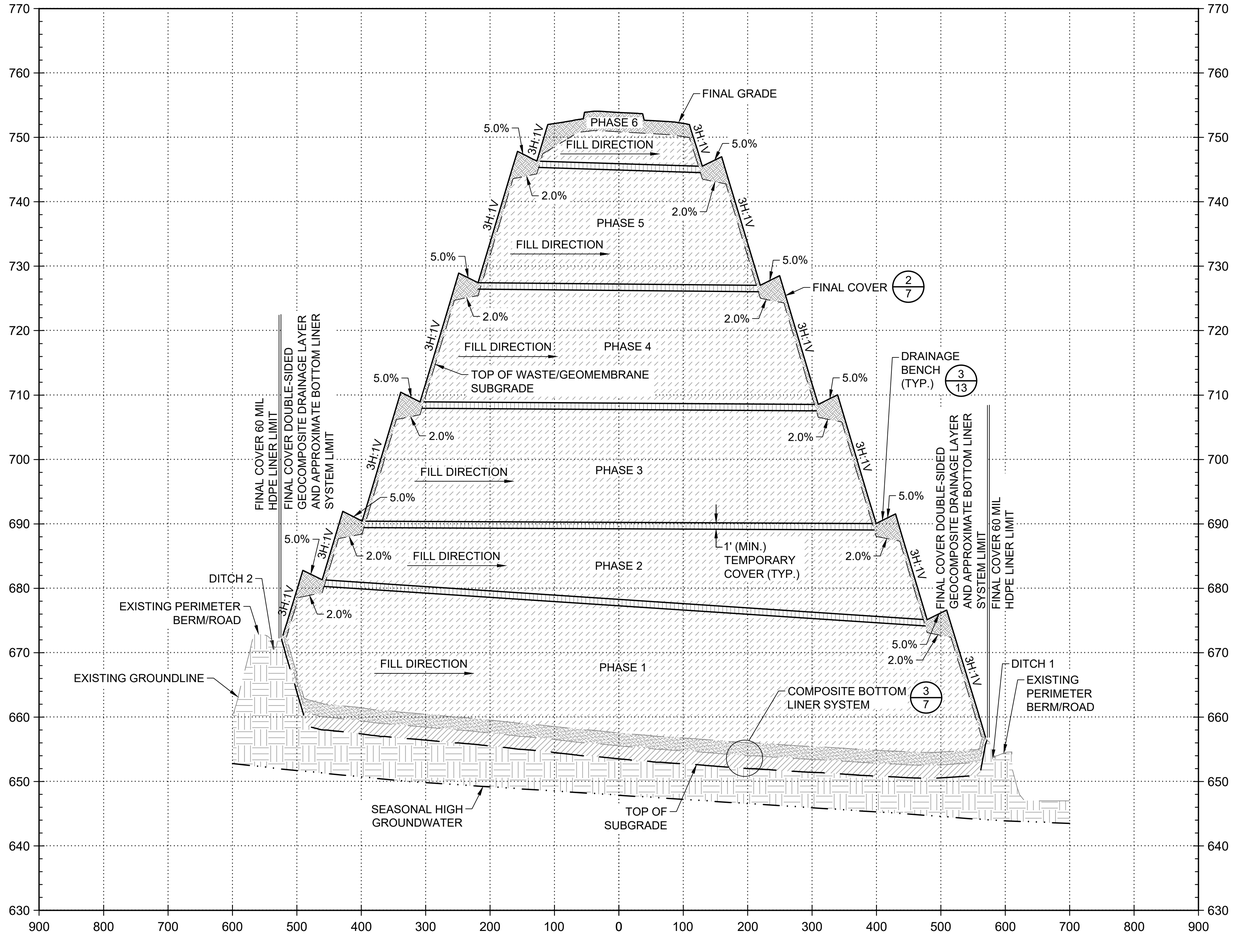
ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 02/05/2026 USER: MCKINNEY, JIMMY
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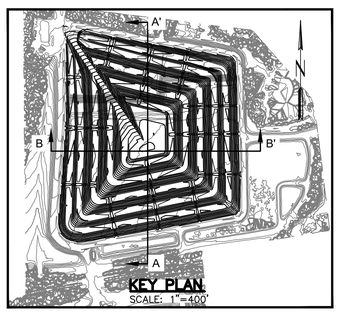
NOTES:
1. THE ILLUSTRATED COMPOSITE BOTTOM LINER SYSTEM IS BASED ON A LIDAR SURVEY DATED NOVEMBER 2019 AND AS-BUILT SURVEY DATED DECEMBER 2015.
2. CROSS SECTION MAY BE SKEWED TO THE GRADING. SEE FINAL GRADE PLAN FOR DESIGN SLOPES.
3. TEMPORARY COVER SHALL BE REMOVED PRIOR TO PLACEMENT OF THE SUBSEQUENT LIFT.



SECTION A-A'
SCALE: 1"= 100' (HORIZONTAL)
1"=10' (VERTICAL)



SECTION B-B'
SCALE: 1"=100' (HORIZONTAL)
1=10' (VERTICAL)



SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE041478 MATTHEW C. VAUGHAN 5/1/15

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
CROSS SECTIONS

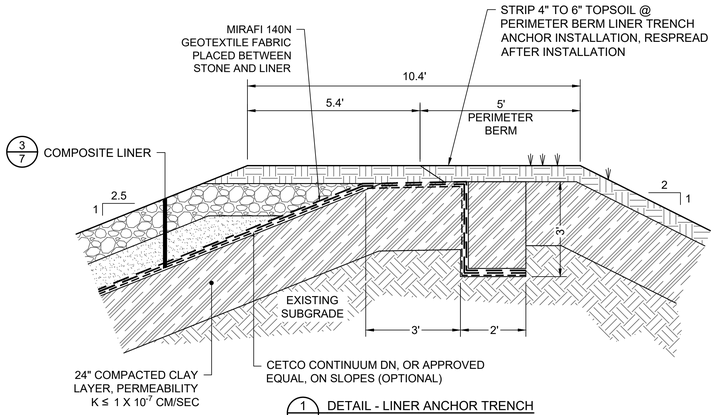
REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

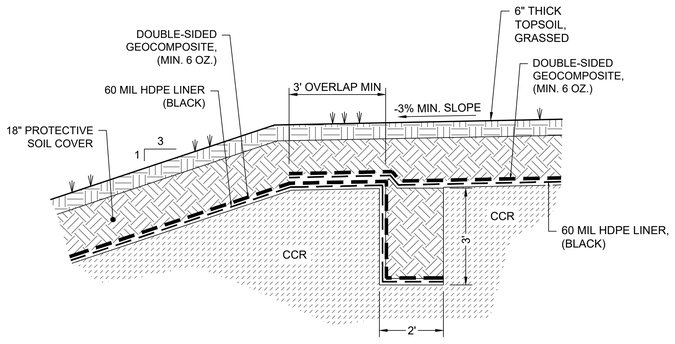
SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	6	FINAL	0

PLOT DATE: 02/05/2025 USER: MCKINNEY, JIMMY
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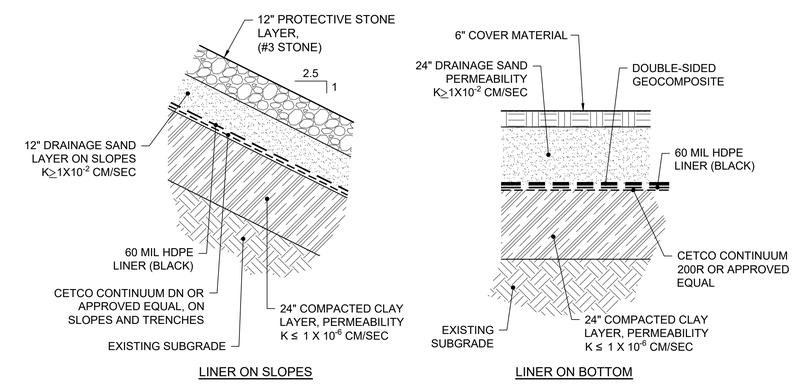
ANSI F: 28x40 AUTOCAD 2023



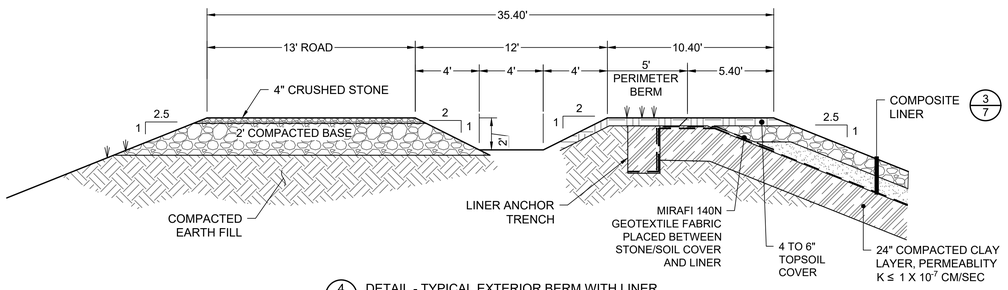
1/7 DETAIL - LINER ANCHOR TRENCH
NOT TO SCALE



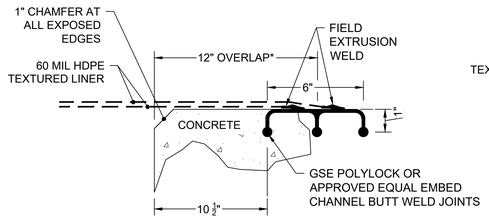
2/7 DETAIL - FINAL COVER WITH TOP-OF-SLOPE ANCHOR TRENCH TYPICAL SECTION
NOT TO SCALE



3/7 DETAIL - COMPOSITE LINER SYSTEM
NOT TO SCALE

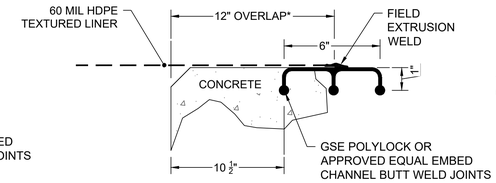


4/7 DETAIL - TYPICAL EXTERIOR BERM WITH LINER
NOT TO SCALE



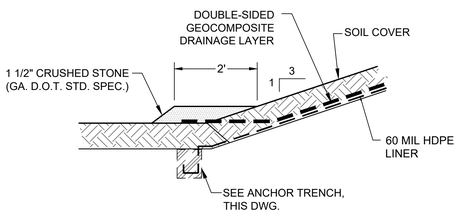
*UNLESS NOTED OTHERWISE IN THE PLANS.

5/7 DETAIL - EMBED CHANNEL DETAIL 2 DOUBLE HDPE LINER ATTACHMENT
NOT TO SCALE

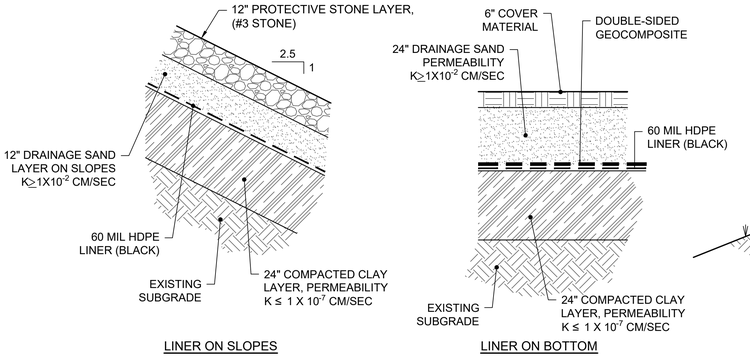


*UNLESS NOTED OTHERWISE IN THE PLANS.

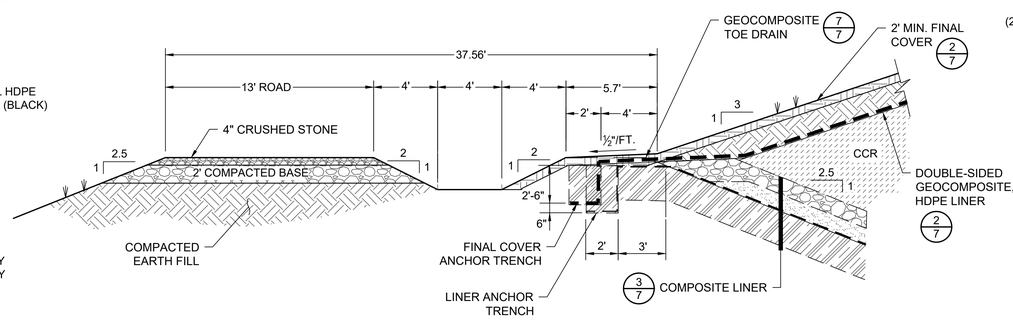
6/7 DETAIL - EMBED CHANNEL DETAIL 1 SINGLE HDPE LINER ATTACHMENT
NOT TO SCALE



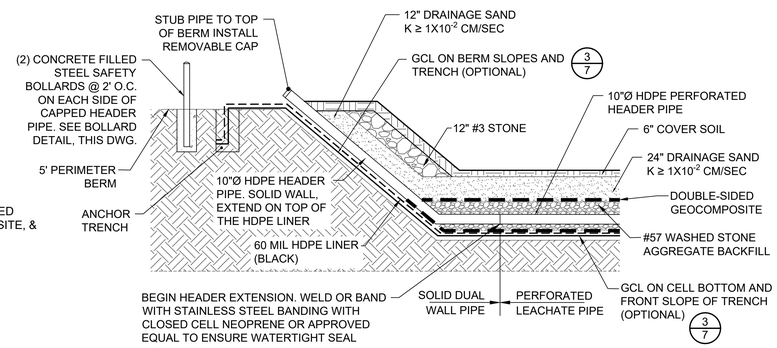
7/7 DETAIL - FINAL COVER GEOCOMPOSITE TOE DRAIN
NOT TO SCALE



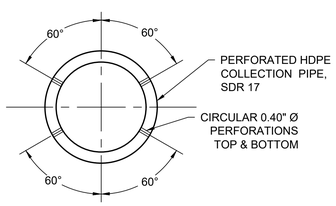
8/7 DETAIL - ALTERNATIVE COMPOSITE LINER SYSTEM
NOT TO SCALE



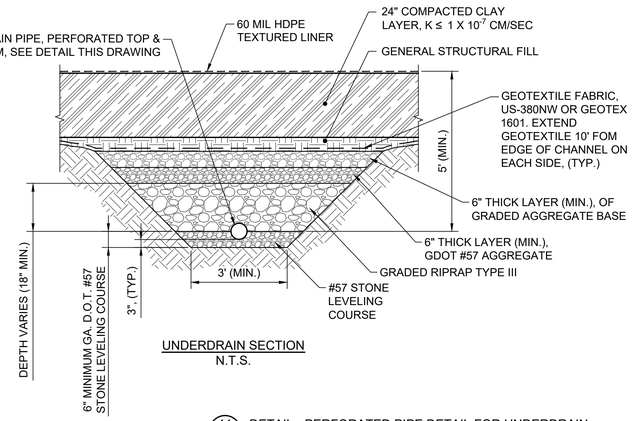
9/7 DETAIL - TYPICAL EXTERIOR BERM WITH COVER/CAP
NOT TO SCALE



10/7 DETAIL - LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) CAPPED HEADER SECTION
NOT TO SCALE

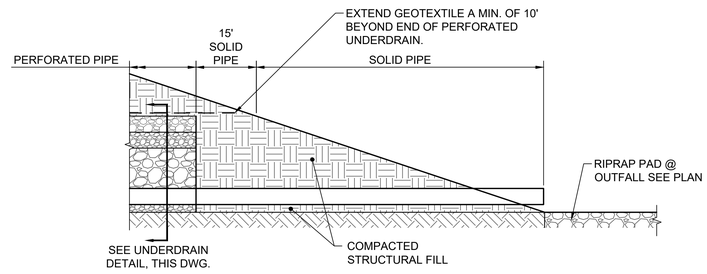


PERFORATED PIPE DETAIL FOR UNDERDRAIN
N.T.S.



UNDERDRAIN SECTION
N.T.S.

11/7 DETAIL - PERFORATED PIPE DETAIL FOR UNDERDRAIN
NOT TO SCALE



UNDERDRAIN OUTLET DETAIL
N.T.S.

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

REFERENCES:

1. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

GEORGIA REGISTERED No. 12087 PROFESSIONAL ENGINEER GARY R. McWHORTER 2/12/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
DETAILS

REVISION	DATE
0	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION	

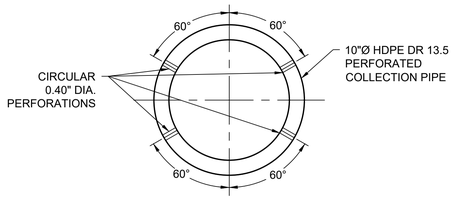
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	■	7	FINAL	0

PLOT DATE: 10/29/2024 USER: MCKINNEY, JIMMY
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ANSI F: 28x40

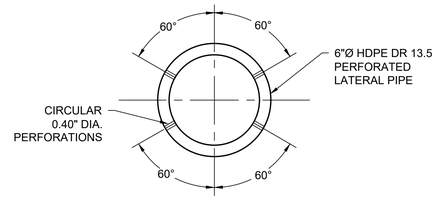
AUTOCAD 2023



NOTE:
AASHTO CLASS I PERFORATION FOR
10"Ø PIPE-6 ROWS OF PERFORATIONS
REQ'D PER FT-OF-PIPE
(TOTAL 24 PER FT OF PIPE. EACH
PERFORATION 0.4"Ø CIRCULAR.)

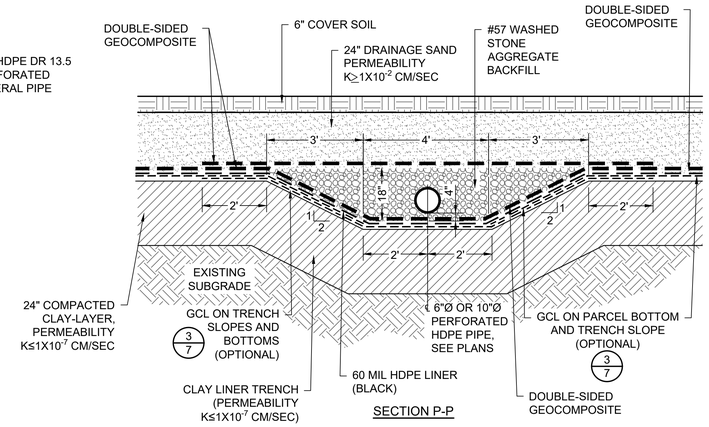
COLLECTOR PIPE

1/8 DETAIL - LEACHATE PERFORATED PIPE
NOT TO SCALE



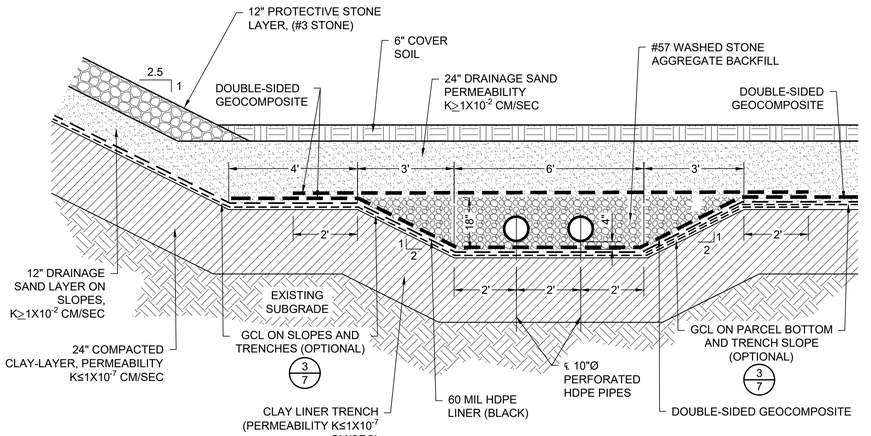
NOTE:
AASHTO CLASS I PERFORATION FOR
6"Ø PIPE-6 ROWS OF PERFORATIONS
REQ'D PER FT-OF-PIPE
(TOTAL 24 PER FT OF PIPE. EACH
PERFORATION 0.4"Ø CIRCULAR.)

LATERAL PIPE



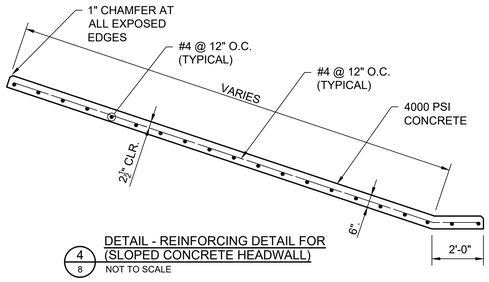
SECTION P-P

2/8 DETAIL - LEACHATE LATERAL TRENCH
NOT TO SCALE

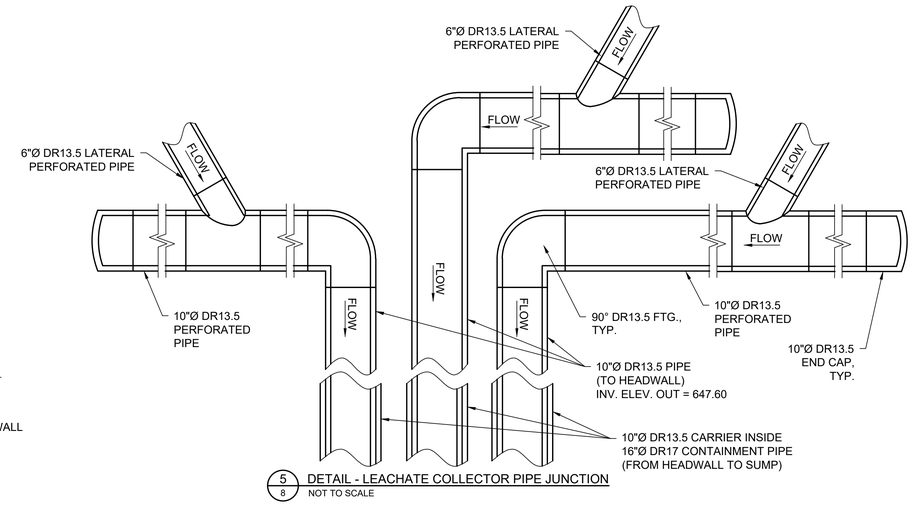


SECTION S-S

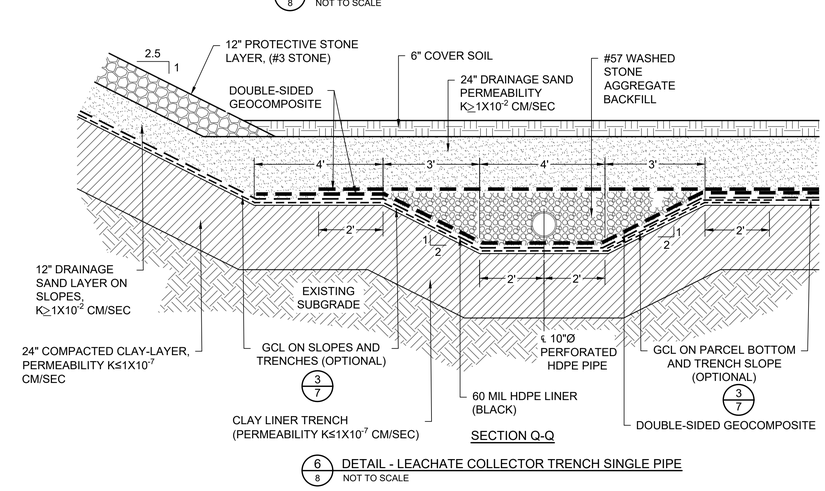
3/8 DETAIL - LEACHATE COLLECTOR TRENCH DOUBLE PIPE
NOT TO SCALE



4/8 DETAIL - REINFORCING DETAIL FOR (SLOPED CONCRETE HEADWALL)
NOT TO SCALE

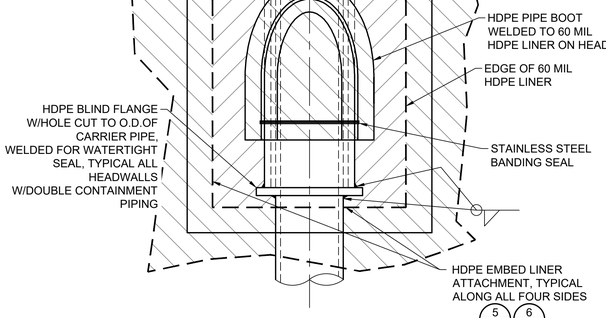


5/8 DETAIL - LEACHATE COLLECTOR PIPE JUNCTION
NOT TO SCALE

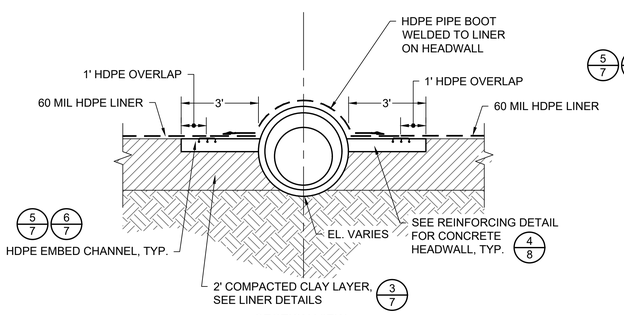


SECTION Q-Q

6/8 DETAIL - LEACHATE COLLECTOR TRENCH SINGLE PIPE
NOT TO SCALE

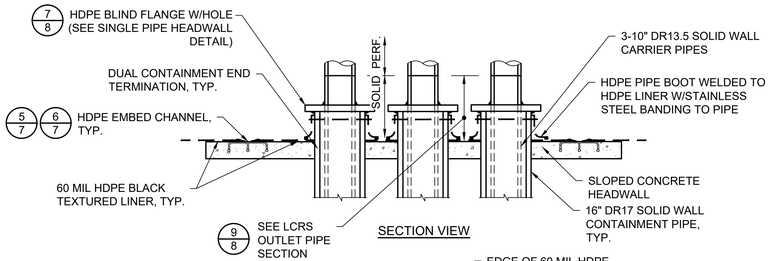


PLAN VIEW

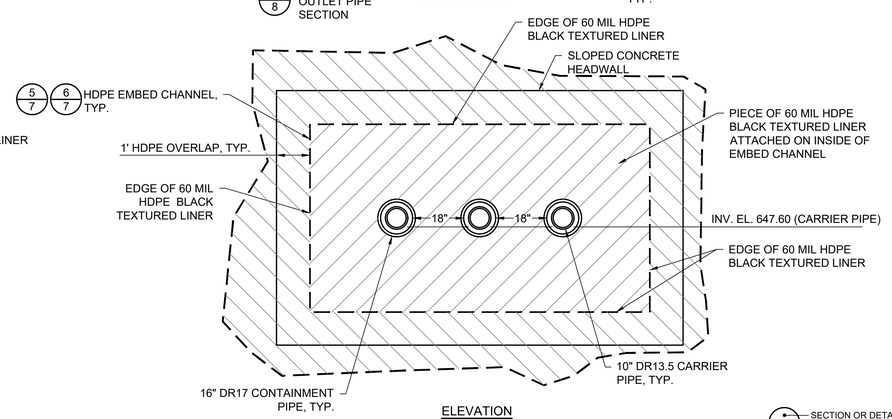


SECTION VIEW

7/8 DETAIL - LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) SINGLE PIPE HEADWALL
NOT TO SCALE

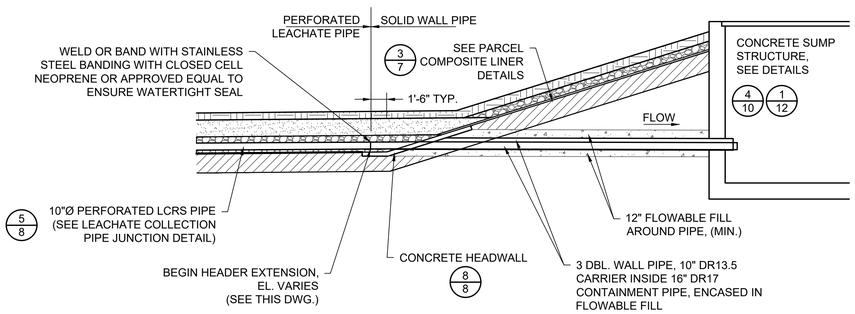


SECTION VIEW



ELEVATION

8/8 DETAIL - LEACHATE COLLECTION PIPE HEADWALL
NOT TO SCALE



9/8 DETAIL - LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) OUTLET PIPE SECTION
NOT TO SCALE

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. 12987 PROFESSIONAL ENGINEER JAMES R. McWHORTER
2/12/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
DETAILS

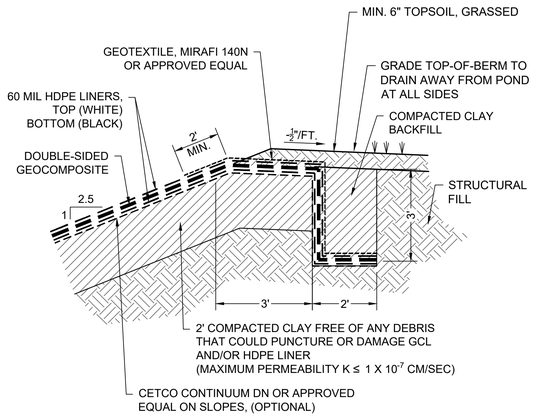
REVISION	DATE
ISSUED FOR CCR PERMIT APPLICATION	
0	FEBRUARY 2025

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

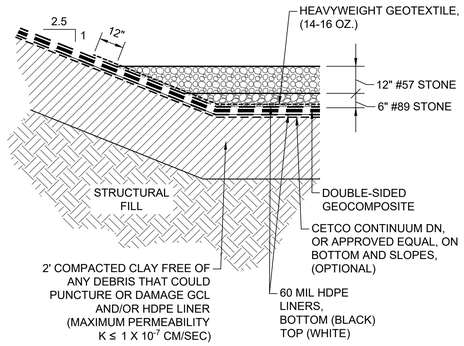
SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	8	FINAL	0

PLOT DATE: 02/05/2025, USER: MCKINNEY, JIMMY
\\US0522-APPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HHL_PERMIT\REV0\SHEET_FILES\08_16X36_H1152S_P-AB_DT2.DWG

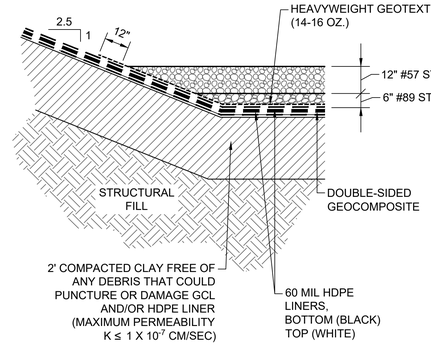
ANSI F: 28x40 AUTOCAD 2023



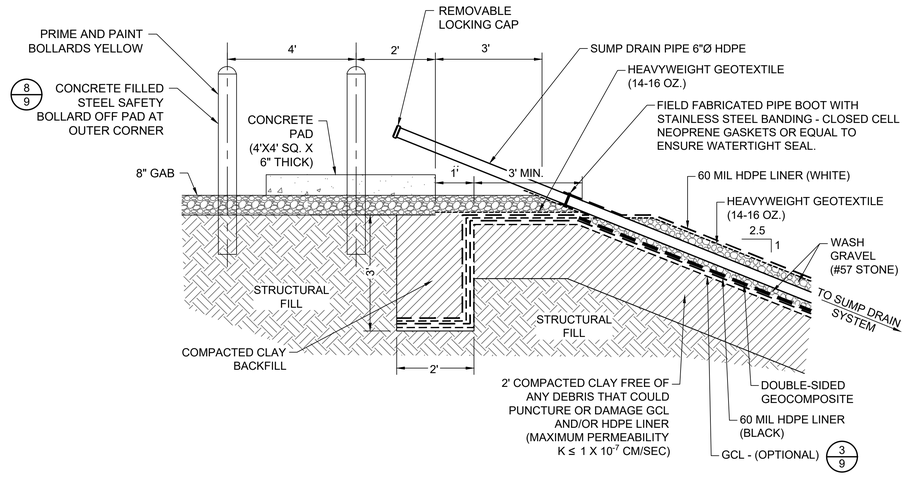
1/9 DETAIL - ANCHOR TRENCH (LEACHATE POND)
NOT TO SCALE



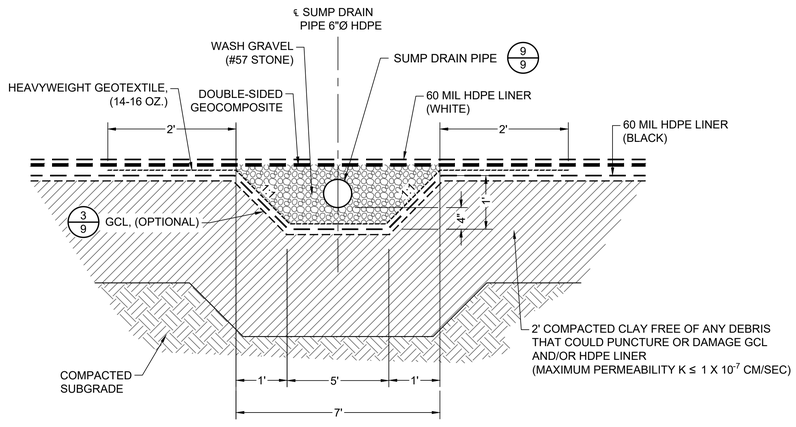
2/9 DETAIL - COMPOSITE LINER (LEACHATE POND)
NOT TO SCALE



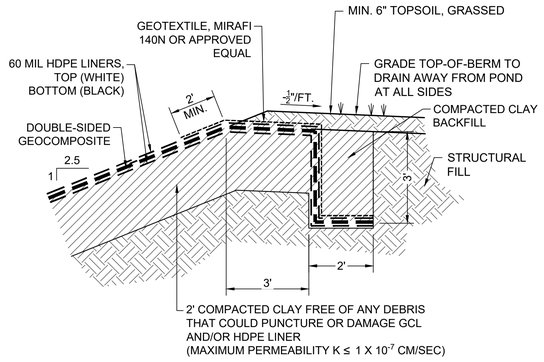
3/9 DETAIL - COMPOSITE LINER
NOT TO SCALE



4/9 DETAIL - TYPICAL POND ANCHOR TRENCH WITH SUMP RISER PIPE (LEACHATE POND)
NOT TO SCALE



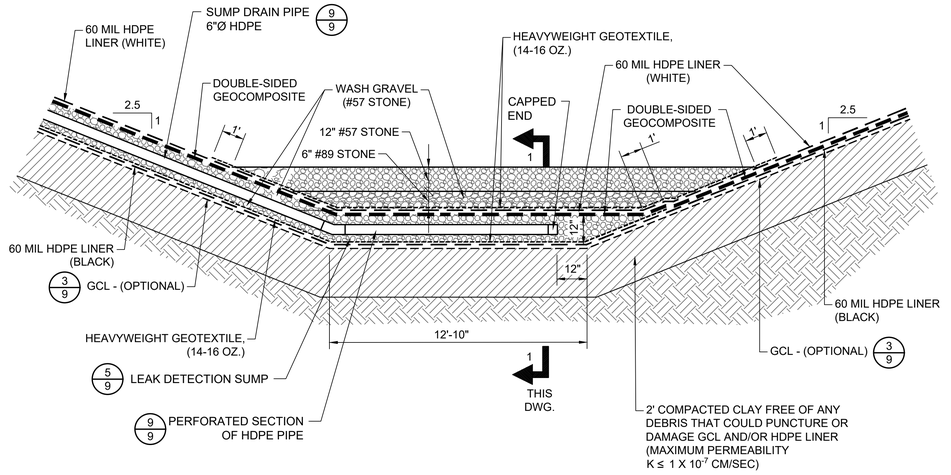
SECTION 1-1



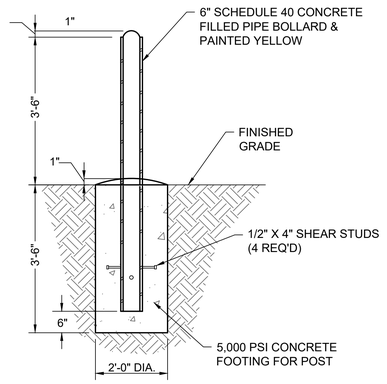
ANCHOR TRENCH

5/9 DETAIL - LEAK DETECTION SUMP (LEACHATE POND)
NOT TO SCALE

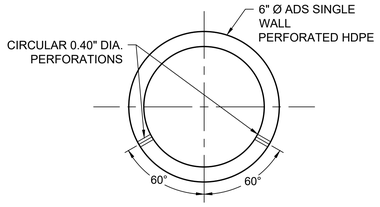
6/9 DETAIL - ALTERNATE COMPOSITE LINER (LEACHATE POND)
NOT TO SCALE



7/9 DETAIL - TYPICAL LEAKAGE DETECTION SUMP (LEACHATE POND)
NOT TO SCALE

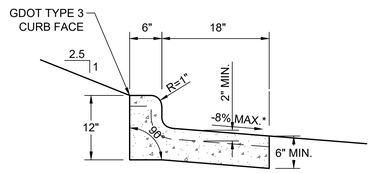


8/9 DETAIL - BOLLARD
NOT TO SCALE

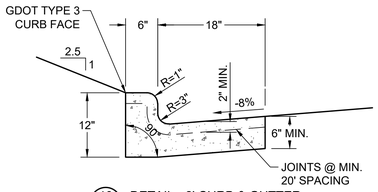


NOTE:
AASHTO CLASS I PERFORATION FOR 6"Ø PIPE-6 ROWS OF PERFORATIONS REQ'D PER FT-OF-PIPE (TOTAL 24 PER FT OF PIPE. EACH PERFORATION 0.4"Ø CIRCULAR.)

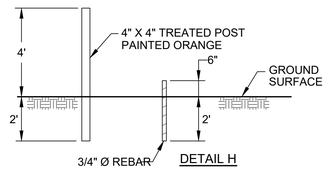
9/9 DETAIL - SUMP DRAIN PIPE
NOT TO SCALE



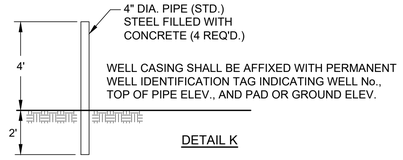
*TRANSITION GUTTER FROM -8% TYPICAL CROSS-SLOPE TO REVERSE CROSS-SLOPE INTO GRATE INLET AT ROAD LOW POINT.



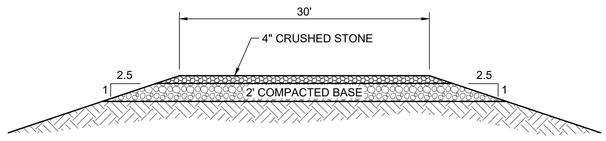
10/9 DETAIL - 2' CURB & GUTTER
NOT TO SCALE



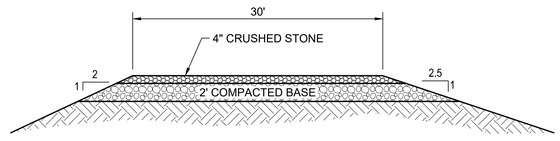
11/9 DETAIL - TYPICAL DISPOSAL SITE BOUNDARY AND BUFFER ZONE PIN AND MARKER
NOT TO SCALE



12/9 DETAIL - TYPICAL GROUNDWATER MONITORING WELL MARKER PROTECTION PIPES
NOT TO SCALE



SECTION A-A



SECTION B-B

13/9 DETAIL - TYPICAL ACCESS ROAD
NOT TO SCALE

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER MARY N. McWHORTER
2/12/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

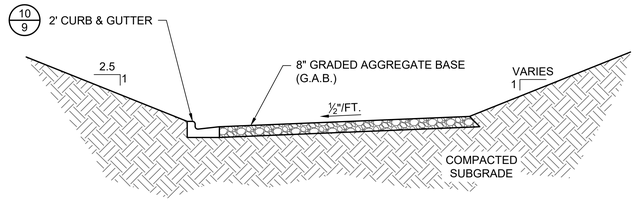
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
DETAILS

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
							BMS	KDL	–					AS SHOWN	175518236	-	9	FINAL	0

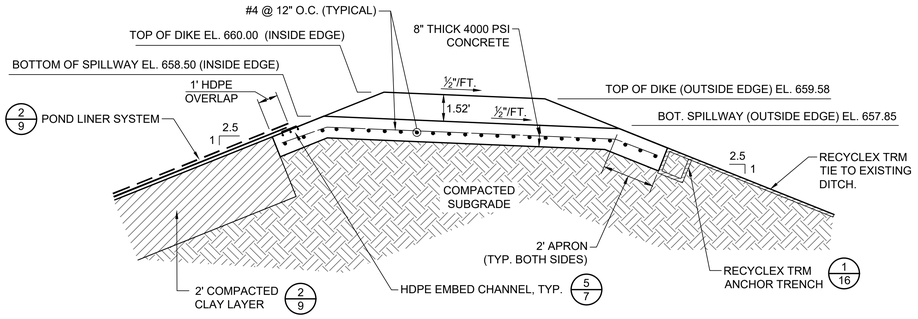
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ANSI F: 28x40 AUTOCAD 2023

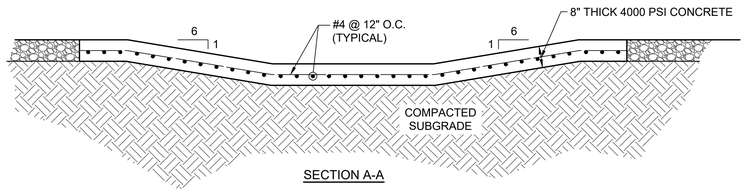


SECTION N-N

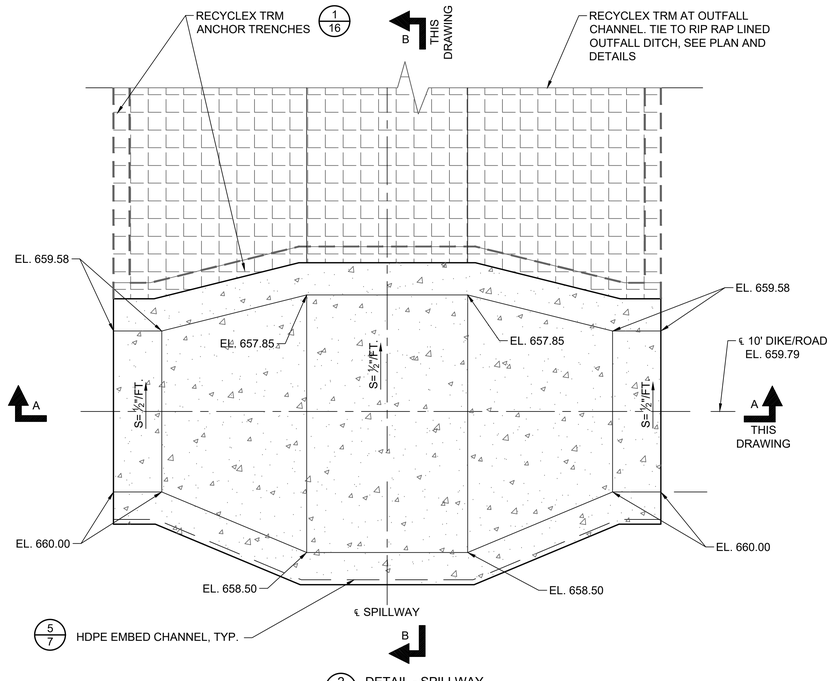
1/10 DETAIL - TYPICAL ACCESS ROAD
NOT TO SCALE



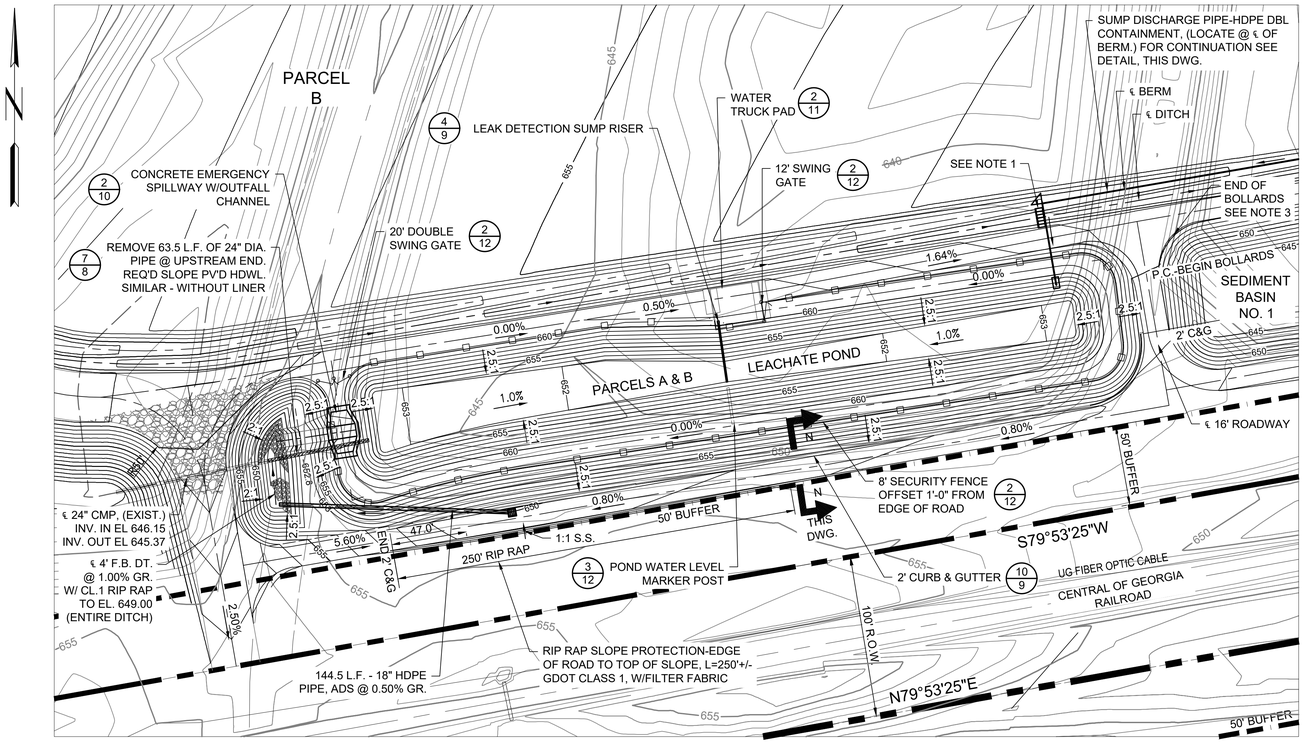
SECTION B-B



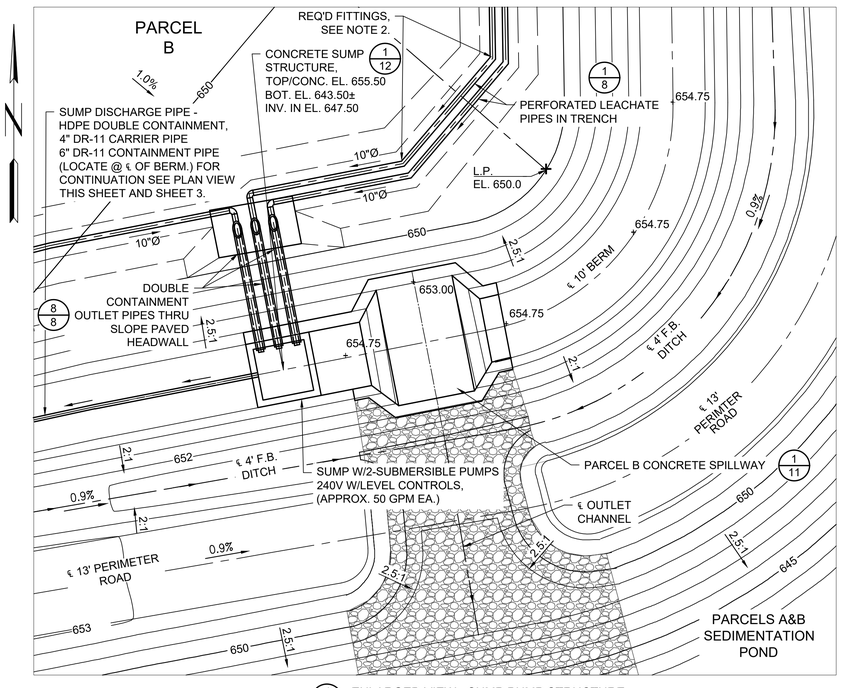
SECTION A-A



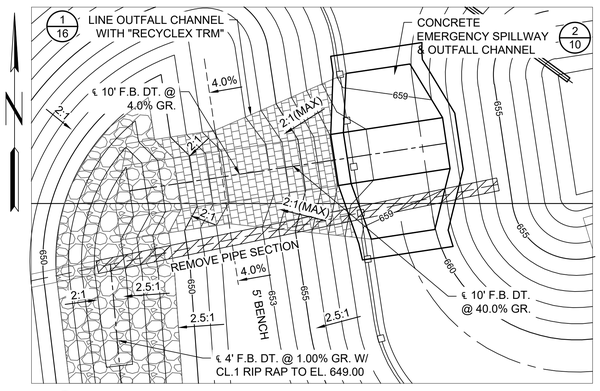
2/10 DETAIL - SPILLWAY
NOT TO SCALE



3/10 ENLARGED VIEW - LEACHATE POND
SCALE: 1" = 40'



4/10 ENLARGED VIEW - SUMP PUMP STRUCTURE
SCALE: 1" = 10'



5/10 ENLARGED VIEW - LEACHATE POND EMERGENCY SPILLWAY & OUTFALL DITCH
SCALE: 1" = 10'

NOTES:

1. PIPE FROM SUMP PUMPS TO BE ATTACHED TO 12 FOOT LONG METAL WALKWAY FABRICATED TO SPAN THE PERIMETER DITCH. WALKWAY TO BE FIELD FABRICATED IN COMPLIANCE WITH CURRENT OSHA REGULATIONS.
2. CONTRACTOR SHALL USE A COMBINATION OF TEE'S AND OTHER FITTINGS AS WELL AS ALLOWABLE PIPE/JOINT DEFLECTIONS AT PIPE INTERSECTIONS AND BENDS TO CONSTRUCT LCRS NETWORK SHOWN. PIPE SYSTEM SHALL BE A CONTIGUOUS NETWORK.
3. BOLLARDS SPACED AT 4 FOOT C/C, BEGINNING AT PC OF TURNOUT AT EDGE OF ROAD. 8 TOTAL REQUIRED. SEE SHEET 9.

REFERENCES:

1. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

ISSUED FOR PERMIT

GEORGIA REGISTERED No. 12987 PROFESSIONAL ENGINEER KARY H. McWHORTER 2/11/25

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
DETAILS

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		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

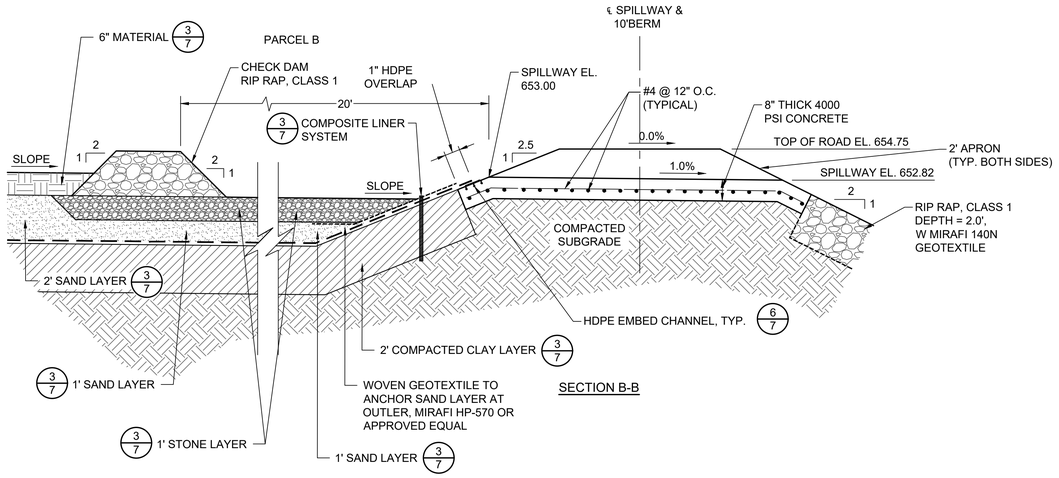
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BMS	KDL	–				

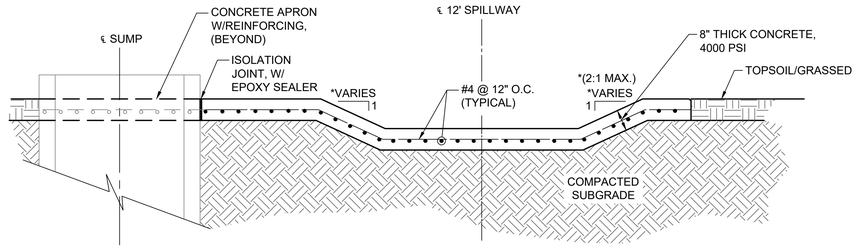
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ANSI F: 28x40 AUTOCAD 2023

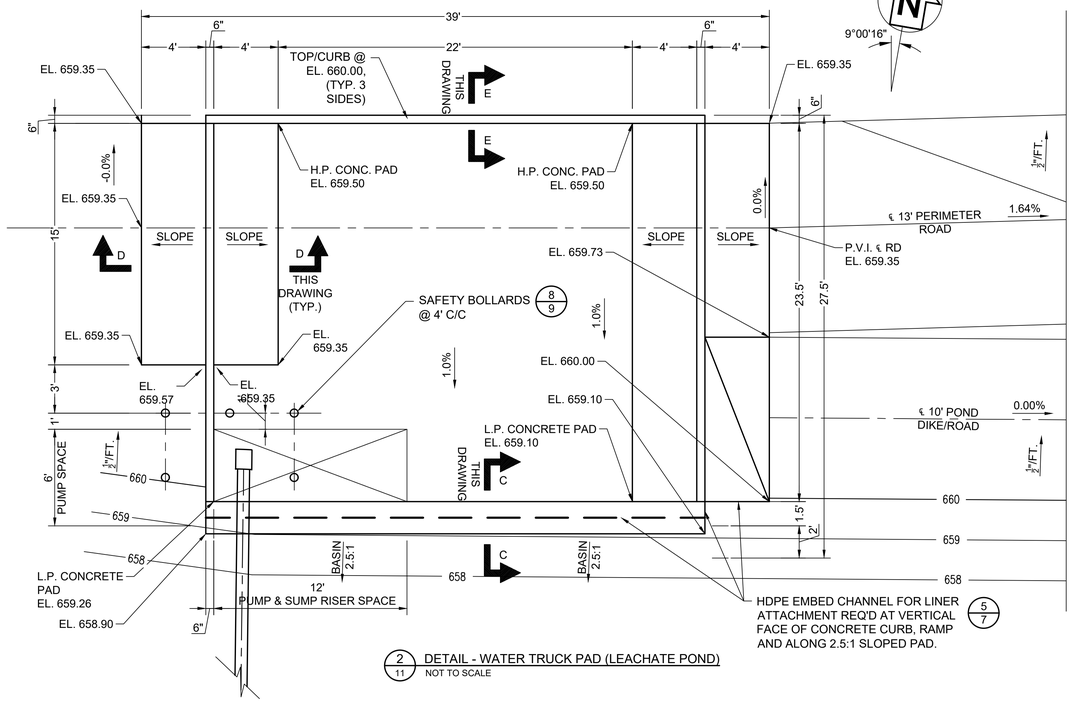
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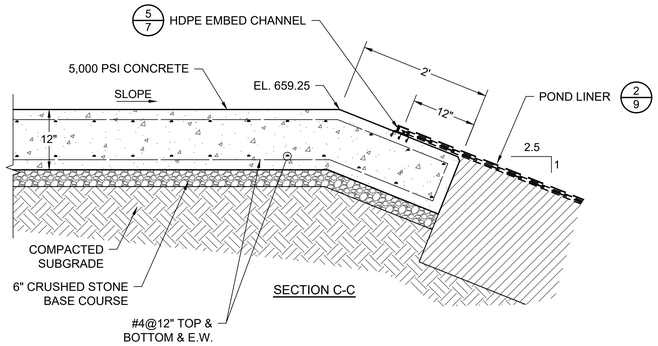
SECTION B-B



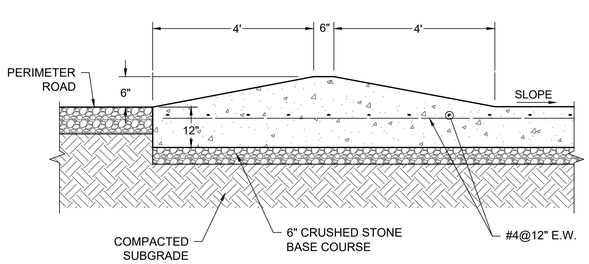
SECTION A-A



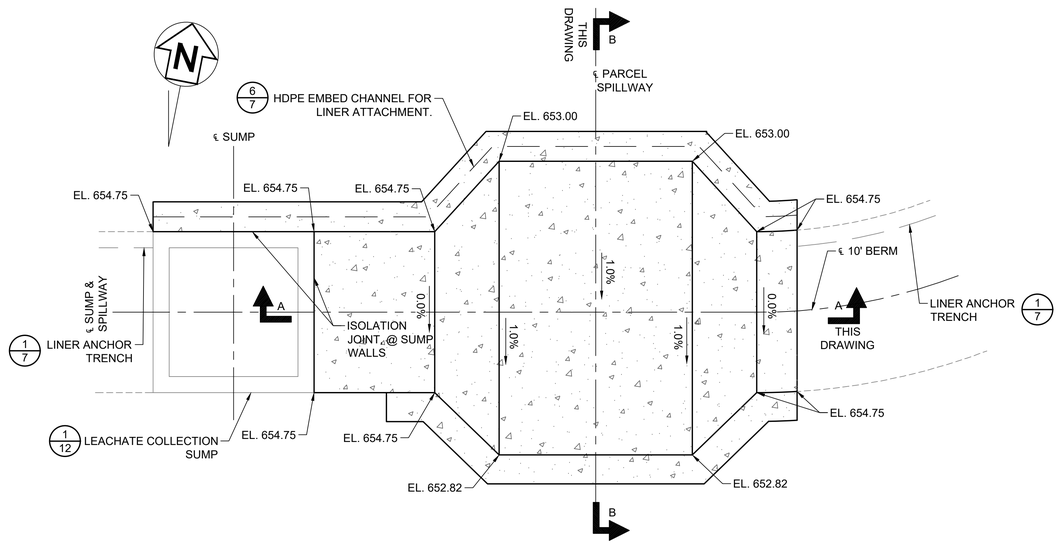
2/11 DETAIL - WATER TRUCK PAD (LEACHATE POND)
NOT TO SCALE



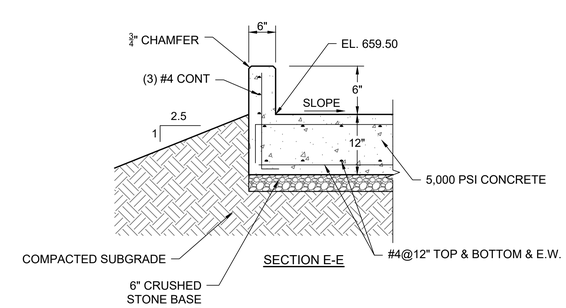
SECTION C-C



SECTION D-D



1/11 DETAIL - PARCEL B SPILLWAY
NOT TO SCALE



SECTION E-E

NOTES:

1. OUTLET CHANNEL FROM SPILLWAY TO SEDIMENTATION BASIN #1 TO BE REGRADED AND LINED WITH RIP RAP. SEE SHEET 10 FOR ENLARGED PLAN.

REFERENCES:

1. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY M. McWHORTER 2/12/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

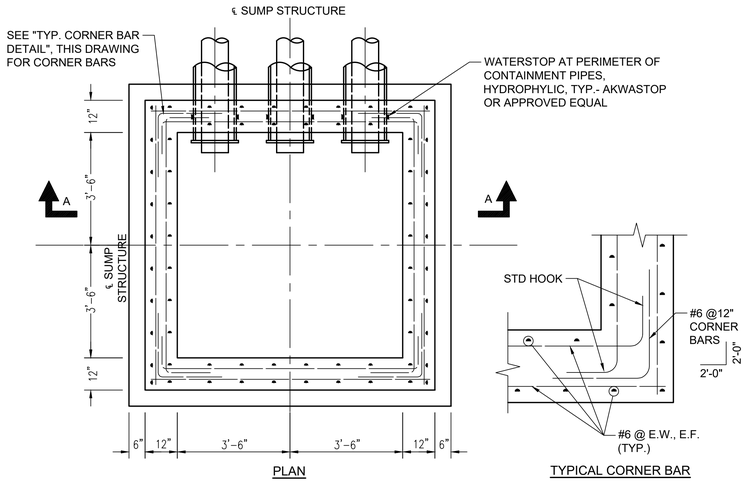
Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
DETAILS

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	11	FINAL	0

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

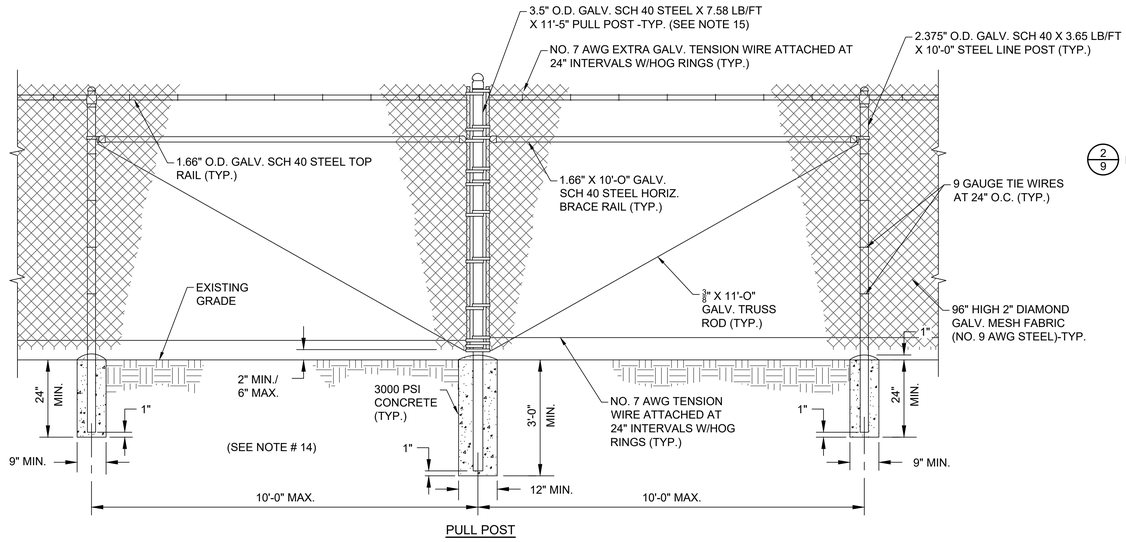
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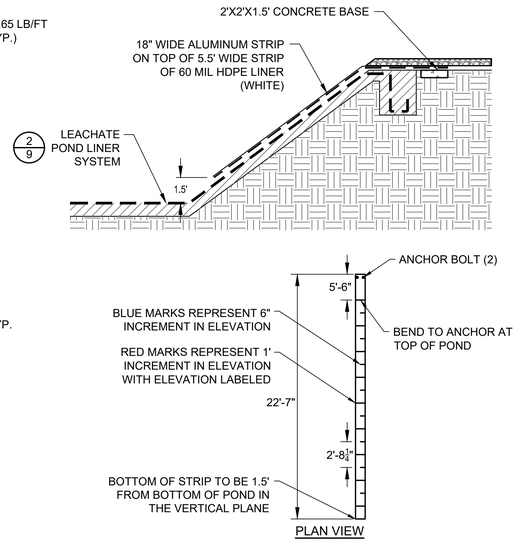


PLAN

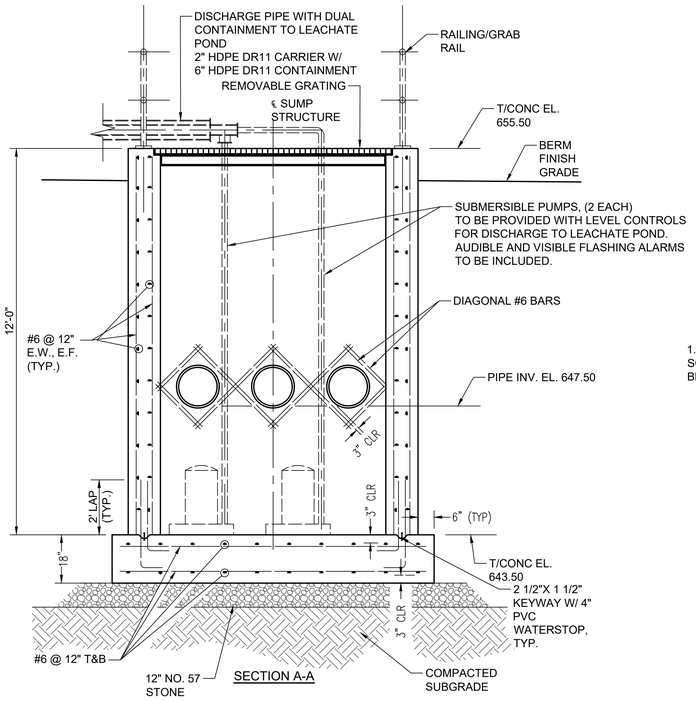
TYPICAL CORNER BAR



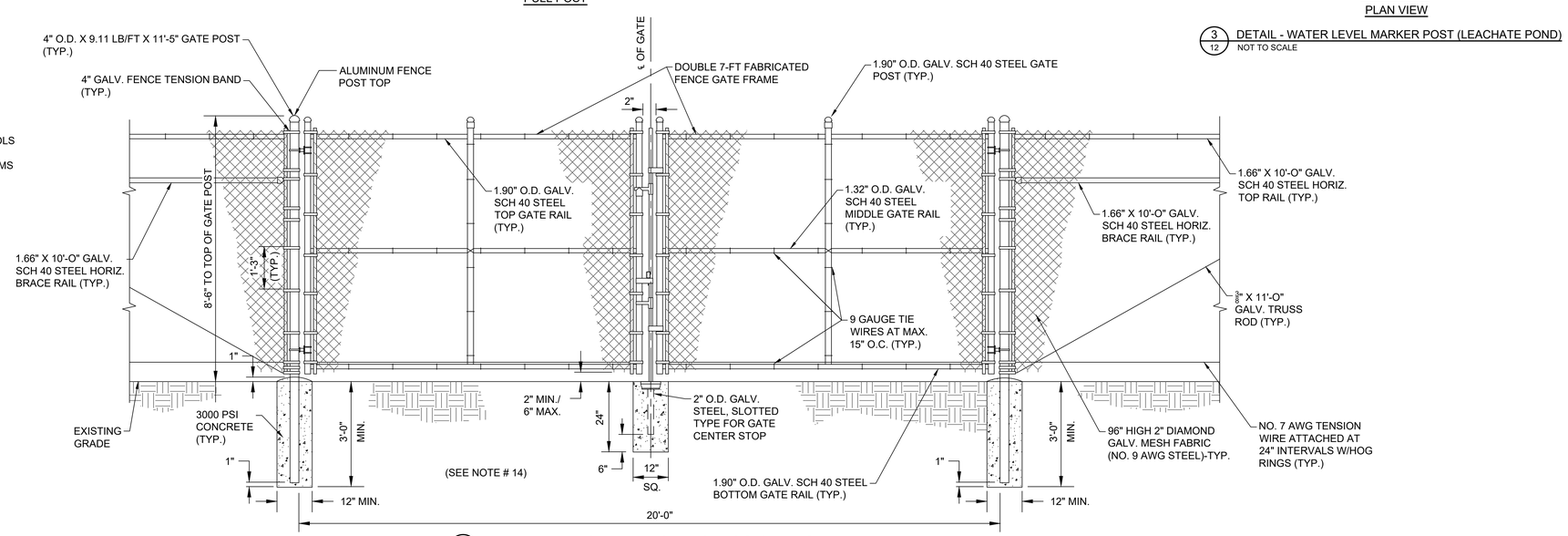
PULL POST



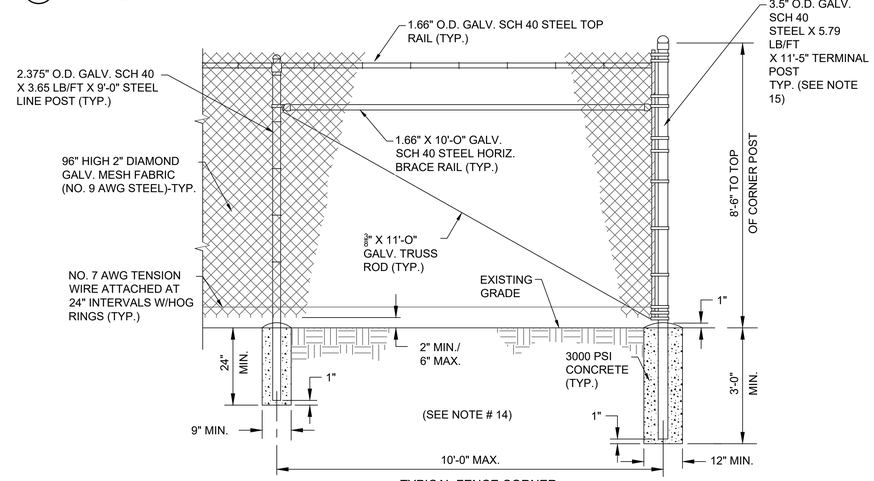
3/12 DETAIL - WATER LEVEL MARKER POST (LEACHATE POND)
NOT TO SCALE



1/12 DETAIL - CONCRETE SUMP STRUCTURE (LEACHATE COLLECTION SYSTEM)
NOT TO SCALE



2/12 DETAIL - 20' WIDE CHAINLINK DOUBLE SWING SECURITY GATE
NOT TO SCALE



TYPICAL FENCE CORNER

FENCE NOTES:
1. FENCE MATERIALS AND ERECTION SHALL BE IN ACCORDANCE WITH THE SOUTHERN COMPANY GENERAL PROVISIONS FOR CHAIN LINK FENCE SPECIFICATION 32 31 13.
2. TIE FENCE FABRIC TO SPIRALED TENSION WIRE BETWEEN POSTS WITH GALVANIZED STEEL HOG RINGS TOP AND BOTTOM AT INTERVALS OF TWO FEET.
3. LIMIT TENSION IN FABRIC AND WIRE TO PREVENT BENDING OF GATE POSTS AND CORNER POSTS.
4. WHEN GATE PANEL IS INSTALLED ON A CORNER POST, THE LATCH SHOULD BE INSTALLED ON THE OPPOSITE PANEL.
5. PULL POSTS WILL BE INSTALLED AT APPROXIMATELY MID-SPAN WHERE SPACING BETWEEN CORNER POSTS OR TERMINAL POSTS EXCEEDS 100 FEET TO PROVIDE FENCE GROUNDING POINT PER NESC, OR WHERE IT IS NECESSARY TO TERMINATE THE FENCE DUE TO A CHANGE IN GRADE. MATERIAL FOR PULL POSTS TO BE SAME AS CORNER POSTS.
6. HINGE TO BE INSTALLED WITH GALVANIZED STEEL BOLT WITH TWO NUTS OR A PREFERRED SELF-LOCKING TYPE NUT TO LOCK BOLT IN PLACE.
7. CHAIN FOR GATE TO BE ONE PIECE; ¼" GALVANIZED STEEL, WELDED, SIZE 5/0, INSERTED BETWEEN GATE FRAME AND TENSION BAR, SUCH THAT A TIGHT FIT IS OBTAINED WITH LOCK INSTALLED FROM OUTSIDE GATE. EXCESS LINKS SHOULD BE REMOVED.
8. FENCE FABRIC TO BE INSTALLED WITH TWIST SELVAGES AT BOTTOM.
9. GATE HINGE TO BE INSTALLED FOR ¼" OR LESS GAP BETWEEN GATE POST AND FRAME TO PREVENT ACCESS WHEN CLOSED AND TO ALLOW APPROX. 180-DEGREES INWARD OPENING.
10. GATE KEEPER TO BE INSTALLED FOR EACH PANEL OF DOUBLE GATES AT MAXIMUM OPEN POSITION.
11. TRUSS RODS ARE NOT REQUIRED WHEN ONLY ONE LINE POST IS IN A CONTINUOUS SPAN OF FABRIC.
12. BOTTOM OF CHAIN LINK FABRIC TO BE INSTALLED A MINIMUM OF 2" TO A MAXIMUM OF 6" ABOVE FINISHED GRADE.
13. USE 3⅛" O.D. X 11'-5" POST FOR CORNER AND PULL POSTS REQUIRING BARBED WIRE TO BE HELD BY 45-DEGREE ARMS, CUT 12" OFF POST FOR A HEIGHT OF 10'-5".
14. DOUBLE DRIVE GATES TO BE INSTALLED TO MINIMIZE OPENING TO 2" MAXIMUM. (CHAIN SHOULD NOT BE SLACK.)
15. CONCRETE TO BE POURED WITH A 1" DOME TO PREVENT PUDDLING NEAR POST.

NOTES:

1. CONCRETE AND METAL SURFACES INSIDE SUMP STRUCTURE SHALL BE COATED WITH CHEMPRUF 2410 LINING SYSTEM OR AN APPROVED EQUAL.

REFERENCES:

1. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. 12087 PROFESSIONAL ENGINEER MARY H. McWHORTER
2/12/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
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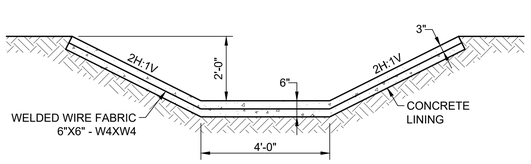
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		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

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							BMS	KDL	–				

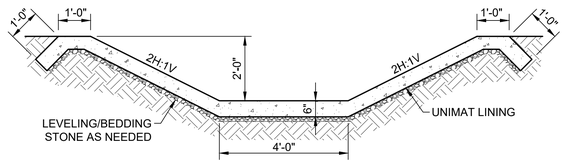
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AS SHOWN	175518236	-	12	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 02/02/2025 USER: MCKINNEY, JIMMY
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OPTION 1 - CONCRETE LINING

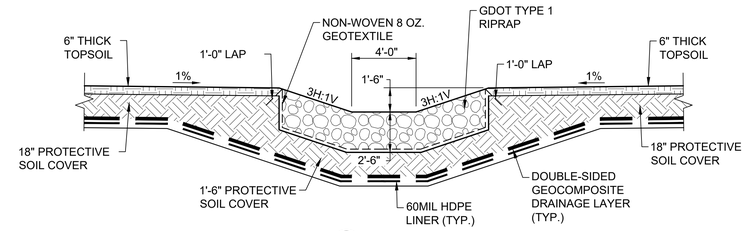


OPTION 2 - UNIMAT LINING

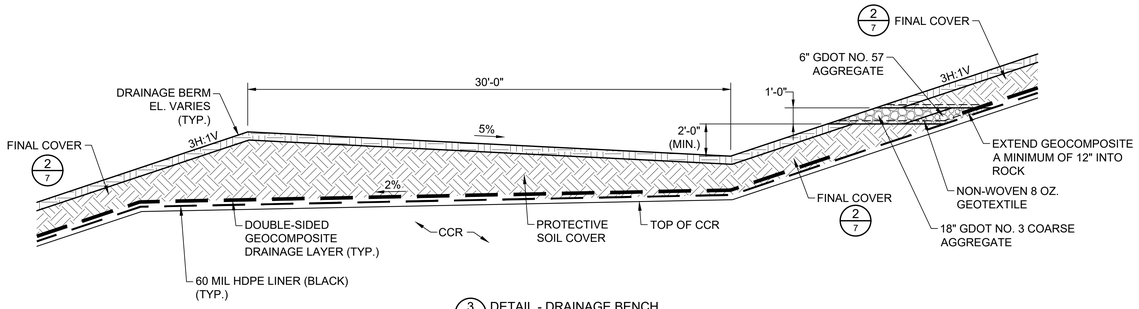
NOTES:

1. THE PERIMETER DITCH (DITCHES 1 AND 2) SHALL BE ARMORED AT THE LOCATIONS SHOWN ON SHEET 3 (STORM WATER PLAN).
2. UNIMAT SHALL CONSIST OF FABRIFORM UNIMAT FABRIC FORMED CONCRETE REVETMENTS, OR APPROVED EQUIVALENT, INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. LEVELING/BEDDING STONE SHALL BE INSTALLED AS NEEDED BELOW THE UNIMAT AND CONSIST OF MATERIALS/PLACEMENT PROCEDURES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

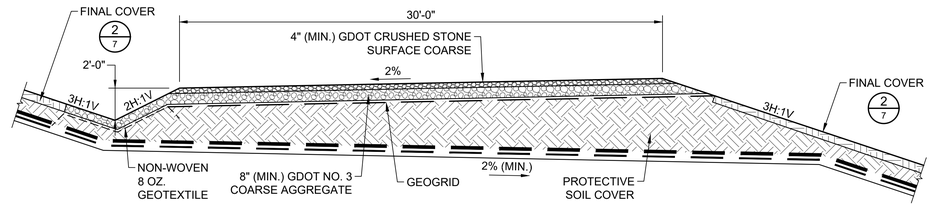
1/13 DETAIL - ARMORED PERIMETER DITCH
SCALE: 1/2"=1'-0"



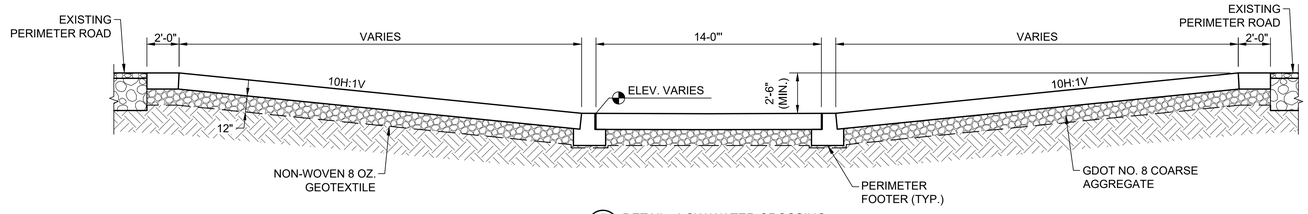
2/13 DETAIL - FLUME
SCALE: 1/4"=1'-0"



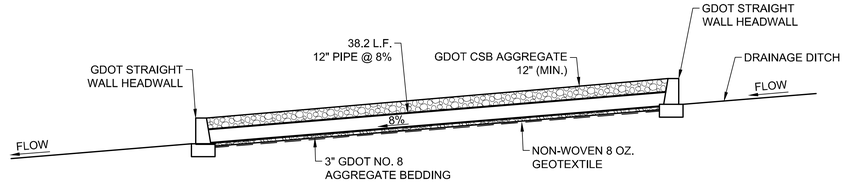
3/13 DETAIL - DRAINAGE BENCH
SCALE: 1/4"=1'-0"



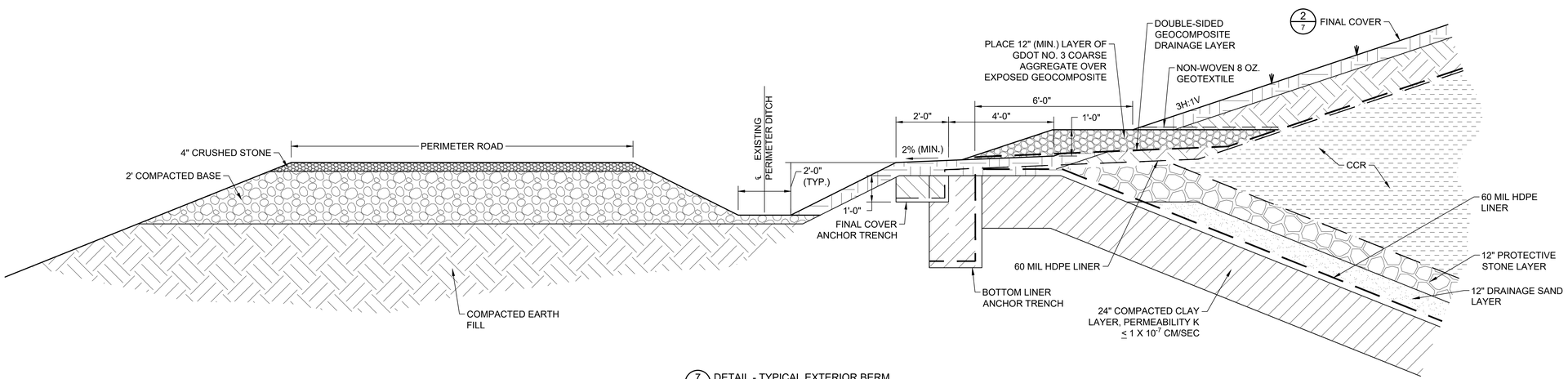
4/13 DETAIL - ACCESS ROAD
SCALE: 1/4"=1'-0"



5/13 DETAIL - LOW WATER CROSSING
SCALE: 1/4"=1'-0"



6/13 DETAIL - ACCESS ROAD CROSSING
SCALE: 1"=5'



7/13 DETAIL - TYPICAL EXTERIOR BERM
SCALE: 1/2"=1'-0"

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE024430 PROFESSIONAL MATTHEW C. VANJOHN ENGINEER 2/11/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
DETAILS

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
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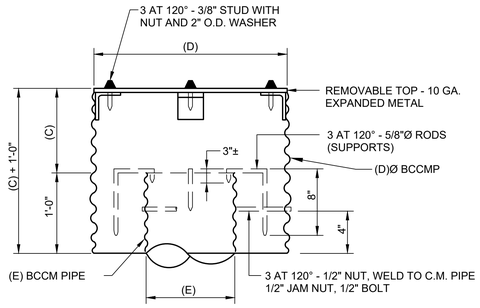
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BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

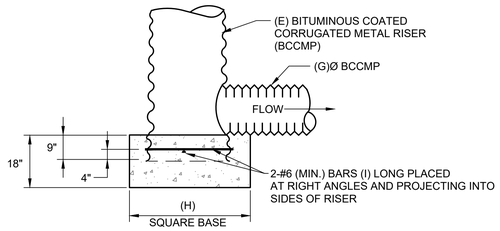
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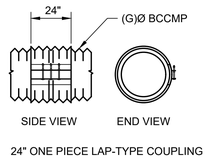
PLOT DATE: 02/05/2025 USER: MCKINNEY, JIMMY
\\SOGSQLFPP1550\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\PLT_PERMIT\REVISHEET_FILES\13_13636_P-AB_DTT.DWG



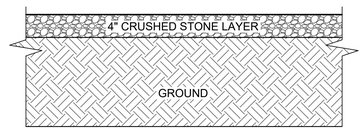
1 14 DETAIL - TRASH RACK
NOT TO SCALE



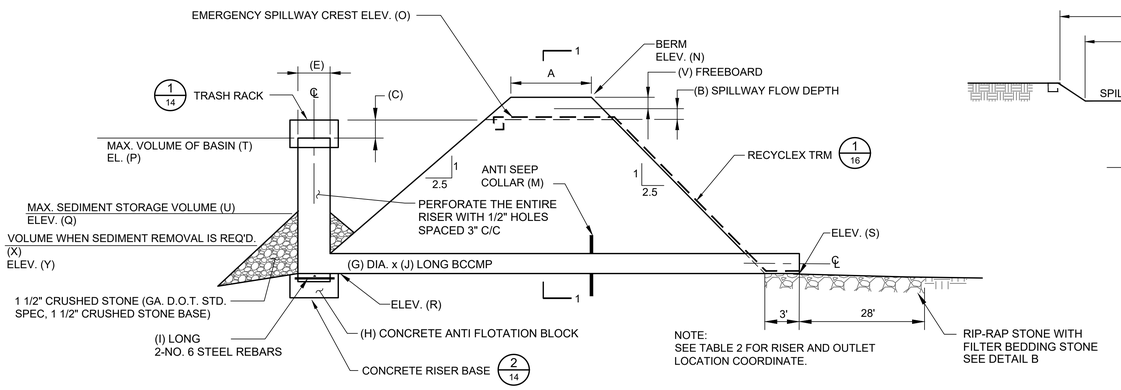
2 14 DETAIL - CONCRETE RISER BASE
NOT TO SCALE



3 14 DETAIL - COUPLING
NOT TO SCALE

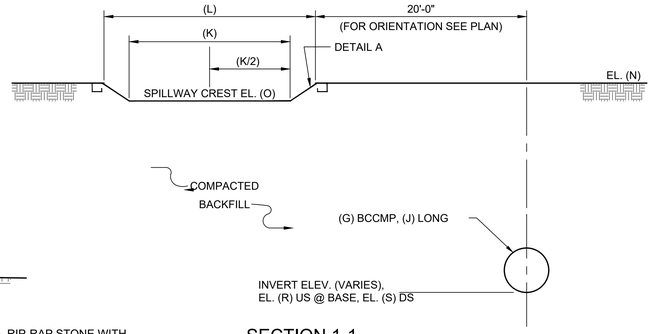


4 14 DETAIL - MARKER BED
NOT TO SCALE



NOTE:
SEE TABLE 2 FOR RISER AND OUTLET LOCATION COORDINATE.

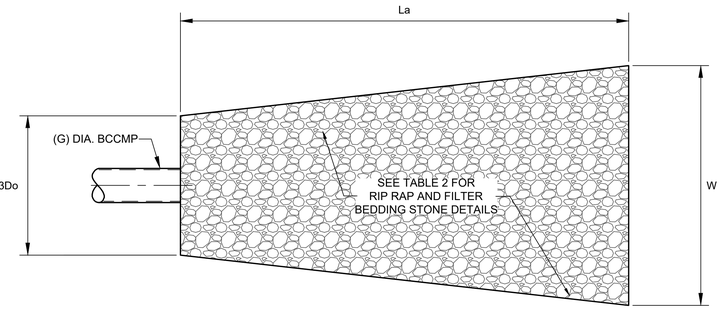
5 14 DETAIL - RISER AND OUTLET PIPE FOR SEDIMENT BASIN AND CLEAR POOL
NOT TO SCALE



SECTION 1-1
NOT TO SCALE

CULVERT OUTLET RIPRAP DETAILS (@ NEW CULVERT ONLY)

Pipe Diam.	Pipe Type	La	3Do	W	Rip Rap	Thick	Filter Bedding Stone
12"	BCCMP	12'	3'	13'	N.S.A. #R-4	18"	N.S.A #FS-2
24"	BCCMP	20'	6'	22'	N.S.A. #R-5	27"	N.S.A #FS-2
30"	BCCMP	22'	7.5'	25'	N.S.A. #R-5	27"	N.S.A #FS-2
36"	BCCMP	24'	9'	27'	N.S.A. #R-5	27"	N.S.A #FS-2
42"	BCCMP	26'	10.5'	30'	N.S.A. #R-5	27"	N.S.A #FS-2
48"	BCCMP	28'	12'	32'	N.S.A. #R-6	36"	N.S.A #FS-3
60"	RCP	32'	15'	37'	N.S.A. #R-6	36"	N.S.A #FS-3



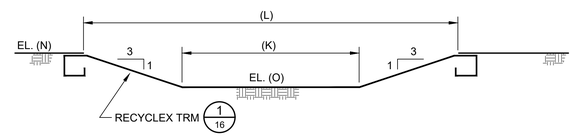
DETAIL B
NOT TO SCALE

TABLE 1 - SEDEMENTATION POND AND CLEAR POOL DETAILS

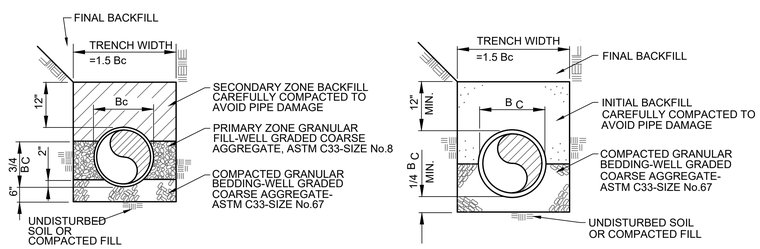
		SEDIMENT BASIN 1	CLEAR POOL 1
TOP WIDTH OF BERM	A	8'	13'
EMERGENCY SPILLWAY FLOW DEPTH	B	0.5'	0.5'
STORAGE LEVEL - DIFFERENCE BETWEEN RISER AND EMER. SPILLWAY	C	0.5'	1.0'
TRASH RACK DIAMETER	D	66"	66"
RISER DIAMETER	E	48"	48"
RISER LENGTH (INCLUDES 9" INTO ANTIFLOTATION BLOCK)	F	5'-9"	5'-9"
PRINCIPAL SPILLWAY PIPE DIAMETER	G	36"	36"
CONCRETE ANTIFLOTAION BLOCK	H	84"x 84"x 18"	84"x 84"x 18"
LENGTH OF RISER ANCHORING BARS (REBAR)	I	78"	78"
LENGTH OF PRINCIPAL SPILLWAY PIPE	J	50'	65'
EMERGENCY SPILLWAY BOTTOM WIDTH	K	20'	20'
EMERGENCY SPILLWAY TOP WIDTH	L	29'	32'
ANTISEEP COLLAR	M	72" x 72"	72" x 72"
ELEVATION OF TOP OF BERM, FT MSL	N	650.0 ft	650.0 ft
ELEVATION OF EMERGENCY SPILLWAY CREST, FT MSL	O	648.5 ft	648.0 ft
ELEVATION OF TOP OF RISER, FT MSL	P	648.0 ft	647.0 ft
MAXIMUM SEDIMENT STORAGE ELEV., FT MSL	Q	644.25 ft	643.0 ft
ELEVATION OF PRINCIPAL SPILLWAY AT INLET, FT MSL (BOTTOM POND EL.)	R	643.0 ft	642.0 ft
ELEVATION OF PRINCIPAL SPILLWAY AT OUTLET, FT MSL	S	642.7 ft	641.35 ft
MAXIMUM VOLUME OF BASIN, CUBIC YARDS	T	24,575	2,989
MAXIMUM SEDIMENT STORAGE VOLUME, CUBIC YARDS	U	3,353	259
FREEBOARD	V	1'	1.5'
CLEAN OUT VOLUME, CUBIC YARDS	X	877	86
ELEVATION WHEN CLEANOUT REQUIRED	Y	643.3	642.3

TABLE 2 - RISER AND OUTLET LOCATION COORDINATES

	RISER CENTER		OUTLET DISCHARGE	
	NORTHING	EASTING	NORTHING	EASTING
SEDIMENT BASIN 1	1,564,456.00	1,953,839.00	1,564,396.00	1,953,839.00
CLEAR POOL 1	1,564,221.98	1,953,755.03	1,564,189.86	1,953,811.59



DETAIL A
NOT TO SCALE



CMP BEDDING DETAIL

RCP BEDDING DETAIL

6 14 DETAIL - PIPE BEDDING
NOT TO SCALE

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY



ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
DETAILS

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
							JJM	KDL	–					AS SHOWN	175518236	-	14	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025, USER: MCKINNEY, JIMMY
G:\GSO\22-PPS\S1\SHARED_PROJECTS\175518236\TECH\CAL_PRODUCTION\DRAWING\SHEET_FILES\14-18236_H9156_P-AB_DTB.DWG

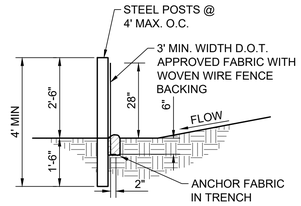
SILT FENCE NOTES

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 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. 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



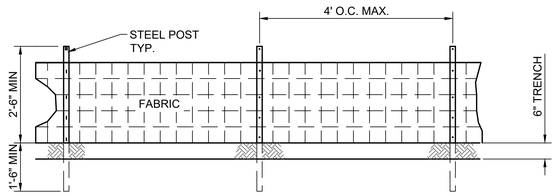
NOTE:
THE SILT FENCE SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE FABRIC.

1/15 DETAIL - TYPICAL SILT FENCE TYPE "C"
NOT TO SCALE

POSTS AND WOVEN WIRE SUPPORT:

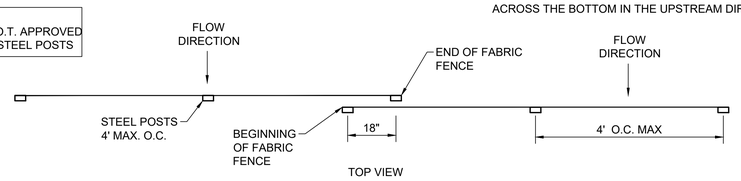
POSTS SHALL BE STEEL AND HAVE A MINIMUM LENGTH OF 4 FEET. POSTS SHALL BE "U", "T", OR "C" SHAPED, OR WOOD FOR TYPE A, AND HAVE A MINIMUM WEIGHT OF 1.3 POUNDS PER FOOT. THE POSTS SHALL HAVE PROJECTIONS FOR FASTENING THE WOVEN WIRE AND FILTER FABRIC. MAXIMUM POSTS SPACING SHALL BE 6 FEET FOR TYPE A OR 4 FEET FOR TYPE C. A WOVEN WIRE SUPPORT FENCE SHALL BE USED WITH TYPE "C" FENCE. THE WIRE FENCE FABRIC SHALL BE AT LEAST 36 INCHES HIGH AND SHALL HAVE AT LEAST 6 HORIZONTAL WIRES. VERTICAL WIRES SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.

FILTER FABRICS FOR TYPE "C" FENCES:
APPROVED SILT FENCE FABRICS ARE LISTED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST #36 (QPL-36).

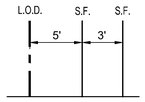


TYPICAL SILT FENCE
FRONT VIEW
NOT TO SCALE

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



TYPICAL SILT FENCE
TYPE C - OVERLAP DETAIL
NOT TO SCALE



SILT FENCE SPACING
NOT TO SCALE

INSTALLATION

1. INSTALL WHERE SHEET FLOW CONDITIONS EXIST.
2. WHERE NO SEDIMENT TRAP/STORMWATER DISPOSAL SYSTEM IS PRESENT, MAXIMUM SLOPE SHALL NOT EXCEED THOSE IN THE TABLE. ALSO, THE DRAINAGE AREA IS NOT TO EXCEED 1/4 ACRE PER 100 FEET OF SILT FENCE.
3. APPROVED SILT FENCE FABRICS ARE LISTED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST #36 (QPL-36). VERIFY FABRIC BY INSPECTION OF FABRIC NAME PRINTED EVERY 100 FEET OF SILT FENCE.
4. INSTALL ACCORDING TO APPROVED PLAN, AS SHOWN.
5. INSTALL ALONG CONTOURS WITH ENDS POINTING UPHILL.
6. DO NOT PLACE IN WATERWAYS OR AREAS OF CONCENTRATED FLOW.
7. START POST INSTALLATION AT THE CENTER OF THE LOWEST POINT WITH REMAINING POSTS SPACED ACCORDING TO FIGURE.
8. PROVIDE A RIPRAP SPLASH PAD OR OTHER OUTLET PROTECTION DEVICE FOR ANY POINT WHERE FLOW MAY TOP THE SEDIMENT FENCE. ENSURE THAT THE MAXIMUM HEIGHT OF THE FENCE AT A PROTECTED, REINFORCED OUTLET DOES NOT EXCEED 1 FT. AND THAT SUPPORT POST SPACING DOES NOT EXCEED 4 FT. FOR TYPE C & 6 FOR TYPE A.
9. USE MINIMUM 18" OVERLAP AT FABRIC ENDS.
10. USE A DOUBLE ROW OF TYPE "C" SILT FENCE ALONG STREAM BUFFERS AND OTHER SENSITIVE AREAS.
11. A TRENCH 6 INCHES IN DEPTH SHALL BE EXCAVATED WITH EQUIPMENT SUCH AS A TRENCHING MACHINE OR MOTOR GRADER; OR, IF EQUIPMENT CANNOT BE OPERATED ON THE SITE, BY HAND.
12. POST INSTALLATION SHALL START AT THE CENTER OF THE LOW POINT (IF APPLICABLE) WITH THE REMAINING POSTS SPACED A MAXIMUM OF 4 OR 6 FEET APART. POSTS SHALL BE INSTALLED WITH AT LEAST 18 INCHES IN THE GROUND. WHERE AN 18 INCH DEPTH IS IMPOSSIBLE TO ACHIEVE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT LOADING.
13. FILTER FABRIC SHALL BE ATTACHED TO THE POST BY WIRE, CORD, POCKETS, STAPLES, NAILS, OR OTHER ACCEPTABLE MEANS. THE FILTER FABRIC SHALL BE INSTALLED IN SUCH A MANNER THAT 8 INCHES OF FABRIC IS LEFT AT THE BOTTOM TO BE BURIED AND A MINIMUM OVERLAP OF 18 INCHES IS PROVIDED AT ALL SPLICE JOINTS. THE FABRIC SHALL BE INSTALLED IN THE TRENCH SUCH THAT 4 TO 6 INCHES OF FABRIC IS AGAINST THE SIDE OF THE TRENCH WITH 2 TO 4 INCHES OF FABRIC ACROSS THE BOTTOM IN THE UPSTREAM DIRECTION.

DEFINITION

A TEMPORARY GRADE CONTROL STRUCTURE, OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRATED FLOW.

CONDITIONS

THIS PRACTICE IS APPLICABLE FOR USE IN SMALL OPEN CHANNELS AND IS NOT TO BE USED IN A LIVE STREAM. SPECIFIC APPLICATIONS INCLUDE:

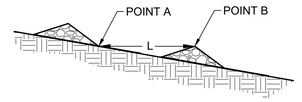
1. TEMPORARY OR PERMANENT SWALES OR DITCHES IN NEED OF PROTECTION DURING ESTABLISHMENT OF GRASS LININGS.
2. TEMPORARY OR PERMANENT SWALES OR DITCHES WHICH, DUE TO THEIR SHORT LENGTH OF SERVICE OR OTHER REASONS, CANNOT RECEIVE A PERMANENT NON-ERODIBLE LINING FOR AN EXTENDED PERIOD OF TIME.
3. OTHER LOCATIONS WHERE SMALL LOCALIZED EROSION AND RESULTING SEDIMENTATION PROBLEMS EXIST.

SPECIFICATIONS:

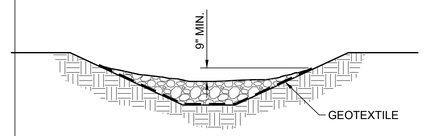
THE FOLLOWING TYPES OF CHECK DAMS ARE USED FOR THIS STANDARD:

STONE CHECK DAM

STONE CHECK DAMS SHOULD BE CONSTRUCTED OF GRADED SIZE 2-10 INCH STONE. MECHANICAL OR HAND PLACEMENT SHALL BE REQUIRED TO ENSURE COMPLETE COVERAGE OF THE ENTIRE WIDTH OF DITCH OR SWALE AND THAT CENTER OF THE DAM IS LOWER THAN THE EDGES. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
A = THE TOE OF THE UPSTREAM CHECK DAM.
B = TOP OF THE DOWNSTREAM CHECK DAM.
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.



SPACING BETWEEN CHECK DAMS
NOT TO SCALE



CROSS SECTION
NOT TO SCALE

SPACING:

TWO OR MORE CHECK DAMS IN A SERIES SHALL BE USED FOR DRAINAGE AREAS GREATER THAN ONE (1) ACRE. MAXIMUM SPACING BETWEEN DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.

GEOTEXTILES:

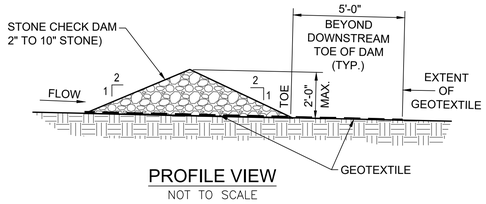
A GEOTEXTILE SHOULD BE USED AS A SEPARATOR BETWEEN THE GRADED STONE AND THE SOIL BASE AND ABUTMENTS. THE GEOTEXTILE WILL PREVENT THE MIGRATION OF SOIL PARTICLES FROM THE SUBGRADE INTO THE GRADED STONE. THE GEOTEXTILE SHALL BE SELECTED/SPECIFIED IN ACCORDANCE WITH AASHTO M288-96 SECTION 7.3, *SEPARATION REQUIREMENTS*, TABLE 3. GEOTEXTILES SHALL BE "SET" INTO THE SUBGRADE SOILS. THE GEOTEXTILE SHALL BE PLACED IMMEDIATELY ADJACENT TO THE SUBGRADE WITHOUT ANY VOIDS AND EXTEND FIVE FEET BEYOND THE DOWNSTREAM TOE OF THE DAM TO PREVENT SCOUR.

MAINTENANCE:

PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE-HALF THE ORIGINAL DAM HEIGHT OR BEFORE. IF THE AREA IS TO BE MOWED, CHECK DAMS SHALL BE REMOVED ONCE FINAL STABILIZATION HAS OCCURRED. OTHERWISE, CHECK DAMS MAY REMAIN IN PLACE PERMANENTLY. AFTER REMOVAL, THE AREA BENEATH THE DAM SHALL BE SEEDED AND MULCHED IMMEDIATELY.

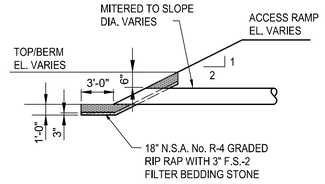
NOTES:

1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

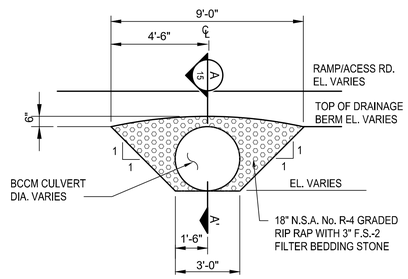


PROFILE VIEW
NOT TO SCALE

2/15 DETAIL - CHECK DAM - STONE CHECK DAM
NOT TO SCALE

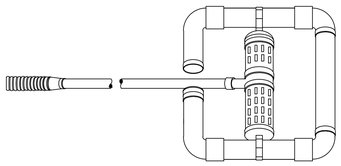


A/15 SECTION
NOT TO SCALE

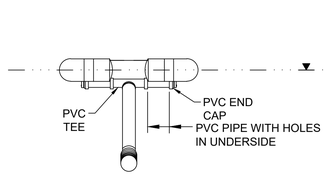


3/15 DETAIL - TYP. CULVERT INLET PROTECTION
NOT TO SCALE

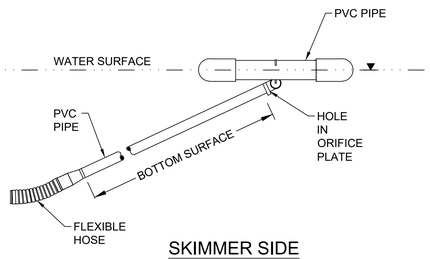
NOTE:
SKIMMER CONFIGURATION SHOWN IS TYPICAL. THE DESIGNER/ENGINEER MAY SUBMIT AN ALTERNATE SKIMMER DETAIL FOR REVIEW.



SKIMMER
PERSPECTIVE



SKIMMER FRONTAL
SECTION VIEW

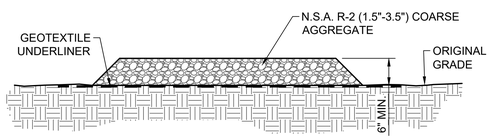


SKIMMER SIDE
SECTION VIEW

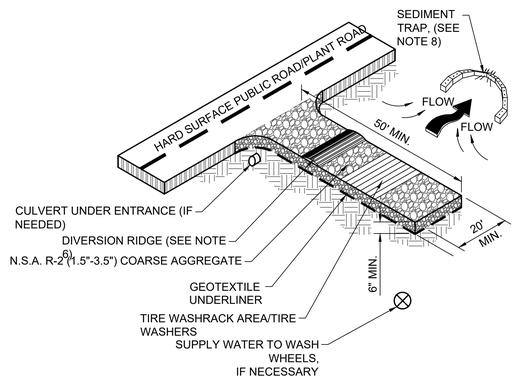
4/15 DETAIL - FLOATING SURFACE SKIMMER
NOT TO SCALE

NOTES:

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



ENTRANCE ELEVATION



EXIT DIAGRAM

5/15 DETAIL - CRUSHED STONE CONSTRUCTION EXIT
NOT TO SCALE

REFERENCES:

1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. 12987 PROFESSIONAL ENGINEER GARY N. McWHORTER 2/12/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
DETAILS

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

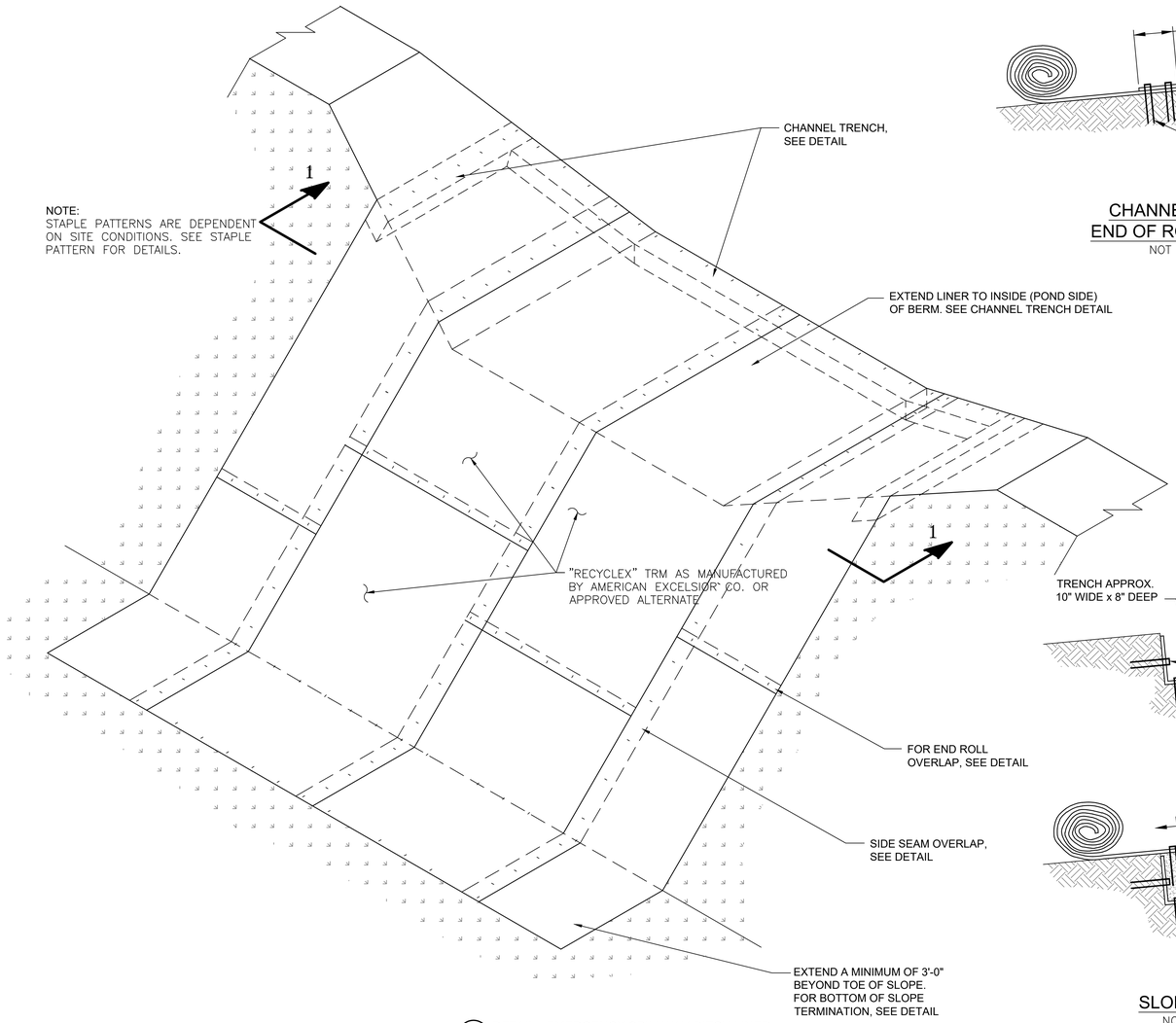
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

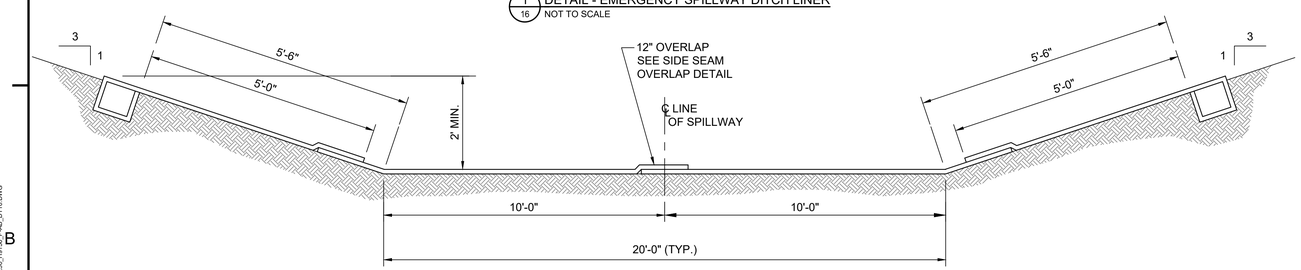
SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	15	FINAL	0

PLOT DATE: 2/6/2025, USER: MCHONEY, JAMY
\\US0622-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVDSHEET_FILES\15_18236_HHSI_P-AB_D15.DWG

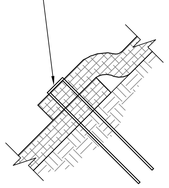
ANSI F: 28x40 AUTOCAD 2023



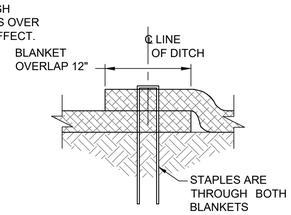
1 / 16 DETAIL - EMERGENCY SPILLWAY DITCH LINER
NOT TO SCALE



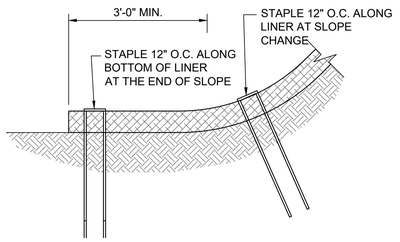
SECTION 1-1
NOT TO SCALE



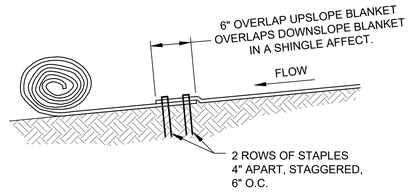
END OF ROLL OVERLAP
NOT TO SCALE



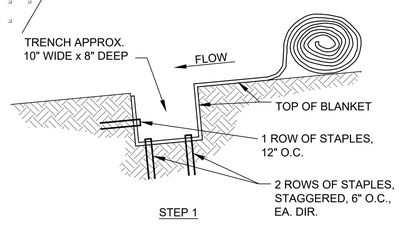
SIDE SEAM OVERLAP STAPLE DETAIL
NOT TO SCALE



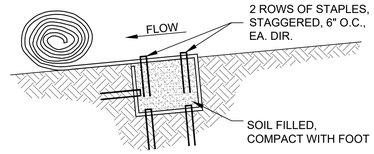
BOTTOM OF SLOPE TERMINATION
NOT TO SCALE



CHANNEL BLANKET END OF ROLL OVERLAP
NOT TO SCALE

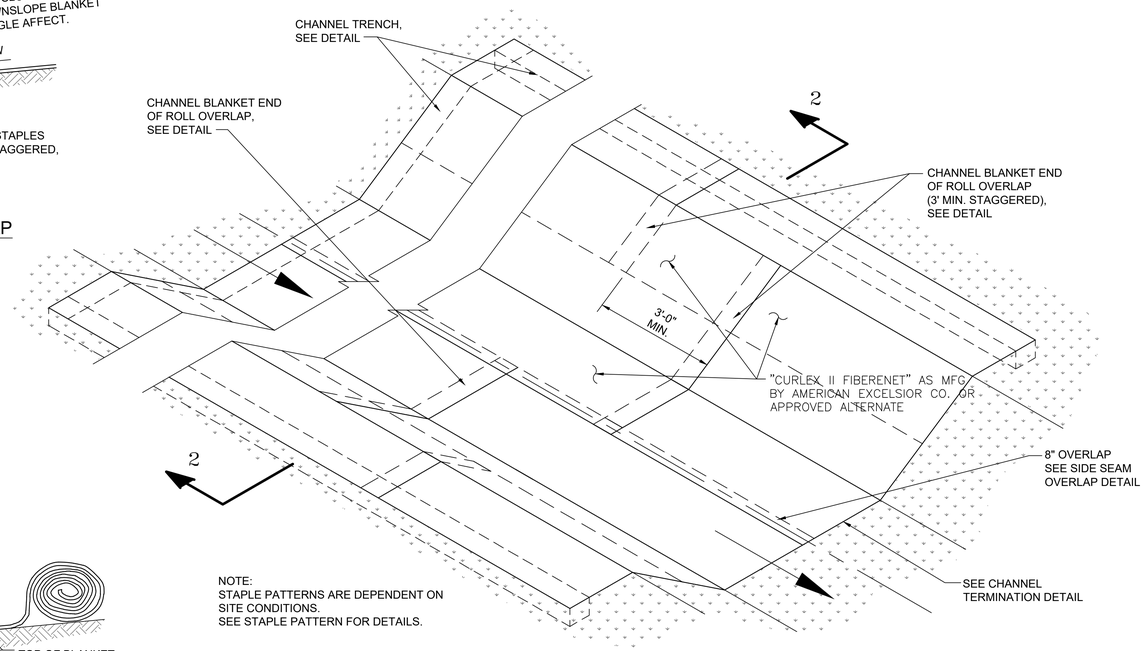


STEP 1

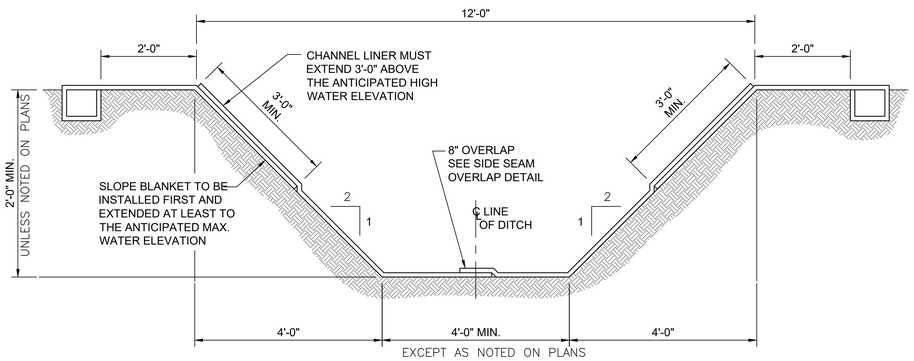


STEP 2

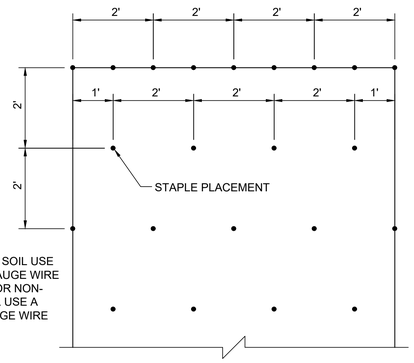
SLOPE TRENCH
NOT TO SCALE



2 / 16 DETAIL - PERIMETER DITCH LINER
NOT TO SCALE

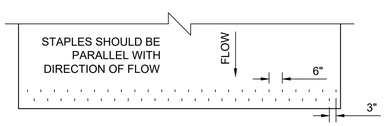


SECTION 2-2
NOT TO SCALE

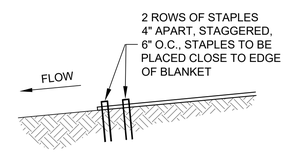


NOTE:
FOR COHESIVE SOIL USE A 6"x1"x6" 11 GAUGE WIRE STAPLE AND FOR NON-COHESIVE SOIL USE A 8"x2"x8" 11 GAUGE WIRE STAPLE.

STAPLE PATTERN
NOT TO SCALE



CHANNEL TERMINATION PLAN
NOT TO SCALE



CHANNEL TERMINATION
NOT TO SCALE

REFERENCES:
1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

GEORGIA REGISTERED No. 12987 PROFESSIONAL Engineer MARY N. McWHORTER 2/12/25

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS A&B
DETAILS

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR.	ELECT APPR.	I/C APPR.	MECH APPR.	MGR APPR.
JJM	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CON'T'D	REV.
AS SHOWN	175518236	-	16	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/12/2025 USER: MCWHORTE, JIMMY
\\US0022-PPFSS01\GAMED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISHEET_FILE\816_18236_H9160_P-AB_GT10.DWG



GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL = 2'

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- RAILROAD
- OVERHEAD ELECTRIC LINE
- FIBER OPTIC LINE
- CHAIN LINK FENCE
- STORM SEWER PIPE/CULVERT
- TREE LINE
- EDGE OF WATER
- WETLANDS BUFFER
- STREAM BUFFER
- POWER POLE
- SURVEY CONTROL BENCHMARK
- PROPERTY LINE
- 50' OR 200' BUFFER
- SITE BOUNDARY
- WETLANDS
- TELEPHONE POST

GEORGIA REGISTERED No. PEO44[illegible] PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
EXISTING CONDITIONS PLANS

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	17	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/4/2025 USER: MCHAMBY, JIMMY
\\SI0522-PFPS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISHEET_FILE\17_18236_S1800_P-CD_EC1.DWG

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.

2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

LEGEND

- 500 — PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- 500 — EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- RAILROAD
- OHE — OVERHEAD ELECTRIC LINE
- FO — FIBER OPTIC LINE
- X — CHAIN LINK FENCE
- STORM SEWER PIPE/CULVERT
- TREE LINE
- EDGE OF WATER
- WETLANDS BUFFER
- STREAM BUFFER
- PP — POWER POLE
- SURVEY CONTROL BENCHMARK
- PROPERTY LINE
- 50' OR 200' BUFFER
- SITE BOUNDARY
- WETLANDS
- PROPOSED PERIMETER & ACCESS ROADS
- TP — TELEPHONE POST

NOTE:
ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A MAXIMUM HORIZONTAL ACCELERATION OF 0.24G.

36" CMP
INV. 652.28' (IN)
INV. 651.97' (OUT)

48" CMP
INV. 655.15' (IN)
INV. 654.10' (OUT)

2/29 SITE ACCESS ROAD

1/27

PERIMETER ROAD 3/29

LIMITS OF GRADING

24" CMP
INV. 647.06' (OUT)

SITE ACCESS ROAD 2/29

1/26

2/29 SITE ACCESS ROAD

RISER 5/35

CLEAR POOL 2

LOW WATER CROSSING 6/34

5/35 EMERGENCY SPILLWAY

SEDIMENT BASIN 2

2/26

5/35 RISER

GEODETIC MARKER NAIL & CAP - NC14
STATE PLANE COORDINATES
N 1,564,363.05
E 1,955,692.91
ELEV. 660.37'
(CONTROL BENCHMARK)

UG FIBER OPTIC CABLE

CENTRAL OF GEORGIA RAILROAD (100' R/W)

EX 6'X5' CONC. CULVERT
INV. IN EL.635.78'
INV. OUT EL.635.55'

EX. 36" CMP
INV. IN EL.635.39'
INV. OUT EL.634.94'

36" CMP
INV. IN EL.635.60'
INV. OUT EL.634.76'

EX. 24" RCP
INV. IN EL.644.88'
INV. OUT EL.643.74'

HAUL ROAD

WATER TREE

GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL = 2'

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. YAUSTHAL 2/6/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
SUBGRADE PLAN

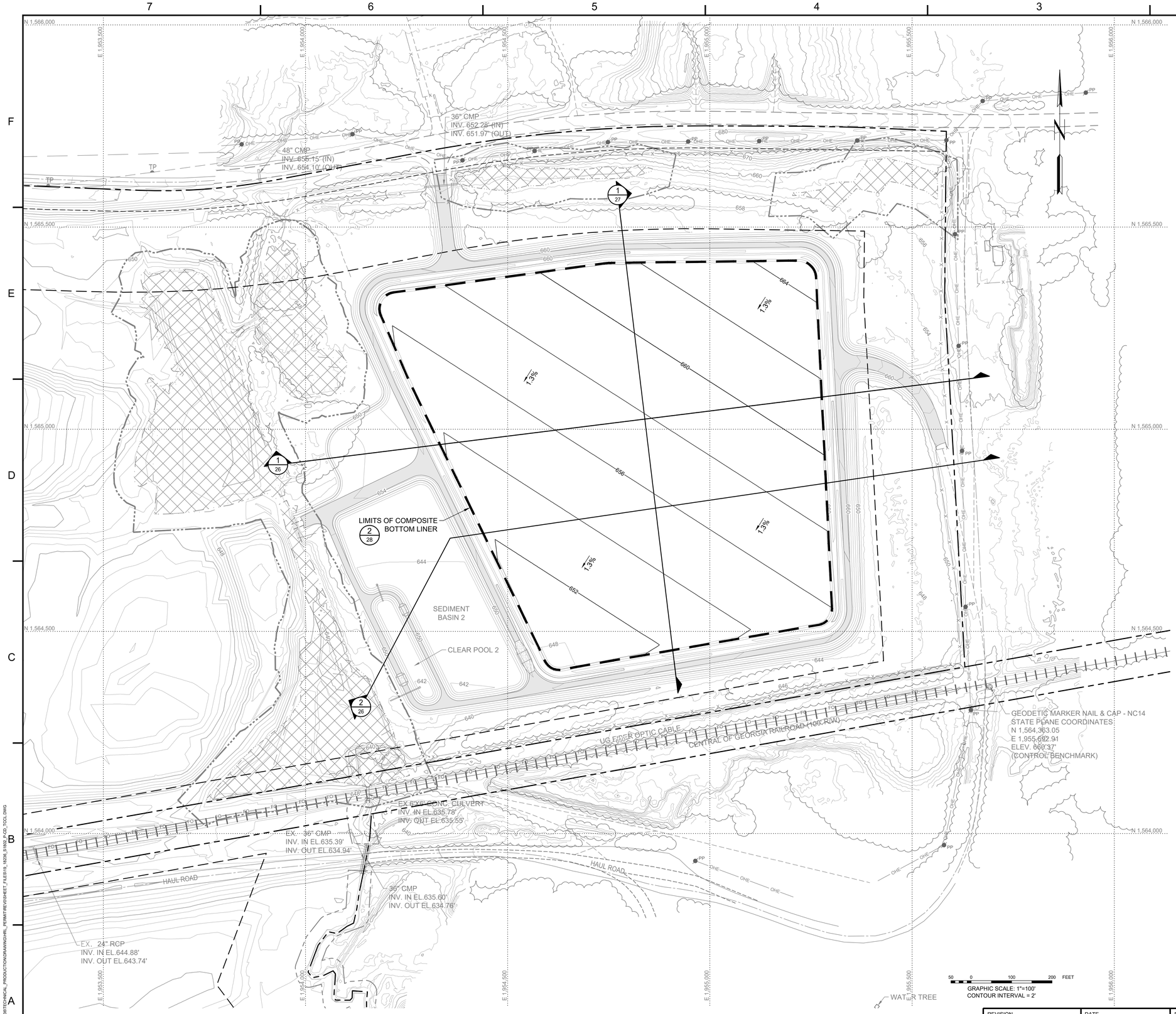
REVISION	DATE	REVISION	0	DATE	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION			

BY	CHK'D	CIVIL APPR.	ELECT APPR.	I/C APPR.	MECH APPR.	MGR APPR.	BY	CHK'D	CIVIL APPR.	ELECT APPR.	I/C APPR.	MECH APPR.	MGR APPR.	SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
							JJM	KDL	–					AS SHOWN	175518236	-	18	FINAL	0

ANSI F: 28x40

AUTOCAD 2023

PLOT DATE: 2/6/2025 | USER: MCKINNEY, JIMMY
\\US0622-PPFSS01\SHARED_PROJECTS\175518236\TECH\CAL_PRODUCTION\DRAWING\HRL_PERMIT\REVS\SHEET_FILES\18_18236_S1801_P-CD_SG1.DWG



MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

LEGEND

- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- RAILROAD
- OVERHEAD ELECTRIC LINE
- FIBER OPTIC LINE
- CHAIN LINK FENCE
- STORM SEWER PIPE/CULVERT
- TREE LINE
- EDGE OF WATER
- WETLANDS BUFFER
- STREAM BUFFER
- POWER POLE
- SURVEY CONTROL BENCHMARK
- PROPERTY LINE
- 50' OR 200' BUFFER
- SITE BOUNDARY
- WETLANDS
- PROPOSED PERIMETER & ACCESS ROADS
- TELEPHONE POST
- LIMITS OF COMPOSITE BOTTOM LINER

GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL = 2'

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE024422 MATTHEW C. VALOCHAY 2/11/25

ISSUED FOR PERMIT

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
TOP OF COMPACTED CLAY LAYER PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	19	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/4/2025 USER: MCHANEY, JIMMY
\\SI0502-PFPSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVSHEET_FILES\19_18206_S1802_P-CD_TCCL.DWG

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

LEGEND

- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- RAILROAD
- OVERHEAD ELECTRIC LINE
- FIBER OPTIC LINE
- CHAIN LINK FENCE
- STORM SEWER PIPE/CULVERT
- TREE LINE
- EDGE OF WATER
- WETLANDS BUFFER
- STREAM BUFFER
- POWER POLE
- SURVEY CONTROL BENCHMARK
- PROPERTY LINE
- 50' OR 200' BUFFER
- SITE BOUNDARY
- WETLANDS
- PROPOSED PERIMETER & ACCESS ROADS
- TELEPHONE POST

36" CMP
INV. 652.28' (IN)
INV. 651.97' (OUT)

48" CMP
INV. 655.15' (IN)
INV. 654.10' (OUT)

PERIMETER ROAD

1/27 — LEACHATE COLLECTION SYSTEM CLEANOUT (TYP.)

1/31 — LEACHATE TANK LAYOUT

TRUCK LOADOUT PAD

1/26

8" STORMWATER DRAIN

4"X8" DUAL ENCASED SDR17 HDPE LEACHATE FORCEMAIN 5/30

SEDIMENT BASIN 2

CLEAR POOL 2

2/26

LEACHATE COLLECTION SUMP 1/30

LEACHATE COLLECTION PIPING AND VAULTS 2/33

STANDARD 6' DIA. MANHOLE (TYP.)

LEACHATE COLLECTOR MAIN PIPE (TYP.)

LEACHATE COLLECTOR LATERAL PIPE (TYP.)

TYPICAL UNDERDRAIN

CLEANOUT (TYP.)

COMPOSITE BOTTOM LINER SYSTEM

4" PIPE 0.7%
4" PIPE 1.0%
4" PIPE 1.3%
6" PIPE 1.0%
6" PIPE 1.3%
6" PIPE 0.9%

GEODETIC MARKER NAIL & CAP - NC14
STATE PLANE COORDINATES
N 1,564,363.05
E 1,955,682.91
ELEV. 660.37'
(CONTROL BENCHMARK)

CENTRAL OF GEORGIA RAILROAD (100' R/W)

UG FIBER OPTIC

EX 6'X6' CONC. CULVERT
INV. IN EL.635.78'
INV. OUT EL.635.55'

EX. 36" CMP
INV. IN EL.635.39'
INV. OUT EL.634.94'

36" CMP
INV. IN EL.635.60'
INV. OUT EL.634.76'

EX. 24" RCP
INV. IN EL.644.88'
INV. OUT EL.643.74'

HAUL ROAD

WATER TREE

GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL = 2'

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

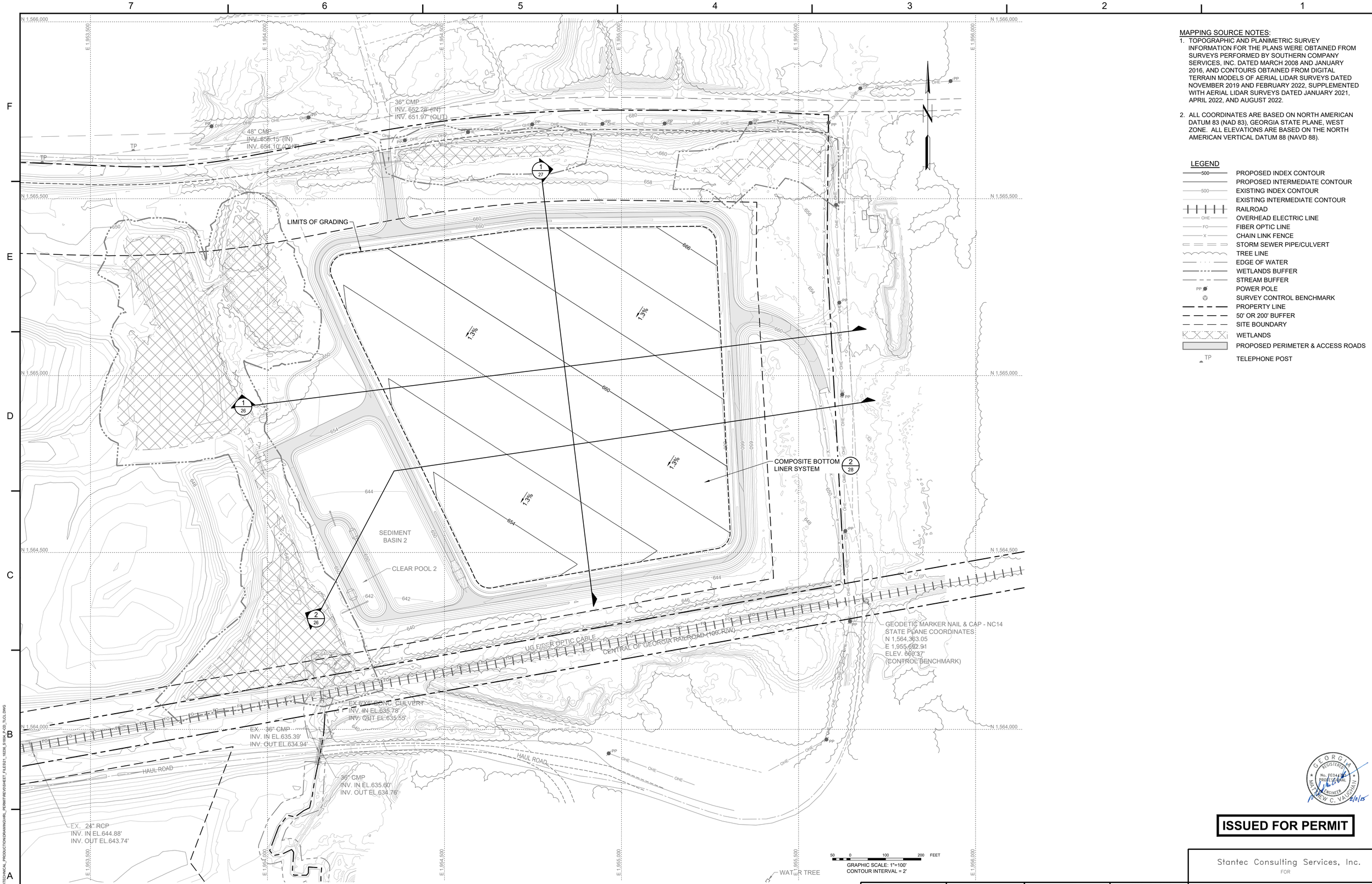
Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
LEACHATE COLLECTION PIPE PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	20	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025 USER: MCHAMEY, JIMMY
\\US0522-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVSHEET_FILES\20_18208_S1803_P-CD_LCP.DWG



MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

LEGEND

- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- RAILROAD
- OVERHEAD ELECTRIC LINE
- FIBER OPTIC LINE
- CHAIN LINK FENCE
- STORM SEWER PIPE/CULVERT
- TREE LINE
- EDGE OF WATER
- WETLANDS BUFFER
- STREAM BUFFER
- POWER POLE
- SURVEY CONTROL BENCHMARK
- PROPERTY LINE
- 50' OR 200' BUFFER
- SITE BOUNDARY
- WETLANDS
- PROPOSED PERIMETER & ACCESS ROADS
- TELEPHONE POST

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE044475 MATTHEW C. VALJOVAC 2/10/25

ISSUED FOR PERMIT

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV.
AS SHOWN	175518236	-	21	FINAL	0

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
TOP OF LEACHATE COLLECTION LAYER PLAN

PLOT DATE: 2/7/2025, USER: MDOWNEY, JIMMY
\\US\2022-PPFSS01\SHARED_PROJ\ESTI\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISHEET_FILES\21_18236_51804_P-CD_TLCL.DWG

ANSI F: 28x40 AUTOCAD 2023

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

LEGEND

- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- RAILROAD
- OVERHEAD ELECTRIC LINE
- FIBER OPTIC LINE
- CHAIN LINK FENCE
- STORM SEWER PIPE/CULVERT
- TREE LINE
- EDGE OF WATER
- WETLANDS BUFFER
- STREAM BUFFER
- POWER POLE
- SURVEY CONTROL BENCHMARK
- PROPERTY LINE
- 50' OR 200' BUFFER
- SITE BOUNDARY
- WETLANDS
- PROPOSED PERIMETER & ACCESS ROADS
- TELEPHONE POST

LIMITS OF GRADING

LIMITS OF FINAL COVER
LINER/ANCHOR TRENCH

SEDIMENT BASIN 2

CLEAR POOL 2

36" CMP
INV. 652.28' (IN)
INV. 651.97' (OUT)

48" CMP
INV. 655.15' (IN)
INV. 651.10' (OUT)

GEODETIC MARKER NAIL & CAP - NC14
STATE PLANE COORDINATES
N 1,564,363.05
E 1,955,692.91
ELEV. 660.37
(CONTROL BENCHMARK)

UG FIBER OPTIC CABLE

CENTRAL OF GEORGIA RAILROAD (100' ROW)

EX 6'X6' CONC. CULVERT
INV. IN EL 635.78'
INV. OUT EL 635.55'

EX. 36" CMP
INV. IN EL 635.39'
INV. OUT EL 634.94'

36" CMP
INV. IN EL 635.60'
INV. OUT EL 634.76'

EX. 24" RCP
INV. IN EL 644.88'
INV. OUT EL 643.74'

HAUL ROAD

WATER TREE

GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL = 2'

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE043[illegible] PROFESSIONAL MATTHEW C. VAUGHAN ENGINEER 2/11/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
TOP OF WASTE PLAN

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	22	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025 USER: MDONNEY JMMY
\\US922-PPFSS01\SHARED_PROJECTS\175518236\TECH\CAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISIONS\SHEET_FILES\22_18356_S1836_P-CD_TW1.DWG

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

LEGEND

- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- RAILROAD
- OVERHEAD ELECTRIC LINE
- FIBER OPTIC LINE
- CHAIN LINK FENCE
- STORM SEWER PIPE/CULVERT
- TREE LINE
- EDGE OF WATER
- WETLANDS BUFFER
- STREAM BUFFER
- POWER POLE
- SURVEY CONTROL BENCHMARK
- PROPERTY LINE
- 50' OR 200' BUFFER
- SITE BOUNDARY
- WETLANDS
- PROPOSED PERIMETER & ACCESS ROADS
- PROPOSED HAUL ROAD
- TELEPHONE POST

36" CMP
INV. 652.28' (IN)
INV. 651.97' (OUT)

48" CMP
INV. 655.15' (IN)
INV. 654.10' (OUT)

BENCH (TYP.) 6/28

LIMITS OF GRADING

10/34 BOX CULVERT HEADWALL

BOX CULVERT 9/34

FLUME (TYP.) 5/28

4/29 LANDFILL ACCESS ROAD (TYP.)

1/26

1/27

FINAL COVER SYSTEM 1/28

SEDIMENT BASIN 2

CLEAR POOL 2

2/26

GEODETIC MARKER NAIL & CAP - NC14
STATE PLANE COORDINATES
N 1,564,363.05
E 1,955,692.91
ELEV. 660.37'
(CONTROL BENCHMARK)

UG FIBER OPTIC CABLE

CENTRAL OF GEORGIA RAILROAD (100' ROW)

EX. 6'X5' CONC. CULVERT
INV. IN EL.635.78'
INV. OUT EL.635.55'

EX. 36" CMP
INV. IN EL.635.39'
INV. OUT EL.634.94'

36" CMP
INV. IN EL.635.60'
INV. OUT EL.634.76'

HAUL ROAD

EX. 24" RCP
INV. IN EL.644.88'
INV. OUT EL.643.74'

WATER TREE

GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL = 2'

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044378 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/10/15

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
FINAL GRADE PLAN

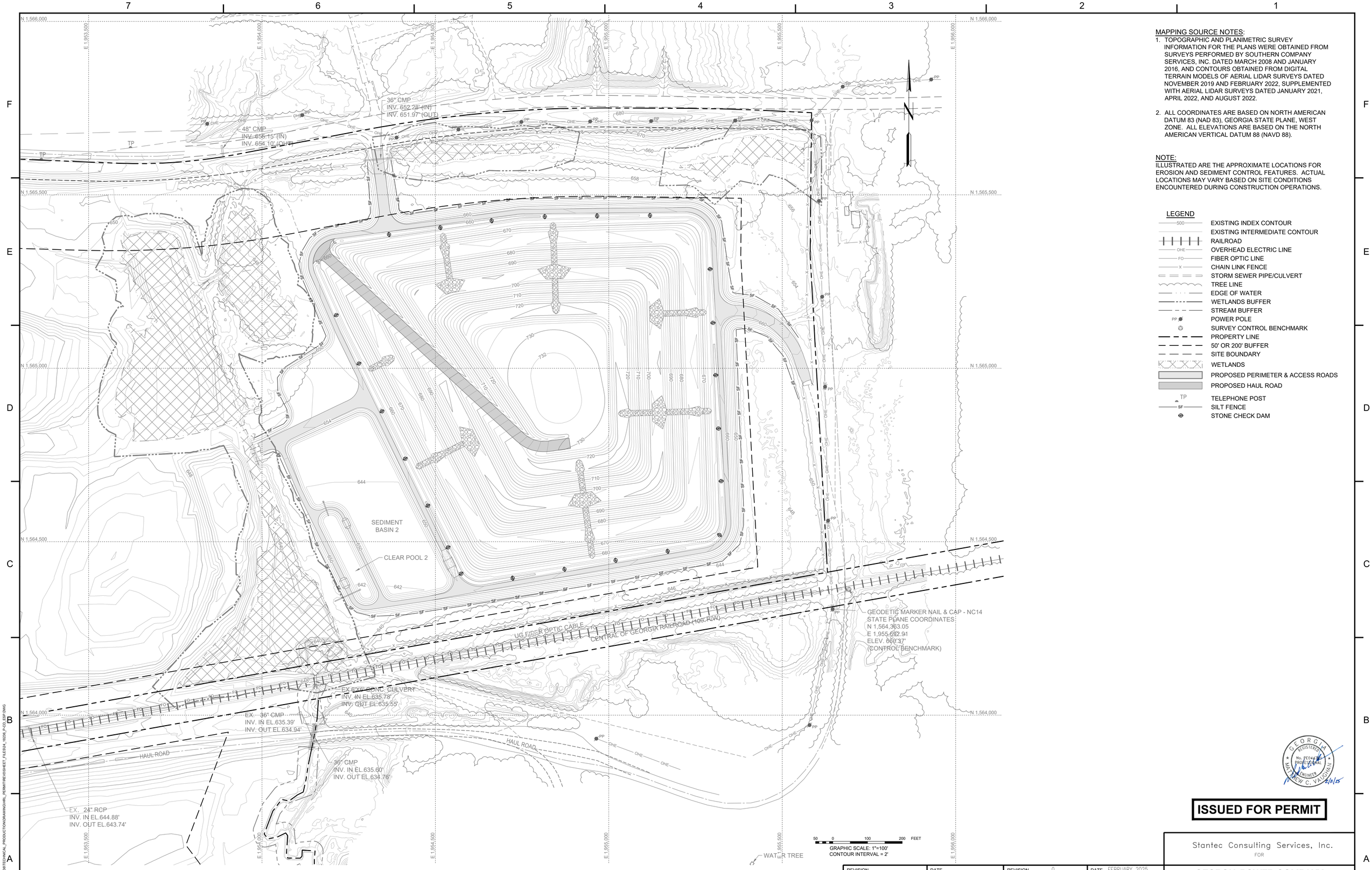
REVISION	DATE
0	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	23	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025 USER: MDONKEY AMPW
\\US0622-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVIS\SHEET_FILES\23_18236_S1607_P-CD_FGP.DWG



MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTE:
ILLUSTRATED ARE THE APPROXIMATE LOCATIONS FOR EROSION AND SEDIMENT CONTROL FEATURES. ACTUAL LOCATIONS MAY VARY BASED ON SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION OPERATIONS.

LEGEND

- 500 — EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- RAILROAD
- OHE — OVERHEAD ELECTRIC LINE
- FO — FIBER OPTIC LINE
- X — CHAIN LINK FENCE
- STORM SEWER PIPE/CULVERT
- TREE LINE
- EDGE OF WATER
- WETLANDS BUFFER
- STREAM BUFFER
- PP — POWER POLE
- SURVEY CONTROL BENCHMARK
- PROPERTY LINE
- 50' OR 200' BUFFER
- SITE BOUNDARY
- WETLANDS
- PROPOSED PERIMETER & ACCESS ROADS
- PROPOSED HAUL ROAD
- TP — TELEPHONE POST
- SF — SILT FENCE
- STONE CHECK DAM

50 0 100 200 FEET
GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL = 2'

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044[illegible] PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN
2/14/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
EROSION AND SEDIMENT CONTROL PLAN

REVISION	DATE

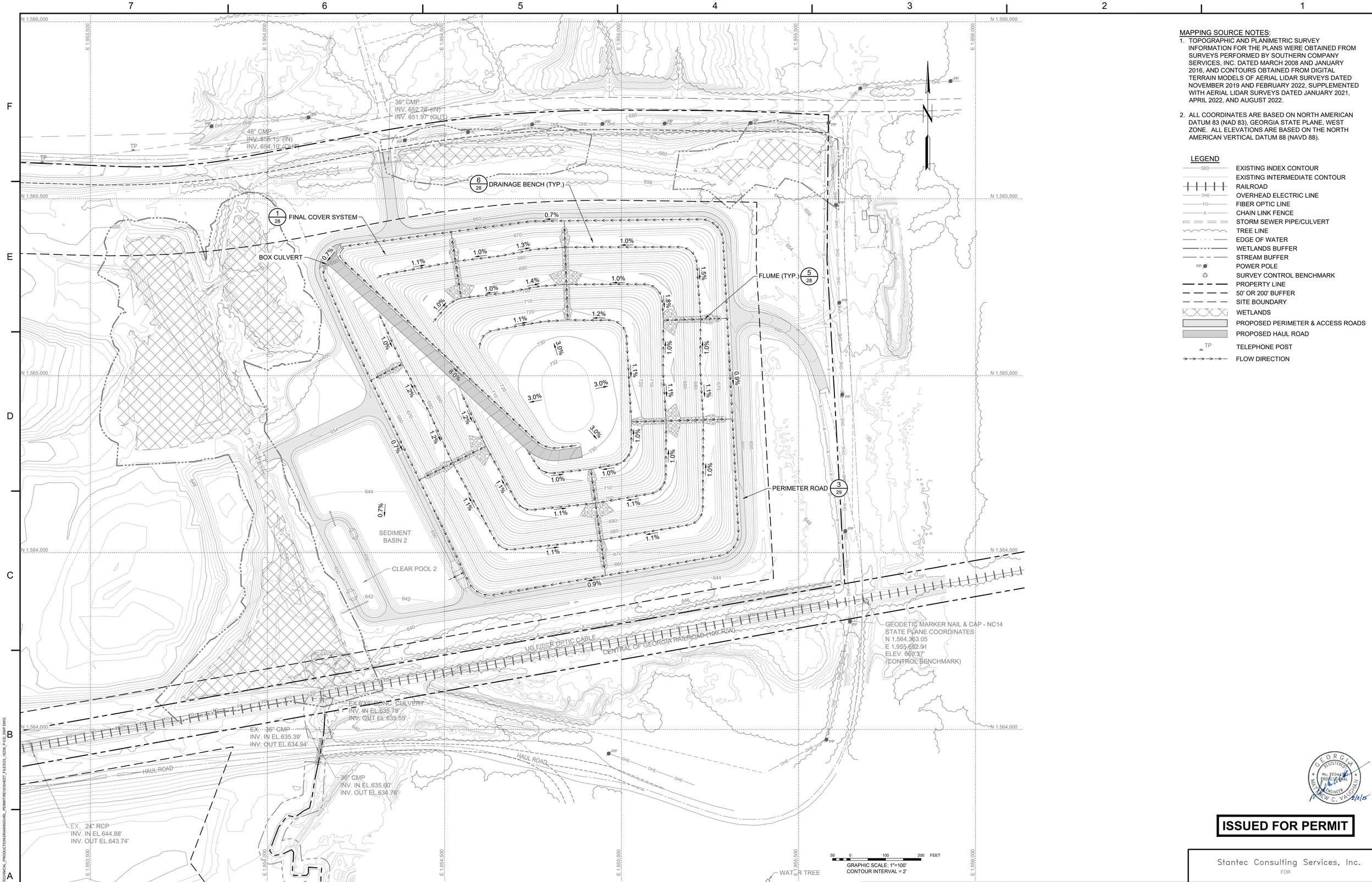
REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	SCALE	PROJ.I.D.	DRAWING NUMBER	SH.	CONT'D	REV.
BMS	KDL	–					AS SHOWN	175518236	-	24	FINAL	0

PLOT DATE: 2/5/2025 USER: MCKINNEY, JIMMY
\\US0GO-PFPS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\RIL_PERMIT\REVISHEET_FILES\24_18236_P-CD_ESP.DWG

ANSI F: 28x40 AUTOCAD 2023



GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL = 2'

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
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LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- RAILROAD
- OVERHEAD ELECTRIC LINE
- FIBER OPTIC LINE
- CHAIN LINK FENCE
- STORM SEWER PIPE/CULVERT
- TREE LINE
- EDGE OF WATER
- WETLANDS BUFFER
- STREAM BUFFER
- POWER POLE
- SURVEY CONTROL BENCHMARK
- PROPERTY LINE
- 50' OR 200' BUFFER
- SITE BOUNDARY
- WETLANDS
- PROPOSED PERIMETER & ACCESS ROADS
- PROPOSED HAUL ROAD
- TELEPHONE POST
- FLOW DIRECTION

GEORGIA REGISTERED No. PE044[illegible] PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 5/1/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
STORMWATER MANAGEMENT PLAN

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

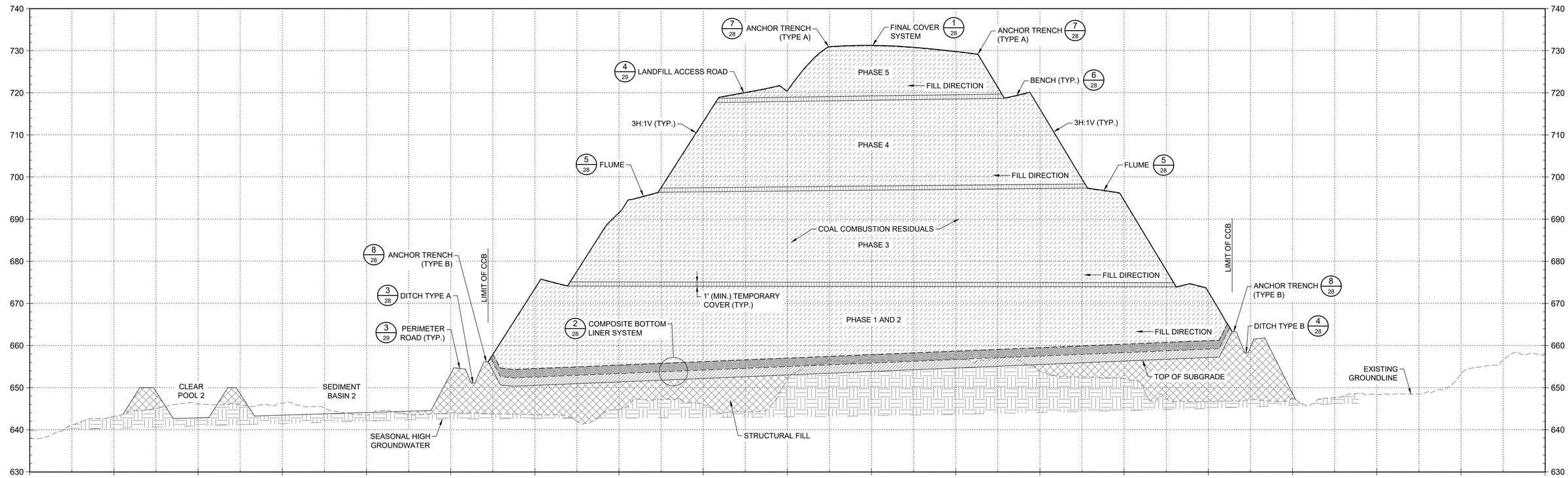
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	25	FINAL	0

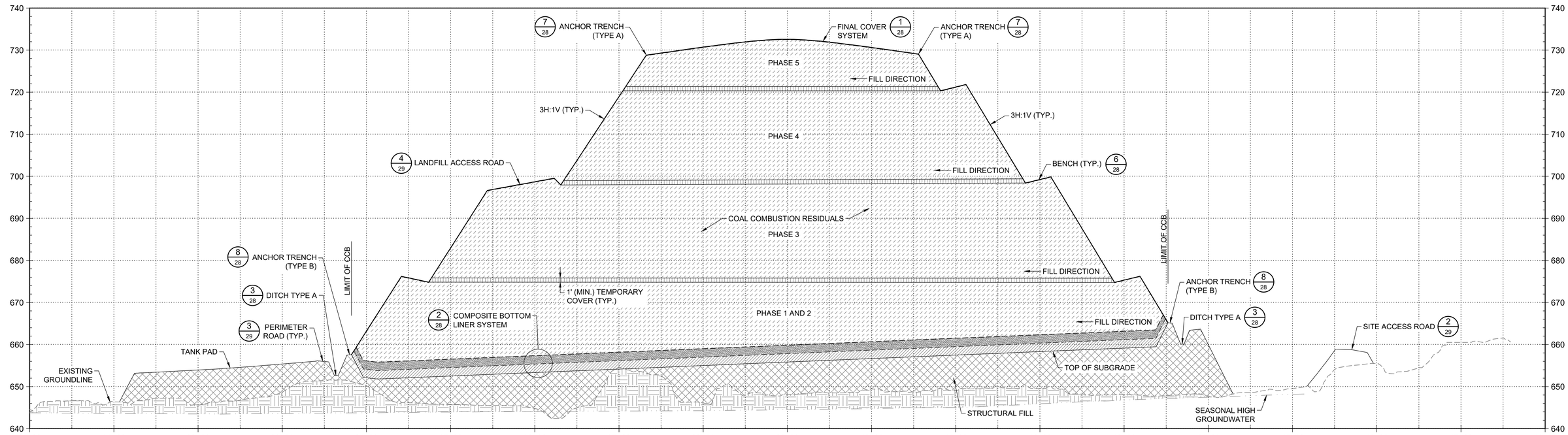
ANSI F: 28x40

AUTOCAD 2023

PLOT DATE: 1/6/2025, USER: MCKINNEY, JIMMY
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2/26 DETAIL CROSS SECTION E-E'
SCALE: 1"=50' (HORIZONTAL)
1"=10' (VERTICAL)



1/26 DETAIL CROSS SECTION D-D'
SCALE: 1"=50' (HORIZONTAL)
1"=10' (VERTICAL)

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/25

ISSUED FOR PERMIT

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
CROSS SECTIONS

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

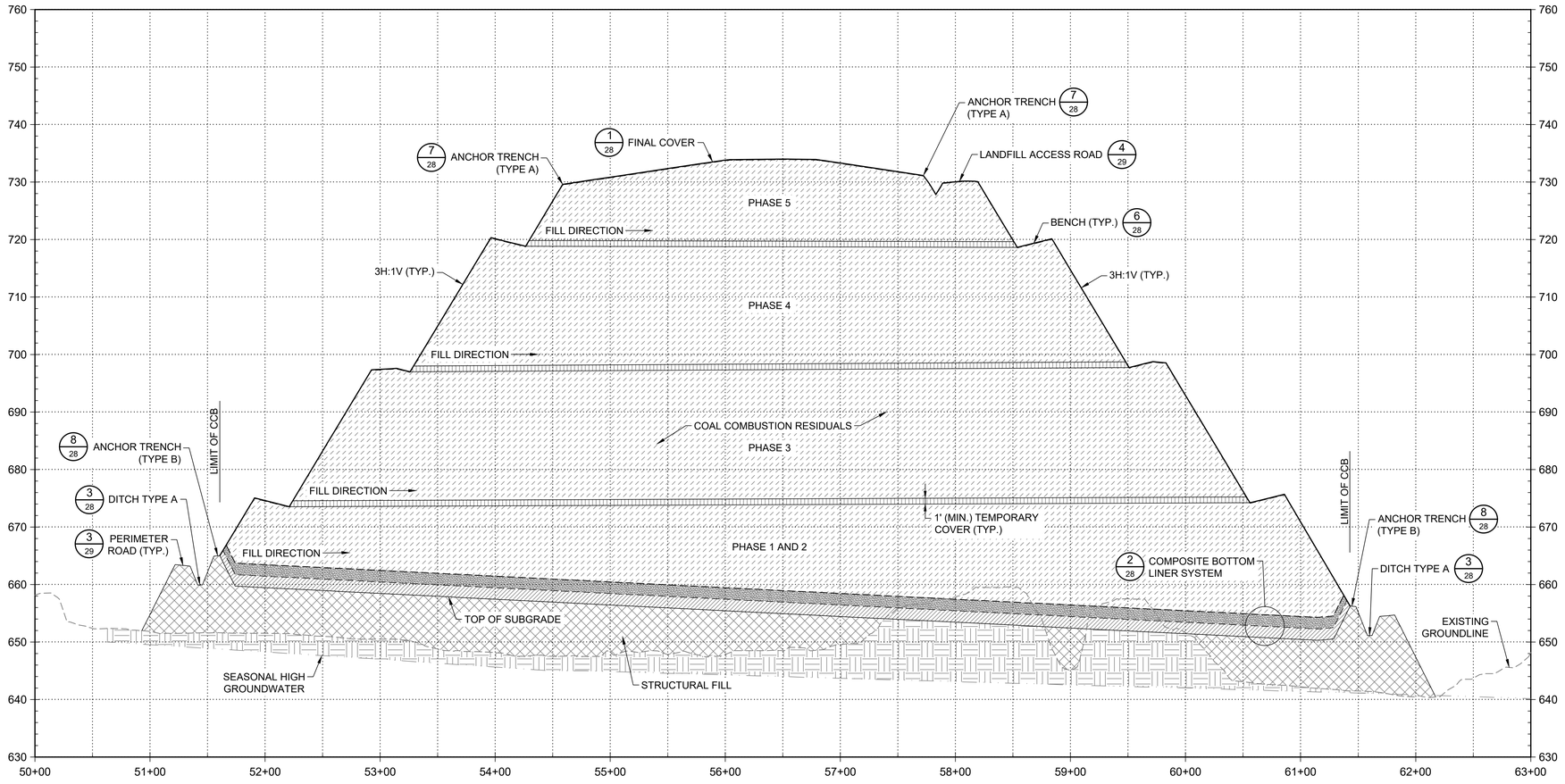
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	26	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 3/5/2025 USER: MCKINNEY, JIMMY
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1/27 DETAIL CROSS SECTION F-F'
SCALE: 1"=50' (HORIZONTAL)
1"=10' (VERTICAL)

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
CROSS SECTIONS

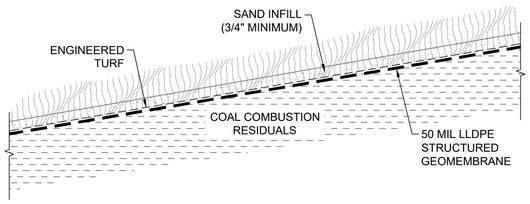
REVISION	DATE
REVISION 0	DATE FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

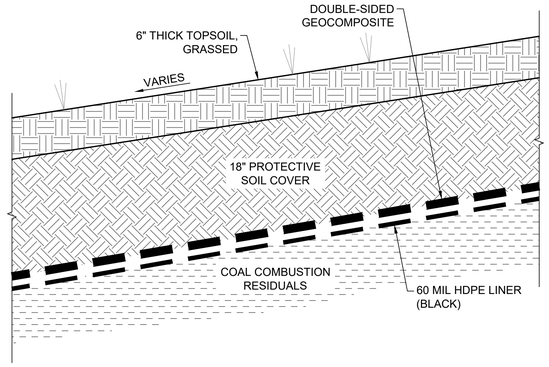
SCALE	PROJ I.D.	DRAWING NUMBER	SH.	CONT'D	REV
AS SHOWN	175518236	-	27	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025 USER: MCKINNEY, JIMMY
\\US0GS-PFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\RIL_PERMIT\REV\SHEET_FILES\26-27_18236_S1809-S1809_P-CD_XSC.DWG

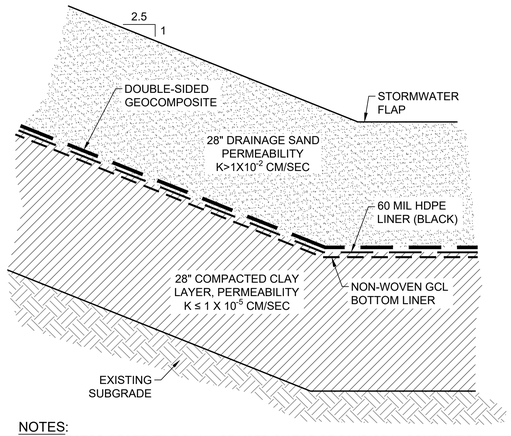


OPTION 1 - ENGINEERED TURF COVER



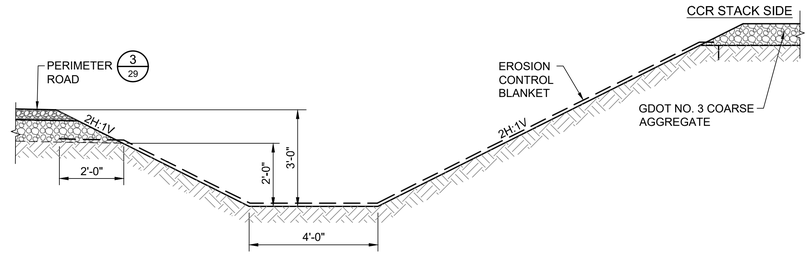
OPTION 2 - SOIL COVER

1 / 28 DETAIL - FINAL COVER SYSTEM
NOT TO SCALE

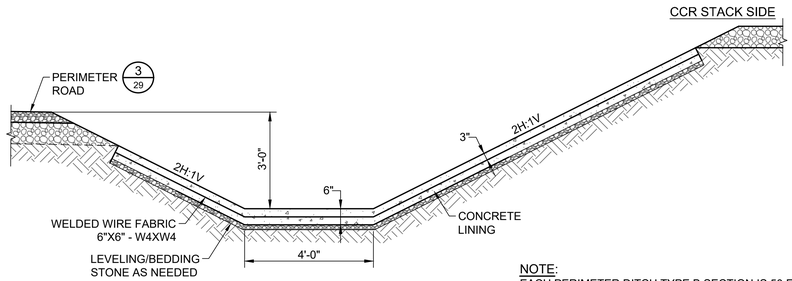


NOTES:
1. SEPARATOR GEOTEXTILE SHALL BE USED ON TOP OF SAND/COAL COMBUSTION RESIDUALS INTERFACE IF TESTING RESULTS INDICATE FILTER CRITERIA NOT MET.
2. CONTRACTOR MAY OMIT THE NON-WOVEN GCL BOTTOM LINER IF A PERMEABILITY OF K< 1x10^{-7} CM/SEC CAN BE ACHIEVED FOR THE COMPACTED CLAY LAYER.

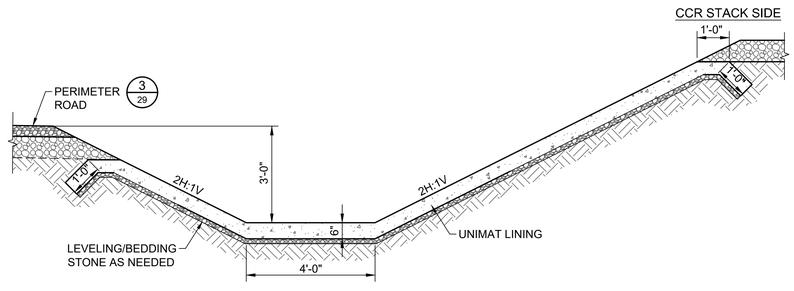
2 / 28 DETAIL - COMPOSITE BOTTOM LINER SYSTEM
SCALE: 1"=1'-0"



3 / 28 DETAIL - DITCH TYPE A
SCALE: 1/2"=1'-0"



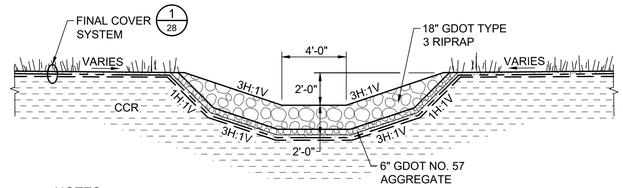
OPTION 1 - CONCRETE LINING



OPTION 2 - UNIMAT LINING

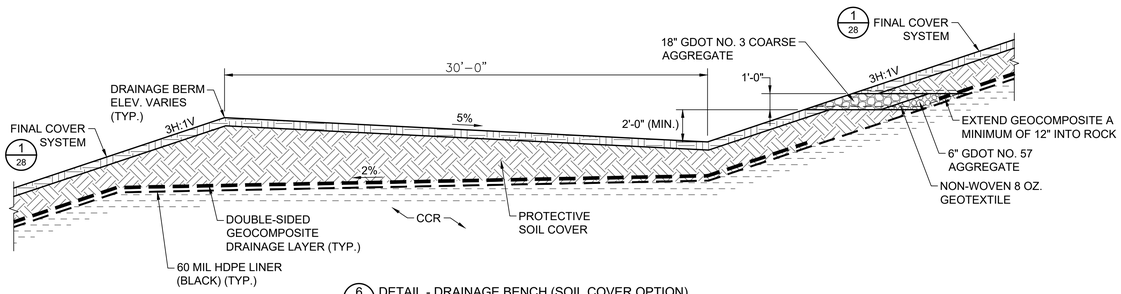
NOTE:
EACH PERIMETER DITCH TYPE B SECTION IS 50 FEET LONG AND CENTERED ON THE FLUME DISCHARGE LOCATION.

4 / 28 DETAIL - DITCH TYPE B
SCALE: 1/2"=1'-0"

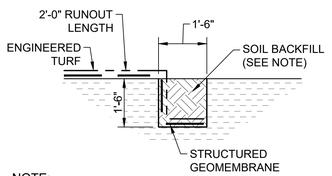


NOTES:
1. ILLUSTRATED IS THE ENGINEERED TURF COVER OPTION. THE SOIL COVER OPTION HAS THE SAME FINAL ELEVATION/GRADES BUT THE TOP OF WASTE (CCR) ELEVATION IS REDUCED TO ACCOUNT FOR THE 6-INCH TOPSOIL AND 18-INCH PROTECTIVE SOIL COVER LAYERS.
2. FLUME SIDE SLOPES ARE REDUCED TO 10H:1V AT THE SECOND (OR MIDDLE) BENCH LOCATIONS TO ALLOW VEHICLE CROSSING.

5 / 28 DETAIL - FLUME
SCALE: 1/4"=1'-0"

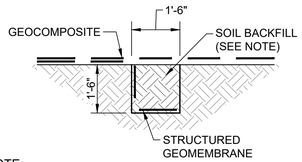


6 / 28 DETAIL - DRAINAGE BENCH (SOIL COVER OPTION)
SCALE: 1/4"=1'-0"



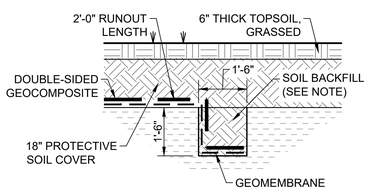
NOTE:
SOIL BACKFILL FOR ANCHOR TRENCH TYPE A SHALL CONSIST OF STRUCTURAL FILL PLACED/COMPACTED IN ACCORDANCE WITH ANCHOR TRENCH REQUIREMENTS PER THE TECHNICAL SPECIFICATIONS.

7 / 28 DETAIL - ANCHOR TRENCH TYPE A (ENGINEERED TURF COVER OPTION)
SCALE: 1/2"=1'-0"



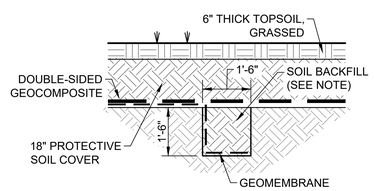
NOTE:
SOIL BACKFILL FOR ANCHOR TRENCH TYPE B SHALL CONSIST OF STRUCTURAL FILL PLACED/COMPACTED IN ACCORDANCE WITH ANCHOR TRENCH REQUIREMENTS PER THE TECHNICAL SPECIFICATIONS.

8 / 28 DETAIL - ANCHOR TRENCH TYPE B (ENGINEERED TURF COVER OPTION)
SCALE: 1/2"=1'-0"



NOTE:
SOIL BACKFILL FOR ANCHOR TRENCH TYPE A SHALL CONSIST OF STRUCTURAL FILL PLACED/COMPACTED IN ACCORDANCE WITH ANCHOR TRENCH REQUIREMENTS PER THE TECHNICAL SPECIFICATIONS.

9 / 28 DETAIL - ANCHOR TRENCH TYPE A (SOIL COVER OPTION)
SCALE: 1/2"=1'-0"



NOTE:
SOIL BACKFILL FOR ANCHOR TRENCH TYPE B SHALL CONSIST OF STRUCTURAL FILL PLACED/COMPACTED IN ACCORDANCE WITH ANCHOR TRENCH REQUIREMENTS PER THE TECHNICAL SPECIFICATIONS.

10 / 28 DETAIL - ANCHOR TRENCH TYPE B (SOIL COVER OPTION)
SCALE: 1/2"=1'-0"

GEORGIA REGISTERED No. PE044[illegible] PROFESSIONAL MATTHEW C. VAUGHAN ENGINEER 2/11/25

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SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

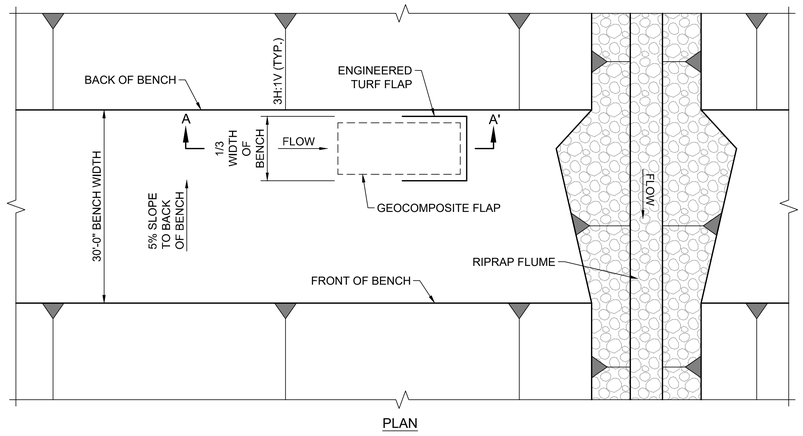
REVISION	DATE
0 ISSUED FOR CCR PERMIT APPLICATION	FEBRUARY 2025

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
DETAILS

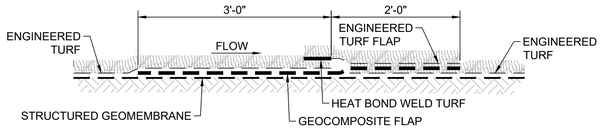
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							JJM	KDL	–					AS SHOWN	175518236	-	28	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025, USER: MOONEY, JIMMY
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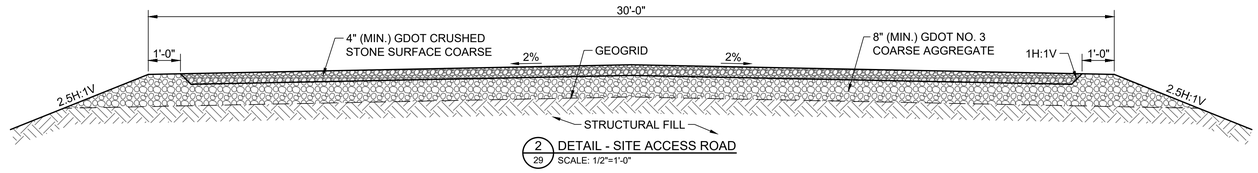
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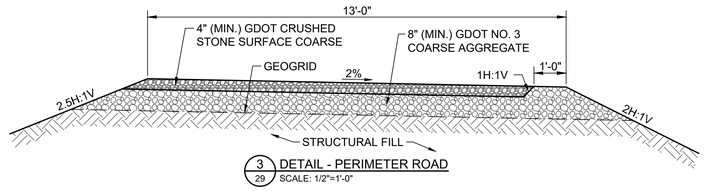
SECTION A-A'

NOTE:
WATER RELEASE VENTS SHALL BE INSTALLED ALONG THE BENCHES (STARTING IMMEDIATELY ADJACENT TO THE FLUMES).

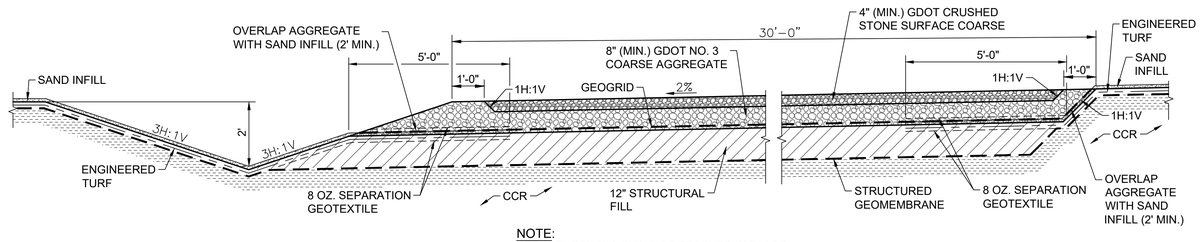
1/29 DETAIL - CLOSURE TURF VENT (ENGINEERED TURF COVER OPTION)
NOT TO SCALE



2/29 DETAIL - SITE ACCESS ROAD
SCALE: 1/2"=1'-0"

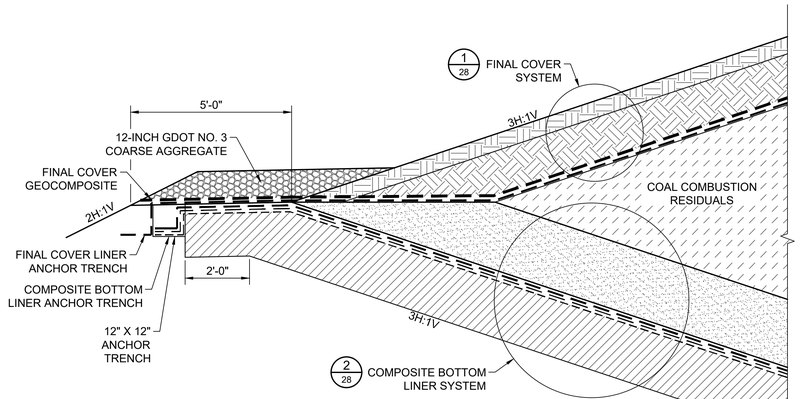


3/29 DETAIL - PERIMETER ROAD
SCALE: 1/2"=1'-0"

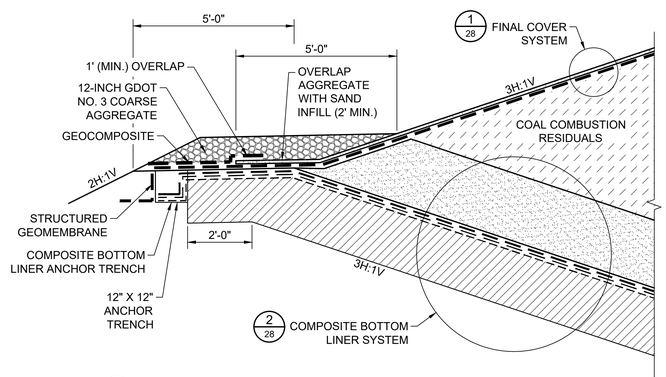


NOTE:
STRUCTURAL FILL SHALL BE TRACKED IN PLACE WITH LOW GROUND PRESSURE EQUIPMENT.

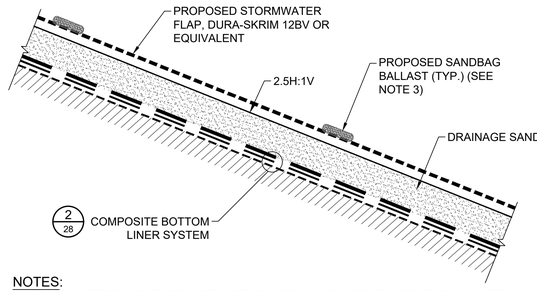
4/29 DETAIL - LANDFILL ACCESS ROAD
SCALE: 1/2"=1'-0"



5/29 DETAIL - TYPICAL EXTERIOR BERM FOR SOIL COVER OPTION
NOT TO SCALE

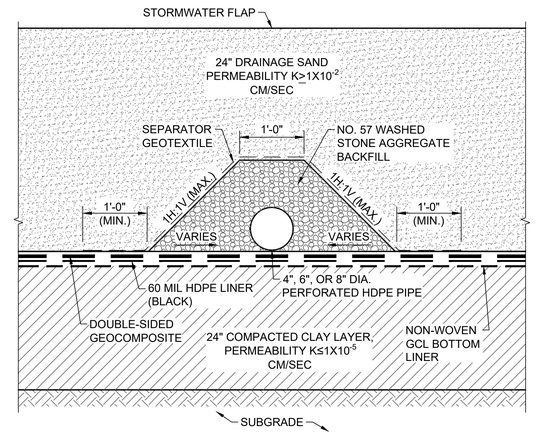


6/29 DETAIL - TYPICAL EXTERIOR FOR ENGINEERED TURF COVER OPTION
NOT TO SCALE



NOTES:
1. STORMWATER FLAPS TO BE INSTALLED ON AREAS NOT ACTIVELY RECEIVING WASTE.
2. STORMWATER FLAP SEAMS TO BE WELDED.
3. THIRTY POUND SANDBAGS SHALL BE PLACED AT TEN FEET INTERVALS LATERALLY ALONG THE STORMWATER FLAP AT THE LOCATIONS SHOWN ON THE DETAIL.
4. A TEMPORARY STORMWATER FLAP SHALL BE USED DURING FILLING OPERATIONS TO REDUCE THE VOLUME OF STORMWATER DISCHARGE INTO THE LEACHATE COLLECTION SYSTEM.

7/29 DETAIL - STORMWATER FLAPS
SCALE: 1/4"=1'-0"



NOTES:
1. HEAT BOND SEPARATOR GEOTEXTILE TO GEOCOMPOSITE AT OVERLAP OVER STONE AGGREGATE BACKFILL.
2. CONTRACTOR MAY OMIT THE NON-WOVEN GCL BOTTOM LINER IF A PERMEABILITY OF K≤ 1x10^{-7} CM/SEC IS ACHIEVED FOR THE COMPACTED CLAY LAYER.

8/29 DETAIL - TYPICAL LEACHATE COLLECTION SYSTEM PIPING
SCALE: 1"=1'-0"

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/25

ISSUED FOR PERMIT

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

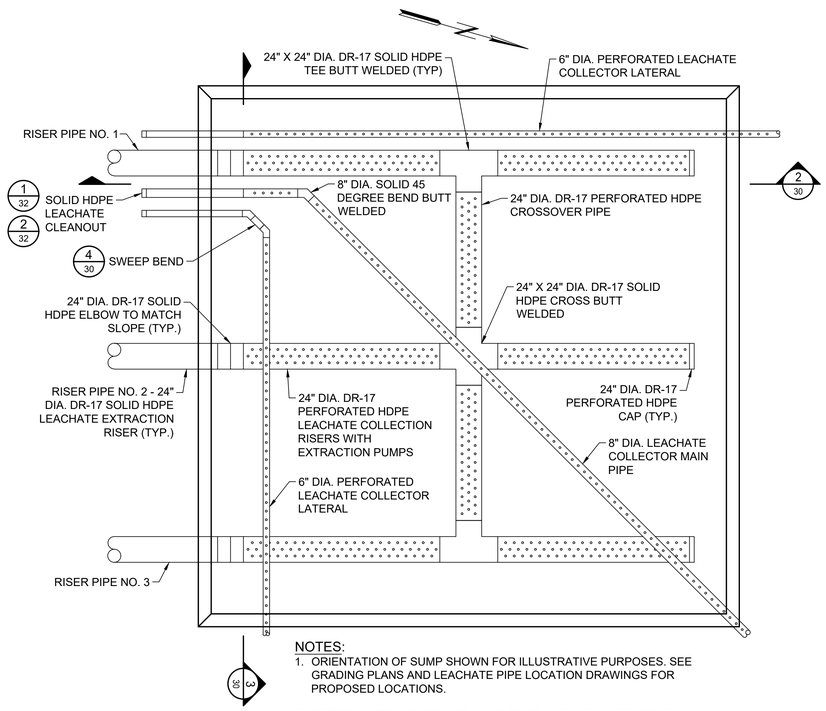
REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
							JJM	KDL	–					AS SHOWN	175518236	-	29	FINAL	0

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
DETAILS

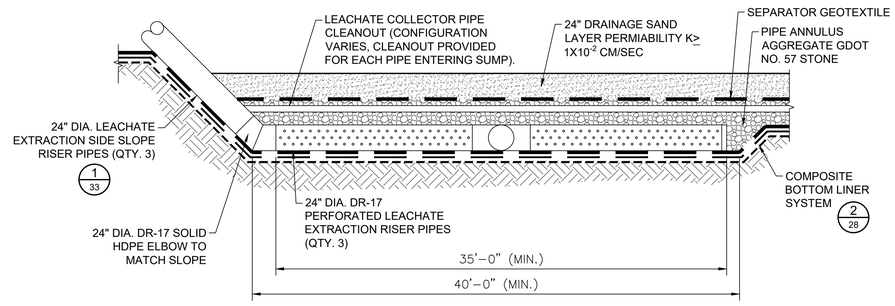
PLOT DATE: 2/6/2025, USER: MCHANEY, JAMM
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ANSI F: 28x40 AUTOCAD 2023



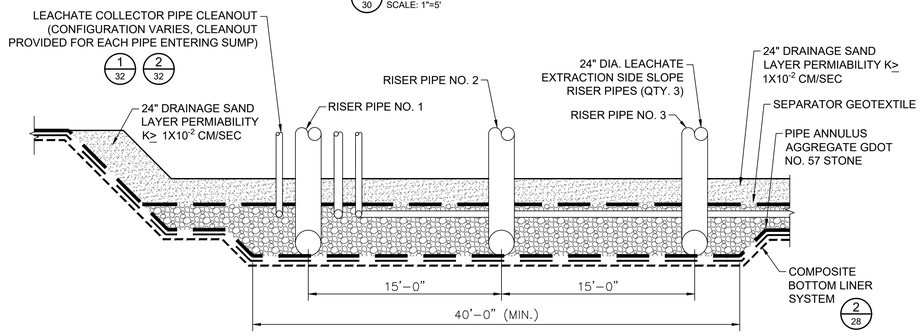
NOTES:
1. ORIENTATION OF SUMP SHOWN FOR ILLUSTRATIVE PURPOSES. SEE GRADING PLANS AND LEACHATE PIPE LOCATION DRAWINGS FOR PROPOSED LOCATIONS.
2. BOTTOM SURFACE AREA OF SUMP TO BE A MINUMUM OF 1600 SF.
3. SLOPES OF SUMP SIDES, RISERS, AND CLEANOUTS TO BE PER PLAN.

1/30 DETAIL - LEACHATE COLLECTION SUMP
SCALE: 1"=5'



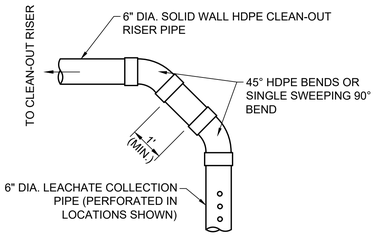
NOTES:
1. INSTALL SEPARATOR GEOTEXTILE BENEATH 24" DIAMETER RISER PIPES TO PROTECT UNDERLYING GEOSYNTHETICS.
2. LENGTH OF PERFORATED 24" HDPE AND CROSS OR TEE SHALL BE LESS THAN 35".
3. GECOMPOSITES DO NOT EXTEND UP THE SIDE SLOPES.

2/30 DETAIL - LEACHATE COLLECTION SUMP
SCALE: 1"=5'

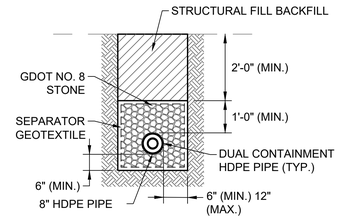


NOTES:
1. INSTALL SEPARATOR GEOTEXTILE BENEATH 24" DIAMETER RISER PIPES TO PROTECT UNDERLYING GEOSYNTHETICS.
2. GECOMPOSITES DO NOT EXTEND UP THE SIDE SLOPES.

3/30 DETAIL - LEACHATE COLLECTION SUMP
SCALE: 1"=5'

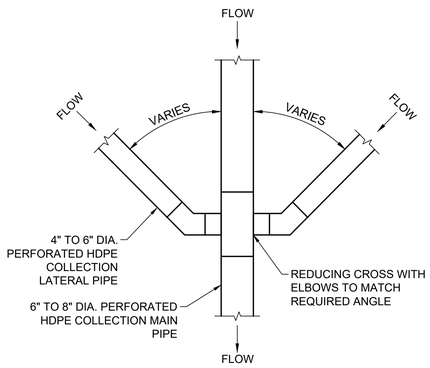


4/30 DETAIL - SWEEP BEND
NOT TO SCALE

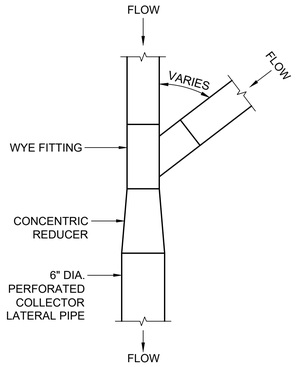


NOTES:
1. HDPE PIPING AND FITTINGS SHALL BE DR17.
2. INSTALL UNDERGROUND MARKING TAPE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
3. CONTRACTOR TO PROVIDE ALL NECESSARY SHORING OR TRENCH BOXES.

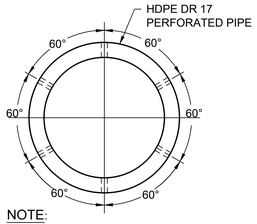
5/30 DETAIL - LEACHATE FORCEMAIN TRENCH
SCALE: 1/2"=1'-0"



6/30 DETAIL - LATERAL COLLECTION MAIN PIPE CONNECTIONS
SCALE: 1"=1'-0"



7/30 DETAIL - LATERAL COLLECTION LATERAL WYE
SCALE: 1"=1'-0"



NOTE:
AASHTO CLASS I PERFORATION FOR 4" TO 24"Ø PIPE-6 PERFORATIONS REQ'D PER SIX INCH LENGTH OF PIPE (TOTAL 12 PER FT OF PIPE. EACH PERFORATION 0.25"Ø CIRCULAR.)

8/30 DETAIL - LEACHATE PERFERATED PIPE
NOT TO SCALE

GEORGIA REGISTERED No. PE044[illegible] PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN
2/6/25

ISSUED FOR PERMIT

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

REVISION	DATE
REVISION 0	DATE FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION	

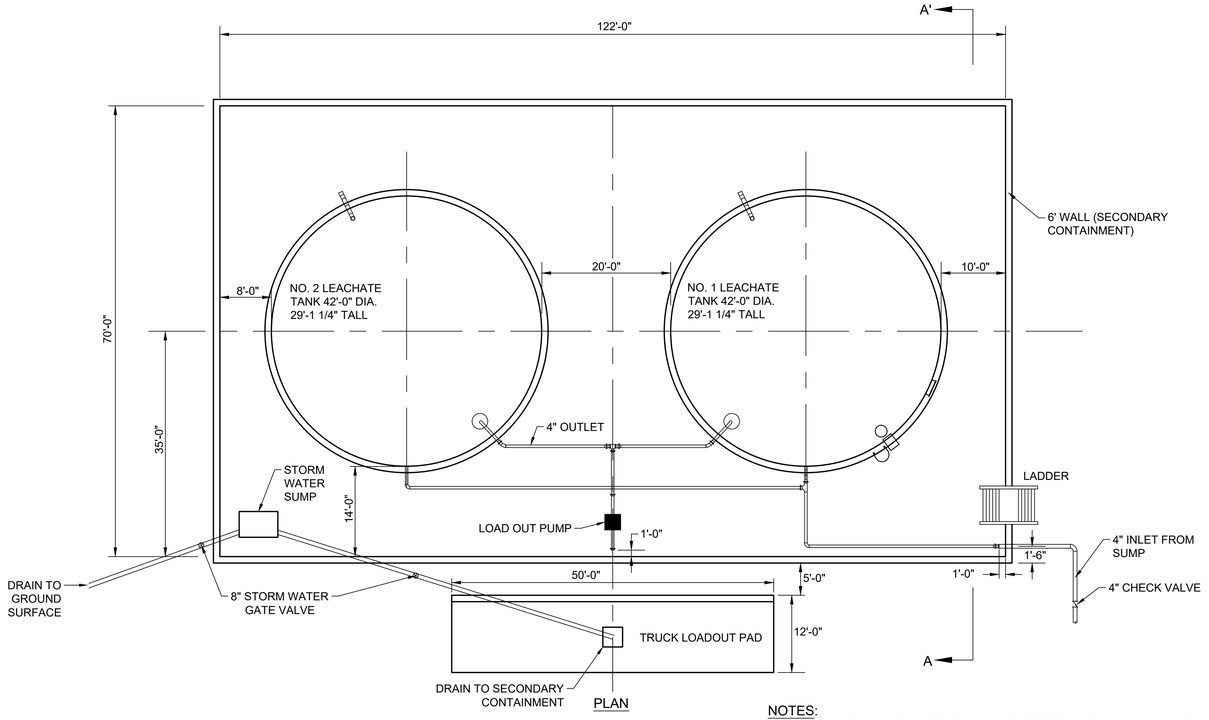
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JJM	KDL	–				

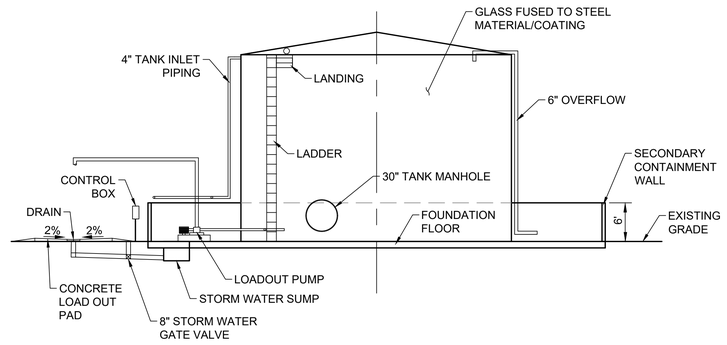
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AS SHOWN	175518236	-	30	FINAL	0

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
DETAILS

PLOT DATE: 2/7/2025 USER: MDOWNEY XMPF: \\JSS\GA22-PPF\5519\SHARED_PROJECT\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISHEET_FILES\SL_18236_S1913_P-CD_D73.DWG

ANSI F: 28x40 AUTOCAD 2023

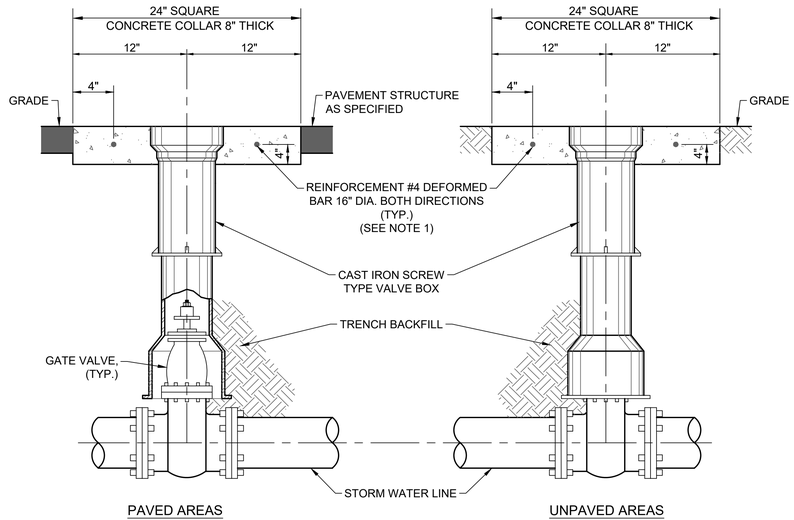




SECTION A-A'

NOTES:
1. FINAL FOUNDATION FLOOR DETAILS TO BE DETERMINED UPON COMPLETION OF GEOTECHNICAL EXPLORATION.
2. TWO LEACHATE TANKS TO BE INSTALLED. GLASS FUSED TO STEEL MATERIAL. EACH TANK HAS A DIAMETER OF 42'-0" AND IS 29'-1 1/4" TALL. EACH TANK HAS A CAPACITY OF 290,750 GALLONS. A CONCRETE FLOOR SECONDARY CONTAINMENT HAS BEEN SIZED FOR 110% OF THE VOLUME FOR ONE TANK AND FOR 6 FEET OF STORAGE IN THE SECOND TANK. SECONDARY CONTAINMENT IS 6 FEET TALL.

1/31 DETAIL - LEACHATE TANK LAYOUT
SCALE: 1"=10'



NOTES:
1. TOP OF VALVE BOX AND CONCRETE COLLAR TO BE 1/4" BELOW FINAL STREET GRADE.
2. IF TOP OF VALVE NUT IS MORE THAN 4' DEEP THEN VALVE STEM EXTENSION IS REQUIRED PER DETAIL.
3. CONCRETE COLLAR TO BE MINIMUM 4,000 PSI.

2/31 DETAIL - STORMWATER VALVE BOX
NOT TO SCALE

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
DETAILS

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

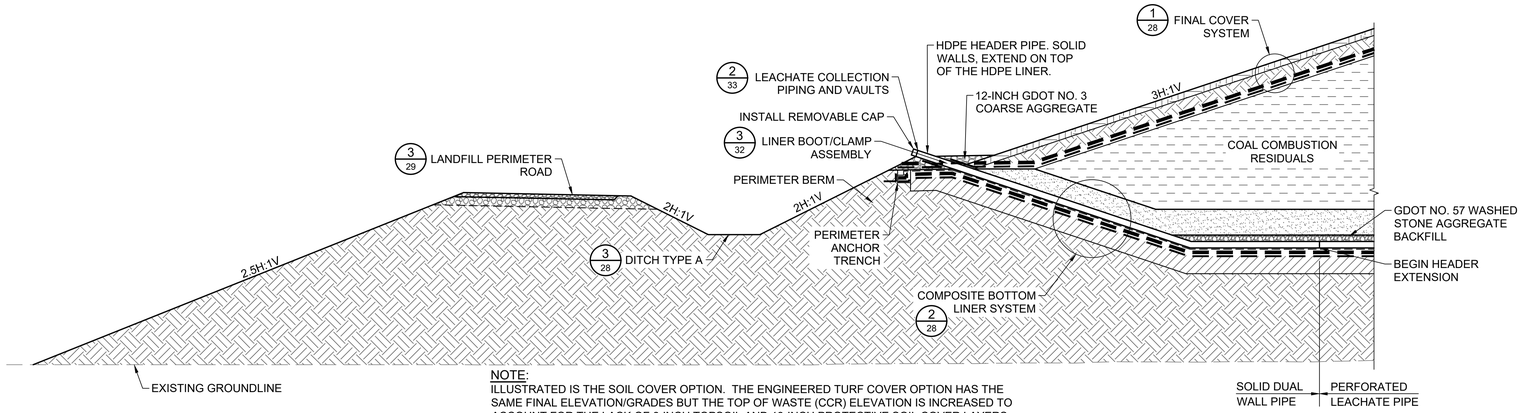
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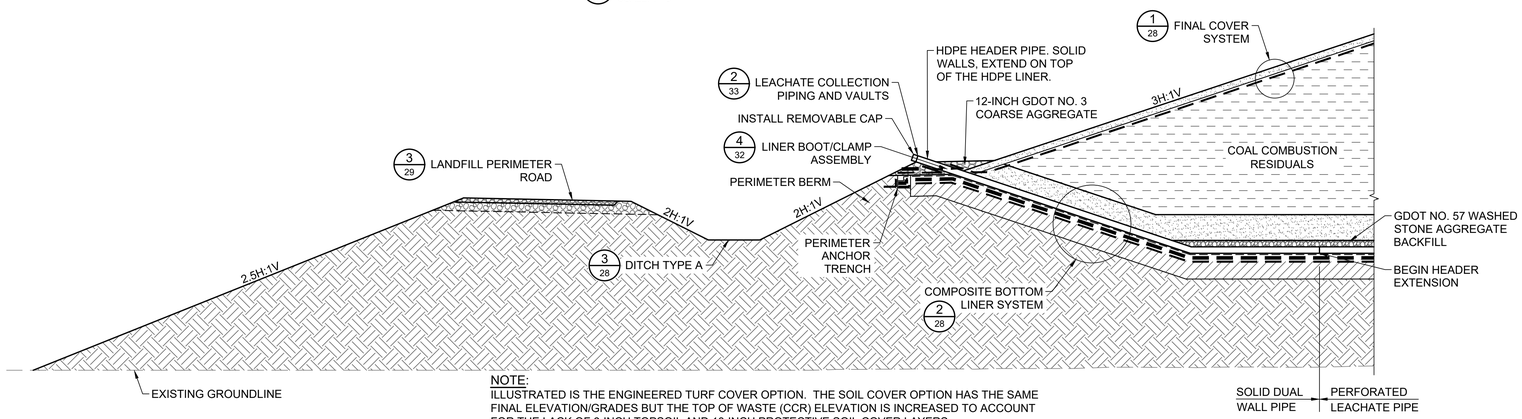
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ANSI F: 28x40 AUTOCAD 2023



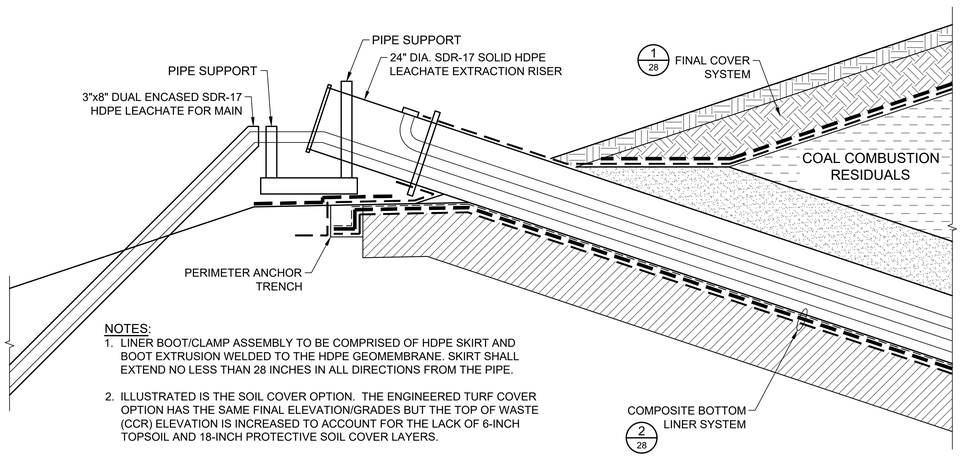
NOTE:
ILLUSTRATED IS THE SOIL COVER OPTION. THE ENGINEERED TURF COVER OPTION HAS THE SAME FINAL ELEVATION/GRADES BUT THE TOP OF WASTE (CCR) ELEVATION IS INCREASED TO ACCOUNT FOR THE LACK OF 6-INCH TOPSOIL AND 18-INCH PROTECTIVE SOIL COVER LAYERS.

1/32 DETAIL - LEACHATE COLLECTION SYSTEM CLEANOUT
SCALE: 1"=5'



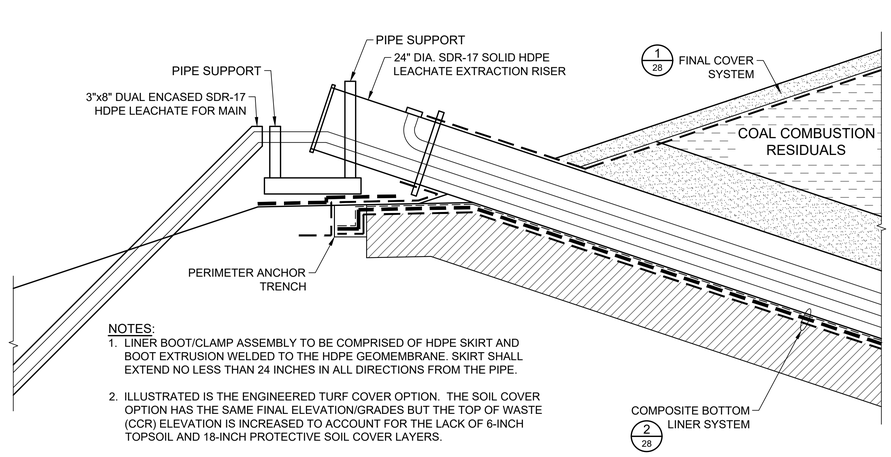
NOTE:
ILLUSTRATED IS THE ENGINEERED TURF COVER OPTION. THE SOIL COVER OPTION HAS THE SAME FINAL ELEVATION/GRADES BUT THE TOP OF WASTE (CCR) ELEVATION IS INCREASED TO ACCOUNT FOR THE LACK OF 6-INCH TOPSOIL AND 18-INCH PROTECTIVE SOIL COVER LAYERS.

2/32 DETAIL - LEACHATE COLLECTION SYSTEM CLEANOUT
SCALE: 1"=5'



NOTES:
1. LINER BOOT/CLAMP ASSEMBLY TO BE COMPRISED OF HDPE SKIRT AND BOOT EXTRUSION WELDED TO THE HDPE GEOMEMBRANE. SKIRT SHALL EXTEND NO LESS THAN 28 INCHES IN ALL DIRECTIONS FROM THE PIPE.
2. ILLUSTRATED IS THE SOIL COVER OPTION. THE ENGINEERED TURF COVER OPTION HAS THE SAME FINAL ELEVATION/GRADES BUT THE TOP OF WASTE (CCR) ELEVATION IS INCREASED TO ACCOUNT FOR THE LACK OF 6-INCH TOPSOIL AND 18-INCH PROTECTIVE SOIL COVER LAYERS.

3/32 DETAIL - LINER BOOT/CLAMP ASSEMBLY
SCALE: 1/2"=1'-0"



NOTES:
1. LINER BOOT/CLAMP ASSEMBLY TO BE COMPRISED OF HDPE SKIRT AND BOOT EXTRUSION WELDED TO THE HDPE GEOMEMBRANE. SKIRT SHALL EXTEND NO LESS THAN 24 INCHES IN ALL DIRECTIONS FROM THE PIPE.
2. ILLUSTRATED IS THE ENGINEERED TURF COVER OPTION. THE SOIL COVER OPTION HAS THE SAME FINAL ELEVATION/GRADES BUT THE TOP OF WASTE (CCR) ELEVATION IS INCREASED TO ACCOUNT FOR THE LACK OF 6-INCH TOPSOIL AND 18-INCH PROTECTIVE SOIL COVER LAYERS.

4/32 DETAIL - LINER BOOT/CLAMP ASSEMBLY
SCALE: 1/2"=1'-0"

GEORGIA REGISTERED No. PE014431 PROFESSIONAL MATTHEW C. VAUGHAN ENGINEER
Matthew C. Vaughan 2/11/25

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		0	FEBRUARY 2025
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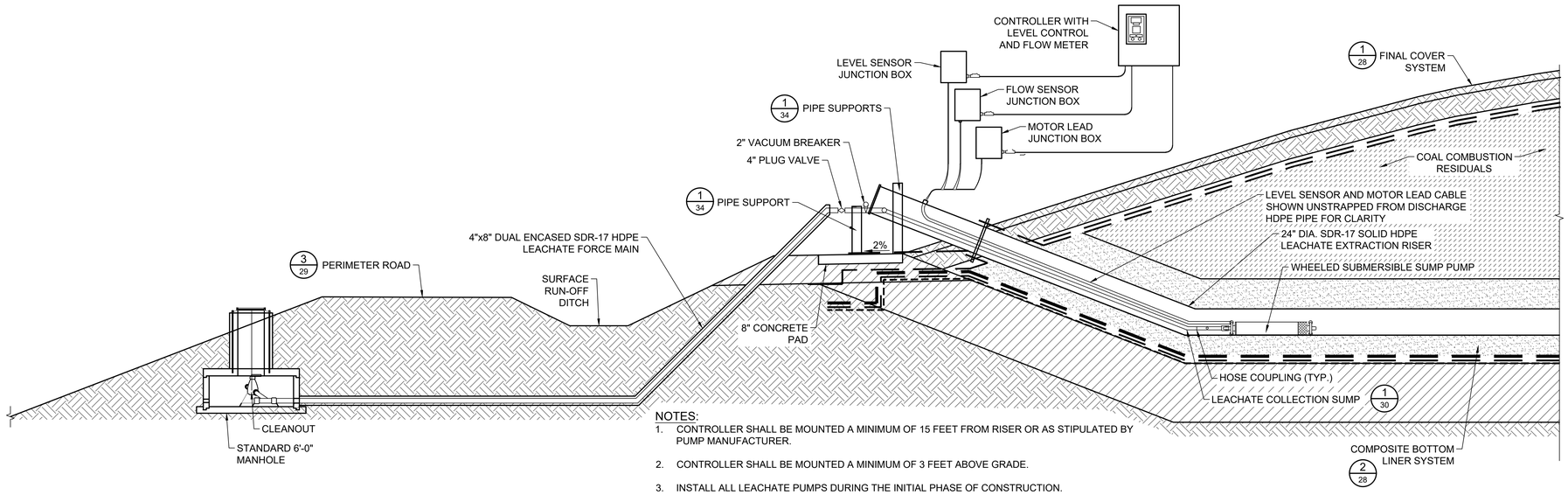
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JJM	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CON'TD	REV
AS SHOWN	175518236	-	32	FINAL	0

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

PLOT DATE: 2/7/2025, USER: MDOWNEY, JAMM
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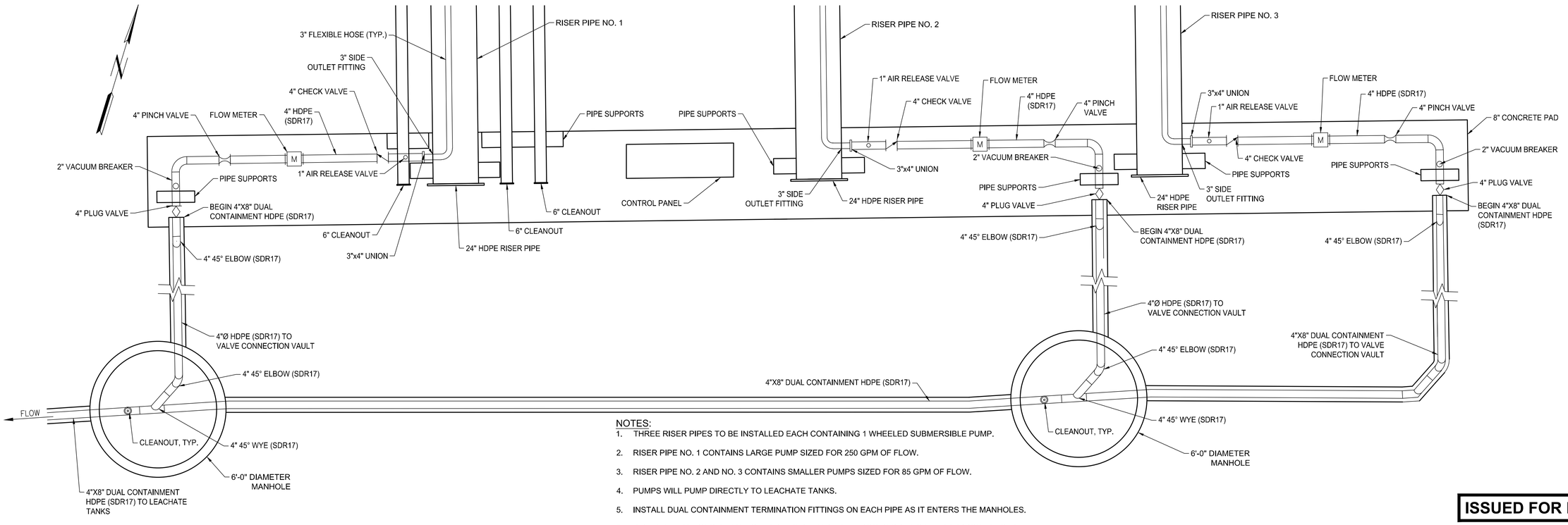
ANSI F: 28x40 AUTOCAD 2023



NOTES:

1. CONTROLLER SHALL BE MOUNTED A MINIMUM OF 15 FEET FROM RISER OR AS STIPULATED BY PUMP MANUFACTURER.
2. CONTROLLER SHALL BE MOUNTED A MINIMUM OF 3 FEET ABOVE GRADE.
3. INSTALL ALL LEACHATE PUMPS DURING THE INITIAL PHASE OF CONSTRUCTION.
4. DUAL ENCASED PIPE TO MAINTAIN MINIMUM COVER OF 36 INCHES.
5. DUAL ENCASED PIPE TO MAINTAIN POSITIVE DRAINAGE TOWARDS MANHOLE AT ALL TIMES.
6. ILLUSTRATED IS THE SOIL COVER OPTION. THE ENGINEERED TURF COVER OPTION HAS THE SAME FINAL ELEVATION/GRADES BUT THE TOP OF WASTE (CCR) ELEVATION IS INCREASED TO ACCOUNT FOR THE LACK OF 6-INCH TOPSOIL AND 18-INCH PROTECTIVE SOIL COVER LAYERS.

1/33 DETAIL - LEACHATE EXTRACTION PUMP SIDE SLOPE RISER
SCALE: 1/2"=1'-0"



NOTES:

1. THREE RISER PIPES TO BE INSTALLED EACH CONTAINING 1 WHEELED SUBMERSIBLE PUMP.
2. RISER PIPE NO. 1 CONTAINS LARGE PUMP SIZED FOR 250 GPM OF FLOW.
3. RISER PIPE NO. 2 AND NO. 3 CONTAINS SMALLER PUMPS SIZED FOR 85 GPM OF FLOW.
4. PUMPS WILL PUMP DIRECTLY TO LEACHATE TANKS.
5. INSTALL DUAL CONTAINMENT TERMINATION FITTINGS ON EACH PIPE AS IT ENTERS THE MANHOLES.
6. PIPE PENETRATIONS IN MANHOLE ARE TO BE MADE WITH BOOTS OR ENGINEER APPROVED EQUAL.

2/33 DETAIL - LEACHATE COLLECTION PIPING AND VAULTS
SCALE: 1/2"=1'-0"

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE024437 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN
2/6/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
DETAILS

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

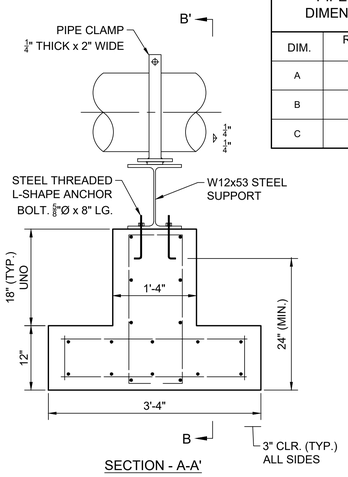
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV.
AS SHOWN	175518236	■	33	FINAL	0

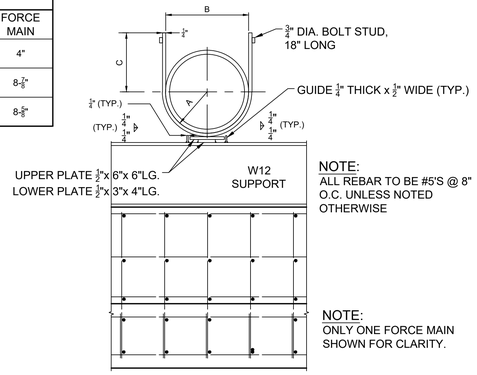
PLOT DATE: 2/6/2025 USER: MCKINNEY, JIMMY
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ANSI F: 28x40 AUTOCAD 2023

PIPE SUPPORT DIMENSION TABLE		
DIM.	RISER PIPE	FORCE MAIN
A	24"	4"
B	24-$\frac{5}{8}$"	8-$\frac{7}{8}$"
C	18-$\frac{5}{8}$"	8-$\frac{5}{8}$"



SECTION - A-A'

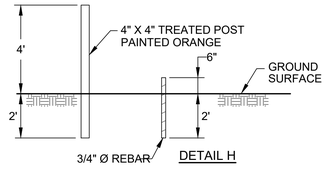


NOTE:
ALL REBAR TO BE #5'S @ 8" O.C. UNLESS NOTED OTHERWISE

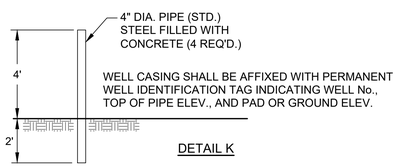
NOTE:
ONLY ONE FORCE MAIN SHOWN FOR CLARITY.

SECTION - B-B'

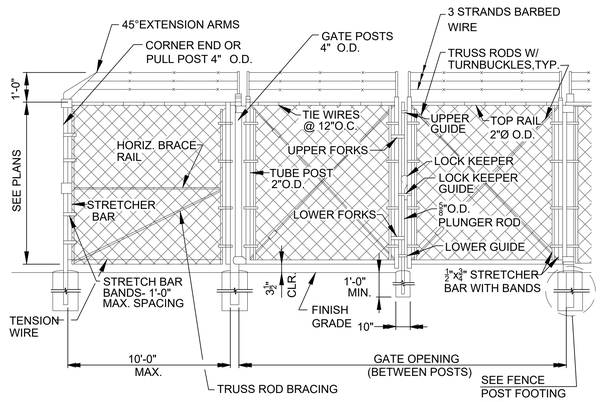
1 / 34 DETAIL - PIPE SUPPORT
SCALE: 1"=1'-0"



2 / 34 DETAIL - TYPICAL DISPOSAL SITE BOUNDARY AND BUFFER ZONE PIN AND MARKER
NOT TO SCALE

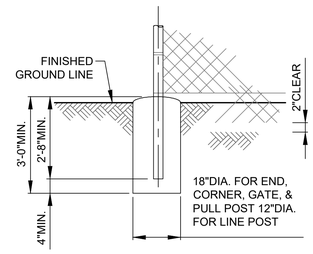


3 / 34 DETAIL - TYPICAL GROUNDWATER MONITORING WELL MARKER PROTECTION PIPES
NOT TO SCALE



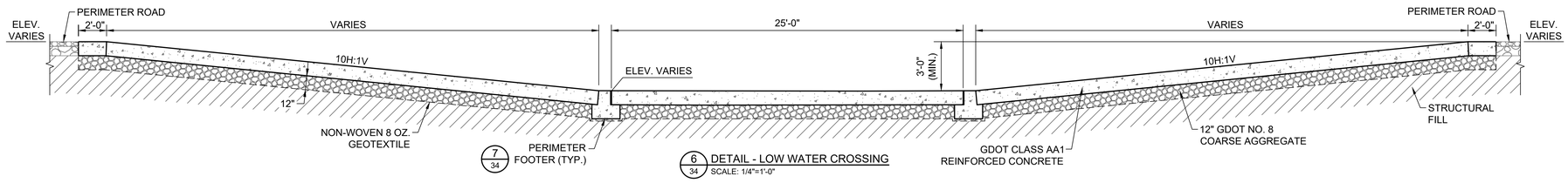
NOTE:
HORIZ. BRACE RAILS AND TRUSS ROD BRACING SHALL BE INSTALLED AT ALL CORNER,END,AND PULL POSTS. FABRIC SHALL BE FASTENED TO LINE POSTS AT NO MORE THAN 14" INTERVALS. TENSION WIRES SHALL BE TIED TO FABRIC WITH 9 GA. WIRE OR II GA. HOG RINGS AT INTERVALS OF 24" MAX.

4 / 34 SECURITY FENCE & DOUBLE SWING GATE
NOT TO SCALE



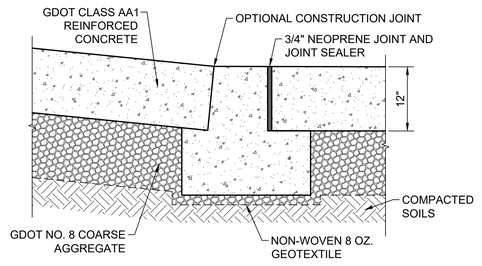
NOTE:
CONCRETE FOOTINGS WILL BE REQUIRED FOR ALL LINE, CORNER, GATE, END AND PULL POSTS.

5 / 34 FENCE POST FOOTING
NOT TO SCALE

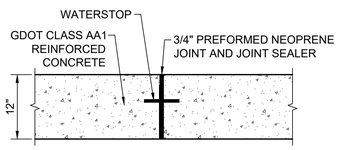


7 / 34 PERIMETER FOOTER (TYP.)

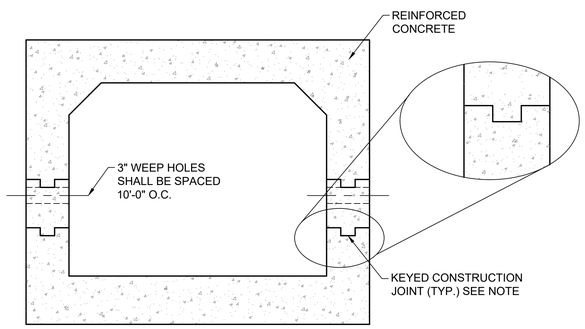
6 / 34 DETAIL - LOW WATER CROSSING
SCALE: 1/4"=1'-0"



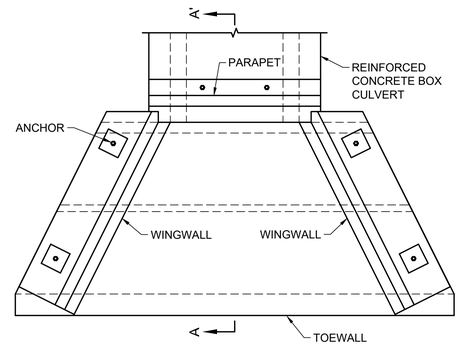
7 / 34 DETAIL - PERIMETER FOOTER
SCALE: 1"=1'-0"



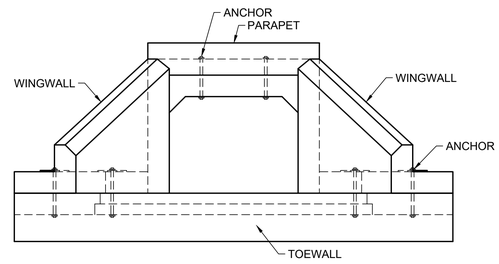
8 / 34 DETAIL - EXPANSION JOINT
SCALE: 1"=1'-0"



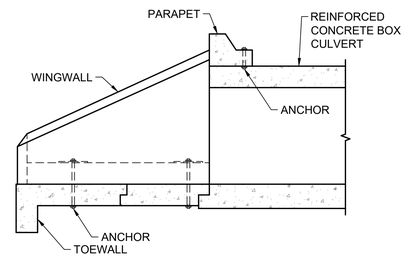
9 / 34 DETAIL - BOX CULVERT
SCALE: 1"=1'-0"



PLAN



ELEVATION



SECTION A-A'

10 / 34 DETAIL - PRECAST BOX CULVERT END HEADWALL
SCALE: 1/2"=1'-0"

ISSUED FOR PERMIT

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044778 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/9/25

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

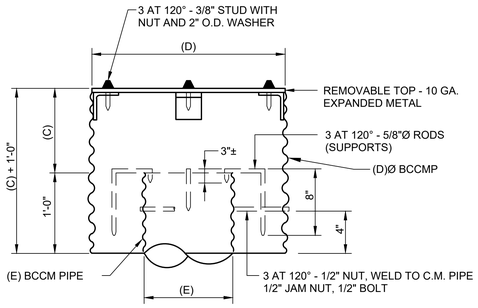
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
DETAILS

REVISION	DATE
0	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION	

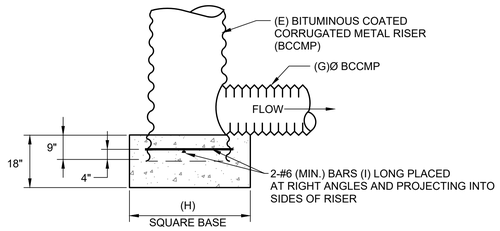
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH.	CONT'D	REV
AS SHOWN	175518236	-	34	FINAL	0

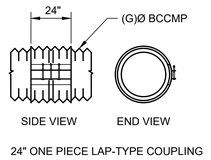
PLOT DATE: 2/9/2025 USER: MCKINNEY, JIMMY
\\US500-PFS001\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISHEET_FILE\R34_18236_S1816-HH152_P-CD_D77.DWG



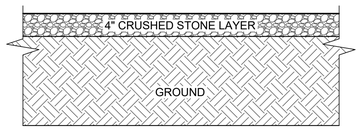
1 / 35 DETAIL - TRASH RACK
NOT TO SCALE



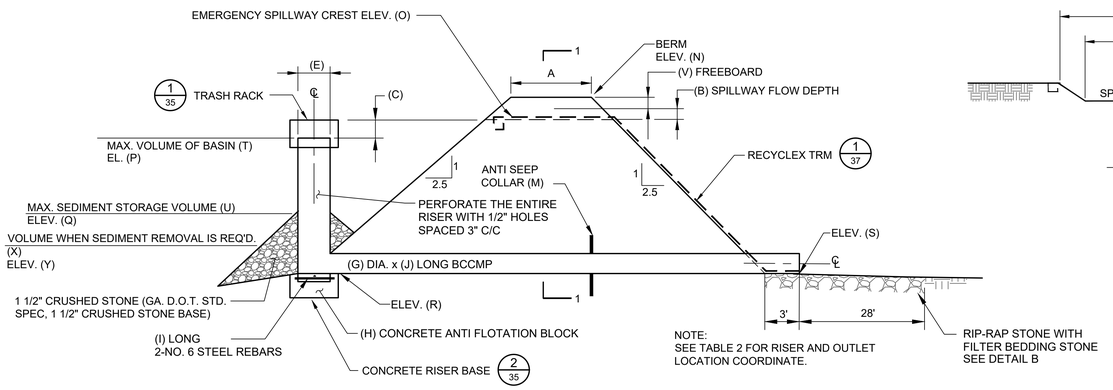
2 / 35 DETAIL - CONCRETE RISER BASE
NOT TO SCALE



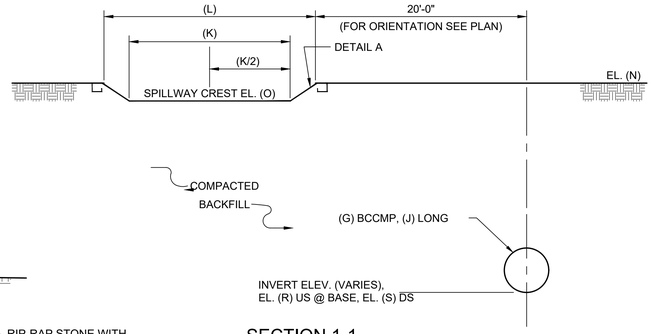
3 / 35 DETAIL - COUPLING
NOT TO SCALE



4 / 35 DETAIL - MARKER BED
NOT TO SCALE



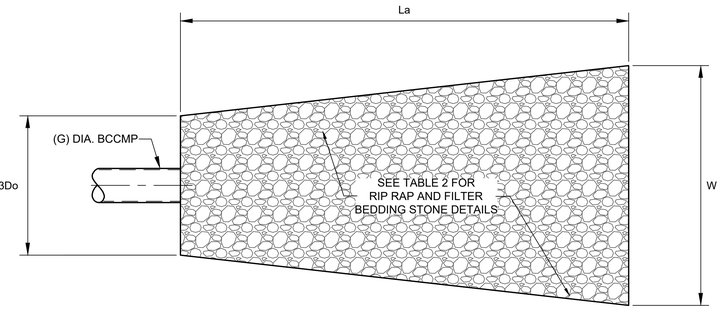
5 / 35 DETAIL - RISER AND OUTLET PIPE FOR SEDIMENT BASIN AND CLEAR POOL
NOT TO SCALE



SECTION 1-1
NOT TO SCALE

CULVERT OUTLET RIPRAP DETAILS (@ NEW CULVERT ONLY)

Pipe Diam.	Pipe Type	La	3Do	W	Rip Rap	Thick	Filter Bedding Stone
12"	BCCMP	12'	3'	13'	N.S.A. #R-4	18"	N.S.A #FS-2
24"	BCCMP	20'	6'	22'	N.S.A. #R-5	27"	N.S.A #FS-2
30"	BCCMP	22'	7.5'	25'	N.S.A. #R-5	27"	N.S.A #FS-2
36"	BCCMP	24'	9'	27'	N.S.A. #R-5	27"	N.S.A #FS-2
42"	BCCMP	26'	10.5'	30'	N.S.A. #R-6	27"	N.S.A #FS-2
48"	BCCMP	28'	12'	32'	N.S.A. #R-6	36"	N.S.A #FS-3
60"	RCP	32'	15'	37'	N.S.A. #R-6	36"	N.S.A #FS-3



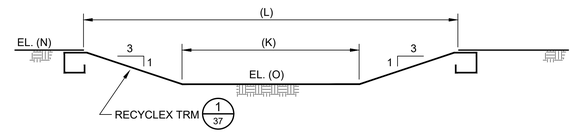
DETAIL B
NOT TO SCALE

TABLE 1 - SEDEMENTATION POND AND CLEAR POOL DETAILS

		SEDIMENT BASIN 2	CLEAR POOL 2
TOP WIDTH OF BERM	A	8'	13'
EMERGENCY SPILLWAY FLOW DEPTH	B	0.5'	0.5'
STORAGE LEVEL - DIFFERENCE BETWEEN RISER AND EMER. SPILLWAY	C	1.0'	2.0'
TRASH RACK DIAMETER	D	66"	66"
RISER DIAMETER	E	48"	48"
RISER LENGTH (INCLUDES 9" INTO ANTIFLOTATION BLOCK)	F	4'-3"	4'-9"
PRINCIPAL SPILLWAY PIPE DIAMETER	G	36"	36"
CONCRETE ANTIFLOTAION BLOCK	H	84"x 84"x 18"	84"x 84"x 18"
LENGTH OF RISER ANCHORING BARS (REBAR)	I	78"	78"
LENGTH OF PRINCIPAL SPILLWAY PIPE	J	50'	80'
EMERGENCY SPILLWAY BOTTOM WIDTH	K	20'	20'
EMERGENCY SPILLWAY TOP WIDTH	L	32'	32'
ANTISEEP COLLAR	M	72" x 72"	72" x 72"
ELEVATION OF TOP OF BERM, FT MSL	N	650.0 ft	650.0 ft
ELEVATION OF EMERGENCY SPILLWAY CREST, FT MSL	O	648.0 ft	648.0 ft
ELEVATION OF TOP OF RISER, FT MSL	P	647.0 ft	646.0 ft
MAXIMUM SEDIMENT STORAGE ELEV., FT MSL	Q	644.0 ft	643.0 ft
ELEVATION OF PRINCIPAL SPILLWAY AT INLET, FT MSL (BOTTOM POND EL.)	R	643.5 ft	642.0 ft
ELEVATION OF PRINCIPAL SPILLWAY AT OUTLET, FT MSL	S	643.2 ft	641.5 ft
MAXIMUM VOLUME OF BASIN, CUBIC YARDS	T	13,826	1,330
MAXIMUM SEDIMENT STORAGE VOLUME, CUBIC YARDS	U	2,198	137
FREEBOARD	V	1.5'	1.5'
CLEAN OUT VOLUME, CUBIC YARDS	X	630	45
ELEVATION WHEN CLEANOUT REQUIRED	Y	643.2	642.3

TABLE 2 - RISER AND OUTLET LOCATION COORDINATES

	RISER CENTER		OUTLET DISCHARGE	
	NORTHING	EASTING	NORTHING	EASTING
SEDIMENT BASIN 2	1,564,614.75	1,954,174.68	1,564,574.44	1,954,189.65
CLEAR POOL 2	1,564,361.64	1,954,282.61	1,564,328.51	1,954,210.08



DETAIL A
NOT TO SCALE

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE043[illegible] PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
DETAILS

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
							JJM	KDL	–					AS SHOWN	175518236	-	35	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025, USER: MCKINNEY, JIMMY
I:\GA\0222-PPFSS\01\SHARED_PROJECTS\175518236\TECH\CAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISIONS\SHEET_FILES\35_18326_H9159_P-CD_DTB.DWG

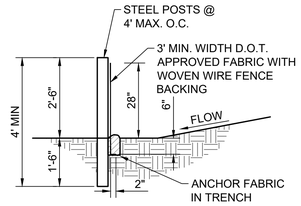
SILT FENCE NOTES

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 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. 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



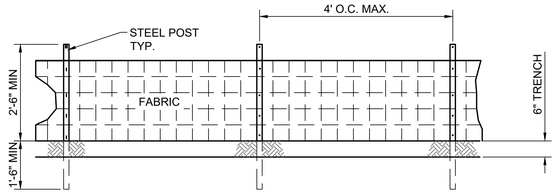
NOTE:
THE SILT FENCE SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE FABRIC.

1/36 DETAIL - TYPICAL SILT FENCE TYPE "C"
NOT TO SCALE

POSTS AND WOVEN WIRE SUPPORT:

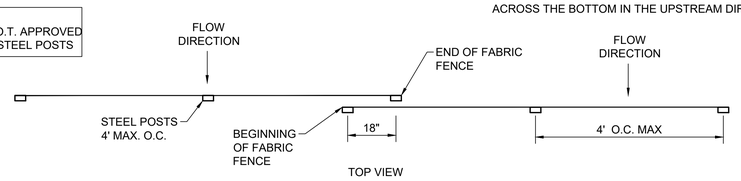
POSTS SHALL BE STEEL AND HAVE A MINIMUM LENGTH OF 4 FEET. POSTS SHALL BE "U", "T", OR "C" SHAPED, OR WOOD FOR TYPE A, AND HAVE A MINIMUM WEIGHT OF 1.3 POUNDS PER FOOT. THE POSTS SHALL HAVE PROJECTIONS FOR FASTENING THE WOVEN WIRE AND FILTER FABRIC. MAXIMUM POSTS SPACING SHALL BE 6 FEET FOR TYPE A OR 4 FEET FOR TYPE C. A WOVEN WIRE SUPPORT FENCE SHALL BE USED WITH TYPE "C" FENCE. THE WIRE FENCE FABRIC SHALL BE AT LEAST 36 INCHES HIGH AND SHALL HAVE AT LEAST 6 HORIZONTAL WIRES. VERTICAL WIRES SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.

FILTER FABRICS FOR TYPE "C" FENCES:
APPROVED SILT FENCE FABRICS ARE LISTED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST #36 (QPL-36).

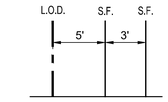


TYPICAL SILT FENCE
FRONT VIEW
NOT TO SCALE

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



TYPICAL SILT FENCE
TYPE C - OVERLAP DETAIL
NOT TO SCALE



SILT FENCE SPACING
NOT TO SCALE

INSTALLATION

1. INSTALL WHERE SHEET FLOW CONDITIONS EXIST.
2. WHERE NO SEDIMENT TRAP/STORMWATER DISPOSAL SYSTEM IS PRESENT, MAXIMUM SLOPE SHALL NOT EXCEED THOSE IN THE TABLE. ALSO, THE DRAINAGE AREA IS NOT TO EXCEED 1/4 ACRE PER 100 FEET OF SILT FENCE.
3. APPROVED SILT FENCE FABRICS ARE LISTED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST #36 (QPL-36). VERIFY FABRIC BY INSPECTION OF FABRIC NAME PRINTED EVERY 100 FEET OF SILT FENCE.
4. INSTALL ACCORDING TO APPROVED PLAN, AS SHOWN.
5. INSTALL ALONG CONTOURS WITH ENDS POINTING UPHILL.
6. DO NOT PLACE IN WATERWAYS OR AREAS OF CONCENTRATED FLOW.
7. START POST INSTALLATION AT THE CENTER OF THE LOWEST POINT WITH REMAINING POSTS SPACED ACCORDING TO FIGURE.
8. PROVIDE A RIPRAP SPLASH PAD OR OTHER OUTLET PROTECTION DEVICE FOR ANY POINT WHERE FLOW MAY TOP THE SEDIMENT FENCE. ENSURE THAT THE MAXIMUM HEIGHT OF THE FENCE AT A PROTECTED, REINFORCED OUTLET DOES NOT EXCEED 1 FT. AND THAT SUPPORT POST SPACING DOES NOT EXCEED 4 FT. FOR TYPE C & 6 FOR TYPE A.
9. USE MINIMUM 18" OVERLAP AT FABRIC ENDS.
10. USE A DOUBLE ROW OF TYPE "C" SILT FENCE ALONG STREAM BUFFERS AND OTHER SENSITIVE AREAS.
11. A TRENCH 6 INCHES IN DEPTH SHALL BE EXCAVATED WITH EQUIPMENT SUCH AS A TRENCHING MACHINE OR MOTOR GRADER; OR, IF EQUIPMENT CANNOT BE OPERATED ON THE SITE, BY HAND.
12. POST INSTALLATION SHALL START AT THE CENTER OF THE LOW POINT (IF APPLICABLE) WITH THE REMAINING POSTS SPACED A MAXIMUM OF 4 OR 6 FEET APART. POSTS SHALL BE INSTALLED WITH AT LEAST 18 INCHES IN THE GROUND. WHERE AN 18 INCH DEPTH IS IMPOSSIBLE TO ACHIEVE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT LOADING.
13. FILTER FABRIC SHALL BE ATTACHED TO THE POST BY WIRE, CORD, POCKETS, STAPLES, NAILS, OR OTHER ACCEPTABLE MEANS. THE FILTER FABRIC SHALL BE INSTALLED IN SUCH A MANNER THAT 8 INCHES OF FABRIC IS LEFT AT THE BOTTOM TO BE BURIED AND A MINIMUM OVERLAP OF 18 INCHES IS PROVIDED AT ALL SPLICE JOINTS. THE FABRIC SHALL BE INSTALLED IN THE TRENCH SUCH THAT 4 TO 6 INCHES OF FABRIC IS AGAINST THE SIDE OF THE TRENCH WITH 2 TO 4 INCHES OF FABRIC ACROSS THE BOTTOM IN THE UPSTREAM DIRECTION.

DEFINITION

A TEMPORARY GRADE CONTROL STRUCTURE, OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRATED FLOW.

CONDITIONS

THIS PRACTICE IS APPLICABLE FOR USE IN SMALL OPEN CHANNELS AND IS NOT TO BE USED IN A LIVE STREAM. SPECIFIC APPLICATIONS INCLUDE:

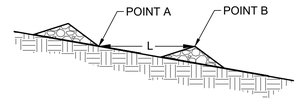
1. TEMPORARY OR PERMANENT SWALES OR DITCHES IN NEED OF PROTECTION DURING ESTABLISHMENT OF GRASS LININGS.
2. TEMPORARY OR PERMANENT SWALES OR DITCHES WHICH, DUE TO THEIR SHORT LENGTH OF SERVICE OR OTHER REASONS, CANNOT RECEIVE A PERMANENT NON-ERODIBLE LINING FOR AN EXTENDED PERIOD OF TIME.
3. OTHER LOCATIONS WHERE SMALL LOCALIZED EROSION AND RESULTING SEDIMENTATION PROBLEMS EXIST.

SPECIFICATIONS:

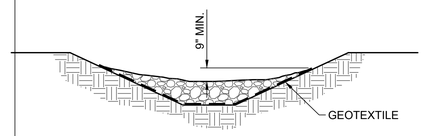
THE FOLLOWING TYPES OF CHECK DAMS ARE USED FOR THIS STANDARD:

STONE CHECK DAM

STONE CHECK DAMS SHOULD BE CONSTRUCTED OF GRADED SIZE 2-10 INCH STONE. MECHANICAL OR HAND PLACEMENT SHALL BE REQUIRED TO ENSURE COMPLETE COVERAGE OF THE ENTIRE WIDTH OF DITCH OR SWALE AND THAT CENTER OF THE DAM IS LOWER THAN THE EDGES. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
A = THE TOE OF THE UPSTREAM CHECK DAM.
B = TOP OF THE DOWNSTREAM CHECK DAM.
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.



SPACING BETWEEN CHECK DAMS
NOT TO SCALE



CROSS SECTION
NOT TO SCALE

SPACING:

TWO OR MORE CHECK DAMS IN A SERIES SHALL BE USED FOR DRAINAGE AREAS GREATER THAN ONE (1) ACRE. MAXIMUM SPACING BETWEEN DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.

GEOTEXTILES:

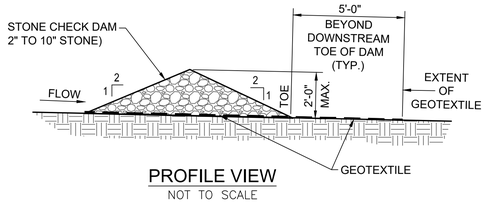
A GEOTEXTILE SHOULD BE USED AS A SEPARATOR BETWEEN THE GRADED STONE AND THE SOIL BASE AND ABUTMENTS. THE GEOTEXTILE WILL PREVENT THE MIGRATION OF SOIL PARTICLES FROM THE SUBGRADE INTO THE GRADED STONE. THE GEOTEXTILE SHALL BE SELECTED/SPECIFIED IN ACCORDANCE WITH AASHTO M288-96 SECTION 7.3, *SEPARATION REQUIREMENTS*, TABLE 3. GEOTEXTILES SHALL BE "SET" INTO THE SUBGRADE SOILS. THE GEOTEXTILE SHALL BE PLACED IMMEDIATELY ADJACENT TO THE SUBGRADE WITHOUT ANY VOIDS AND EXTEND FIVE FEET BEYOND THE DOWNSTREAM TOE OF THE DAM TO PREVENT SCOUR.

MAINTENANCE:

PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE-HALF THE ORIGINAL DAM HEIGHT OR BEFORE. IF THE AREA IS TO BE MOWED, CHECK DAMS SHALL BE REMOVED ONCE FINAL STABILIZATION HAS OCCURRED. OTHERWISE, CHECK DAMS MAY REMAIN IN PLACE PERMANENTLY. AFTER REMOVAL, THE AREA BENEATH THE DAM SHALL BE SEEDED AND MULCHED IMMEDIATELY.

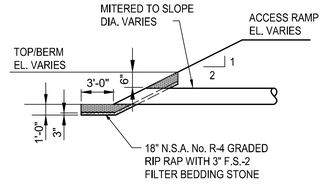
NOTES:

1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

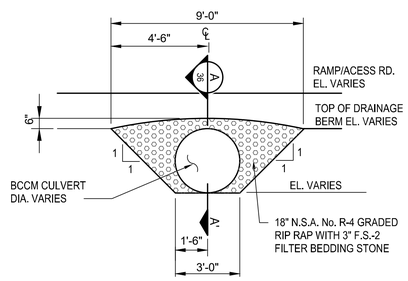


PROFILE VIEW
NOT TO SCALE

2/36 DETAIL - CHECK DAM - STONE CHECK DAM
NOT TO SCALE

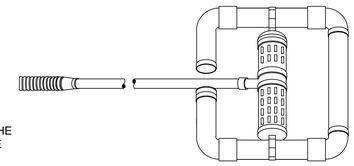


A/36 SECTION
NOT TO SCALE

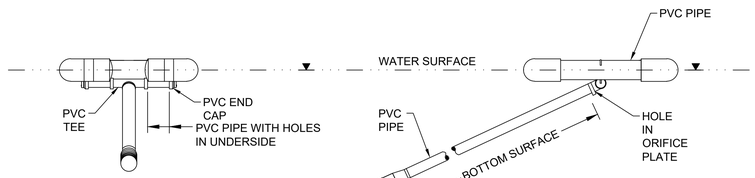


3/36 DETAIL - TYP. CULVERT INLET PROTECTION
NOT TO SCALE

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



SKIMMER
PERSPECTIVE



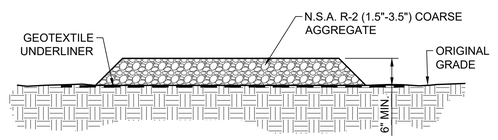
SKIMMER FRONTAL
SECTION VIEW

SKIMMER SIDE
SECTION VIEW

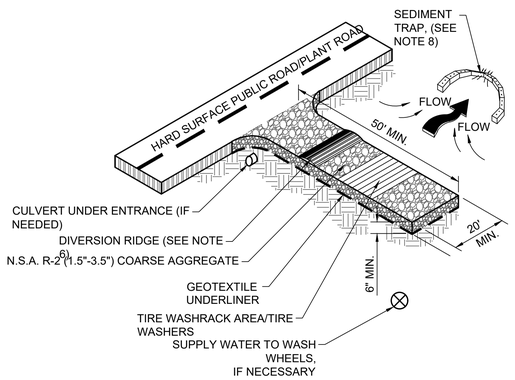
4/36 DETAIL - FLOATING SURFACE SKIMMER
NOT TO SCALE

NOTES:

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



ENTRANCE ELEVATION



EXIT DIAGRAM

5/36 DETAIL - CRUSHED STONE CONSTRUCTION EXIT
NOT TO SCALE

REFERENCES:

1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE024477 PROFESSIONAL ENGINEER MATTHEW C. VALICHAK 2/18/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
DETAILS

REVISION	DATE

REVISION 0	DATE FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION	

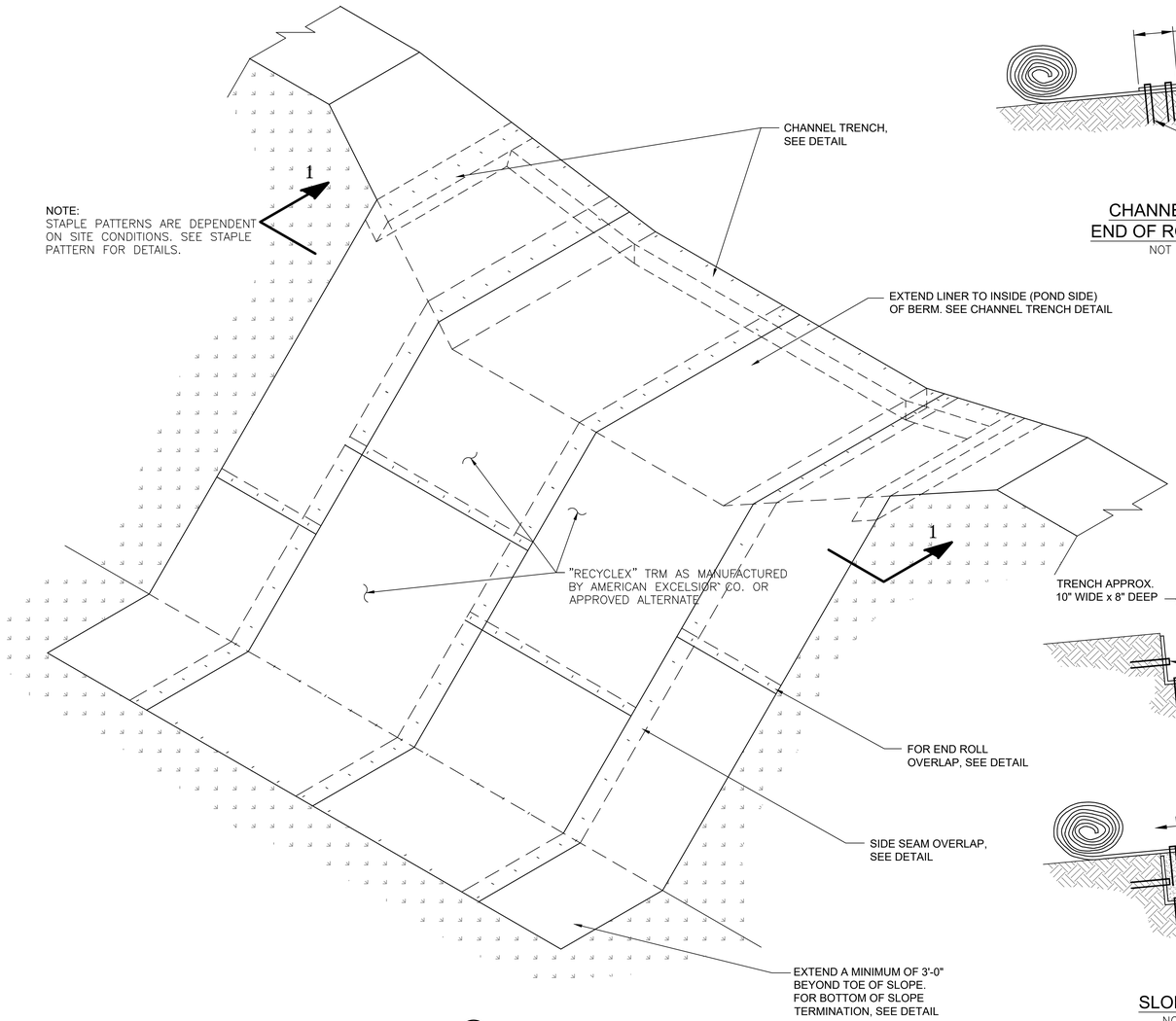
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

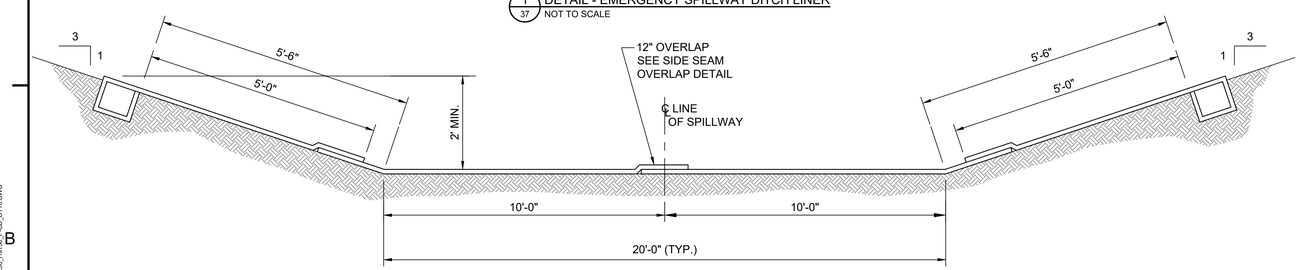
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AS SHOWN	175518236	-	36	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

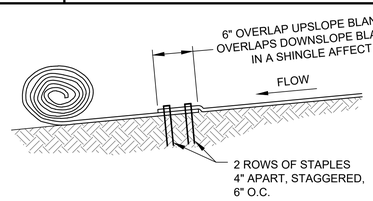
PLOT DATE: 2/6/2025, USER: MCHANEY, JAMAY
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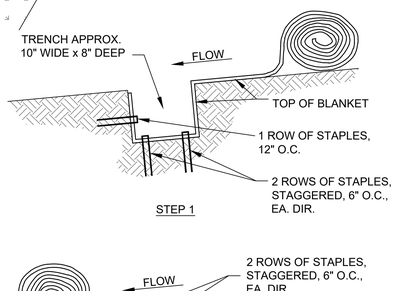
1 / 37 DETAIL - EMERGENCY SPILLWAY DITCH LINER
NOT TO SCALE



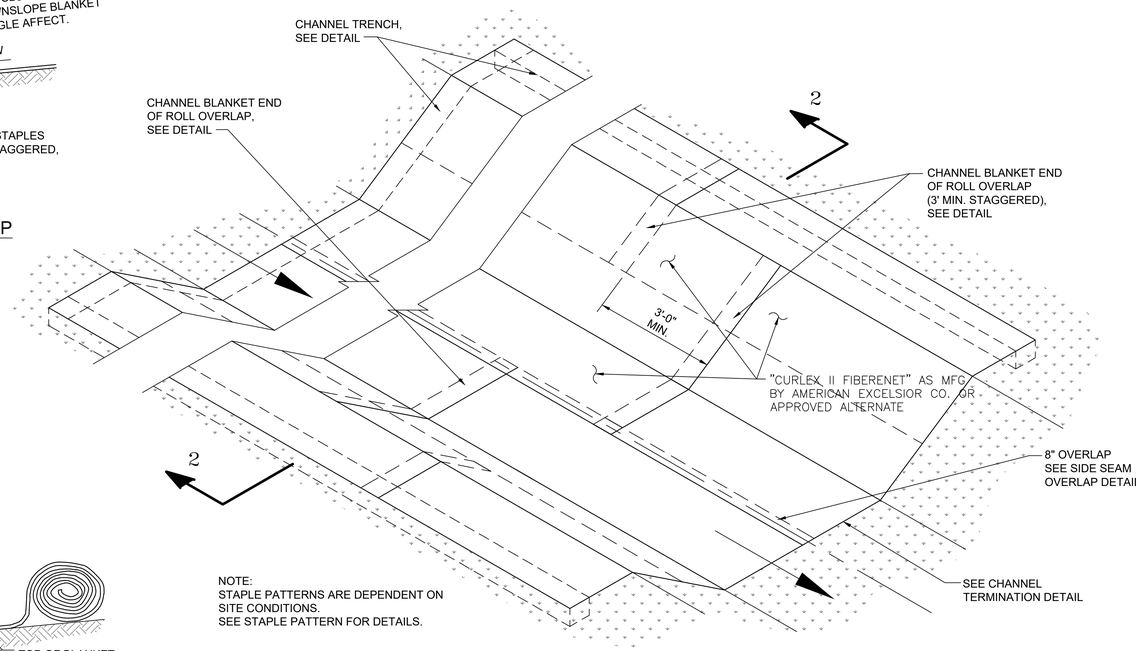
SECTION 1-1
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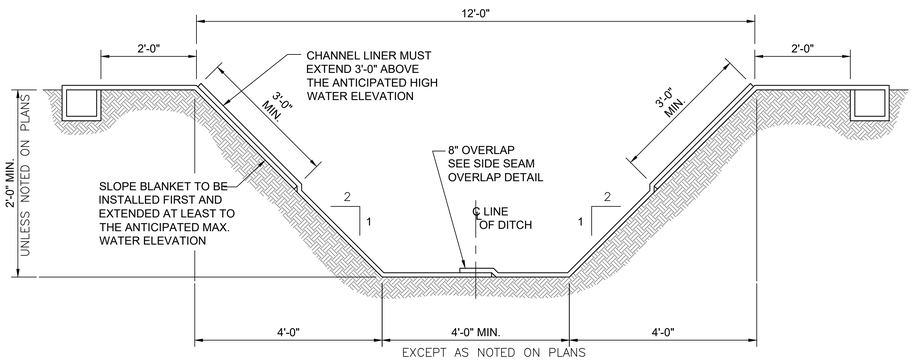
CHANNEL BLANKET END OF ROLL OVERLAP
NOT TO SCALE



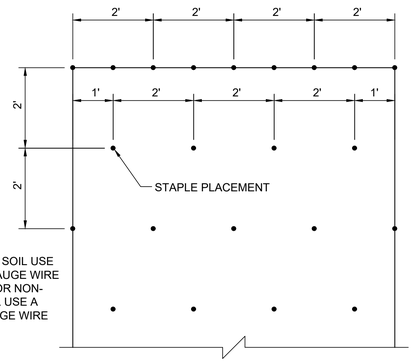
SLOPE TRENCH
NOT TO SCALE



2 / 37 DETAIL - PERIMETER DITCH LINER
NOT TO SCALE

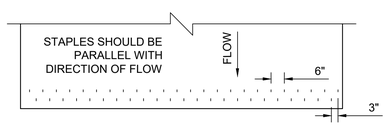


SECTION 2-2
NOT TO SCALE

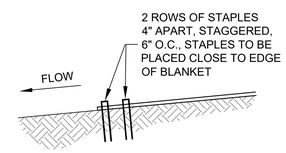


NOTE:
FOR COHESIVE SOIL USE A 6"x1"x6" 11 GAUGE WIRE STAPLE AND FOR NON-COHESIVE SOIL USE A 8"x2"x8" 11 GAUGE WIRE STAPLE.

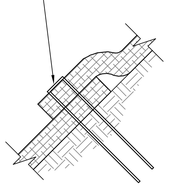
STAPLE PATTERN
NOT TO SCALE



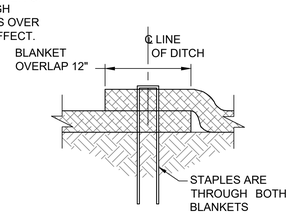
CHANNEL TERMINATION PLAN
NOT TO SCALE



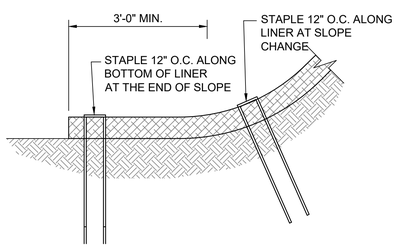
CHANNEL TERMINATION
NOT TO SCALE



END OF ROLL OVERLAP
NOT TO SCALE



SIDE SEAM OVERLAP STAPLE DETAIL
NOT TO SCALE



BOTTOM OF SLOPE TERMINATION
NOT TO SCALE

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

ISSUED FOR PERMIT

REFERENCES:
1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

GEORGIA REGISTERED No. PE044276 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/25

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

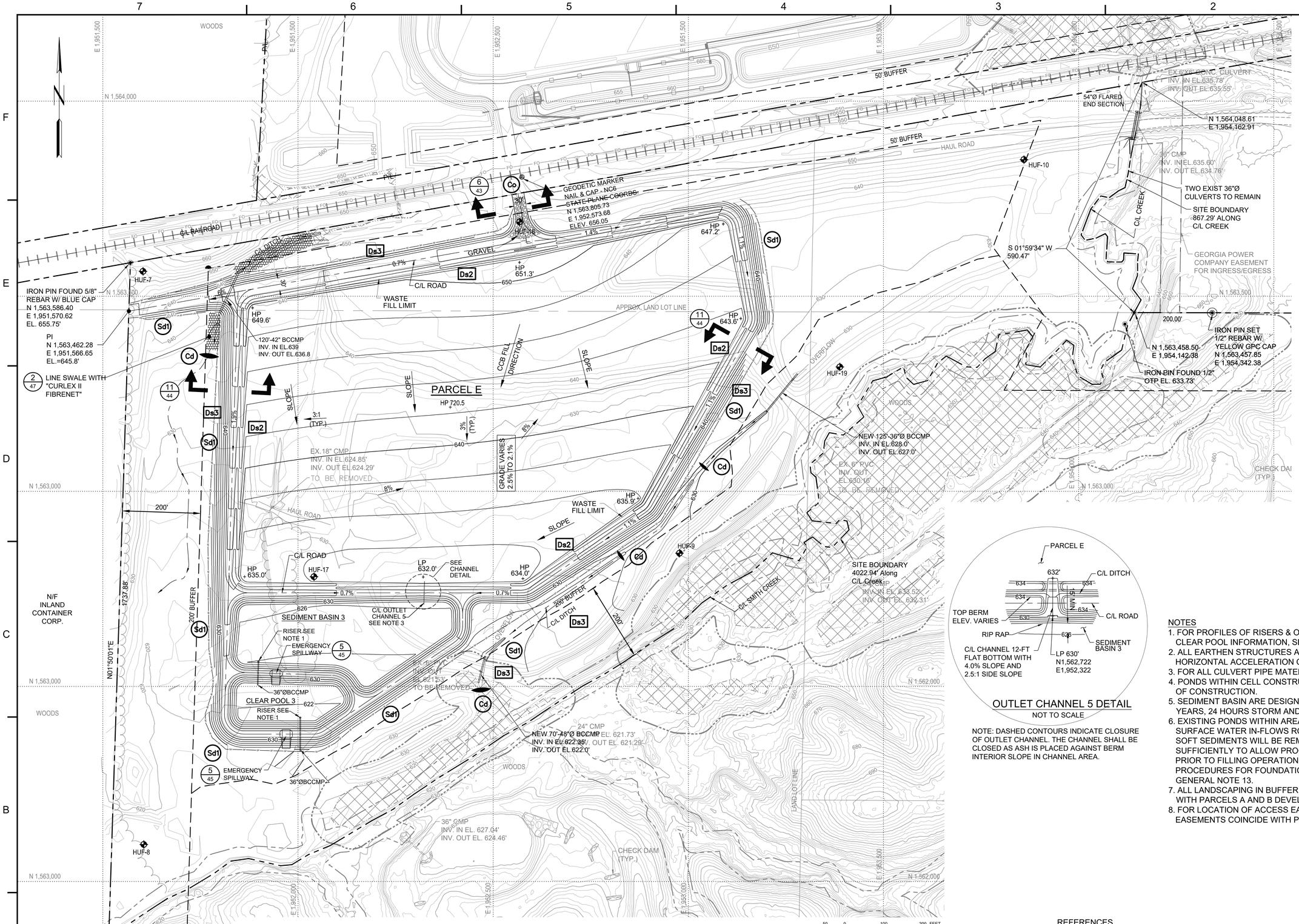
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCELS C&D
DETAILS

REVISION	DATE	BY	CHK'D	CIVIL APPR.	ELECT APPR.	I/C APPR.	MECH APPR.	MGR APPR.
0	FEBRUARY 2025	JJM	KDL	–				
ISSUED FOR CCR PERMIT APPLICATION								

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CON'T'D	REV
AS SHOWN	175518236	-	37	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/7/2025 USER: MDOWNEY, JIMMY
\\US0022-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISHEET_FILES\37_-_18236_HRHL_P-CD_DT10.DWG



LEGEND

- PROPOSED INDEX CONTOUR (500)
- PROPOSED INTERMEDIATE CONTOUR
- EXISTING INDEX CONTOUR (660)
- EXISTING INTERMEDIATE CONTOUR
- ELECTRIC LINE (E)
- OVERHEAD ELECTRIC LINE (OHE)
- FIBER OPTIC LINE (FO)
- RAILROAD
- TREELINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- PERMIT BOUNDARY
- PROPERTY LINE
- TURF REINFORCEMENT (CURLEX II FIBRENET)
- GRAVEL SURFACE
- WETLANDS
- RIPRAP
- PP POWER POLE
- IP SURVEY IRON PIN
- SURVEY CONTROL MONUMENT
- DP DISTRIBUTION POST (ELECTRICAL)
- TP TELEPHONE POST
- HUF-1 BORING/TEMPORARY PIEZOMETER LOCATION
- GEODETIC MARKER

EROSION CONTROL LEGEND:

- Cd CHECK DAM
- Co CONSTRUCTION EXIT
- Sd1 SILT FENCE — SF — SF —
- Ds2 AREA STABILIZATION (TEMPORARY VEGETATION)
- Ds3 AREA STABILIZATION (PERMANENT VEGETATION)

OUTLET CHANNEL 5 DETAIL

NOT TO SCALE

NOTE: DASHED CONTOURS INDICATE CLOSURE OF OUTLET CHANNEL. THE CHANNEL SHALL BE CLOSED AS ASH IS PLACED AGAINST BERM INTERIOR SLOPE IN CHANNEL AREA.

NOTES

1. FOR PROFILES OF RISERS & OUTLET PIPES, AND OTHER SEDIMENT BASIN AND CLEAR POOL INFORMATION, SEE SHEET 45.
2. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A MAXIMUM HORIZONTAL ACCELERATION OF 0.22g.
3. FOR ALL CULVERT PIPE MATERIALS AND PIPE BEDDING DETAILS SEE SHEET 45.
4. PONDS WITHIN CELL CONSTRUCTION AREA WILL BE DRAINED PRIOR TO START OF CONSTRUCTION.
5. SEDIMENT BASIN ARE DESIGNED TO HANDLE HYDRAULIC LOADING FOR 100 YEARS, 24 HOURS STORM AND SEDIMENT LOAD FOR LIFE OF SITE.
6. EXISTING PONDS WITHIN AREAS TO BE GRADED WILL BE DRAINED AND ANY SURFACE WATER IN-FLOWS ROUTED AWAY FROM THE POND/FILL AREAS. ANY SOFT SEDIMENTS WILL BE REMOVED AND THE SURGRADE ALLOWED TO DRY SUFFICIENTLY TO ALLOW PROOF-ROLLING OPERATIONS TO BE PERFORMED PRIOR TO FILLING OPERATIONS. PROOF-ROLLING WILL FOLLOW THE PROCEDURES FOR FOUNDATION PREPARATION SPECIFIED ON SHEET 74, GENERAL NOTE 13.
7. ALL LANDSCAPING IN BUFFER ZONES WILL BE PERFORMED CONCURRENT WITH PARCELS A AND B DEVELOPMENT.
8. FOR LOCATION OF ACCESS EASEMENTS, SEE SHEET 84. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

GEORGIA REGISTERED No. 12087 PROFESSIONAL ENGINEER TIMOTHY M. McWHORTER 2/12/25

GEORGIA REGISTERED No. PE024402 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

REFERENCES

1. FOR A COMPLETE DRAWING LIST SEE SHEET 1.
2. SEE SHEET 74 FOR GENERAL NOTES.

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

Stantec Consulting Services, Inc.
FOR

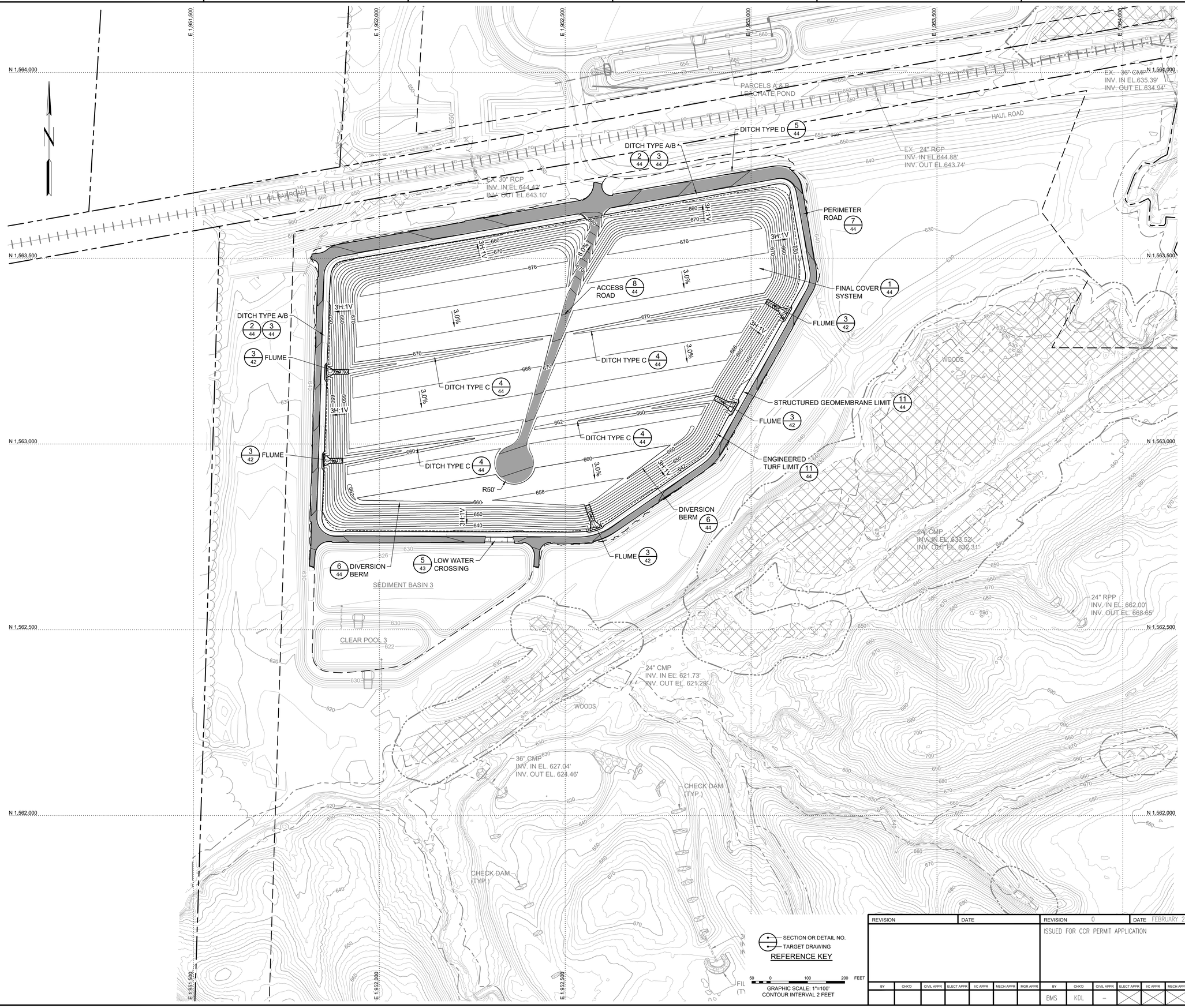
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL E
SITE DEVELOPMENT PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	38	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 02/20/2025 USER: MCKINNEY, JIMMY
\\SRSDES-PPFS001\SHARED_PROJECTS\175518236\TECH\CAL_PRODUCTION\DRAWINGS\PHL_PERMITRE\SHEET_FILES\38_18236_HH-HU_P-E_SDP.DWG



MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTES:

1. THE PROPOSED CONTOURS SHOWN REPRESENT THE TOP OF THE CLOSURE CAP SYSTEM.
2. THE BASEMAP HAS BEEN MODIFIED TO REFLECT A MERGE OF EXISTING CONDITIONS AND TOP OF SUBGRADE DESIGN SURFACES.

LEGEND

- 500 — EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- BASELINE
- E — ELECTRIC LINE
- FO — FIBER OPTIC LINE
- RAILROAD
- WETLANDS BUFFER
- STREAM BUFFER
- PP — POWER POLE
- IP — SURVEY IRON PIN
- SURVEY CONTROL MONUMENT
- 500 — PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPERTY LINE
- PROPERTY LINE BUFFER
- LIMITS OF CONSTRUCTION
- WETLANDS
- RIPRAP
- ROAD

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

50 0 100 200 FEET
GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL 2 FEET

GEORGIA REGISTERED No. PE044731 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

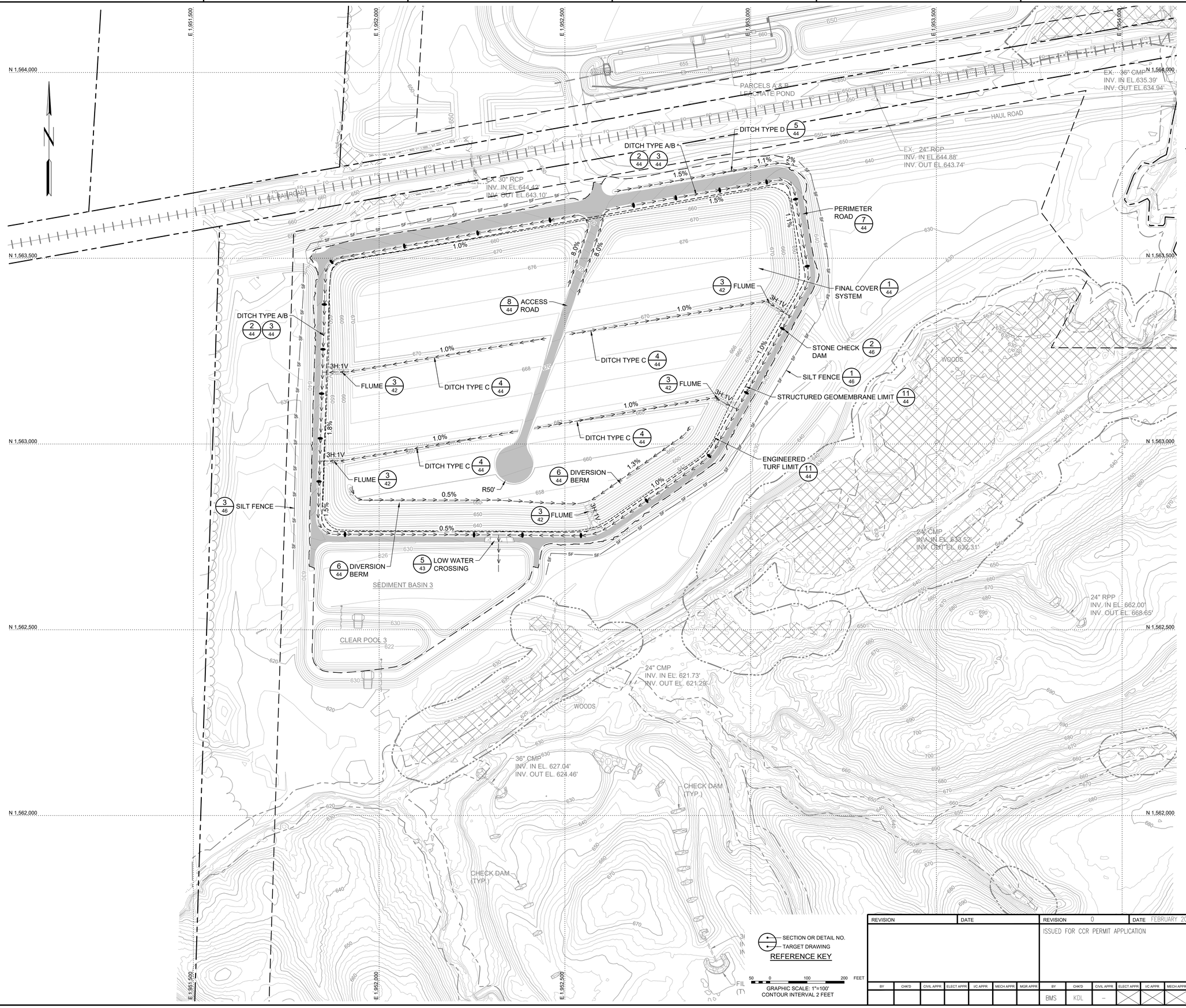
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL E
FINAL GRADE PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	39	FINAL	0

PLOT DATE: 10/29/2024, USER: MCKINNEY, JIMMY
N:\SSGS\PROJ\PS\SHARED_PROJECTS\185\85\TECHNICAL_PRODUCTION\DRAWINGS\RL_PERMIT\REVISHEET_FILES\39_1828_HH41_P-E_FGP.DWG

ANSI F: 28x40 AUTOCAD 2023



MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTES:

1. THE BASEMAP HAS BEEN MODIFIED TO REFLECT A MERGE OF EXISTING CONDITIONS, TOP OF SUBGRADE, AND TOP OF FINAL GRADE DESIGN SURFACES.
2. RUNOFF IS COLLECTED BY THE CAP DITCHES AND DIVERSION BERMS AND ROUTED TO THE FLUMES. THE FLUMES CONVEY FLOW TO THE PERIMETER DITCHES WHICH DISCHARGE ACROSS THE LOW WATER CROSSING AND INTO THE EXISTING STORMWATER POND. FLOW ARROWS INDICATE DIRECTION AND ROUTING OF STORMWATER.

LEGEND

- 500 — EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- BASELINE
- E — ELECTRIC LINE
- FO — FIBER OPTIC LINE
- RAILROAD
- WETLANDS BUFFER
- STREAM BUFFER
- PP — POWER POLE
- IP — SURVEY IRON PIN
- SURVEY CONTROL MONUMENT
- 500 — PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPERTY LINE
- PROPERTY LINE BUFFER
- LIMITS OF CONSTRUCTION
- WETLANDS
- RIPRAP
- ROAD
- DITCH LINE
- SF — SILT FENCE
- STONE CHECK DAM

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

50 0 100 200 FEET
GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL 2 FEET

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE041281 MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

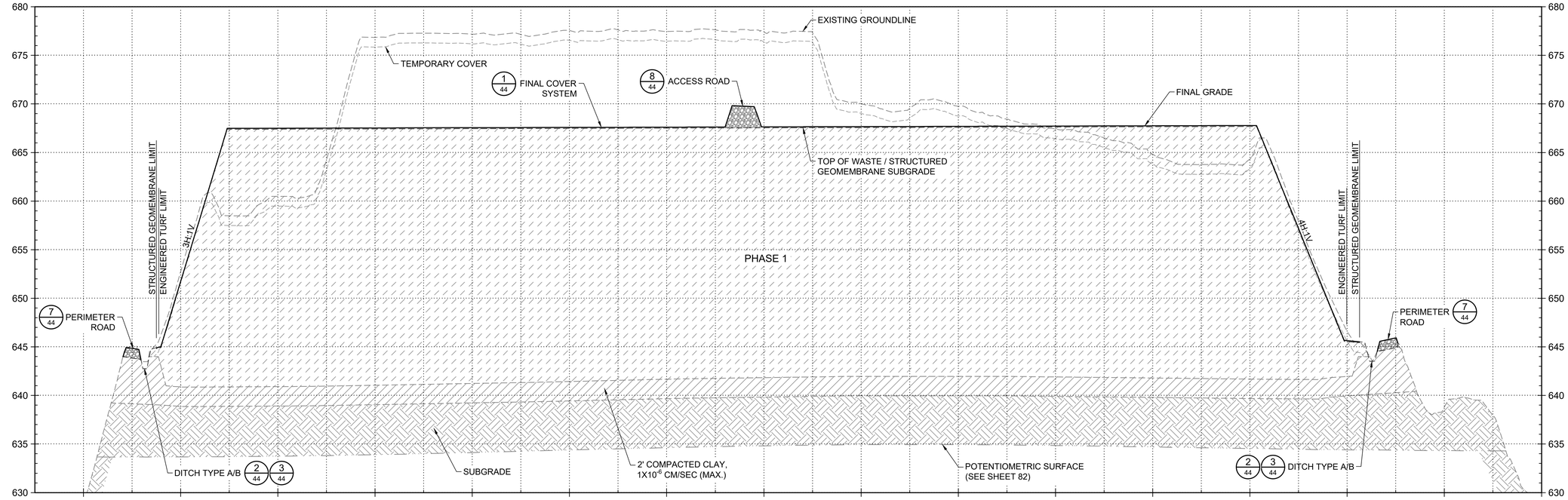
Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL E
STORMWATER MANAGEMENT PLAN

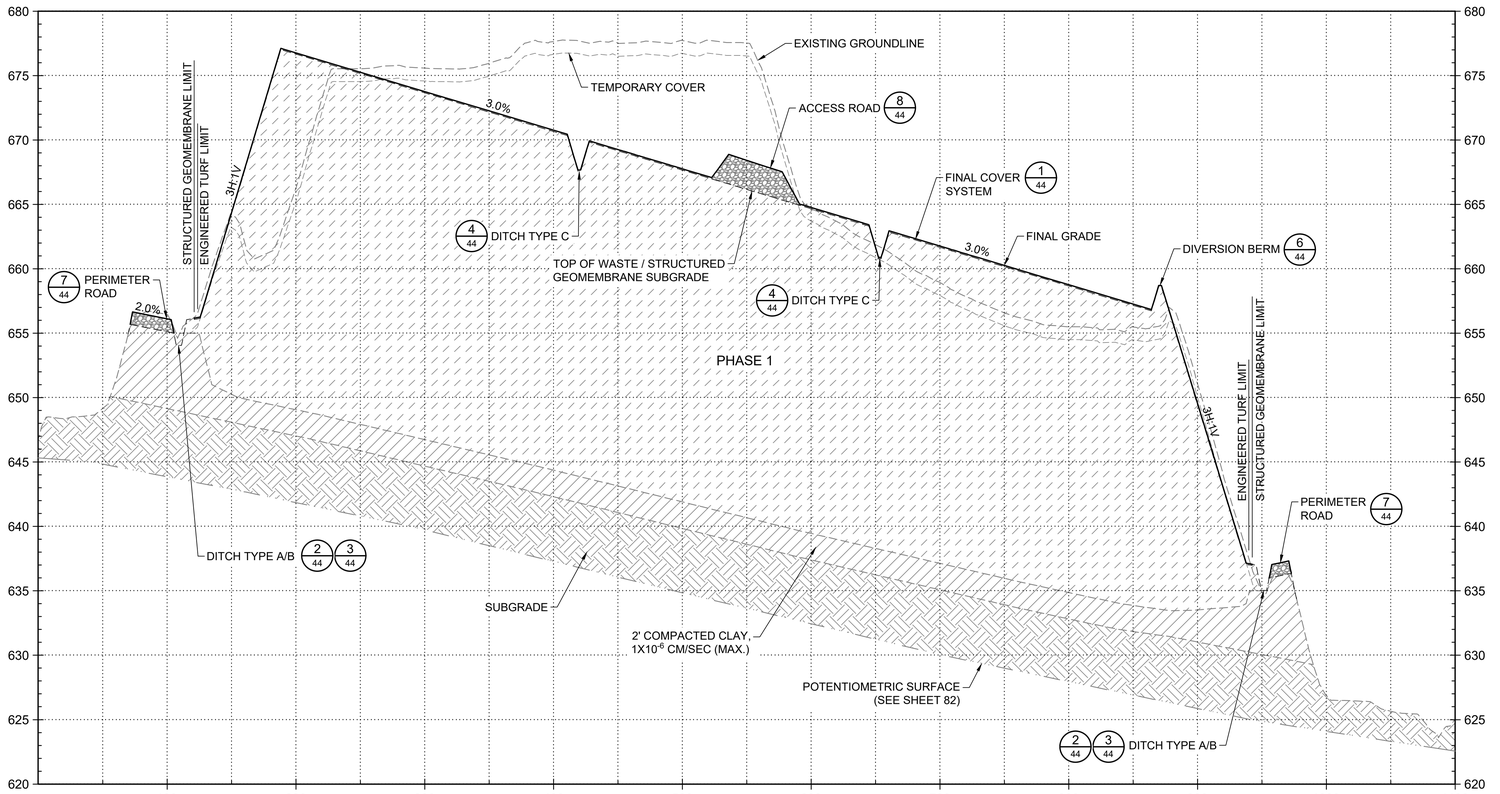
SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV.
AS SHOWN	175518236	-	40	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

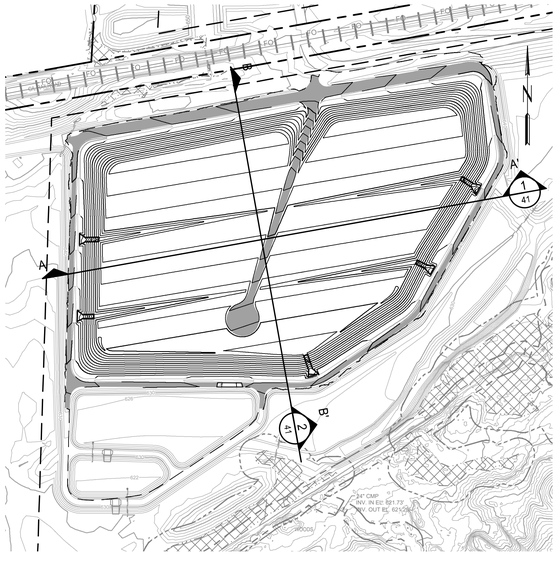
PLOT DATE: 10/30/2024 USER: MCKINNEY, JIMMY
\\SSOS2APPPS001\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\PLT_PERMIT\REVISIONS\SHEET_FILES\40_18X36_HPHH_PLT_SWP.DWG



1/41 CROSS SECTION A-A'
SCALE: 1"=50' (H) 1"=5' (V)



2/41 CROSS SECTION B-B'
SCALE: 1"=50' (H) 1"=5' (V)



KEY PLAN
SCALE: 1"=200'

100 0 200 400 FEET
GRAPHIC SCALE: 1"=200'
CONTOUR INTERVAL 2 FEET

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

NOTES:
1. THE ILLUSTRATED COMPACTED CLAY LAYER IS BASED ON CONTOURS SHOWN ON SHEET 38.
2. CROSS SECTION MAY BE SKEWED TO THE GRADING. SEE FINAL GRADE PLAN FOR DESIGN SLOPES.

GEORGIA REGISTERED No. PE044[illegible] PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 5/1/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

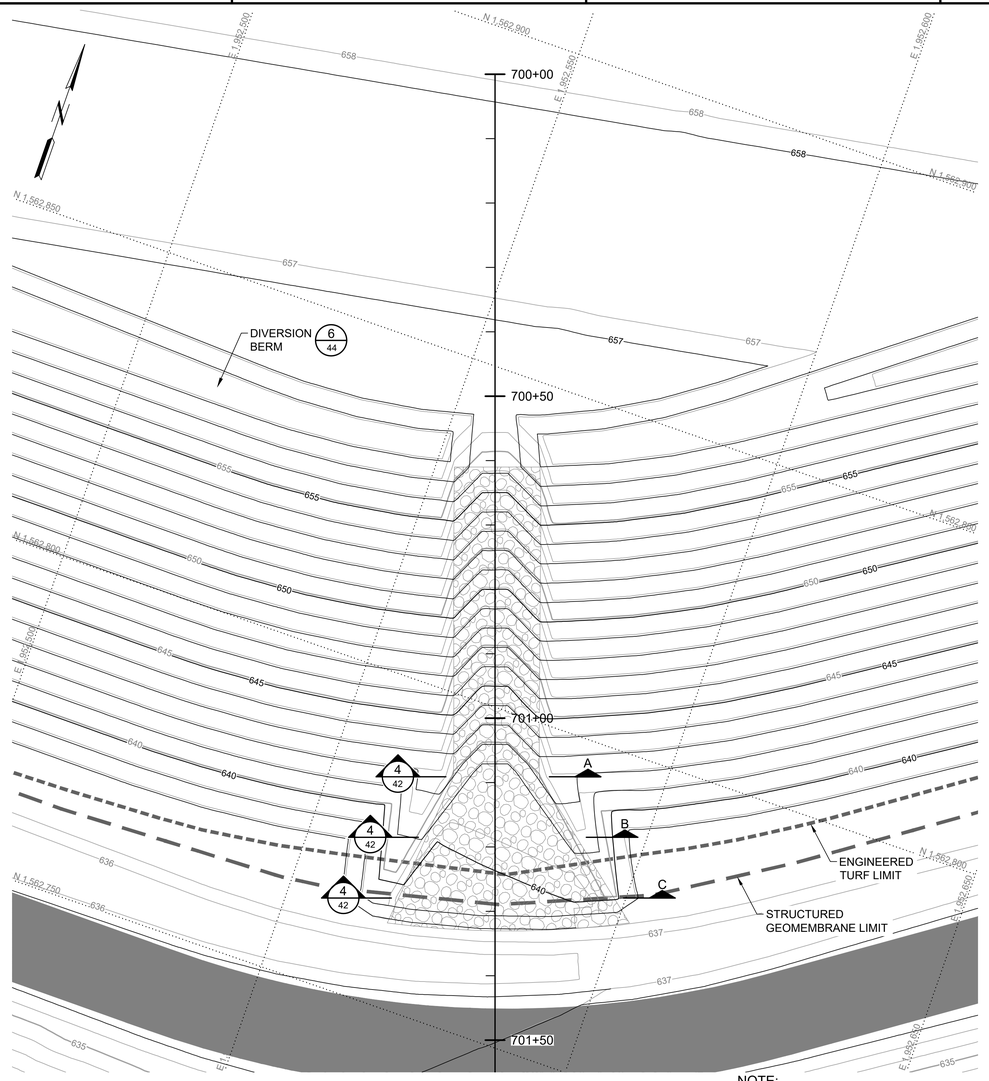
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL E
CROSS SECTIONS

SCALE	PROJ I.D.	DRAWING NUMBER	SH.	CONT'D	REV.
AS SHOWN	175518236	-	41	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

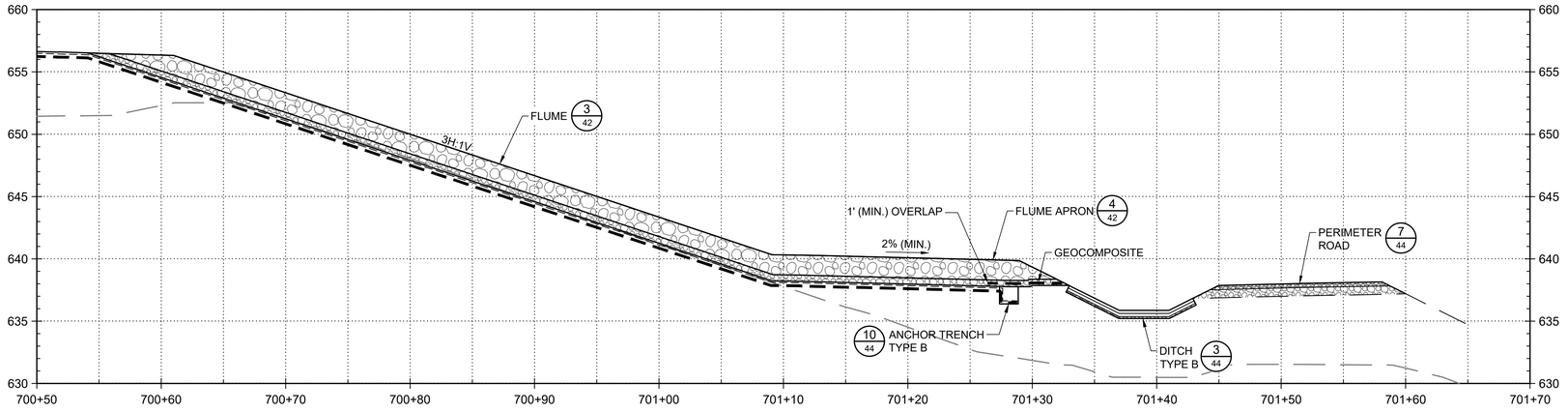
PLOT DATE: 02/20/2025 USER: MCKINNEY, JIMMY
\\SSS22APPS001\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\PHA_PERMITREVISION\SHEET_FILES\41_1836_HH15_P-E_XSC.DWG



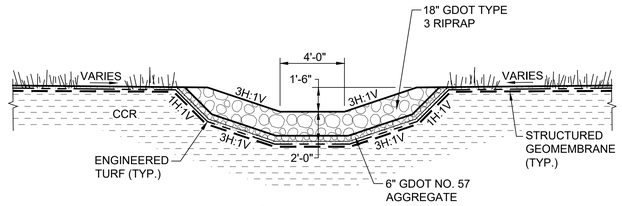
1 / 42 PLAN - FLUME/DITCH CONFLUENCE
SCALE: 1"=10'

10 0 20 40 FEET
GRAPHIC SCALE: 1"=20'
CONTOUR INTERVAL 1 FOOT

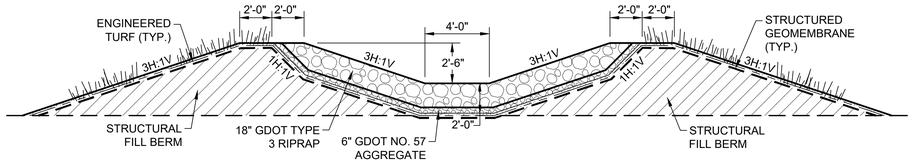
NOTE:
STATIONING PROVIDED FOR PROFILE AND DETAIL CLARITY.



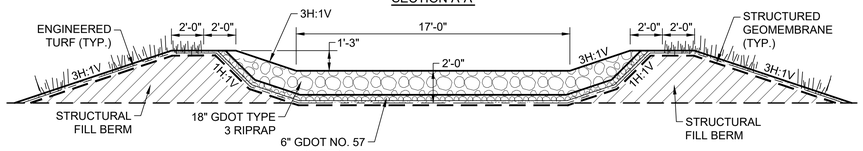
2 / 42 PROFILE - FLUME/DITCH CONFLUENCE
SCALE: 1"=5'



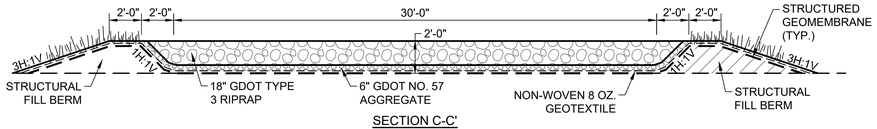
3 / 42 DETAIL - FLUME
SCALE: 1/4"=1'-0"



SECTION A-A'



SECTION B-B'



SECTION C-C'

NOTE:
THE TRANSITION FROM DETAIL 3 OF 11 TO SECTION A-A' OCCURS JUST AFTER THE SLOPE TRANSITION FROM A 3H:1V.

4 / 42 DETAIL - FLUME APRON
SCALE: 1/4"=1'-0"

MAPPING SOURCE NOTES:
1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER
MATTHEW C. VAUGHAN
2/11/25

ISSUED FOR PERMIT

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

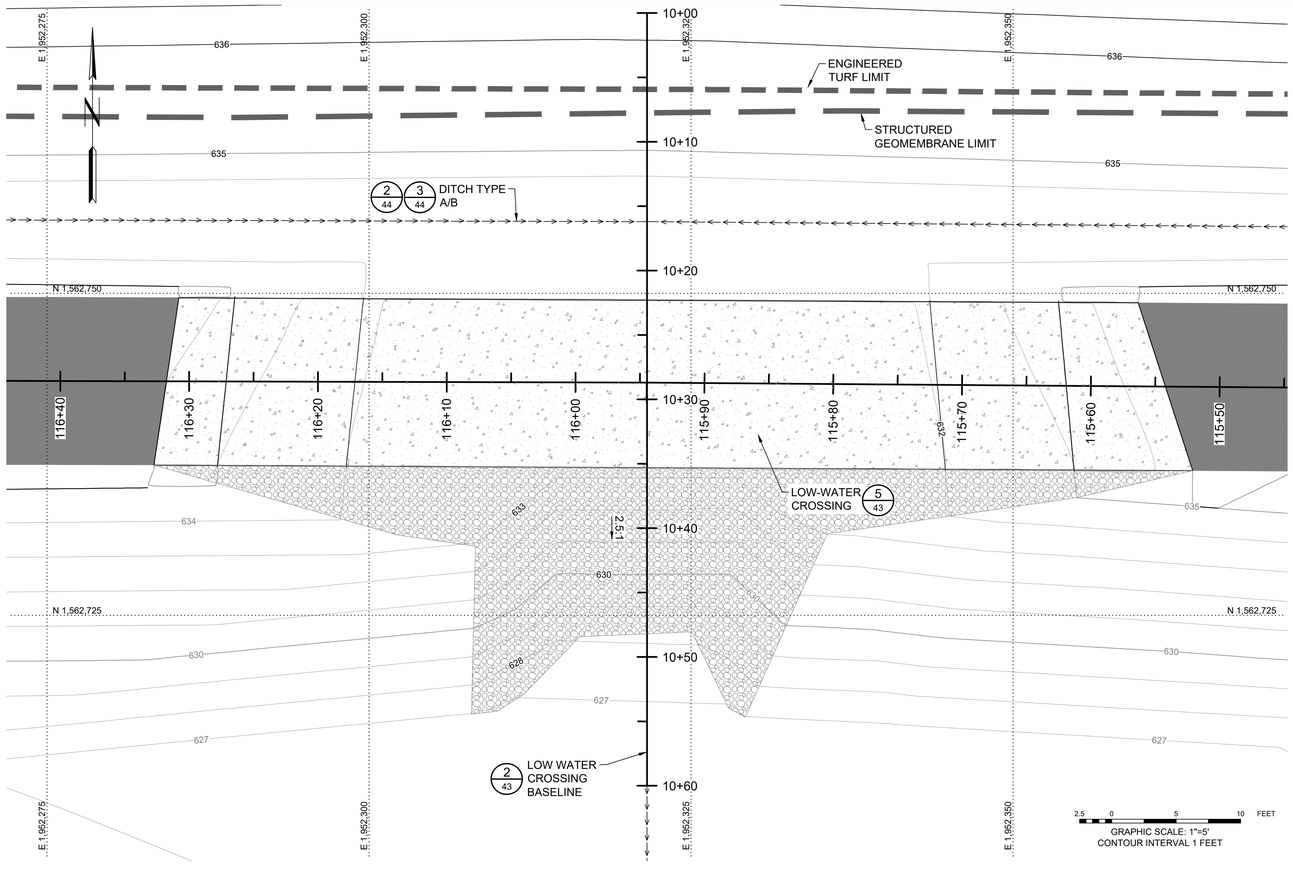
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL E
DETAILS

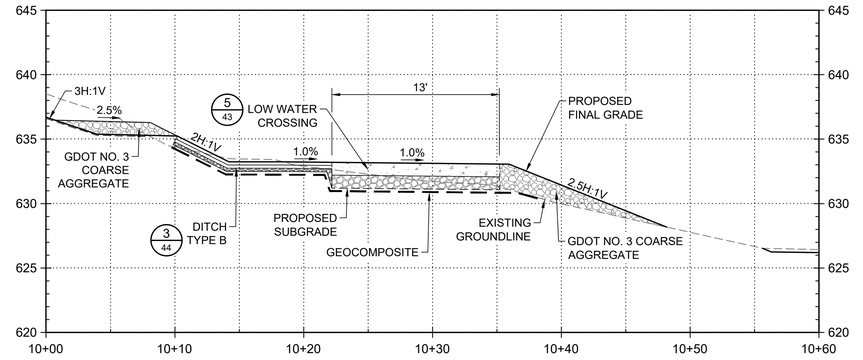
SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	42	FINAL	0

PLOT DATE: 02/20/2025 USER: MCKINNEY, JIMMY
\\SRSOUE\PPS\SRS\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\PRL_PERMIT\REVISHEET_FILES\42_18236_P-E_DT1.DWG

ANSI F: 28x40 AUTOCAD 2023



1 43 LOW WATER CROSSING PLAN
SCALE: 1"=5'



2 43 PROFILE - LOW WATER CROSSING BASELINE
SCALE: 1"=5'

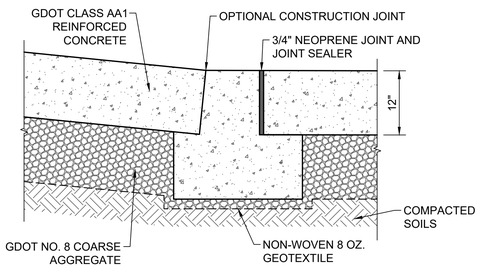
MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

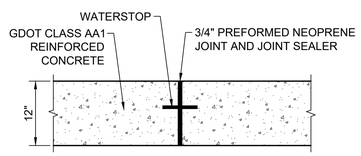
NOTE:
THE LOW WATER CROSSING WAS DESIGNED TO CONVEY A VEHICLE WITH A 22-KIP AXLE LOAD.

LEGEND

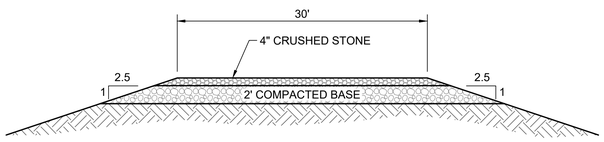
- 500 — EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- BASELINE
- 500 — PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- RIPRAP
- PERIMETER ROAD



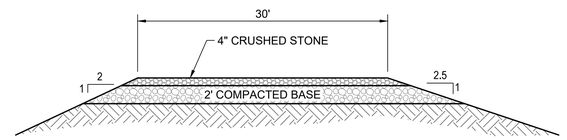
3 43 DETAIL - PERIMETER FOOTER
SCALE: 1"=1'-0"



4 43 DETAIL - EXPANSION JOINT
SCALE: 1"=1'-0"

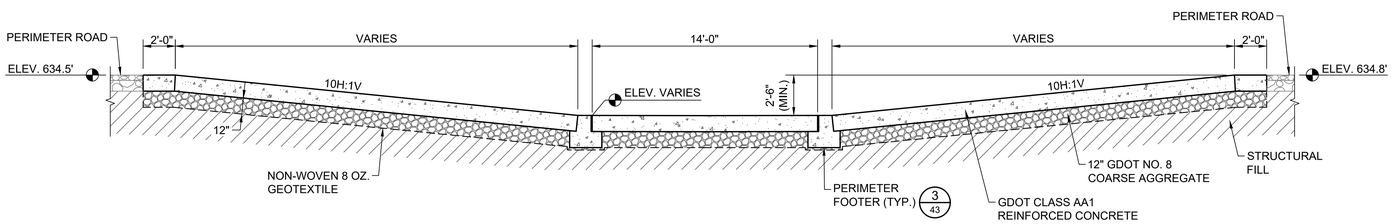


SECTION A-A



SECTION B-B

6 43 DETAIL - TYPICAL ACCESS ROAD
NOT TO SCALE



5 43 DETAIL - LOW WATER CROSSING
SCALE: 1/4"=1'-0"

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044[illegible] PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/14/25

ISSUED FOR PERMIT

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

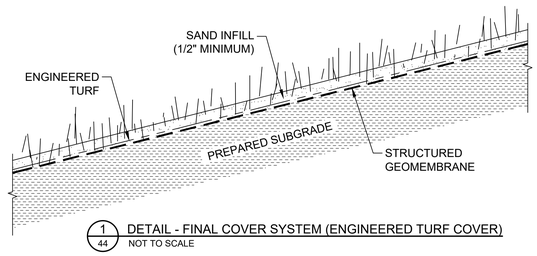
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL E
DETAILS

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

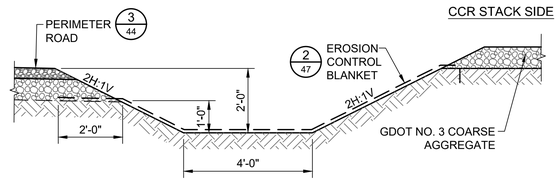
SCALE	PROJ I.D.	DRAWING NUMBER	SH	CON'D	REV
AS SHOWN	175518236	-	43	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 02/20/2025 USER: MCKINNEY, JIMMY
\\SRSOZE-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\PRL_PERMITREVISHEET_FILES\43_1836_P-E_DTL.DWG

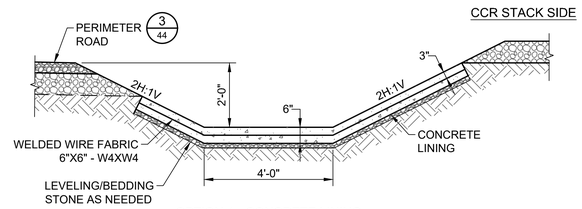


1 / 44 DETAIL - FINAL COVER SYSTEM (ENGINEERED TURF COVER)
NOT TO SCALE

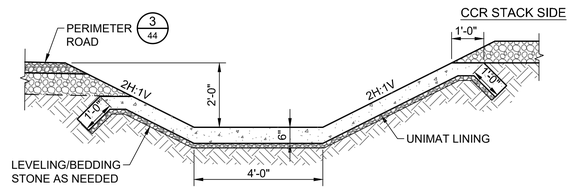


NOTE:
DITCH TYPE A TO BE REVEGETATED FOLLOWING RESHAPING/REGRADING TO THE ILLUSTRATED CONFIGURATION.

2 / 44 DETAIL - DITCH TYPE A
SCALE: 1/2"=1'-0"

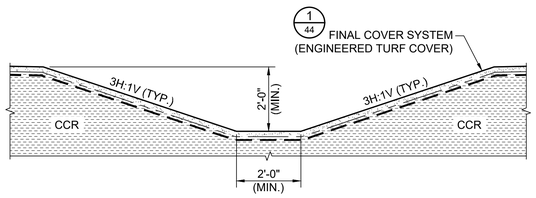


OPTION 1 - CONCRETE LINING

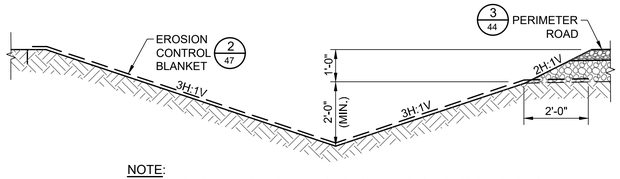


OPTION 2 - UNIMAT LINING

3 / 44 DETAIL - DITCH TYPE B
SCALE: 1/2"=1'-0"

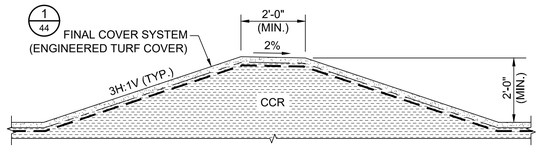


4 / 44 DETAIL - DITCH TYPE C
SCALE: 1/2"=1'-0"

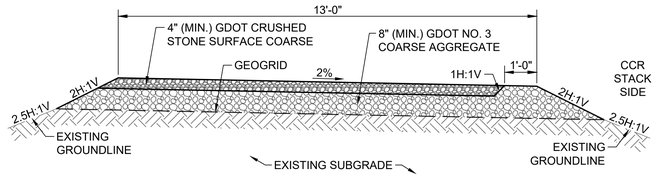


NOTE:
DITCH TYPE D TO BE REVEGETATED FOLLOWING RESHAPING/REGRADING TO THE ILLUSTRATED CONFIGURATION.

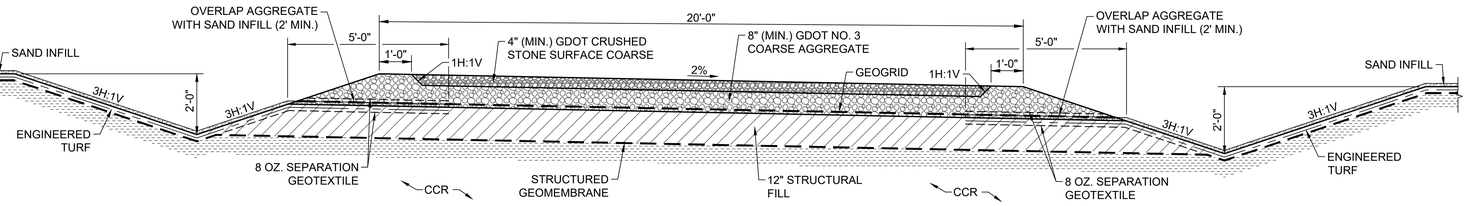
5 / 44 DETAIL - DITCH TYPE D
SCALE: 1/2"=1'-0"



6 / 44 DETAIL - DIVERSION BERM
SCALE: 1/2"=1'-0"

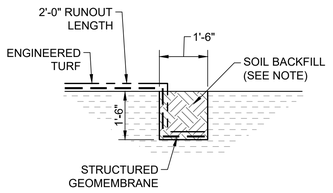


7 / 44 DETAIL - PERIMETER ROAD
SCALE: 1/2"=1'-0"



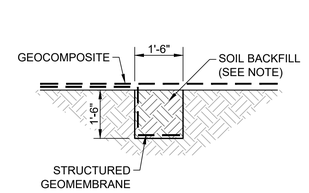
NOTES:
1. DITCHES ON EITHER SIDE OF THE ACCESS ROAD ARE CONSTRUCTED ONLY BETWEEN APPROXIMATE STATIONS 201+16 AND 203+58.
2. STRUCTURAL FILL SHALL BE TRACKED IN PLACE WITH LOW GROUND PRESSURE EQUIPMENT.

8 / 44 DETAIL - ACCESS ROAD
SCALE: 1/2"=1'-0"



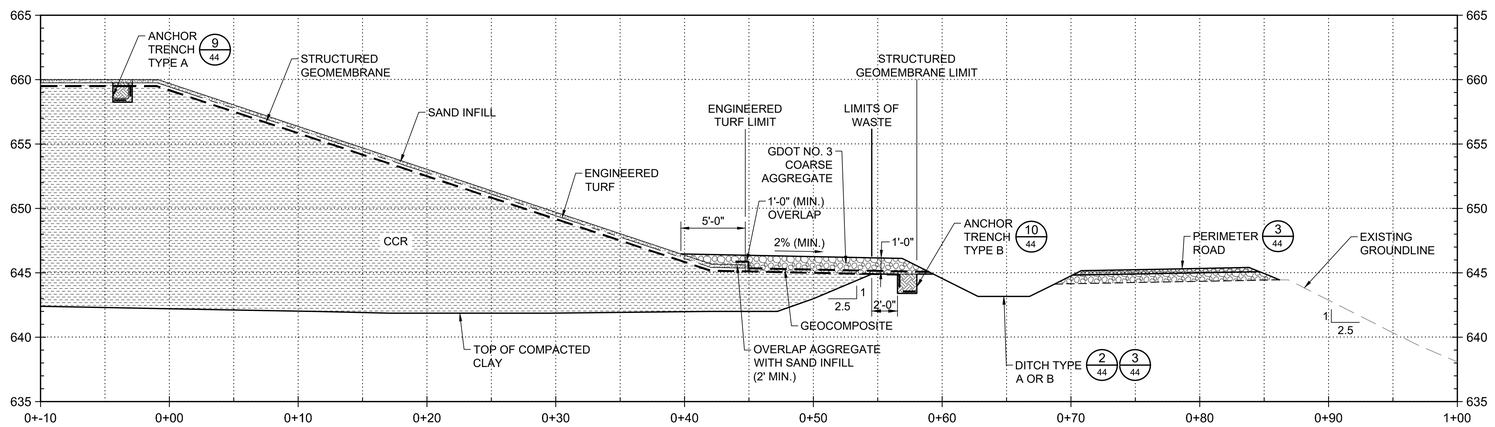
NOTE:
SOIL BACKFILL FOR ANCHOR TRENCH TYPE A SHALL CONSIST OF STRUCTURAL FILL PLACED/COMPACTED IN ACCORDANCE WITH ANCHOR TRENCH REQUIREMENTS PER THE TECHNICAL SPECIFICATIONS.

9 / 44 DETAIL - ANCHOR TRENCH TYPE A
SCALE: 1/2"=1'-0"



NOTE:
SOIL BACKFILL FOR ANCHOR TRENCH TYPE B SHALL CONSIST OF STRUCTURAL FILL PLACED/COMPACTED IN ACCORDANCE WITH ANCHOR TRENCH REQUIREMENTS PER THE TECHNICAL SPECIFICATIONS.

10 / 44 DETAIL - ANCHOR TRENCH TYPE B
SCALE: 1/2"=1'-0"



11 / 44 DETAIL - TYPICAL EXTERIOR BERM AND COVER/CAP
SCALE: 1"=5'

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL E
DETAILS

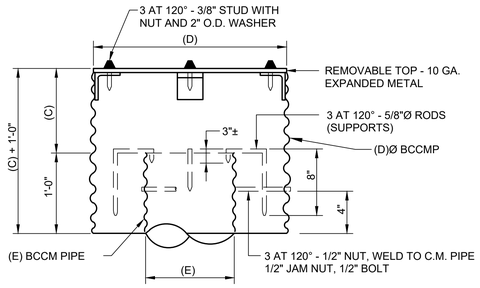
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
0	NOVEMBER 2024	–	–	–				
0	FEBRUARY 2025	BMS	KDL	–				

ISSUED FOR CCR PERMIT APPLICATION

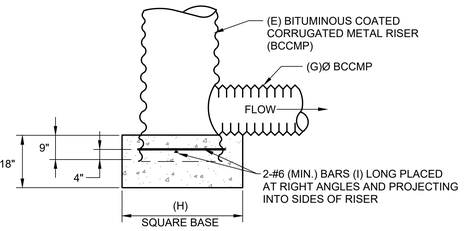
SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	44	FINAL	0

PLOT DATE: 10/29/2024 USER: MCKINNEY, JIMMY
\\SSOSLFPVS001\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HAL_PERMITTED\SHEET_FILES\44_1836_P-E_073.DWG

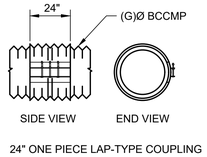
ANSI F: 28x40 AUTOCAD 2023



1 45 DETAIL - TRASH RACK
NOT TO SCALE

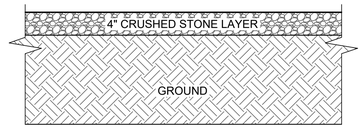


2 45 DETAIL - CONCRETE RISER BASE
NOT TO SCALE



24" ONE PIECE LAP-TYPE COUPLING

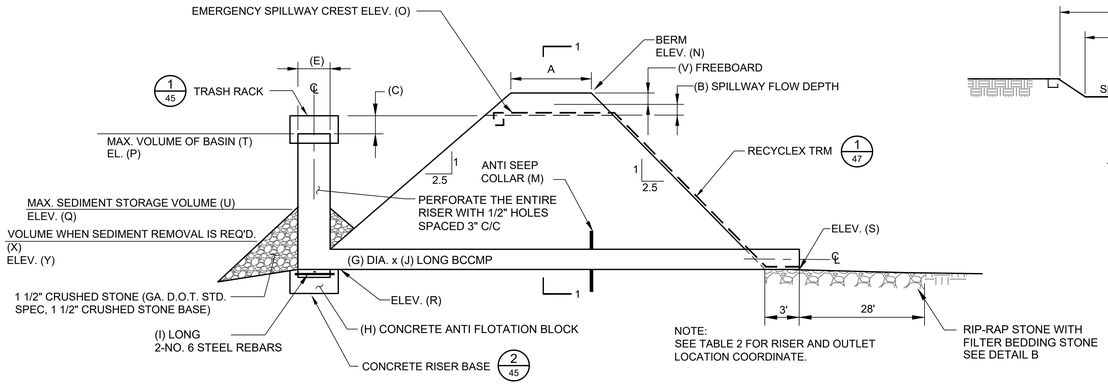
3 45 DETAIL - COUPLING
NOT TO SCALE



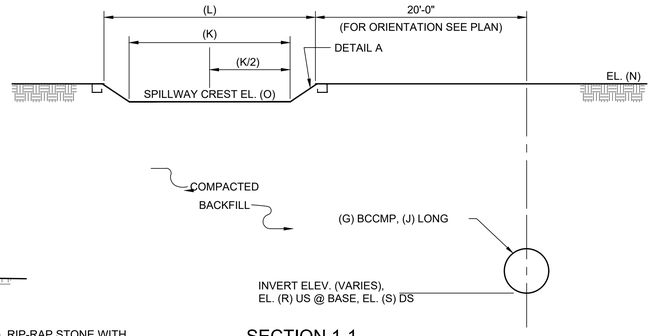
4 45 DETAIL - MARKER BED
NOT TO SCALE

CULVERT OUTLET RIPRAP DETAILS (@ NEW CULVERT ONLY)

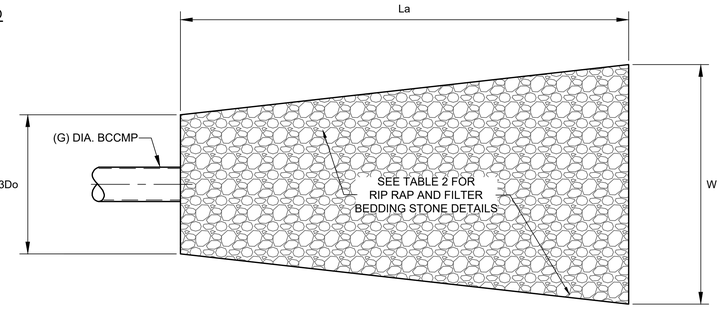
Pipe Diam.	Pipe Type	La	3Do	W	Rip Rap	Thick	Filter Bedding Stone
12"	BCCMP	12'	3'	13'	N.S.A. #R-4	18"	N.S.A #FS-2
24"	BCCMP	20'	6'	22'	N.S.A. #R-5	27"	N.S.A #FS-2
30"	BCCMP	22'	7.5'	25'	N.S.A. #R-5	27"	N.S.A #FS-2
36"	BCCMP	24'	9'	27'	N.S.A. #R-5	27"	N.S.A #FS-2
42"	BCCMP	26'	10.5'	30'	N.S.A. #R-5	27"	N.S.A #FS-2
48"	BCCMP	28'	12'	32'	N.S.A. #R-6	36"	N.S.A #FS-3
60"	RCP	32'	15'	37'	N.S.A. #R-6	36"	N.S.A #FS-3



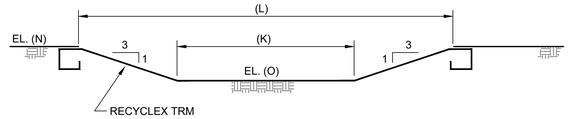
5 45 DETAIL - RISER AND OUTLET PIPE FOR SEDIMENT BASIN AND CLEAR POOL
NOT TO SCALE



SECTION 1-1
NOT TO SCALE



DETAIL B
NOT TO SCALE



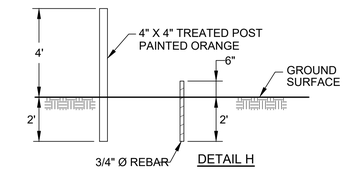
DETAIL A
NOT TO SCALE

TABLE 1 - SEDEMENTATION POND AND CLEAR POOL DETAILS

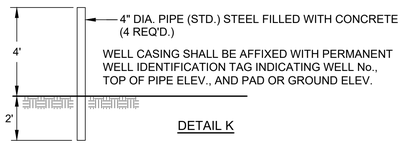
		SEDIMENT BASIN 3	CLEAR POOL 3
TOP WIDTH OF BERM	A	8'	13'
EMERGENCY SPILLWAY FLOW DEPTH	B	0.5'	0.5'
STORAGE LEVEL - DIFFERENCE BETWEEN RISER AND EMER. SPILLWAY	C	1.0'	2.0'
TRASH RACK DIAMETER	D	66"	66"
RISER DIAMETER	E	48"	48"
RISER LENGTH (INCLUDES 9" INTO ANTIFLOTATION BLOCK)	F	6'-9"	7'-9"
PRINCIPAL SPILLWAY PIPE DIAMETER	G	36"	36"
CONCRETE ANTIFLOTAION BLOCK	H	84"x 84"x 18"	84"x 84"x 18"
LENGTH OF RISER ANCHORING BARS (REBAR)	I	78"	78"
LENGTH OF PRINCIPAL SPILLWAY PIPE	J	60'	86'
EMERGENCY SPILLWAY BOTTOM WIDTH	K	20'	20'
EMERGENCY SPILLWAY TOP WIDTH	L	32'	32'
ANTISEEP COLLAR	M	72" x 72"	72" x 72"
ELEVATION OF TOP OF BERM, FT MSL	N	633.0 ft	633.0 ft
ELEVATION OF EMERGENCY SPILLWAY CREST, FT MSL	O	631.0 ft	631.0 ft
ELEVATION OF TOP OF RISER, FT MSL	P	630.0 ft	629.0 ft
MAXIMUM SEDIMENT STORAGE ELEV., FT MSL	Q	626.0 ft	625.0 ft
ELEVATION OF PRINCIPAL SPILLWAY AT INLET, FT MSL (BOTTOM POND EL.)	R	624.0 ft	622.0 ft
ELEVATION OF PRINCIPAL SPILLWAY AT OUTLET, FT MSL	S	623.7 ft	620.0 ft
MAXIMUM VOLUME OF BASIN, CUBIC YARDS	T	16,794	6,917
MAXIMUM SEDIMENT STORAGE VOLUME, CUBIC YARDS	U	3,460	2,428
FREEBOARD	V	1.5'	1.5'
CLEAN OUT VOLUME, CUBIC YARDS	X	596	809
ELEVATION WHEN CLEANOUT REQUIRED	Y	624.5	623.3

TABLE 2 - RISER AND OUTLET LOCATION COORDINATES

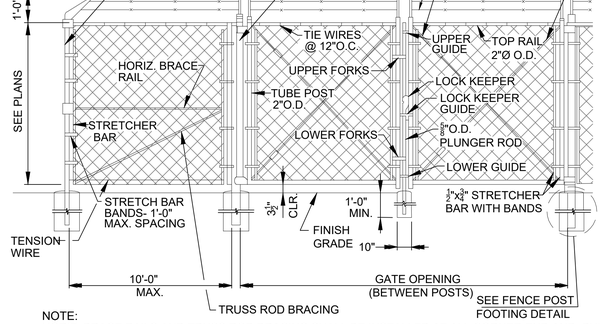
	RISER CENTER		OUTLET DISCHARGE	
	NORTHING	EASTING	NORTHING	EASTING
SEDIMENT BASIN 3	1,562,563.49	1,951,908.82	1,562,504.24	1,951,909.33
CLEAR POOL 3	1,562,420.36	1,952,005.71	1,562,334.36	1,952,005.57



6 45 DETAIL - TYPICAL DISPOSAL SITE BOUNDARY AND BUFFER ZONE PIN AND MARKER
NOT TO SCALE

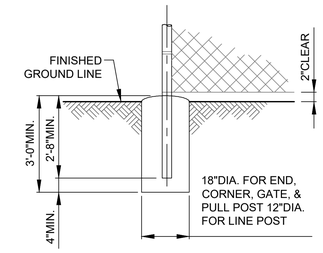


7 45 DETAIL - TYPICAL GROUNDWATER MONITORING WELL MARKER PROTECTION PIPES
NOT TO SCALE



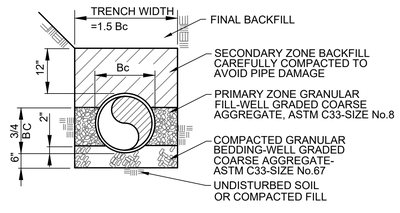
NOTE:
HORIZ. BRACE RAILS AND TRUSS ROD BRACING SHALL BE INSTALLED AT ALL CORNER,END,AND PULL POSTS. FABRIC SHALL BE FASTENED TO LINE POSTS AT NO MORE THAN 14" INTERVALS. TENSION WIRES SHALL BE TIED TO FABRIC WITH 9 GA. WIRE OR II GA. HOG RINGS AT INTERVALS OF 24" MAX.

8 45 SECURITY FENCE & DOUBLE SWING GATE
NOT TO SCALE

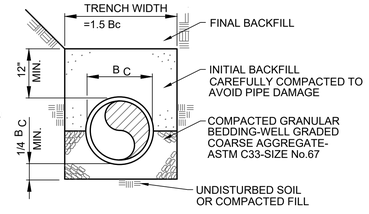


NOTE:
CONCRETE FOOTINGS WILL BE REQUIRED FOR ALL LINE, CORNER, GATE, END AND PULL POSTS.

9 45 FENCE POST FOOTING
NOT TO SCALE



CMP BEDDING DETAIL



RCP BEDDING DETAIL

10 45 DETAIL - PIPE BEDDING
NOT TO SCALE

GEORGIA REGISTERED No. PE024818 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/15

ISSUED FOR PERMIT

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL E
DETAILS

SCALE	PROJ I.D.	DRAWING NUMBER	SH.	CONT'D	REV
AS SHOWN	175518236	-	45	FINAL	0

PLOT DATE: 2/6/2026 USER: MCKINNEY, JIMMY
\\USSGO-PFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\RIL_PERMIT\REVSHEET_FILES\45_18236_H9155-H9162_PLE_D74.DWG

ANSI F: 28x40 AUTOCAD 2023

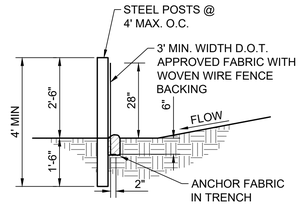
SILT FENCE NOTES

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 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. 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



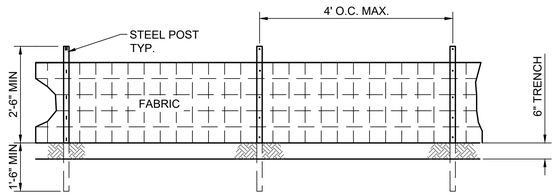
NOTE:
THE SILT FENCE SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE FABRIC.

1/46 DETAIL - TYPICAL SILT FENCE TYPE "C"
NOT TO SCALE

POSTS AND WOVEN WIRE SUPPORT:

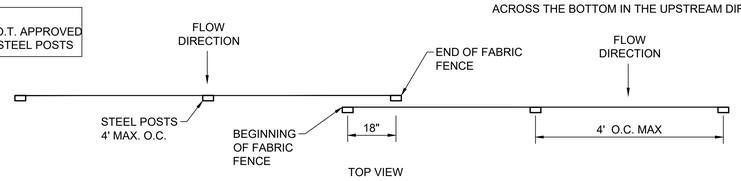
POSTS SHALL BE STEEL AND HAVE A MINIMUM LENGTH OF 4 FEET. POSTS SHALL BE "U", "T", OR "C" SHAPED, OR WOOD FOR TYPE A, AND HAVE A MINIMUM WEIGHT OF 1.3 POUNDS PER FOOT. THE POSTS SHALL HAVE PROJECTIONS FOR FASTENING THE WOVEN WIRE AND FILTER FABRIC. MAXIMUM POSTS SPACING SHALL BE 6 FEET FOR TYPE A OR 4 FEET FOR TYPE C. A WOVEN WIRE SUPPORT FENCE SHALL BE USED WITH TYPE "C" FENCE. THE WIRE FENCE FABRIC SHALL BE AT LEAST 36 INCHES HIGH AND SHALL HAVE AT LEAST 6 HORIZONTAL WIRES. VERTICAL WIRES SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.

FILTER FABRICS FOR TYPE "C" FENCES:
APPROVED SILT FENCE FABRICS ARE LISTED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST #36 (QPL-36).



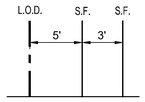
TYPICAL SILT FENCE
FRONT VIEW
NOT TO SCALE

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



TOP VIEW

TYPICAL SILT FENCE
TYPE C - OVERLAP DETAIL
NOT TO SCALE



SILT FENCE SPACING
NOT TO SCALE

INSTALLATION

1. INSTALL WHERE SHEET FLOW CONDITIONS EXIST.
2. WHERE NO SEDIMENT TRAP/STORMWATER DISPOSAL SYSTEM IS PRESENT, MAXIMUM SLOPE SHALL NOT EXCEED THOSE IN THE TABLE. ALSO, THE DRAINAGE AREA IS NOT TO EXCEED 1/4 ACRE PER 100 FEET OF SILT FENCE.
3. APPROVED SILT FENCE FABRICS ARE LISTED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST #36 (QPL-36). VERIFY FABRIC BY INSPECTION OF FABRIC NAME PRINTED EVERY 100 FEET OF SILT FENCE.
4. INSTALL ACCORDING TO APPROVED PLAN, AS SHOWN.
5. INSTALL ALONG CONTOURS WITH ENDS POINTING UPHILL.
6. DO NOT PLACE IN WATERWAYS OR AREAS OF CONCENTRATED FLOW.
7. START POST INSTALLATION AT THE CENTER OF THE LOWEST POINT WITH REMAINING POSTS SPACED ACCORDING TO FIGURE.
8. PROVIDE A RIPRAP SPLASH PAD OR OTHER OUTLET PROTECTION DEVICE FOR ANY POINT WHERE FLOW MAY TOP THE SEDIMENT FENCE. ENSURE THAT THE MAXIMUM HEIGHT OF THE FENCE AT A PROTECTED, REINFORCED OUTLET DOES NOT EXCEED 1 FT. AND THAT SUPPORT POST SPACING DOES NOT EXCEED 4 FT. FOR TYPE C & 6 FOR TYPE A.
9. USE MINIMUM 18" OVERLAP AT FABRIC ENDS.
10. USE A DOUBLE ROW OF TYPE "C" SILT FENCE ALONG STREAM BUFFERS AND OTHER SENSITIVE AREAS.
11. A TRENCH 6 INCHES IN DEPTH SHALL BE EXCAVATED WITH EQUIPMENT SUCH AS A TRENCHING MACHINE OR MOTOR GRADER; OR, IF EQUIPMENT CANNOT BE OPERATED ON THE SITE, BY HAND.
12. POST INSTALLATION SHALL START AT THE CENTER OF THE LOW POINT (IF APPLICABLE) WITH THE REMAINING POSTS SPACED A MAXIMUM OF 4 OR 6 FEET APART. POSTS SHALL BE INSTALLED WITH AT LEAST 18 INCHES IN THE GROUND. WHERE AN 18 INCH DEPTH IS IMPOSSIBLE TO ACHIEVE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT LOADING.
13. FILTER FABRIC SHALL BE ATTACHED TO THE POST BY WIRE, CORD, POCKETS, STAPLES, NAILS, OR OTHER ACCEPTABLE MEANS. THE FILTER FABRIC SHALL BE INSTALLED IN SUCH A MANNER THAT 8 INCHES OF FABRIC IS LEFT AT THE BOTTOM TO BE BURIED AND A MINIMUM OVERLAP OF 18 INCHES IS PROVIDED AT ALL SPLICE JOINTS. THE FABRIC SHALL BE INSTALLED IN THE TRENCH SUCH THAT 4 TO 6 INCHES OF FABRIC IS AGAINST THE SIDE OF THE TRENCH WITH 2 TO 4 INCHES OF FABRIC ACROSS THE BOTTOM IN THE UPSTREAM DIRECTION.

DEFINITION

A TEMPORARY GRADE CONTROL STRUCTURE, OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRATED FLOW.

CONDITIONS

THIS PRACTICE IS APPLICABLE FOR USE IN SMALL OPEN CHANNELS AND IS NOT TO BE USED IN A LIVE STREAM. SPECIFIC APPLICATIONS INCLUDE:

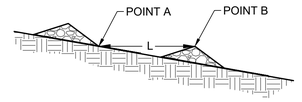
1. TEMPORARY OR PERMANENT SWALES OR DITCHES IN NEED OF PROTECTION DURING ESTABLISHMENT OF GRASS LININGS.
2. TEMPORARY OR PERMANENT SWALES OR DITCHES WHICH, DUE TO THEIR SHORT LENGTH OF SERVICE OR OTHER REASONS, CANNOT RECEIVE A PERMANENT NON-ERODIBLE LINING FOR AN EXTENDED PERIOD OF TIME.
3. OTHER LOCATIONS WHERE SMALL LOCALIZED EROSION AND RESULTING SEDIMENTATION PROBLEMS EXIST.

SPECIFICATIONS:

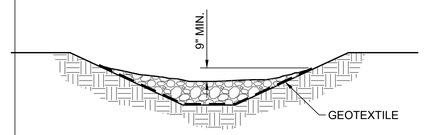
THE FOLLOWING TYPES OF CHECK DAMS ARE USED FOR THIS STANDARD:

STONE CHECK DAM

STONE CHECK DAMS SHOULD BE CONSTRUCTED OF GRADED SIZE 2-10 INCH STONE. MECHANICAL OR HAND PLACEMENT SHALL BE REQUIRED TO ENSURE COMPLETE COVERAGE OF THE ENTIRE WIDTH OF DITCH OR SWALE AND THAT CENTER OF THE DAM IS LOWER THAN THE EDGES. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
A = THE TOE OF THE UPSTREAM CHECK DAM.
B = TOP OF THE DOWNSTREAM CHECK DAM.
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.



SPACING BETWEEN CHECK DAMS
NOT TO SCALE



CROSS SECTION
NOT TO SCALE

SPACING:

TWO OR MORE CHECK DAMS IN A SERIES SHALL BE USED FOR DRAINAGE AREAS GREATER THAN ONE (1) ACRE. MAXIMUM SPACING BETWEEN DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.

GEOTEXTILES:

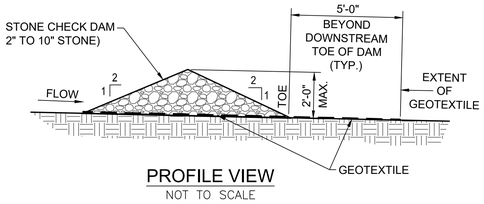
A GEOTEXTILE SHOULD BE USED AS A SEPARATOR BETWEEN THE GRADED STONE AND THE SOIL BASE AND ABUTMENTS. THE GEOTEXTILE WILL PREVENT THE MIGRATION OF SOIL PARTICLES FROM THE SUBGRADE INTO THE GRADED STONE. THE GEOTEXTILE SHALL BE SELECTED/SPECIFIED IN ACCORDANCE WITH AASHTO M288-96 SECTION 7.3, *SEPARATION REQUIREMENTS*, TABLE 3. GEOTEXTILES SHALL BE "SET" INTO THE SUBGRADE SOILS. THE GEOTEXTILE SHALL BE PLACED IMMEDIATELY ADJACENT TO THE SUBGRADE WITHOUT ANY VOIDS AND EXTEND FIVE FEET BEYOND THE DOWNSTREAM TOE OF THE DAM TO PREVENT SCOUR.

MAINTENANCE:

PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE-HALF THE ORIGINAL DAM HEIGHT OR BEFORE. IF THE AREA IS TO BE MOWED, CHECK DAMS SHALL BE REMOVED ONCE FINAL STABILIZATION HAS OCCURRED. OTHERWISE, CHECK DAMS MAY REMAIN IN PLACE PERMANENTLY. AFTER REMOVAL, THE AREA BENEATH THE DAM SHALL BE SEEDED AND MULCHED IMMEDIATELY.

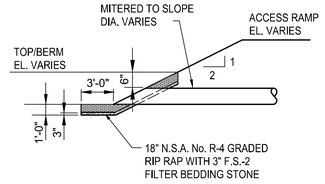
NOTES:

1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

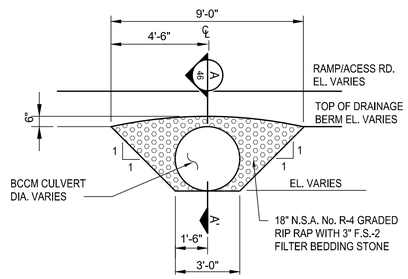


PROFILE VIEW
NOT TO SCALE

2/46 DETAIL - CHECK DAM - STONE CHECK DAM
NOT TO SCALE

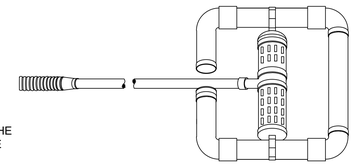


A/46 SECTION
NOT TO SCALE

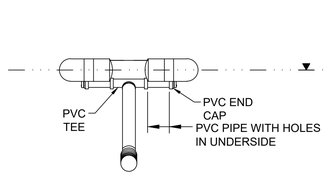


3/46 DETAIL - TYP. CULVERT INLET PROTECTION
NOT TO SCALE

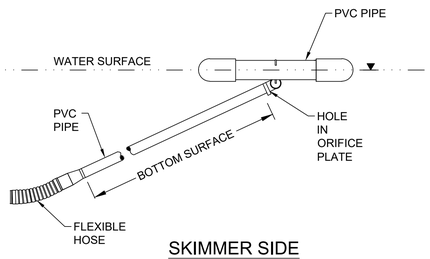
NOTE:
SKIMMER CONFIGURATION SHOWN IS TYPICAL. THE DESIGNER/ENGINEER MAY SUBMIT AN ALTERNATE SKIMMER DETAIL FOR REVIEW.



SKIMMER
PERSPECTIVE



SKIMMER FRONTAL
SECTION VIEW

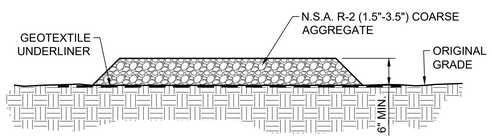


SKIMMER SIDE
SECTION VIEW

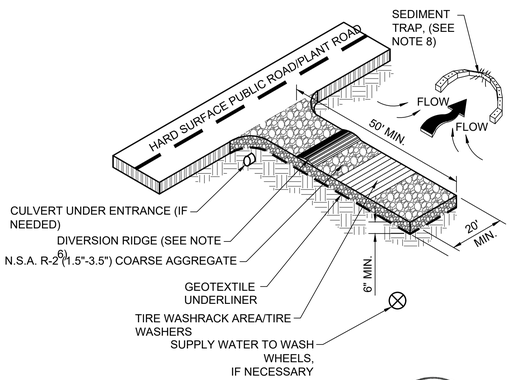
4/46 DETAIL - FLOATING SURFACE SKIMMER
NOT TO SCALE

NOTES:

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



ENTRANCE ELEVATION



EXIT DIAGRAM

5/46 DETAIL - CRUSHED STONE CONSTRUCTION EXIT
NOT TO SCALE

REFERENCES:

1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN
2/6/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL E
DETAILS

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

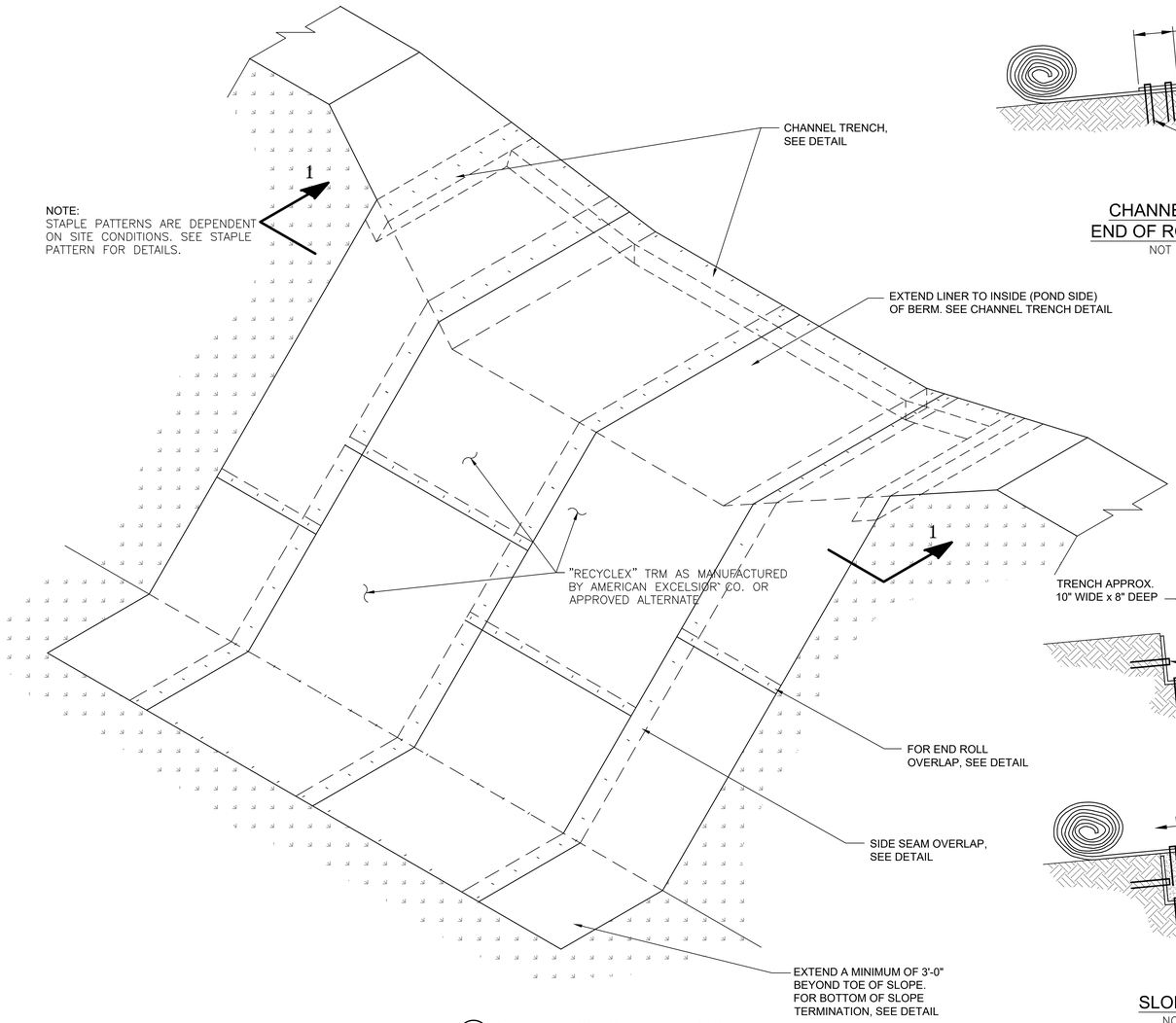
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BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

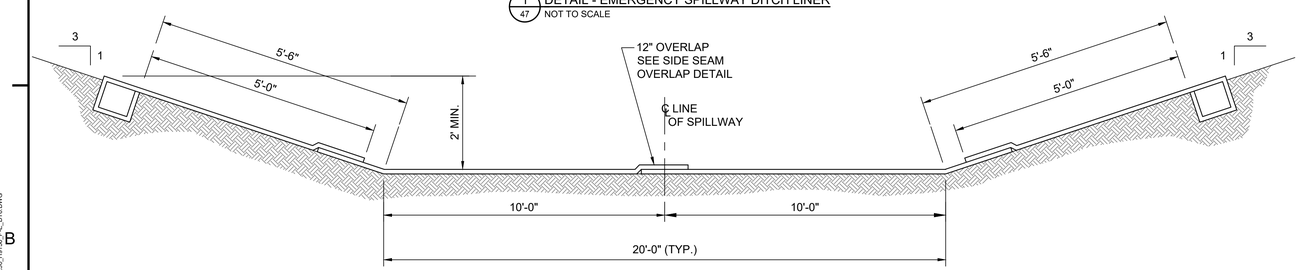
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AS SHOWN	175518236	-	46	FINAL	0

PLOT DATE: 2/6/2025, USER: MCHUNEY, JAMM:
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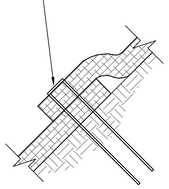
ANSI F: 28x40 AUTOCAD 2023



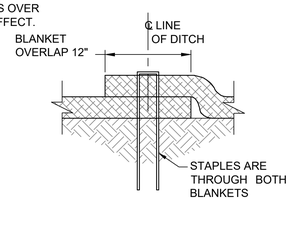
1/47 DETAIL - EMERGENCY SPILLWAY DITCH LINER
NOT TO SCALE



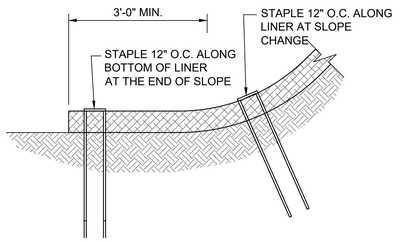
SECTION 1-1
NOT TO SCALE



END OF ROLL OVERLAP
NOT TO SCALE

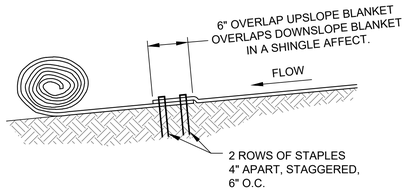


SIDE SEAM OVERLAP STAPLE DETAIL
NOT TO SCALE

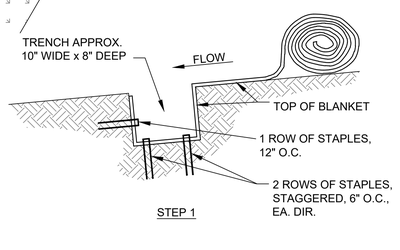


BOTTOM OF SLOPE TERMINATION
NOT TO SCALE

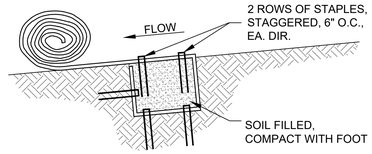
SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY



CHANNEL BLANKET END OF ROLL OVERLAP
NOT TO SCALE

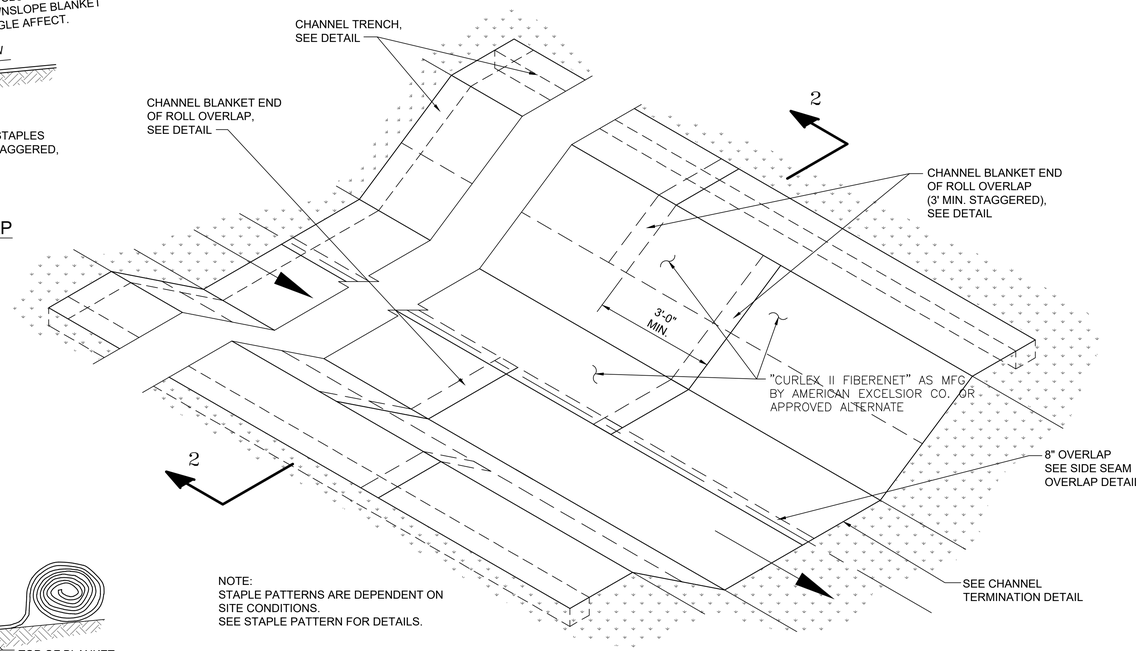


STEP 1



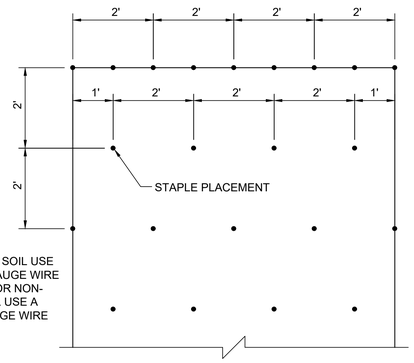
STEP 2

SLOPE TRENCH
NOT TO SCALE



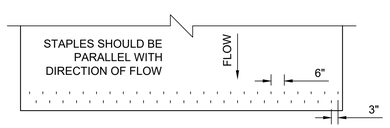
2/47 DETAIL - PERIMETER DITCH LINER
NOT TO SCALE

SECTION 2-2
NOT TO SCALE

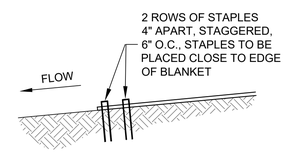


NOTE:
FOR COHESIVE SOIL USE A 6"x1"x6" 11 GAUGE WIRE STAPLE AND FOR NON-COHESIVE SOIL USE A 8"x2"x8" 11 GAUGE WIRE STAPLE.

STAPLE PATTERN
NOT TO SCALE



CHANNEL TERMINATION PLAN
NOT TO SCALE



CHANNEL TERMINATION
NOT TO SCALE

REFERENCES:
1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/25

ISSUED FOR PERMIT

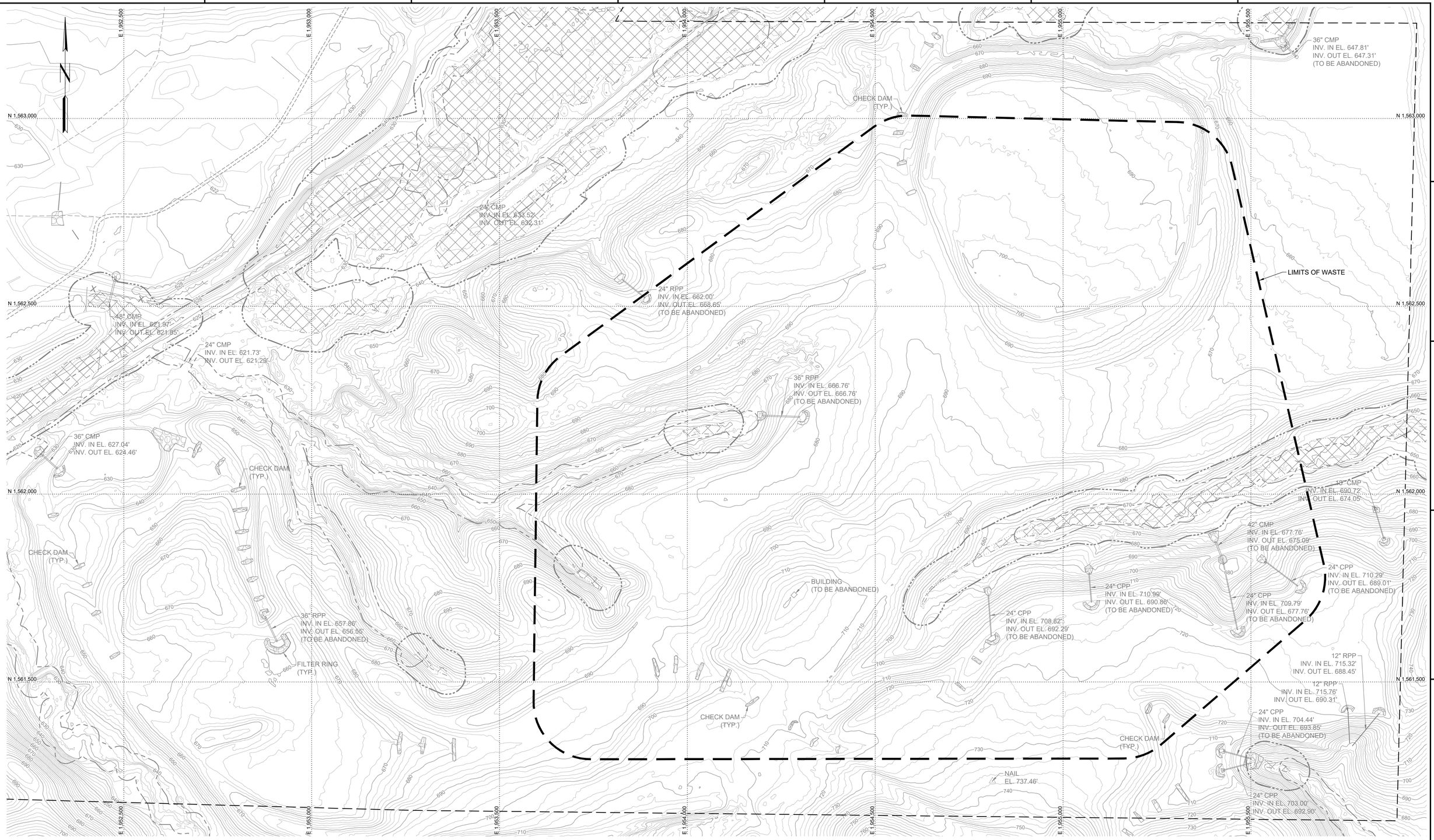
Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL E
DETAILS

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR.	ELECT APPR.	I/C APPR.	MECH APPR.	MGR APPR.	BY	CHK'D	CIVIL APPR.	ELECT APPR.	I/C APPR.	MECH APPR.	MGR APPR.	SCALE	PROJ I.D.	DRAWING NUMBER	SH	CON'TD	REV.
							JJM	KDL	–					AS SHOWN	175518236	-	47	FINAL	0

PLOT DATE: 2/7/2025 USER: MDOWNEY, JIMMY
\\US0022-PPFSS01\SHARED_PROJECT\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISHEET_FILE\347_18236_H9156_P-E_DTIL.DWG

ANSI F: 28x40 AUTOCAD 2023



50 0 100 200 FEET
GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL 2 FEET

LEGEND

- 660 — EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- E — ELECTRIC LINE
- FO — FIBER OPTIC LINE
- RAILROAD
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- WETLANDS
- RIPRAP
- PP — POWER POLE
- IP — SURVEY IRON PIN
- SURVEY CONTROL MONUMENT

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

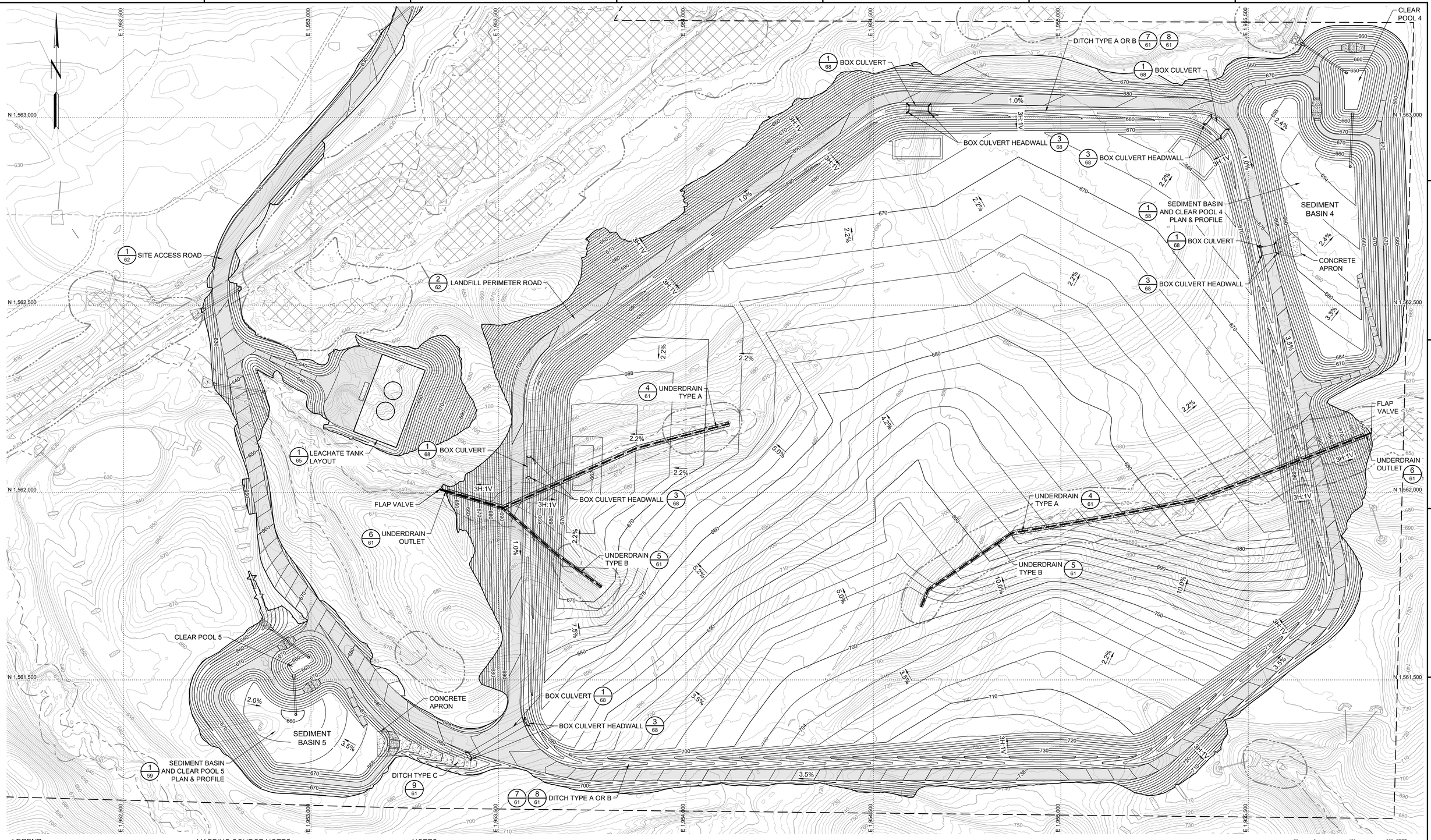
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
EXISTING CONDITIONS PLAN

REVISION	DATE	REVISION	DATE
0	XX/XX/XXXX	0	FEBRUARY 2025
–		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
–	–	–					BMS	KDL	–					AS SHOWN	175518236	■	48	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/12/2025 USER: MDKINNEY AMPW
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LEGEND

- 660 — EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- E — ELECTRIC LINE
- FO — FIBER OPTIC LINE
- RAILROAD
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- WETLANDS
- RIPRAP
- PP — POWER POLE
- IP — SURVEY IRON PIN
- SURVEY CONTROL MONUMENT
- 710 — PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTES:

1. PROPOSED CONTOURS REPRESENT THE TOP OF THE SUBGRADE LAYER.
2. I HAVE REVIEWED THE INFORMATION PRESENTED IN THIS DRAWING, AND IN MY PROFESSIONAL OPINION, ALL CONTAINMENT STRUCTURES ARE DESIGNED TO RESIST A MAXIMUM HORIZONTAL GROUND ACCELERATION OF 0.24G, OR THE MAXIMUM EXPECTED HORIZONTAL ACCELERATION AT THE GROUND SURFACE WITH A 98% OR GREATER PROBABILITY THAT THE ACCELERATION WILL NOT BE EXCEEDED IN 50 YEARS AS DETERMINED BY THE UNITED STATES GEOLOGIC SURVEY'S EARTHQUAKE HAZARDS PROGRAM, AS OF THE DATE OF PERMIT ISSUANCE, WHICHEVER IS MORE CONSERVATIVE.

SECTION OR DETAIL NO. / TARGET DRAWING
REFERENCE KEY

50 0 100 200 FEET
GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL 2 FEET

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE043[illegible] MATTHEW C. VAUGHAN 5/6/25

ISSUED FOR PERMIT

REVISION	DATE

REVISION 0	DATE FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION	

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

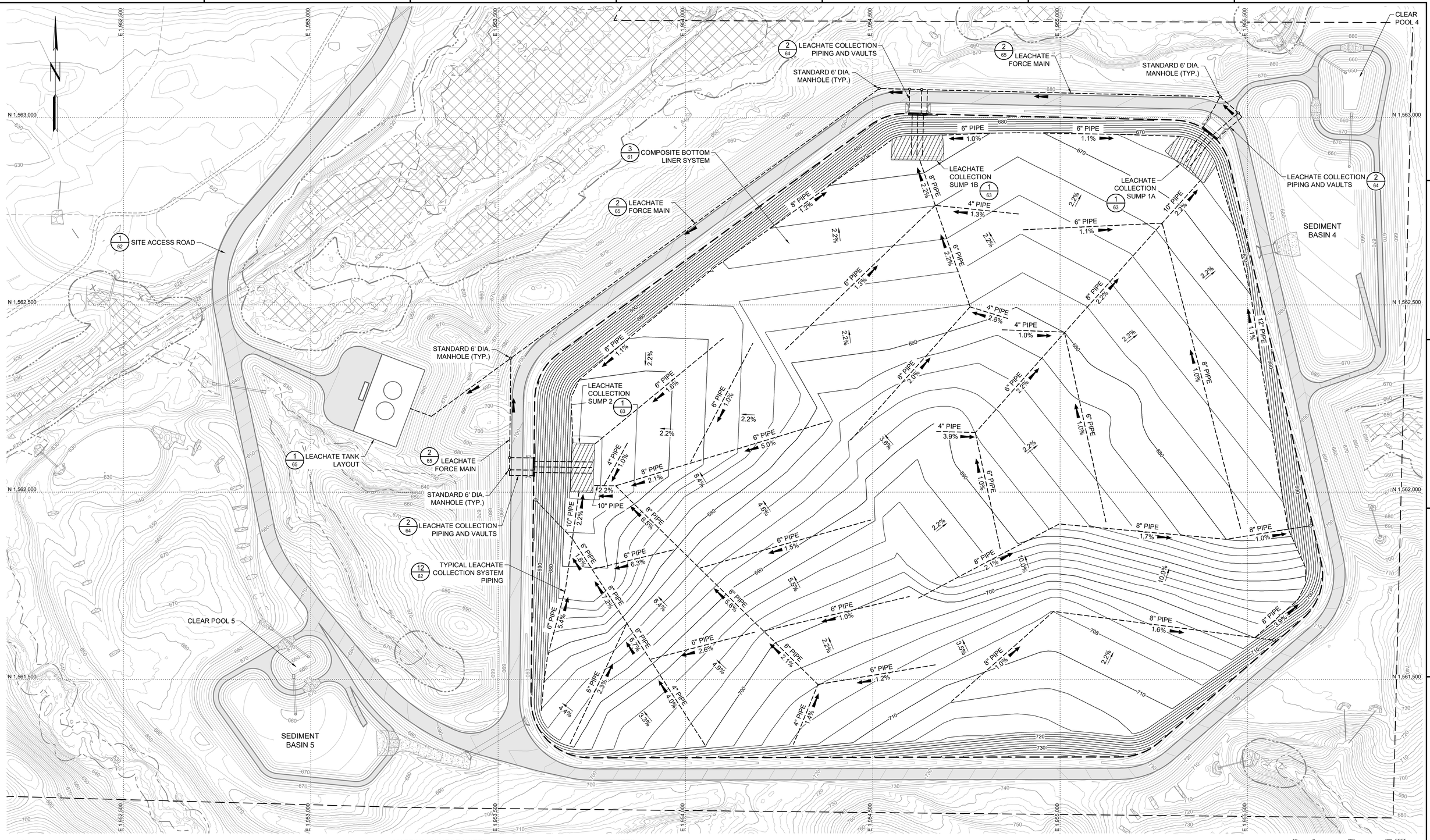
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
SUBGRADE PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	49	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025 USER: MCHAMEY, JIMMY
\\Si50522-PFPSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVSHEET_FILES\49_18236_P-F_SGP.DWG



LEGEND

- EXISTING INDEX CONTOUR (660)
- EXISTING INTERMEDIATE CONTOUR
- ELECTRIC LINE (E)
- FIBER OPTIC LINE (FO)
- RAILROAD
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- WETLANDS
- RIPRAP
- POWER POLE (PP)
- SURVEY IRON PIN (IP)
- SURVEY CONTROL MONUMENT
- FLOW DIRECTION
- CLEANOUT
- PROPOSED INDEX CONTOUR (710)
- PROPOSED INTERMEDIATE CONTOUR
- LIMITS OF COMPOSITE BOTTOM LINER

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTES:

1. PROPOSED CONTOURS REPRESENT THE TOP OF THE COMPACTED CLAY LAYER.
2. LEACHATE COLLECTION PIPE SLOPES VARY WITH A 1% MINIMUM.
3. I HAVE REVIEWED THE INFORMATION PRESENTED IN THIS DRAWING, AND IN MY PROFESSIONAL OPINION, ALL CONTAINMENT STRUCTURES ARE DESIGNED TO RESIST A MAXIMUM HORIZONTAL GROUND ACCELERATION OF 0.24G, OR THE MAXIMUM EXPECTED HORIZONTAL ACCELERATION AT THE GROUND SURFACE WITH A 98% OR GREATER PROBABILITY THAT THE ACCELERATION WILL NOT BE EXCEEDED IN 50 YEARS AS DETERMINED BY THE UNITED STATES GEOLOGIC SURVEY'S EARTHQUAKE HAZARDS PROGRAM, AS OF THE DATE OF PERMIT ISSUANCE, WHICHEVER IS MORE CONSERVATIVE.

GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL 2 FEET
50 0 100 200 FEET

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

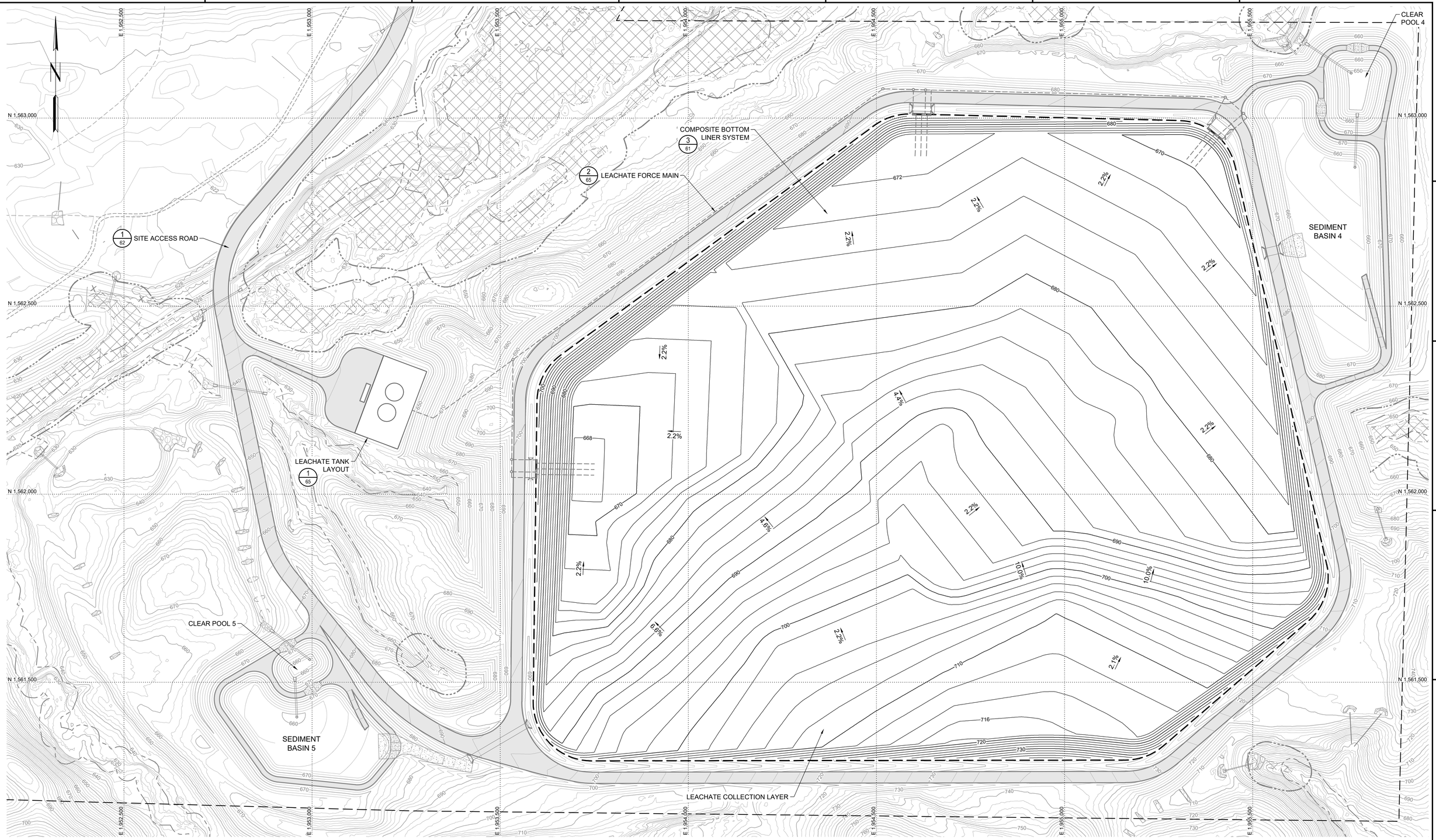
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
TOP OF COMPACTED CLAY LAYER & LEACHATE COLLECTION PIPE PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV.
AS SHOWN	175518236	-	50	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025 USER: MCHANEY AMAY
\\US0625-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\PARL_PERMIT\REVISHEET_FILES\50_18236_P-F_LCP.DWG



LEGEND

- EXISTING INDEX CONTOUR (660)
- EXISTING INTERMEDIATE CONTOUR
- ELECTRIC LINE (E)
- FIBER OPTIC LINE (FO)
- RAILROAD
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- WETLANDS
- RIPRAP
- POWER POLE (PP)
- SURVEY IRON PIN (IP)
- SURVEY CONTROL MONUMENT
- PROPOSED INDEX CONTOUR (710)
- PROPOSED INTERMEDIATE CONTOUR
- LIMITS OF COMPOSITE BOTTOM LINER

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTES:

1. PROPOSED CONTOURS REPRESENT THE TOP OF THE LEACHATE COLLECTION SAND LAYER.
2. I HAVE REVIEWED THE INFORMATION PRESENTED IN THIS DRAWING, AND IN MY PROFESSIONAL OPINION, ALL CONTAINMENT STRUCTURES ARE DESIGNED TO RESIST A MAXIMUM HORIZONTAL GROUND ACCELERATION OF 0.24G, OR THE MAXIMUM EXPECTED HORIZONTAL ACCELERATION AT THE GROUND SURFACE WITH A 98% OR GREATER PROBABILITY THAT THE ACCELERATION WILL NOT BE EXCEEDED IN 50 YEARS AS DETERMINED BY THE UNITED STATES GEOLOGIC SURVEY'S EARTHQUAKE HAZARDS PROGRAM, AS OF THE DATE OF PERMIT ISSUANCE, WHICHEVER IS MORE CONSERVATIVE.

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

50 0 100 200 FEET
GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL 2 FEET

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/15

ISSUED FOR PERMIT

REVISION	DATE
REVISION 0	DATE FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JUM	KDL	–				

Stantec Consulting Services, Inc.
FOR

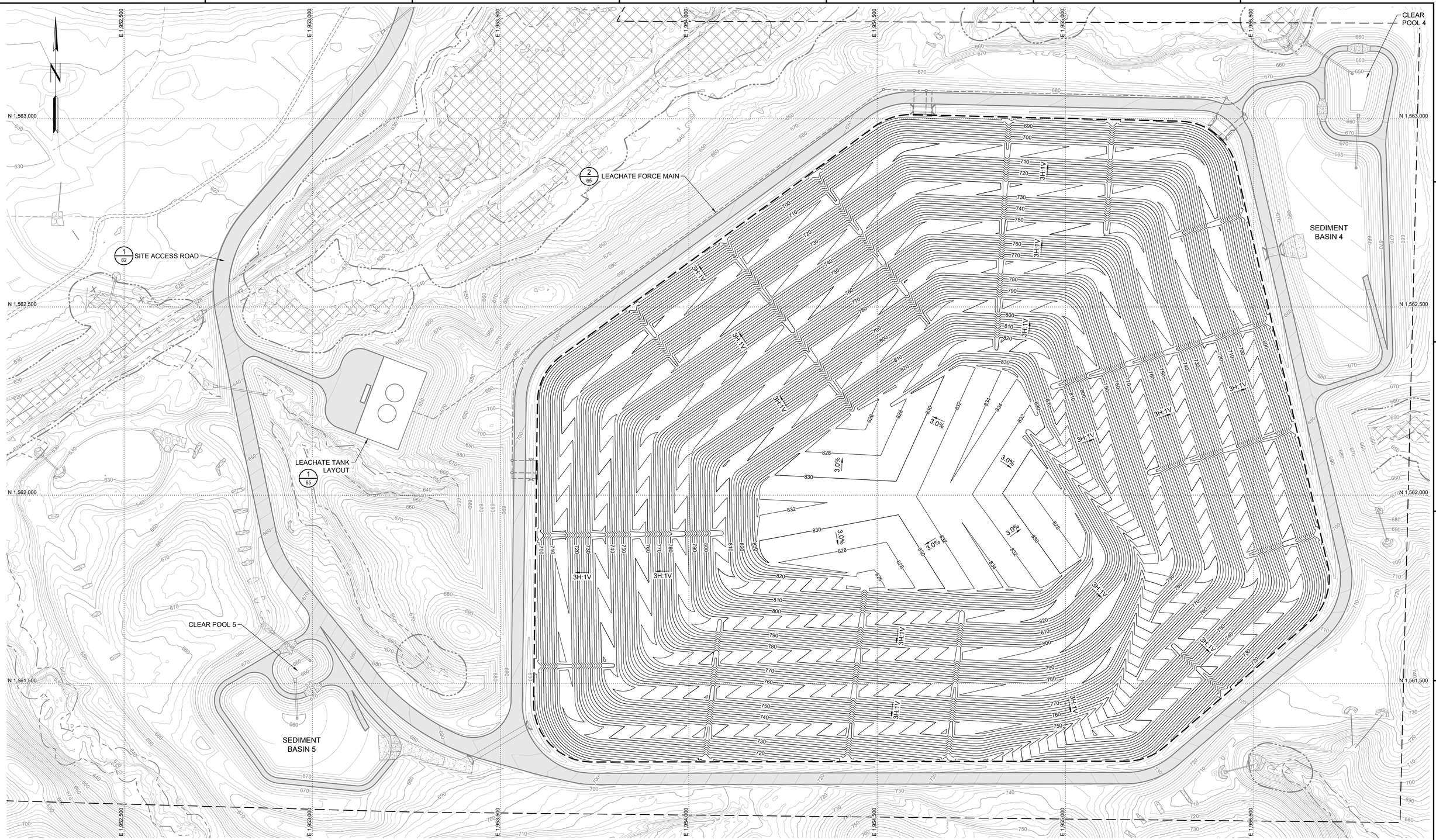
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
TOP OF LEACHATE COLLECTION LAYER PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	5.1	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025 USER: MCKINNEY, JIMMY
\\US0922-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVS\SHEET_FILES\1_18236_P-F_LCL.DWG



LEGEND

- EXISTING INDEX CONTOUR (660)
- EXISTING INTERMEDIATE CONTOUR
- ELECTRIC LINE (E)
- FIBER OPTIC LINE (FO)
- RAILROAD
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- WETLANDS
- RIPRAP
- POWER POLE (PP)
- SURVEY IRON PIN (IP)
- SURVEY CONTROL MONUMENT
- PROPOSED INDEX CONTOUR (710)
- PROPOSED INTERMEDIATE CONTOUR
- LIMITS OF COMPOSITE BOTTOM LINER

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTES:

1. PROPOSED CONTOURS REPRESENT THE TOP OF WASTE.
2. I HAVE REVIEWED THE INFORMATION PRESENTED IN THIS DRAWING, AND IN MY PROFESSIONAL OPINION, ALL CONTAINMENT STRUCTURES ARE DESIGNED TO RESIST A MAXIMUM HORIZONTAL GROUND ACCELERATION OF 0.24G, OR THE MAXIMUM EXPECTED HORIZONTAL ACCELERATION AT THE GROUND SURFACE WITH A 98% OR GREATER PROBABILITY THAT THE ACCELERATION WILL NOT BE EXCEEDED IN 50 YEARS AS DETERMINED BY THE UNITED STATES GEOLOGIC SURVEY'S EARTHQUAKE HAZARDS PROGRAM, AS OF THE DATE OF PERMIT ISSUANCE, WHICHEVER IS MORE CONSERVATIVE.

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL 2 FEET
50 0 100 200 FEET

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE044... MATTHEW C. VAUGHAN 2/6/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
TOP OF WASTE PLAN

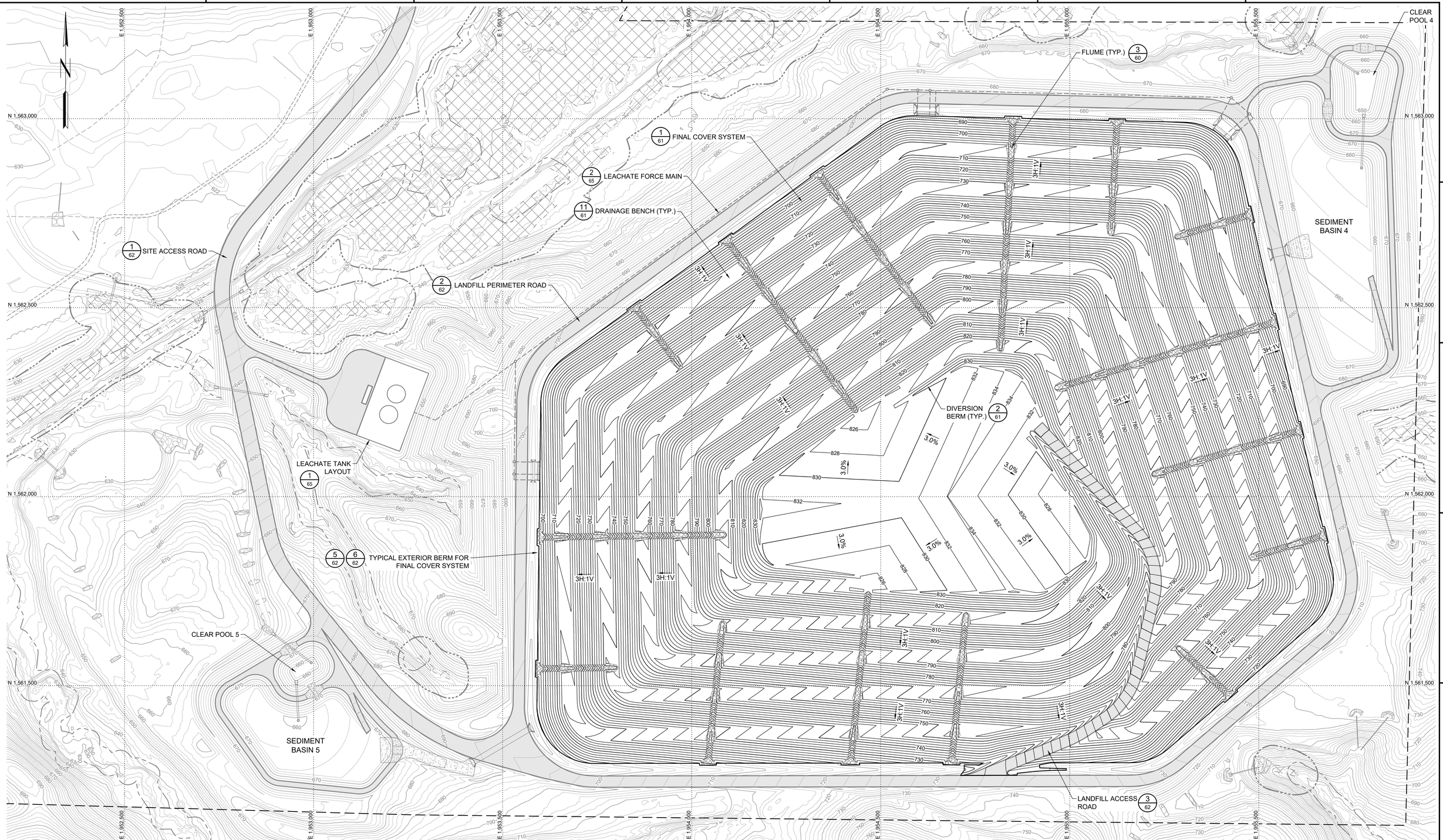
REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
ACC	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	52	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025, USER: MDUNCY, XNAME:
\\US0422-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMITREVS\SHEET_FILES\52_18236_F-F_TWP.DWG



GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL 2 FEET

LEGEND

- 660 EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- E ELECTRIC LINE
- FO FIBER OPTIC LINE
- RAILROAD
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- WETLANDS
- RIPRAP
- PP POWER POLE
- IP SURVEY IRON PIN
- SURVEY CONTROL MONUMENT
- 710 PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- LIMITS OF CLOSURE CAP SYSTEM OR FINAL COVER

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTES:

1. PROPOSED CONTOURS REPRESENT THE TOP OF THE CLOSURE CAP SYSTEM OR FINAL COVER AND PROVIDES A TOTAL CCB STORAGE CAPACITY OF 8.6M CUBIC YARDS BASED ON A CLOSURE CAP SYSTEM.
2. I HAVE REVIEWED THE INFORMATION PRESENTED IN THIS DRAWING, AND IN MY PROFESSIONAL OPINION, ALL CONTAINMENT STRUCTURES ARE DESIGNED TO RESIST A MAXIMUM HORIZONTAL GROUND ACCELERATION OF 0.24G, OR THE MAXIMUM EXPECTED HORIZONTAL ACCELERATION AT THE GROUND SURFACE WITH A 98% OR GREATER PROBABILITY THAT THE ACCELERATION WILL NOT BE EXCEEDED IN 50 YEARS AS DETERMINED BY THE UNITED STATES GEOLOGIC SURVEY'S EARTHQUAKE HAZARDS PROGRAM, AS OF THE DATE OF PERMIT ISSUANCE, WHICHEVER IS MORE CONSERVATIVE.

SECTION OR DETAIL NO. / TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED PROFESSIONAL No. PE044284 ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

REVISION	DATE

REVISION	0
DATE	FEBRUARY 2025
	ISSUED FOR CCR PERMIT APPLICATION

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

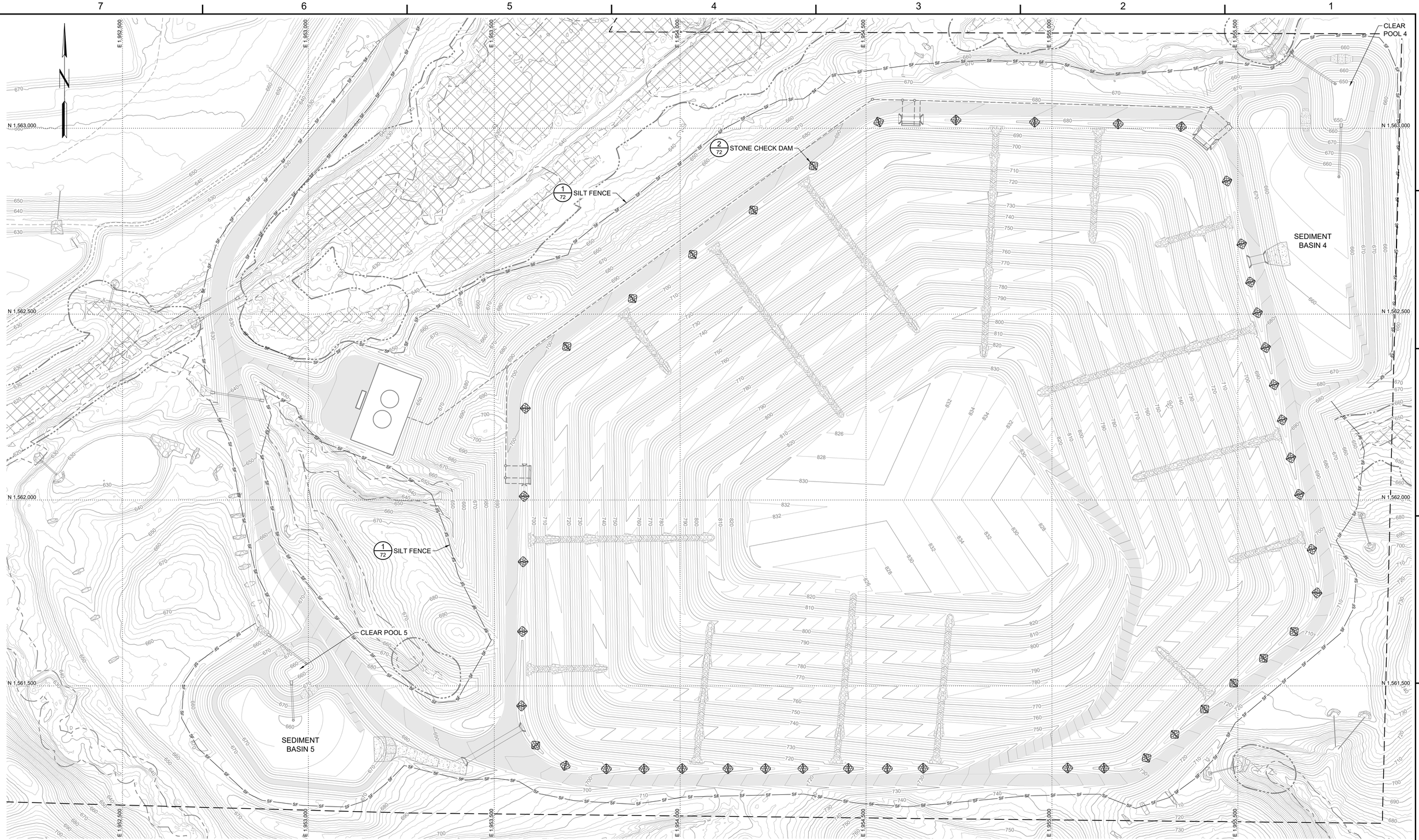
Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
FINAL GRADE PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	53	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025 - 1:58:05 PM, MCKINNEY, JIMMY
\\USGS22-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISIONS\SHEET_FILES\53_18236_P-F_FGP.DWG



GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL 2 FEET

LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- ELECTRIC LINE
- FIBER OPTIC LINE
- RAILROAD
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- WETLANDS
- RIPRAP
- POWER POLE
- SURVEY IRON PIN
- SURVEY CONTROL MONUMENT
- SILT FENCE
- STONE CHECK DAM

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.

2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTE:

ILLUSTRATED ARE THE APPROXIMATE LOCATIONS FOR EROSION AND SEDIMENT CONTROL FEATURES. ACTUAL LOCATIONS MAY VARY BASED ON SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION OPERATIONS.

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE041[illegible] PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
ACC	KDL	–				

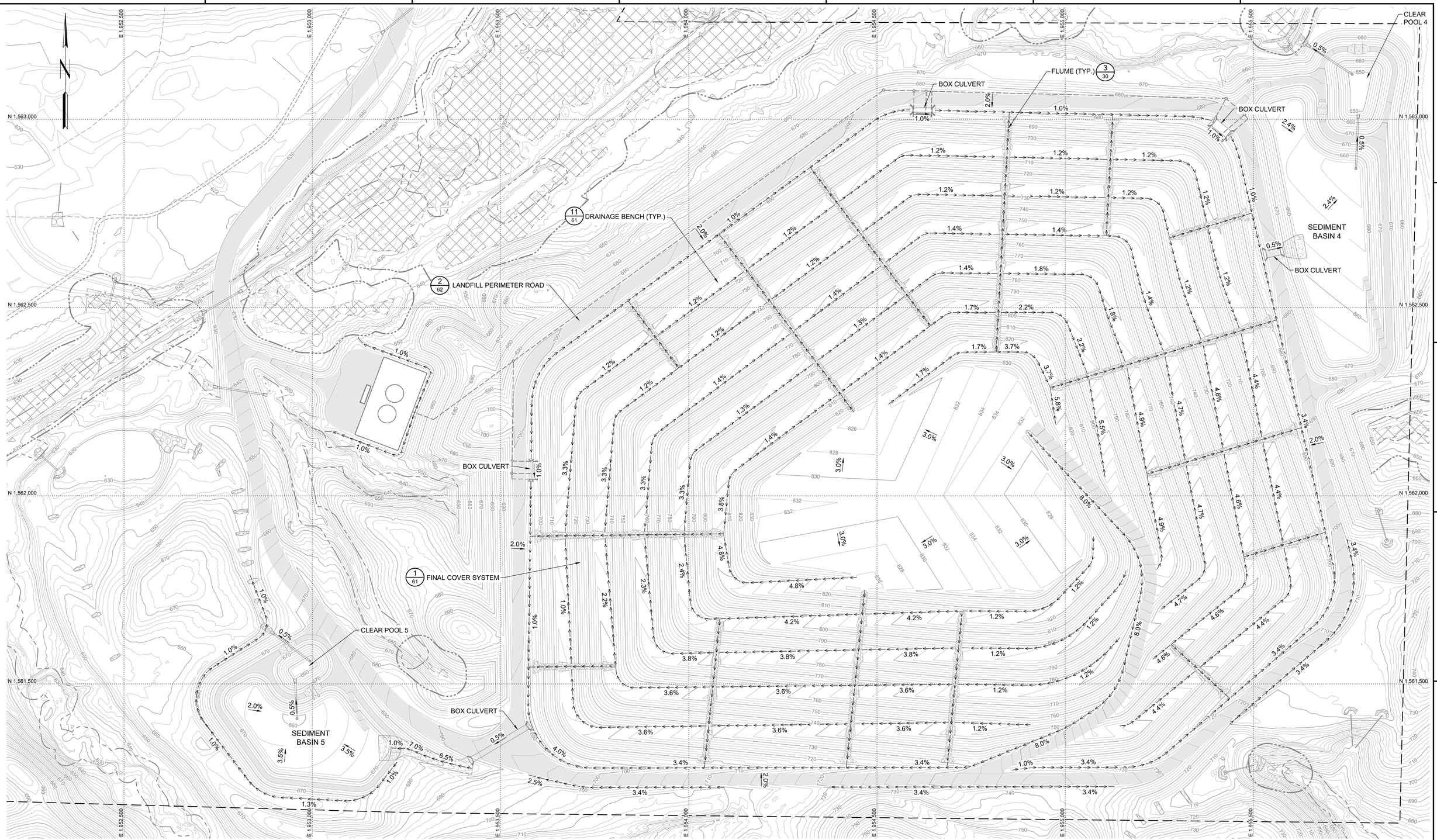
Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
EROSION AND SEDIMENT CONTROL PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	54	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 3/6/2025 USER: MCKINNEY, JIMMY
G:\SUS\22-PP\SSH1\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISIHEET_FILES\54_18236_P-F_ESP.DWG



GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL 2 FEET

LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- ELECTRIC LINE
- FIBER OPTIC LINE
- RAILROAD
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- WETLANDS
- RIPRAP
- POWER POLE
- SURVEY IRON PIN
- SURVEY CONTROL MONUMENT
- FLOW DIRECTION

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL MATTHEW C. VAUGHAN ENGINEER 2/10/15

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
STORMWATER MANAGEMENT PLAN

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

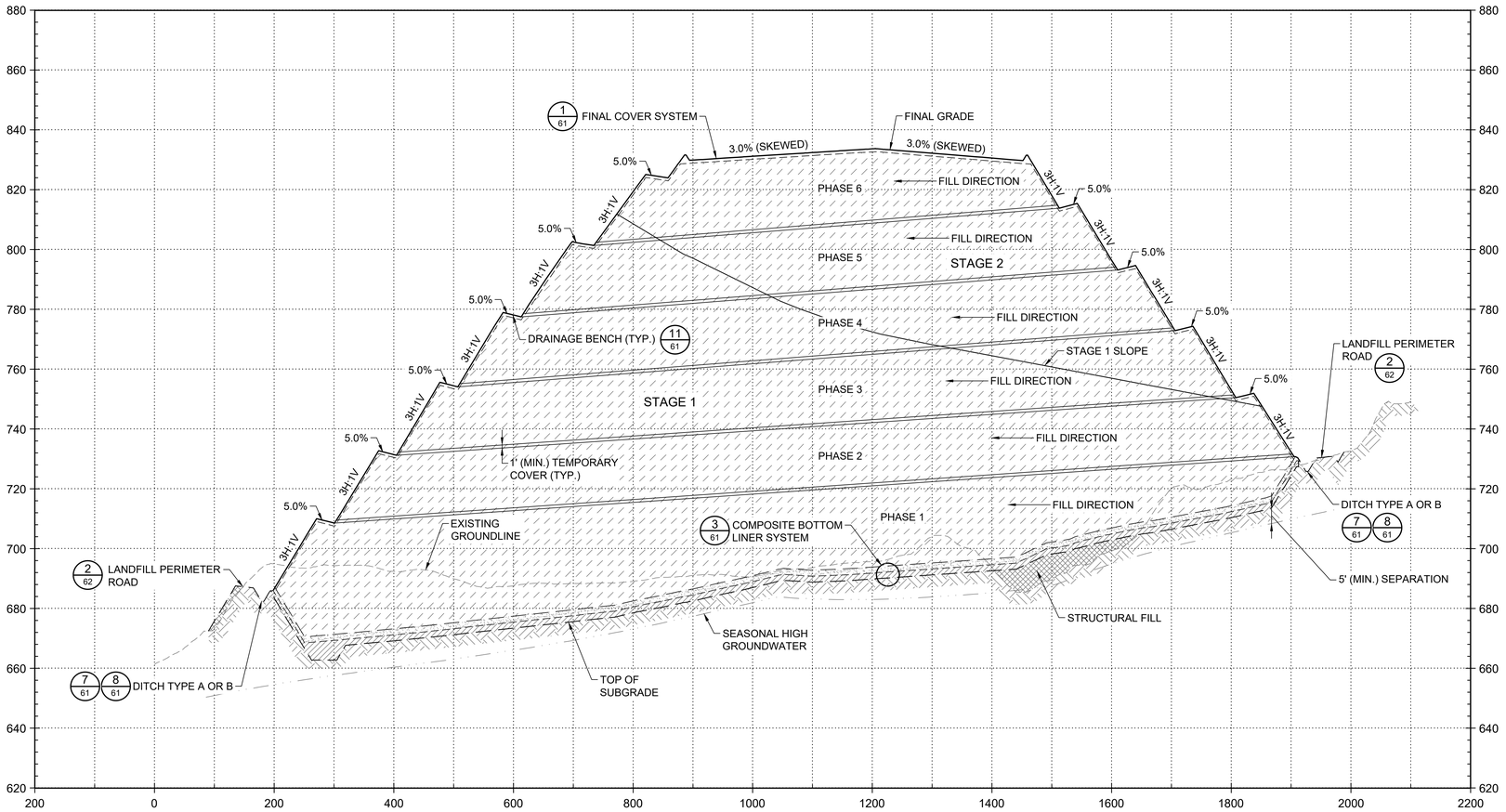
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	55	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 3/6/2025 USER: MCKINNEY, JIMMY
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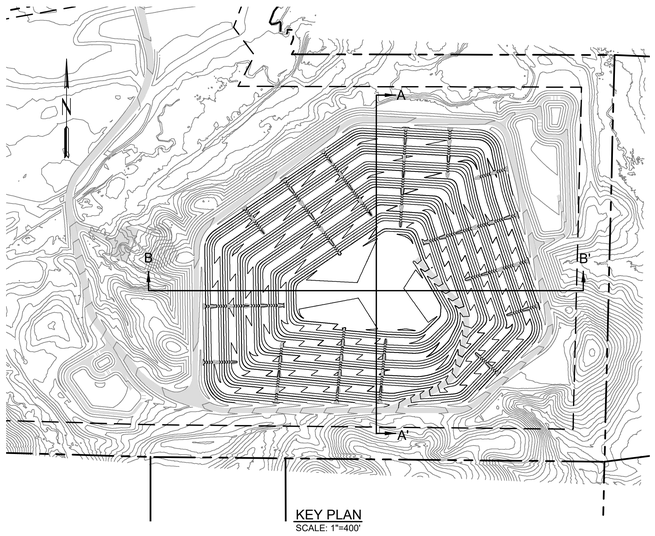


1/56 CROSS SECTION A-A'
SCALE: 1"=100' (H) 1"=20' (V)

NOTES:

1. ILLUSTRATED COMPOSITE SEASONAL HIGH GROUNDWATER IS BASED ON PIEZOMETER READINGS BETWEEN 5/31/2022 AND 04/25/2023.

2. I HAVE REVIEWED THE INFORMATION PRESENTED IN THIS DRAWING, AND IN MY PROFESSIONAL OPINION, ALL CONTAINMENT STRUCTURES ARE DESIGNED TO RESIST A MAXIMUM HORIZONTAL GROUND ACCELERATION OF 0.24G, OR THE MAXIMUM EXPECTED HORIZONTAL ACCELERATION AT THE GROUND SURFACE WITH A 98% OR GREATER PROBABILITY THAT THE ACCELERATION WILL NOT BE EXCEEDED IN 50 YEARS AS DETERMINED BY THE UNITED STATES GEOLOGIC SURVEY'S EARTHQUAKE HAZARDS PROGRAM, AS OF THE DATE OF PERMIT ISSUANCE, WHICHEVER IS MORE CONSERVATIVE.



KEY PLAN
SCALE: 1"=400'

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

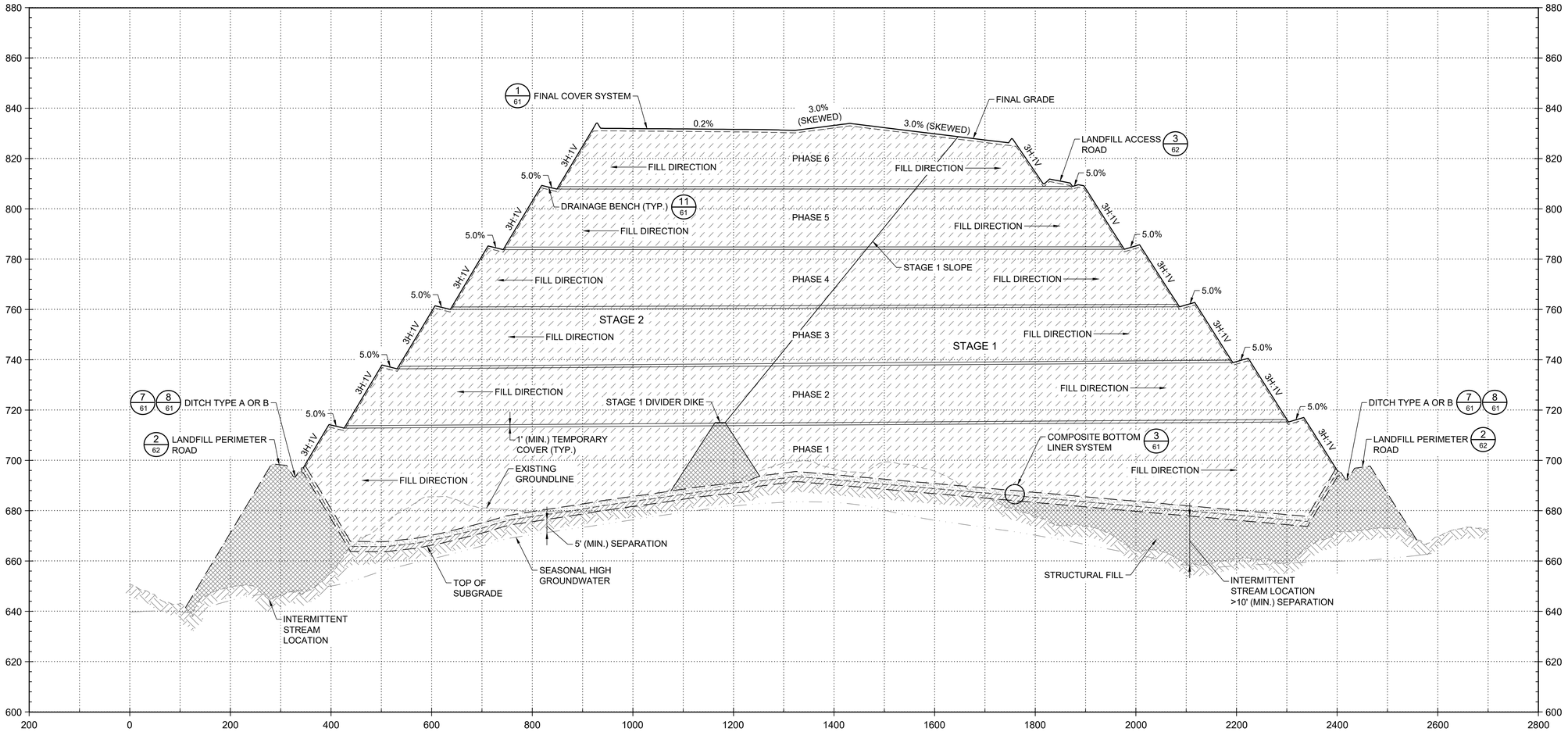
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
ACC	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
CROSS SECTIONS

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	56	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025 USER: MDHARDY, JIMMY
\\SRS\02-PP\SRS\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVSHEET_FILES\56-57_18X36_P-F_XSC.DWG

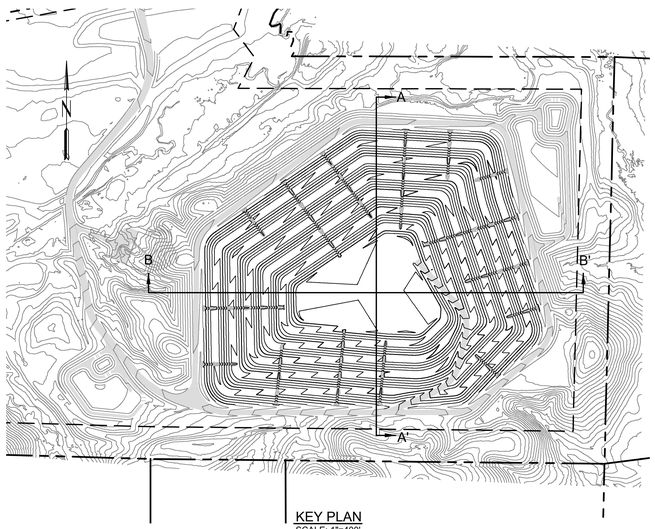


1 57 CROSS SECTION B-B'
SCALE: 1"=100' (H) 1"=20' (V)

NOTES:

1. ILLUSTRATED COMPOSITE SEASONAL HIGH GROUNDWATER IS BASED ON PIEZOMETER READINGS BETWEEN 5/31/2022 AND 04/25/2023.

2. I HAVE REVIEWED THE INFORMATION PRESENTED IN THIS DRAWING, AND IN MY PROFESSIONAL OPINION, ALL CONTAINMENT STRUCTURES ARE DESIGNED TO RESIST A MAXIMUM HORIZONTAL GROUND ACCELERATION OF 0.24G, OR THE MAXIMUM EXPECTED HORIZONTAL ACCELERATION AT THE GROUND SURFACE WITH A 98% OR GREATER PROBABILITY THAT THE ACCELERATION WILL NOT BE EXCEEDED IN 50 YEARS AS DETERMINED BY THE UNITED STATES GEOLOGIC SURVEY'S EARTHQUAKE HAZARDS PROGRAM, AS OF THE DATE OF PERMIT ISSUANCE, WHICHEVER IS MORE CONSERVATIVE.



KEY PLAN
SCALE: 1"=400'

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. GEORGIA PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 11/3/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
CROSS SECTIONS

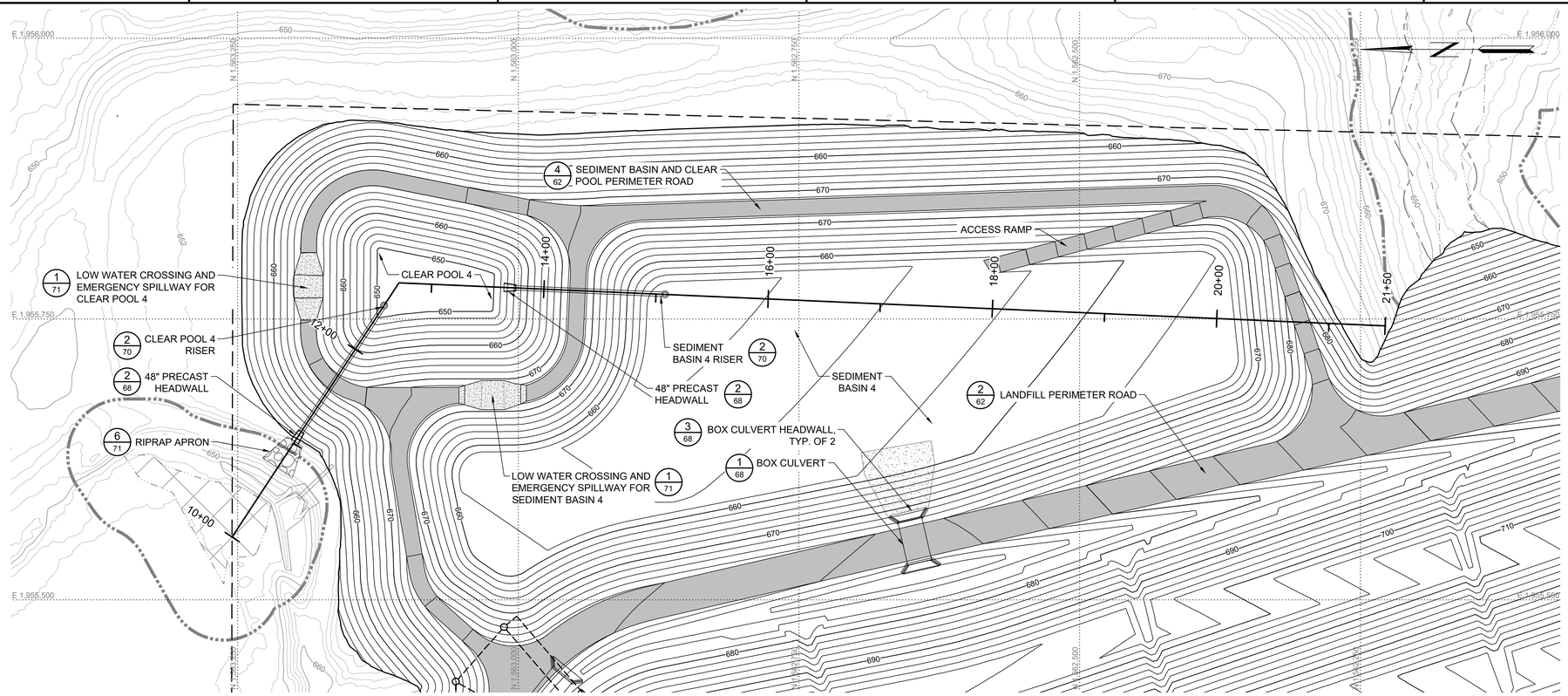
REVISION	DATE
REVISION 0	DATE NOVEMBER 2025
RESPONSE TO EPD COMMENTS	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
ACC	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV.
AS SHOWN	175518236	-	57	FINAL	0

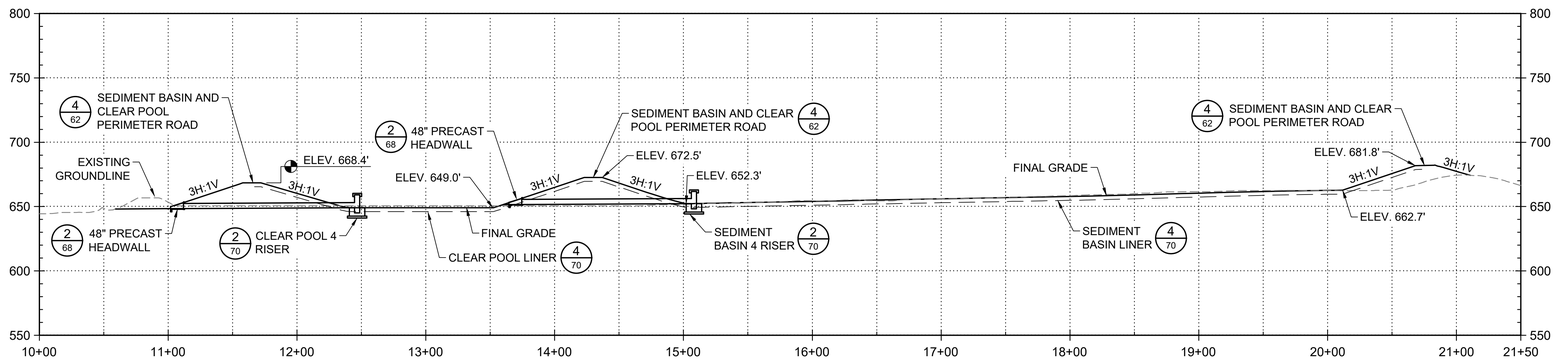
PLOT DATE: 10/13/2025 | USER: MPOWNEY, AMMY
\\US0GO-PFPSW01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\RIL_PERMIT\REV0\SHEET_FILES\66-57_18236_P-F_XSC.DWG

ANSI F: 28x40 AUTOCAD 2023



1 58 PLAN - CLEAR POOL 4 AND SEDIMENT BASIN 4
SCALE: 1"=50'

25 0 50 100 FEET
GRAPHIC SCALE: 1"=50'
CONTOUR INTERVAL 2 FEET



2 58 PROFILE - CLEAR POOL 4 AND SEDIMENT BASIN 4
SCALE: 1"=50'

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTES:

1. PROPOSED CONTOURS REPRESENT THE TOP OF THE SUBGRADE LAYER.
2. I HAVE REVIEWED THE INFORMATION PRESENTED IN THIS DRAWING, AND IN MY PROFESSIONAL OPINION, ALL CONTAINMENT STRUCTURES ARE DESIGNED TO RESIST A MAXIMUM HORIZONTAL GROUND ACCELERATION OF 0.24G, OR THE MAXIMUM EXPECTED HORIZONTAL ACCELERATION AT THE GROUND SURFACE WITH A 98% OR GREATER PROBABILITY THAT THE ACCELERATION WILL NOT BE EXCEEDED IN 50 YEARS AS DETERMINED BY THE UNITED STATES GEOLOGIC SURVEY'S EARTHQUAKE HAZARDS PROGRAM, AS OF THE DATE OF PERMIT ISSUANCE, WHICHEVER IS MORE CONSERVATIVE.

LEGEND

- 660 EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- E ELECTRIC LINE
- FO FIBER OPTIC LINE
- RAILROAD
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- WETLANDS
- RIPRAP
- PP POWER POLE
- IP SURVEY IRON PIN
- SURVEY CONTROL MONUMENT
- 660 PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 5/8/25

ISSUED FOR PERMIT

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR.	ELECT APPR.	I/C APPR.	MECH APPR.	MGR APPR.	BY	CHK'D	CIVIL APPR.	ELECT APPR.	I/C APPR.	MECH APPR.	MGR APPR.
							ACC	KDL	–				

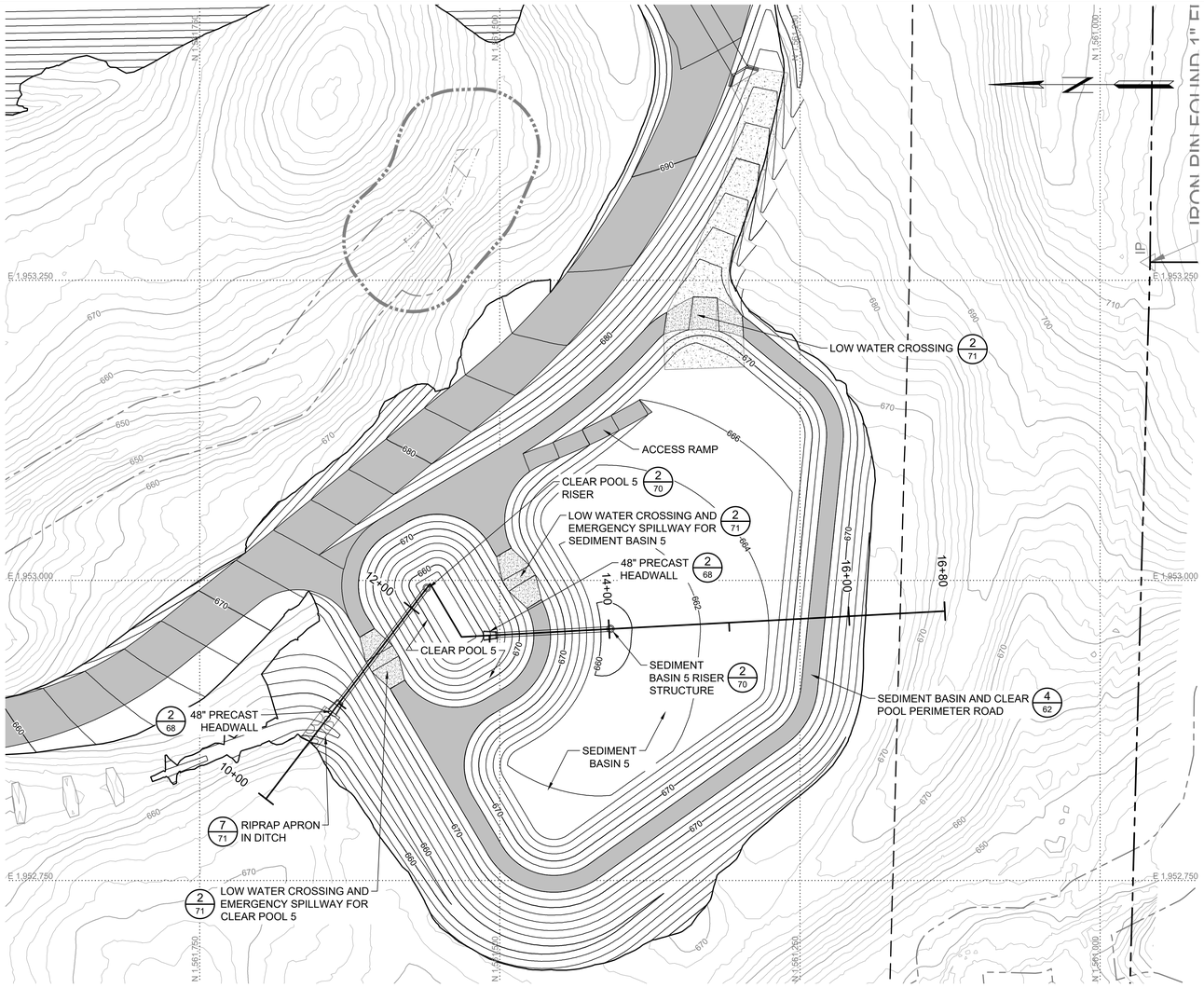
SCALE	PROJ I.D.	DRAWING NUMBER	SH	CON'D	REV.
AS SHOWN	175518236	-	58	FINAL	0

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
SEDIMENT BASIN AND CLEAR POOL 4
PLAN & PROFILE

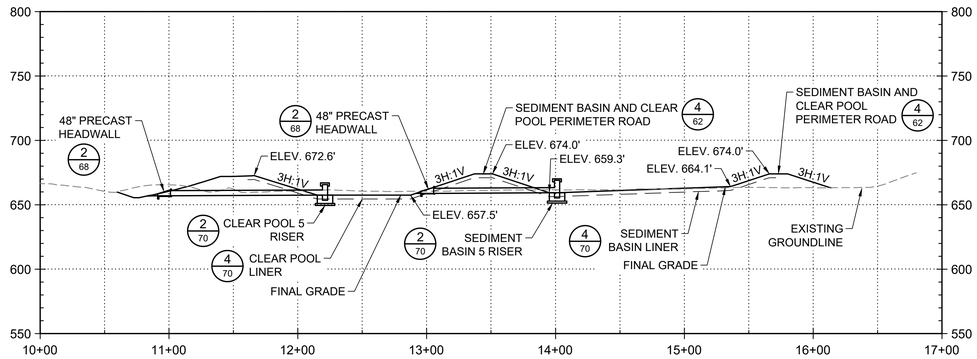
ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 3/4/2025, USER: MDOWNEY, JIMMY
\\US0022-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISIONS\SHEET_FILES\58_16258_P-F_BSN4.DWG



1/59 PLAN - CLEAR POOL 5 AND SEDIMENT BASIN 5
SCALE: 1"=50'

25 0 50 100 FEET
GRAPHIC SCALE: 1"=50'
CONTOUR INTERVAL 2 FEET



2/59 PROFILE - CLEAR POOL 5 AND SEDIMENT BASIN 5
SCALE: 1"=50'

MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTES:

1. PROPOSED CONTOURS REPRESENT THE TOP OF THE SUBGRADE LAYER.
2. I HAVE REVIEWED THE INFORMATION PRESENTED IN THIS DRAWING, AND IN MY PROFESSIONAL OPINION, ALL CONTAINMENT STRUCTURES ARE DESIGNED TO RESIST A MAXIMUM HORIZONTAL GROUND ACCELERATION OF 0.24G, OR THE MAXIMUM EXPECTED HORIZONTAL ACCELERATION AT THE GROUND SURFACE WITH A 98% OR GREATER PROBABILITY THAT THE ACCELERATION WILL NOT BE EXCEEDED IN 50 YEARS AS DETERMINED BY THE UNITED STATES GEOLOGIC SURVEY'S EARTHQUAKE HAZARDS PROGRAM, AS OF THE DATE OF PERMIT ISSUANCE, WHICHEVER IS MORE CONSERVATIVE.

LEGEND

- 660 — EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- E — ELECTRIC LINE
- FO — FIBER OPTIC LINE
- RAILROAD
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- WETLANDS
- RIPRAP
- PP — POWER POLE
- IP — SURVEY IRON PIN
- SURVEY CONTROL MONUMENT
- 660 — PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR

GEORGIA REGISTERED No. PE014478 PROFESSIONAL MATTHEW C. VAUGHAN ENGINEER
2/6/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
SEDIMENT BASIN AND CLEAR POOL 5
PLAN & PROFILE

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

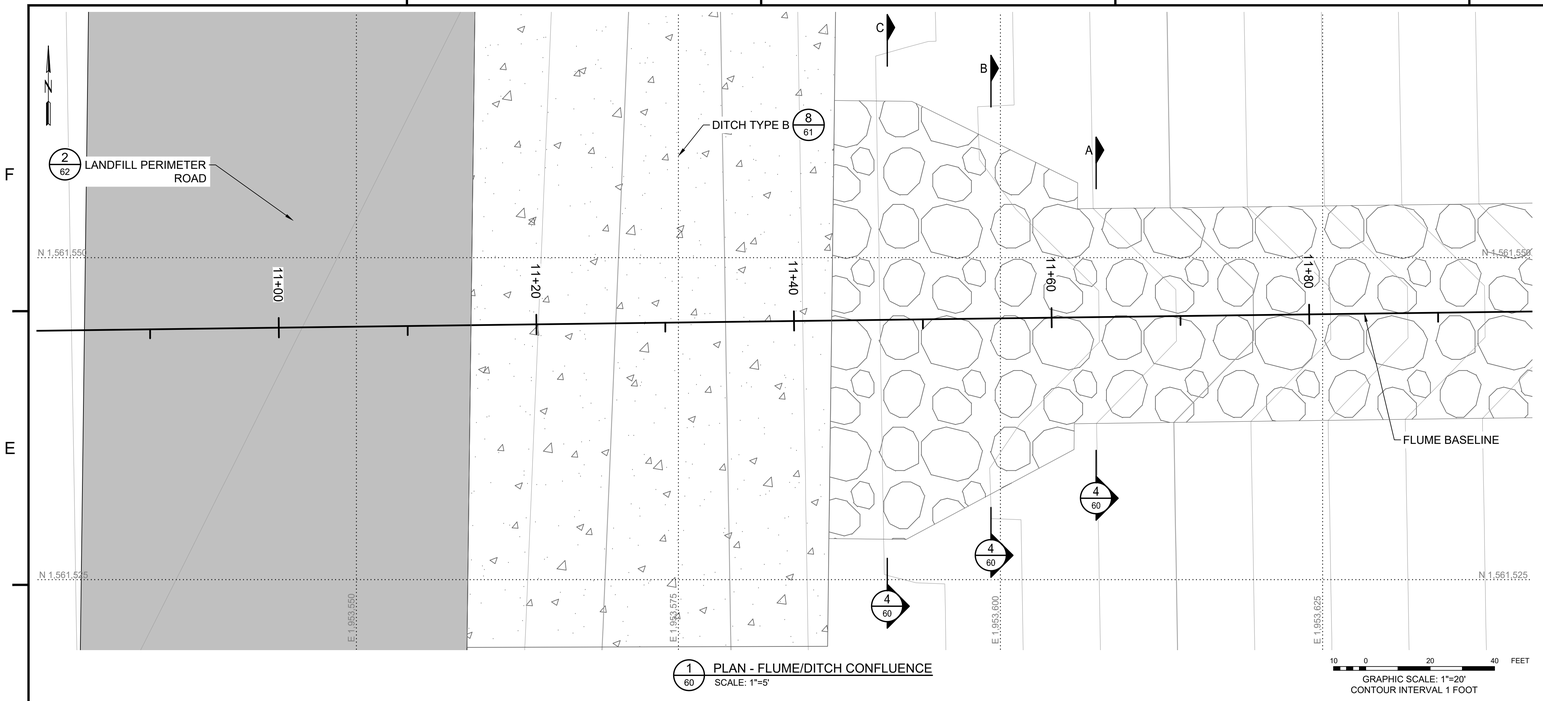
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
ACC	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	59	FINAL	0

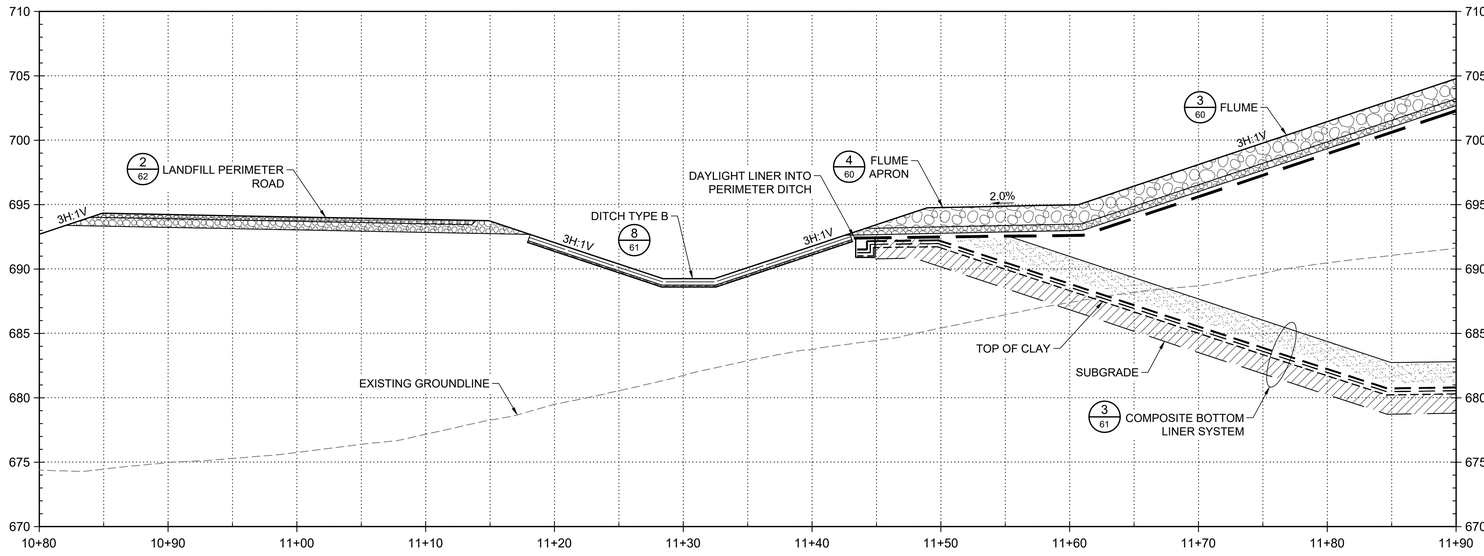
SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

PLOT DATE: 26/2025 USER: MDOWNEY JIMMY
\\JS0522-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\RL_PERMIT\REVISHEET_FILES\fig_18326_P-F_B3K5.DWG

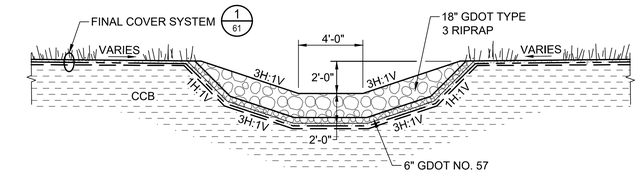
ANSI F: 28x40 AUTOCAD 2023



1 60 PLAN - FLUME/DITCH CONFLUENCE
SCALE: 1"=5'

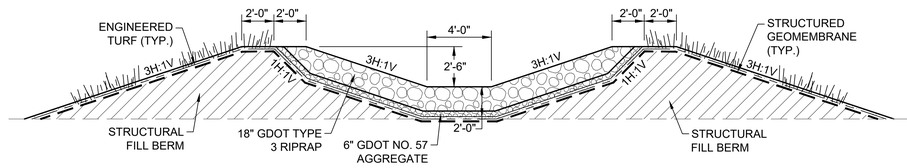


2 60 PROFILE - FLUME/DITCH CONFLUENCE
SCALE: 1"=5'

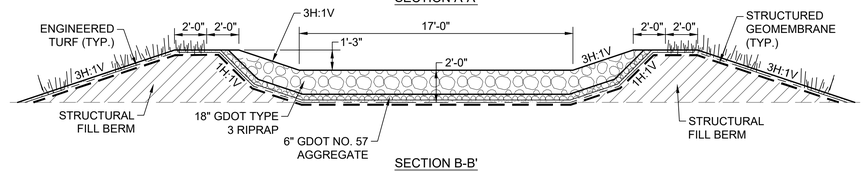


NOTES:
1. ILLUSTRATED IS THE CLOSURE CAP SYSTEM OPTION. THE FINAL COVER OPTION HAS THE SAME FINAL ELEVATION/GRADES BUT THE TOP OF WASTE (CCB) ELEVATION IS REDUCED TO ACCOUNT FOR THE 6-INCH TOPSOIL AND 18-INCH PROTECTIVE SOIL COVER LAYERS.
2. FLUME SIDE SLOPES MAY BE REDUCED TO 10H:1V AT BENCH LOCATIONS TO ALLOW VEHICLE CROSSING.

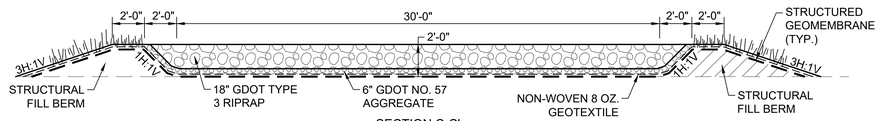
3 60 DETAIL - FLUME
SCALE: 1/4"=1'-0"



SECTION A-A'



SECTION B-B'



SECTION C-C'

NOTE:
THE TRANSITION FROM DETAIL 3 OF 11 TO SECTION A-A' OCCURS JUST AFTER THE SLOPE TRANSITION FROM A 3H:1V.

4 60 DETAIL - FLUME APRON
SCALE: 1/4"=1'-0"

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VALLIANT 2/11/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

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

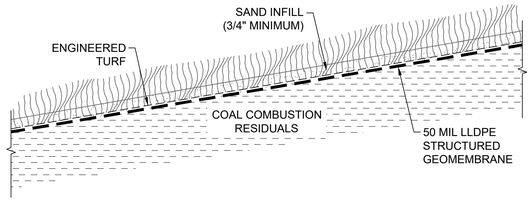
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
ACC	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
FLUME PLAN, PROFILE AND DETAILS

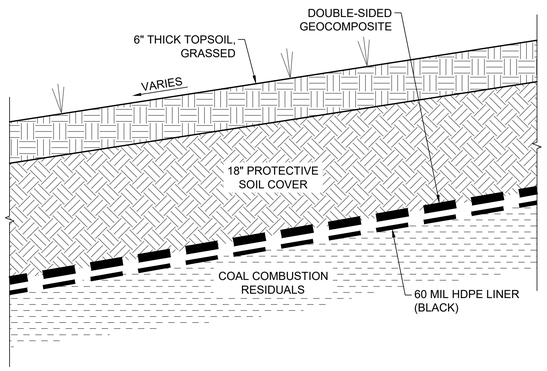
SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV.
AS SHOWN	175518236	-	60	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 28/2025 USER: MCKINNEY, JIMMY
\\US925-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISHEET_FILES\60_18236_P-F_FLM.DWG

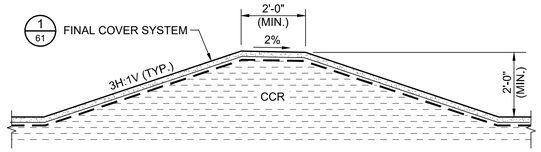


OPTION 1 - ENGINEERED TURF COVER



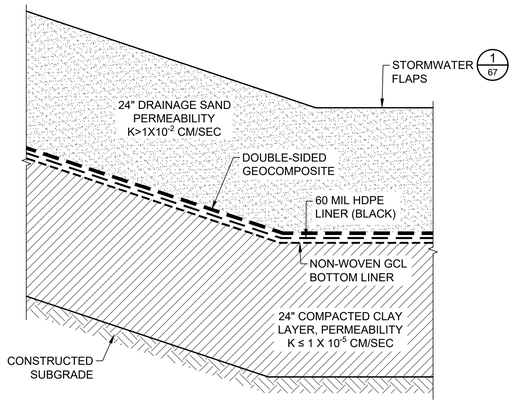
OPTION 2 - SOIL COVER

1 / 61 DETAIL - FINAL COVER SYSTEM
NOT TO SCALE



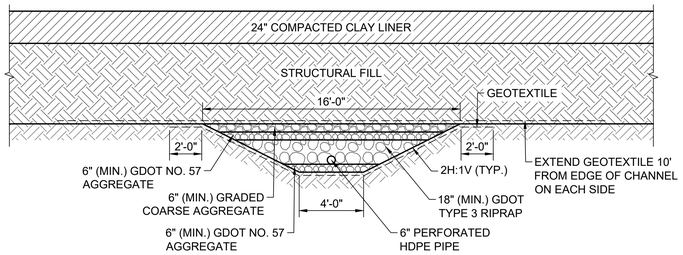
NOTE:
ILLUSTRATED IS THE ENGINEERED TURF COVER OPTION. THE SOIL COVER OPTION HAS THE SAME FINAL ELEVATION/GRADES BUT THE TOP OF WASTE (CCR) ELEVATION IS REDUCED TO ACCOUNT FOR THE 6-INCH TOPSOIL AND 18-INCH PROTECTIVE SOIL COVER LAYERS.

2 / 61 DETAIL - DIVERSION BERM
SCALE: 1/2"=1'-0"

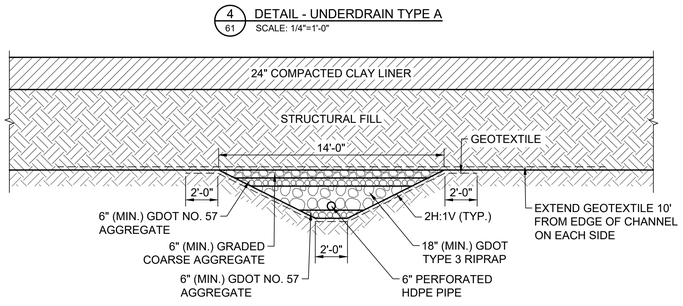


NOTES:
1. SEPARATOR GEOTEXTILE SHALL BE USED ON TOP OF SAND/COAL COMBUSTION RESIDUALS INTERFACE IF TESTING RESULTS INDICATE FILTER CRITERIA NOT MET.
2. CONTRACTOR MAY OMIT THE NON-WOVEN GCL BOTTOM LINER IF A PERMEABILITY OF K≤1x10-7 CM/SEC CAN BE ACHIEVED FOR THE COMPACTED CLAY LAYER.

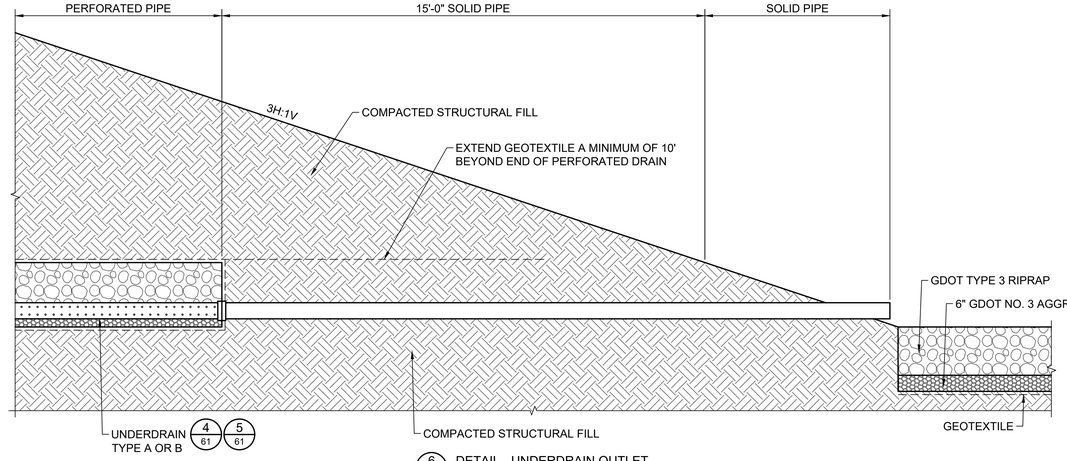
3 / 61 DETAIL - COMPOSITE BOTTOM LINER SYSTEM
SCALE: 1"=1'-0"



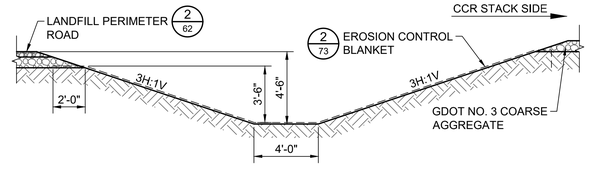
4 / 61 DETAIL - UNDERDRAIN TYPE A
SCALE: 1/4"=1'-0"



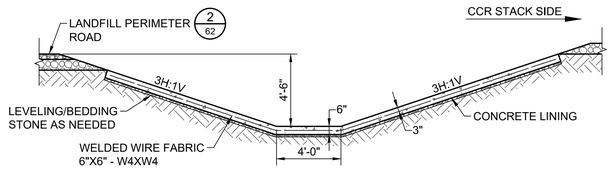
5 / 61 DETAIL - UNDERDRAIN TYPE B
SCALE: 1/4"=1'-0"



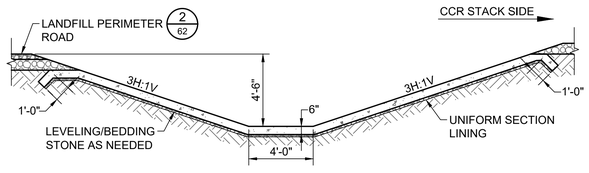
6 / 61 DETAIL - UNDERDRAIN OUTLET
SCALE: 1/2"=1'-0"



7 / 61 DETAIL - DITCH TYPE A
SCALE: 1/4"=1'-0"

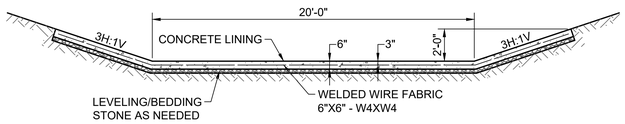


OPTION 1 - CONCRETE LINING

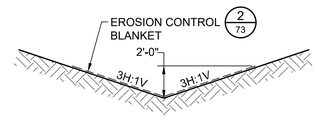


OPTION 2 - UNIFORM SECTION LINING

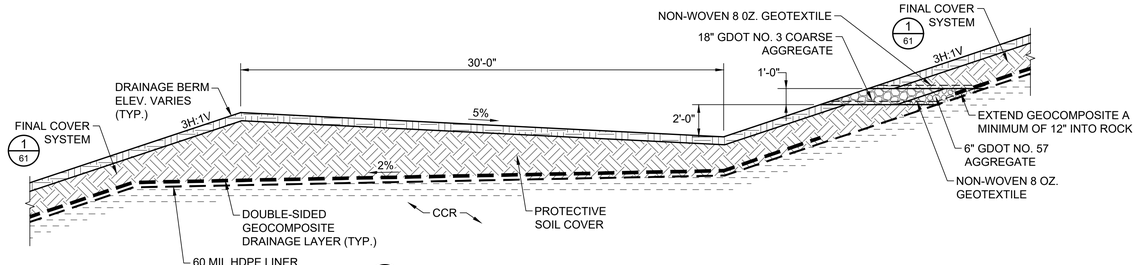
8 / 61 DETAIL - DITCH TYPE B
SCALE: 1/4"=1'-0"



9 / 61 DETAIL - DITCH TYPE C
SCALE: 1/4"=1'-0"



10 / 61 DETAIL - DITCH TYPE D
SCALE: 1/4"=1'-0"



11 / 61 DETAIL - DRAINAGE BENCH (FINAL COVER OPTION)
SCALE: 1/4"=1'-0"

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 6/16/25

ISSUED FOR PERMIT

REVISION	DATE
REVISION 0	DATE FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION	

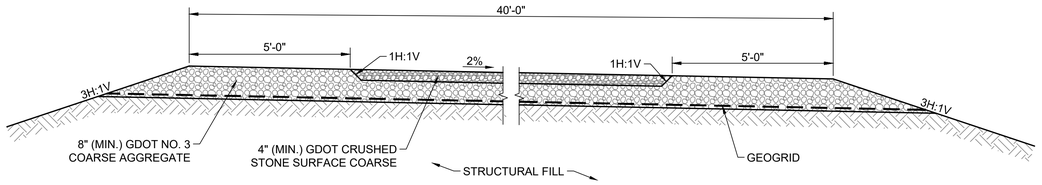
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

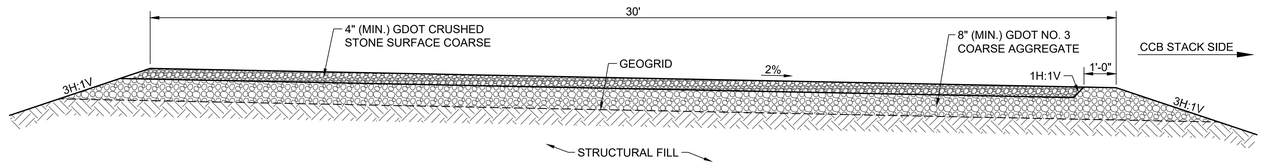
SCALE	PROJ.I.D.	DRAWING NUMBER	SH.	CONT'D	REV.
AS SHOWN	175518236	-	61	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

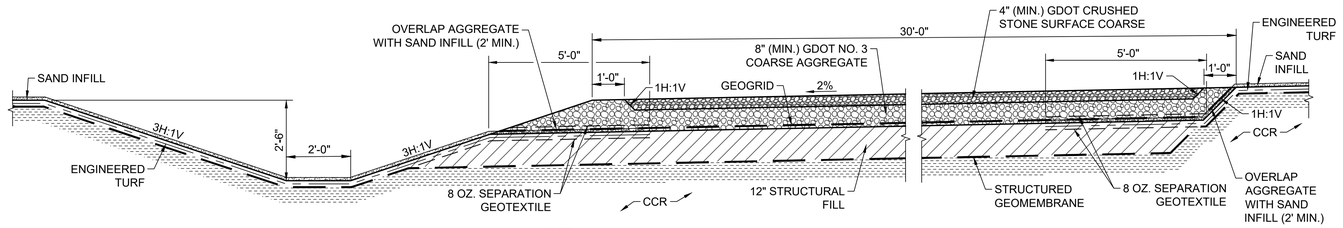
PLOT DATE: 28/2025 USER: MCKINNEY, JIMMY
\\USEA2-PFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\RL_PERMIT\REVISHEET_FILE\61_-_1820L_P-F_D11.DWG



1 / 62 DETAIL - SITE ACCESS ROAD
SCALE: 1/2"=1'-0"

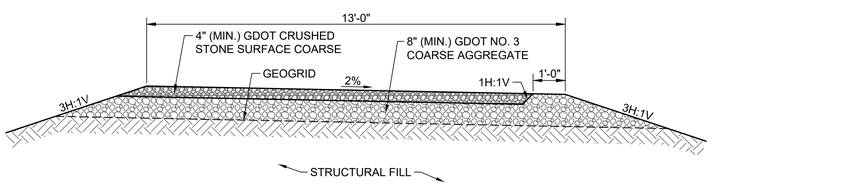


2 / 62 DETAIL - LANDFILL PERIMETER ROAD
SCALE: 1/2"=1'-0"

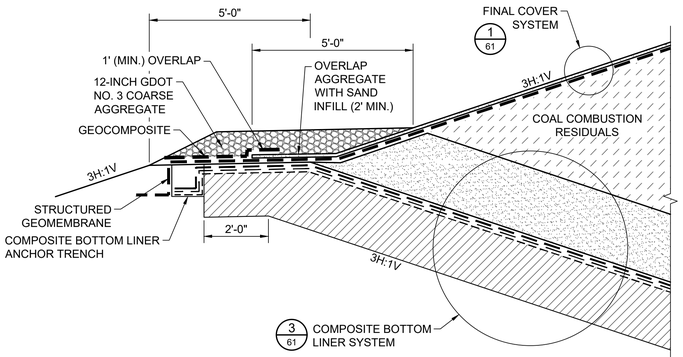


NOTE:
STRUCTURAL FILL SHALL BE TRACKED IN PLACE WITH LOW GROUND PRESSURE EQUIPMENT.

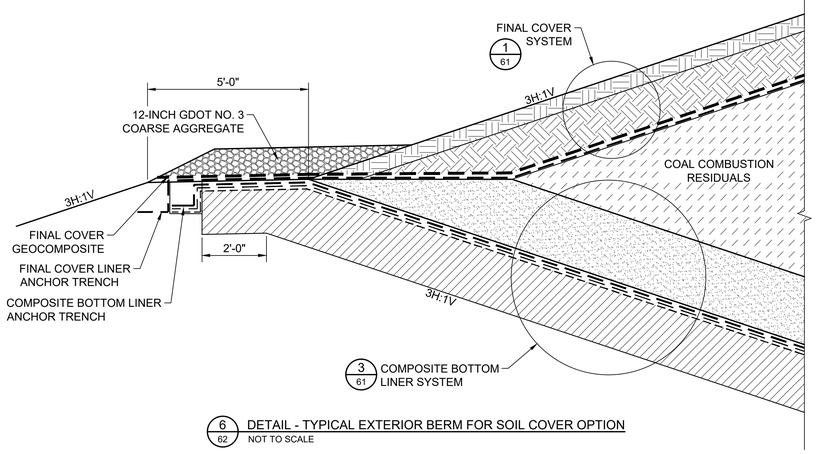
3 / 62 DETAIL - LANDFILL ACCESS ROAD
SCALE: 1/2"=1'-0"



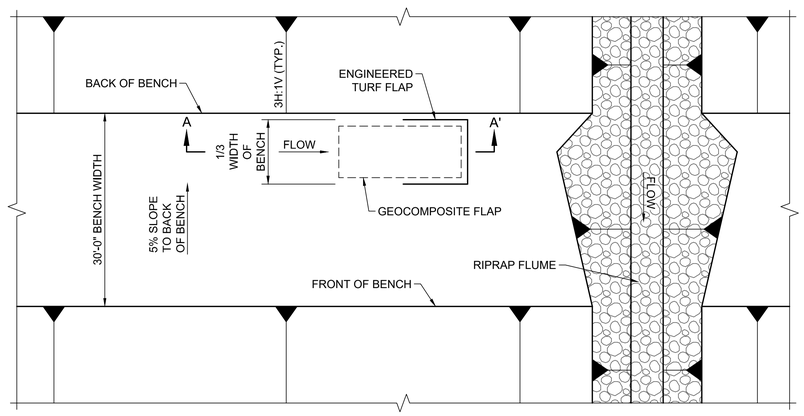
4 / 62 DETAIL - SEDIMENT BASIN AND CLEAR POOL PERIMETER ROAD
SCALE: 1/2"=1'-0"



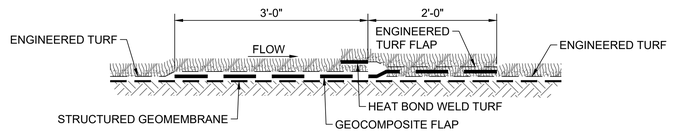
5 / 62 DETAIL - TYPICAL EXTERIOR BERM FOR ENGINEERED TURF COVER OPTION
NOT TO SCALE



6 / 62 DETAIL - TYPICAL EXTERIOR BERM FOR SOIL COVER OPTION
NOT TO SCALE



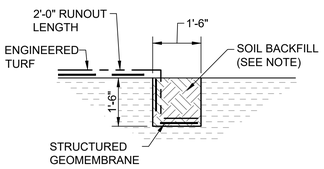
PLAN



SECTION A-A'

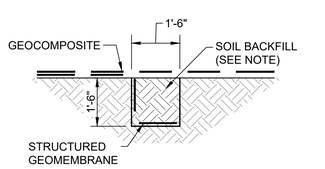
NOTE:
WATER RELEASE VENTS SHALL BE INSTALLED ALONG THE BENCHES (STARTING IMMEDIATELY ADJACENT TO THE FLUMES).

7 / 62 DETAIL - CLOSURE TURF VENT
SCALE: NTS



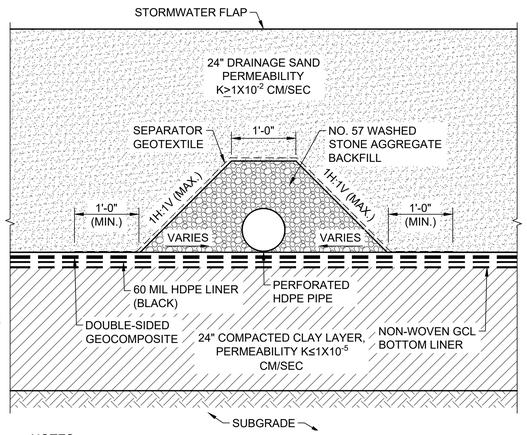
NOTE:
SOIL BACKFILL FOR ANCHOR TRENCH TYPE A SHALL CONSIST OF STRUCTURAL FILL PLACED/COMPACTED IN ACCORDANCE WITH ANCHOR TRENCH REQUIREMENTS PER THE TECHNICAL SPECIFICATIONS.

8 / 62 DETAIL - ANCHOR TRENCH TYPE A (ENGINEERED TURF COVER OPTION)
SCALE: 1/2"=1'-0"



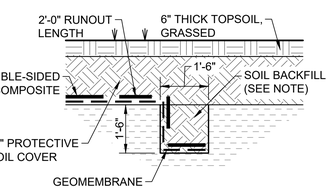
NOTE:
SOIL BACKFILL FOR ANCHOR TRENCH TYPE B SHALL CONSIST OF STRUCTURAL FILL PLACED/COMPACTED IN ACCORDANCE WITH ANCHOR TRENCH REQUIREMENTS PER THE TECHNICAL SPECIFICATIONS.

9 / 62 DETAIL - ANCHOR TRENCH TYPE B (ENGINEERED TURF COVER OPTION)
SCALE: 1/2"=1'-0"



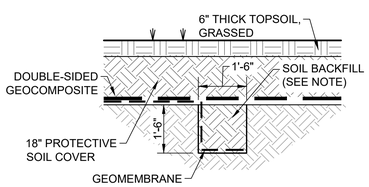
NOTES:
1. HEAT BOND SEPARATOR GEOTEXTILE TO GEOCOMPOSITE AT OVERLAP OVER STONE AGGREGATE BACKFILL.
2. TOP OF COMPACTED CLAY LAYER WILL SLOPE TOWARD THE HDPE PIPE FROM BOTH DIRECTIONS FOR THE LEACHATE COLLECTOR LATERAL PIPES LOCATED ALONG THE PERIMETER OF THE SUBGRADE. THE TOP OF COMPACTED CLAY LAYER SLOPES IN ONE DIRECTION FOR ALL OTHER LEACHATE COLLECTOR PIPES.
3. CONTRACTOR MAY OMIT THE NON-WOVEN GCL BOTTOM LINER IF A PERMEABILITY OF K≤1x10^{-7} CM/SEC CAN BE ACHIEVED FOR THE COMPACTED CLAY LAYER.
4. LEACHATE COLLECTION PERFORATED HDPE PIPE DIMENSIONS VARY BY LOCATION. SEE TOP OF COMPACTED CLAY LAYER AND LEACHATE COLLECTION LAYER DRAWING FOR PIPE DIMENSIONS AT THE VARIOUS LOCATIONS.

12 / 62 DETAIL - TYPICAL LEACHATE COLLECTION SYSTEM PIPING
SCALE: 1"=1'-0"



NOTE:
SOIL BACKFILL FOR ANCHOR TRENCH TYPE A SHALL CONSIST OF STRUCTURAL FILL PLACED/COMPACTED IN ACCORDANCE WITH ANCHOR TRENCH REQUIREMENTS PER THE TECHNICAL SPECIFICATIONS.

10 / 62 DETAIL - ANCHOR TRENCH TYPE A (SOIL COVER OPTION)
SCALE: 1/2"=1'-0"



NOTE:
SOIL BACKFILL FOR ANCHOR TRENCH TYPE B SHALL CONSIST OF STRUCTURAL FILL PLACED/COMPACTED IN ACCORDANCE WITH ANCHOR TRENCH REQUIREMENTS PER THE TECHNICAL SPECIFICATIONS.

11 / 62 DETAIL - ANCHOR TRENCH TYPE B (SOIL COVER OPTION)
SCALE: 1/2"=1'-0"

SECTION OR DETAIL NO. / TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE024418 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

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

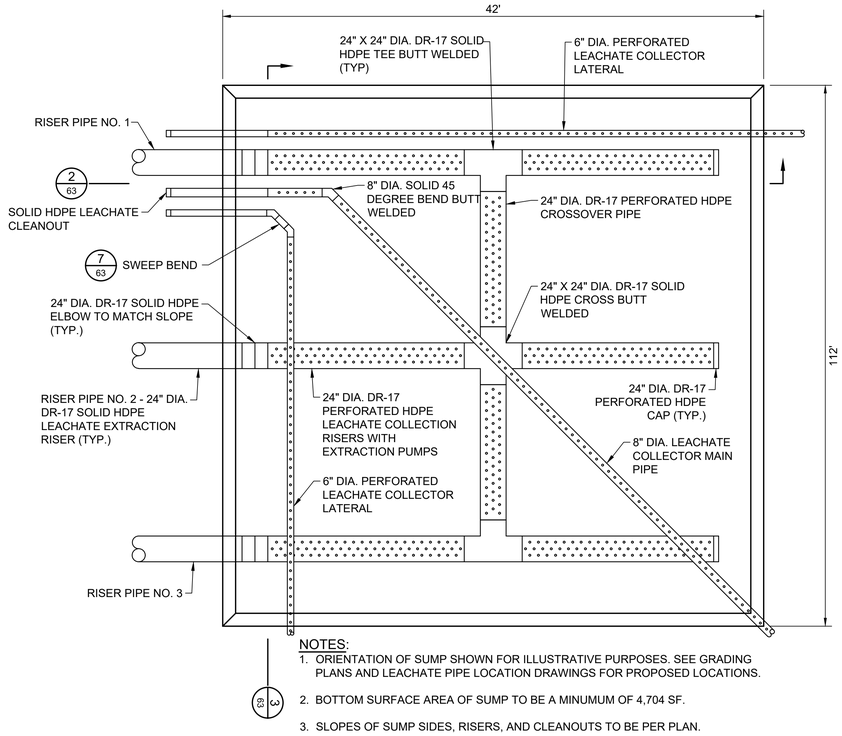
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	62	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

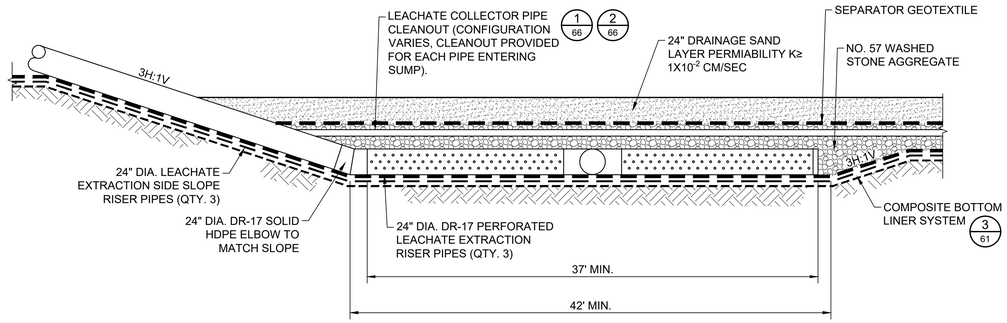
PLOT DATE: 2/6/2025 USER: MCHAMEY, JIMMY
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NOTES:
1. ORIENTATION OF SUMP SHOWN FOR ILLUSTRATIVE PURPOSES. SEE GRADING PLANS AND LEACHATE PIPE LOCATION DRAWINGS FOR PROPOSED LOCATIONS.
2. BOTTOM SURFACE AREA OF SUMP TO BE A MINUMUM OF 4,704 SF.
3. SLOPES OF SUMP SIDES, RISERS, AND CLEANOUTS TO BE PER PLAN.

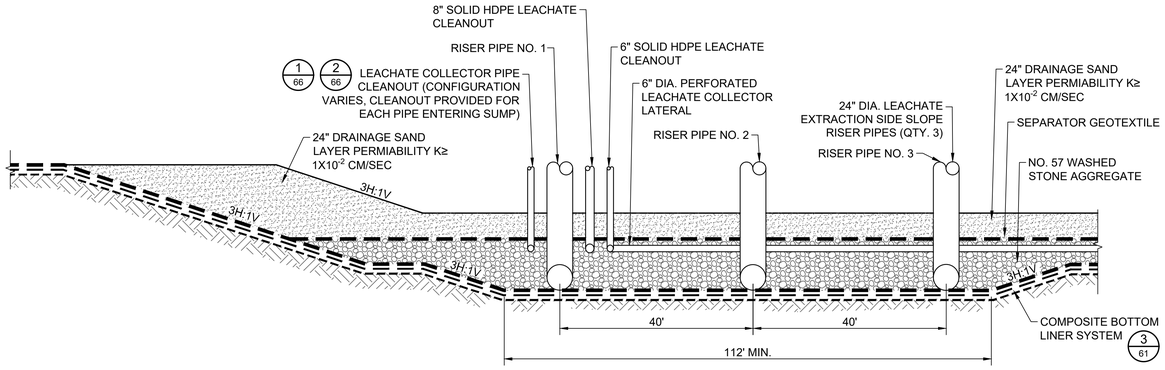
3 63

1 63 PLAN VIEW - LEACHATE COLLECTION SUMP
NOT TO SCALE



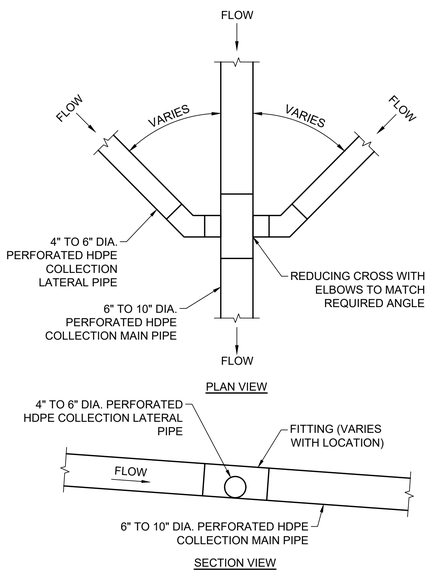
NOTES:
1. INSTALL SEPARATOR GEOTEXTILE BENEATH 24" DIAMETER RISER PIPES TO PROTECT UNDERLYING GEOSYNTHETICS.
2. LENGTH OF PERFORATED 24" HDPE AND CROSS OR TEE SHALL BE LESS THAN 35".
3. GECOMPOSITES DO NOT EXTEND UP THE SIDE SLOPES.

2 63 SECTION - LEACHATE COLLECTION SUMP
NOT TO SCALE

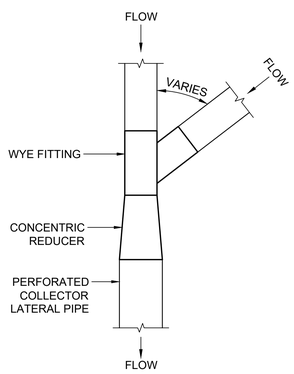


NOTES:
1. INSTALL SEPARATOR GEOTEXTILE BENEATH 24" DIAMETER RISER PIPES TO PROTECT UNDERLYING GEOSYNTHETICS.
2. GECOMPOSITES DO NOT EXTEND UP THE SIDE SLOPES.

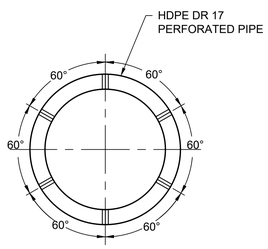
3 63 SECTION - LEACHATE COLLECTION SUMP
NOT TO SCALE



4 63 DETAIL - LATERAL COLLECTION MAIN PIPE CONNECTIONS
NOT TO SCALE

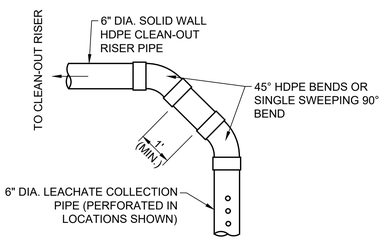


5 63 DETAIL - LATERAL COLLECTION LATERAL WYE
NOT TO SCALE



NOTE:
AASHTO CLASS I PERFORATION FOR 4" TO 24"Ø PIPE-6 PERFORATIONS REQ'D PER SIX INCH LENGTH OF PIPE (TOTAL 12 PER FT OF PIPE. EACH PERFORATION 0.25"Ø CIRCULAR.)

6 63 DETAIL - LEACHATE PERFORATED PIPE
NOT TO SCALE



7 63 DETAIL - SWEEP BEND
NOT TO SCALE

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044[illegible] PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

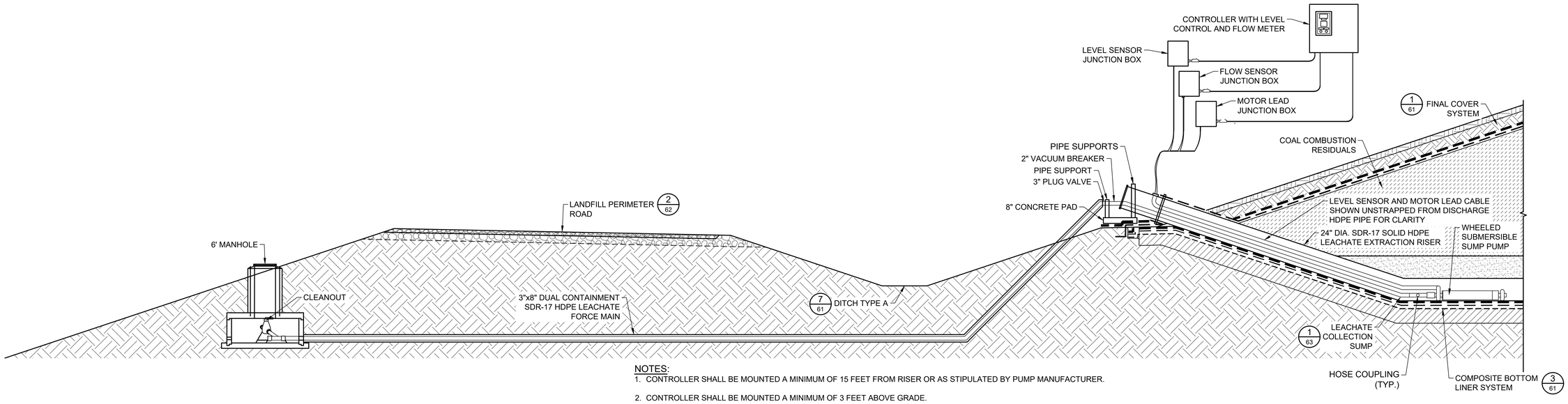
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
							BMS	KDL	–					AS SHOWN	175518236	-	63	FINAL	0

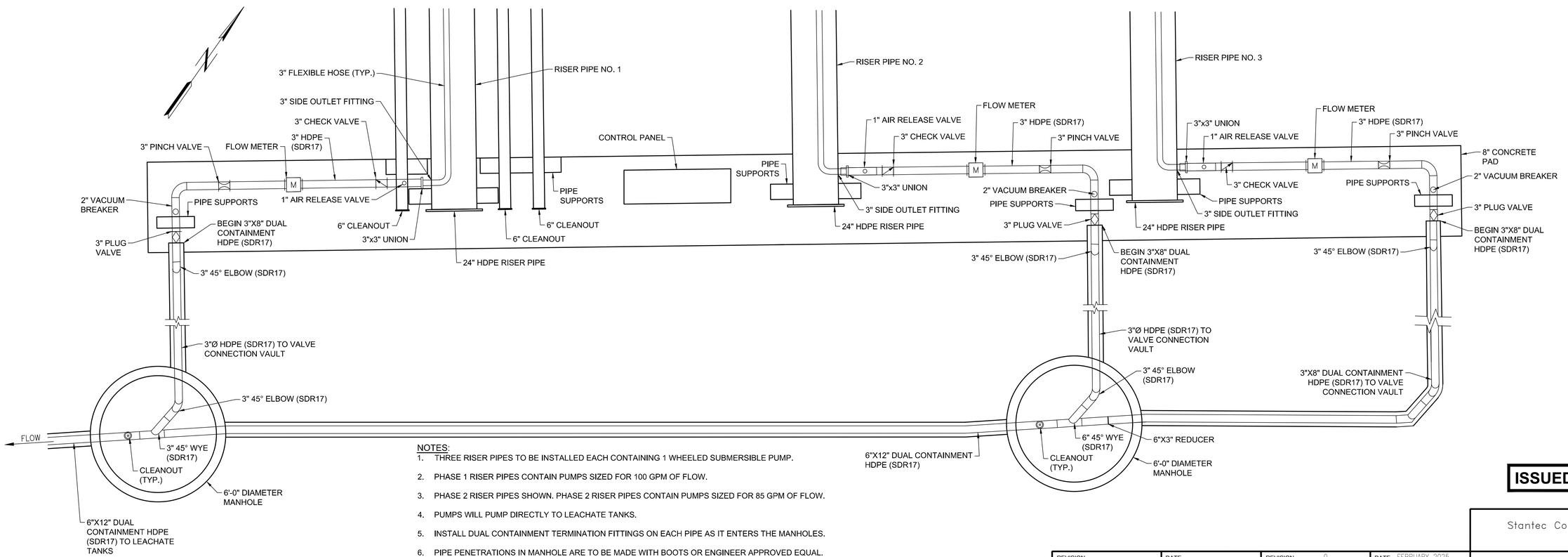
PLOT DATE: 2/6/2025 USER: MDINNEY AMPP
\\US0622-PPFS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVIS\SHEET_FILES\63_18236_P-F_DTS.DWG

ANSI F: 28x40 AUTOCAD 2023



NOTES:
1. CONTROLLER SHALL BE MOUNTED A MINIMUM OF 15 FEET FROM RISER OR AS STIPULATED BY PUMP MANUFACTURER.
2. CONTROLLER SHALL BE MOUNTED A MINIMUM OF 3 FEET ABOVE GRADE.
3. INSTALL ALL LEACHATE PUMPS DURING THE INITIAL PHASE OF CONSTRUCTION.
4. DUAL ENCASED PIPE TO MAINTAIN MINIMUM COVER OF 36 INCHES.
5. DUAL ENCASED PIPE TO MAINTAIN POSITIVE DRAINAGE TOWARDS MANHOLE AT ALL TIMES.
6. PHASE 2 PIPING SHOWN.

1/64 DETAIL - LEACHATE EXTRACTION PUMP SIDE SLOPE RISER
SCALE: 1/4"=1'-0"



NOTES:
1. THREE RISER PIPES TO BE INSTALLED EACH CONTAINING 1 WHEELED SUBMERSIBLE PUMP.
2. PHASE 1 RISER PIPES CONTAIN PUMPS SIZED FOR 100 GPM OF FLOW.
3. PHASE 2 RISER PIPES SHOWN. PHASE 2 RISER PIPES CONTAIN PUMPS SIZED FOR 85 GPM OF FLOW.
4. PUMPS WILL PUMP DIRECTLY TO LEACHATE TANKS.
5. INSTALL DUAL CONTAINMENT TERMINATION FITTINGS ON EACH PIPE AS IT ENTERS THE MANHOLES.
6. PIPE PENETRATIONS IN MANHOLE ARE TO BE MADE WITH BOOTS OR ENGINEER APPROVED EQUAL.
7. PHASE 1 PUMP DISCHARGE PIPING AND VALVING TO BE 3".

2/64 DETAIL - LEACHATE COLLECTION PIPING AND VAULTS
NOT TO SCALE

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE0402 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 5/1/15

ISSUED FOR PERMIT

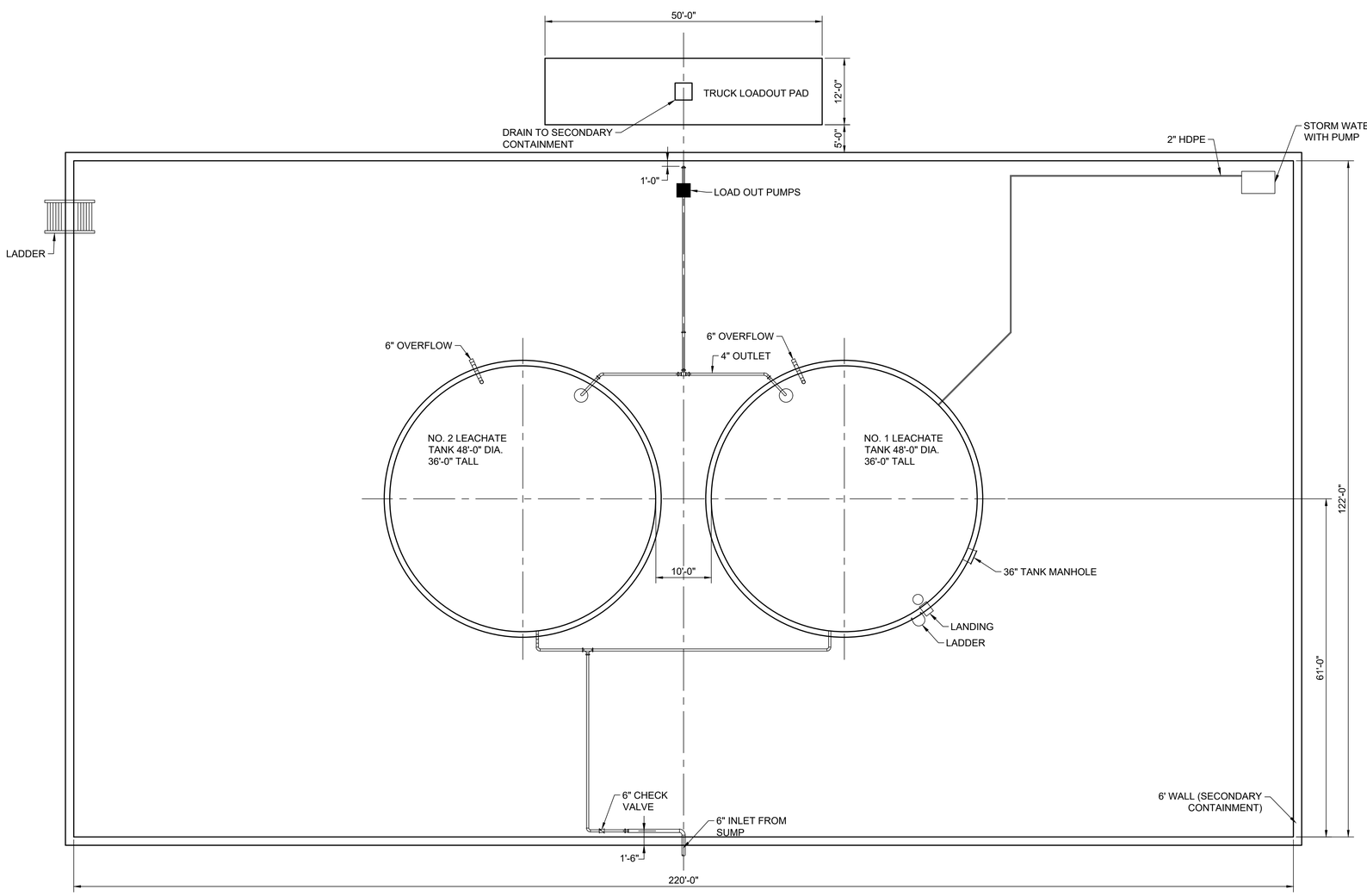
Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

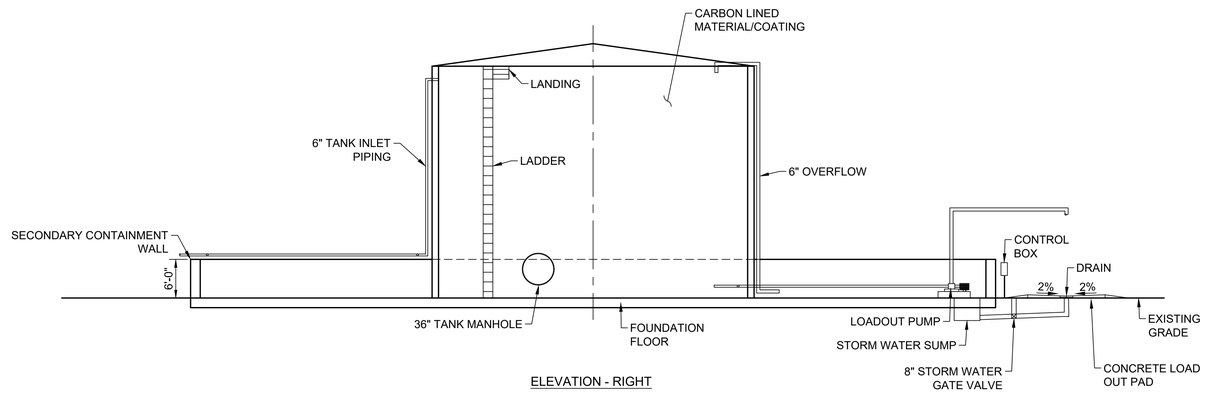
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BMS	KDL	–					AS SHOWN	175518236	-	64	FINAL	0

PLOT DATE: 28/2025 | USER: MKINNEY, JIMMY
\\US922-PPFSS01\SHARED_PROJECTS\175518236\TECH\CAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISHEET_FILES\64_18236_P-F_DT4.DWG

ANSI F: 28x40 AUTOCAD 2023



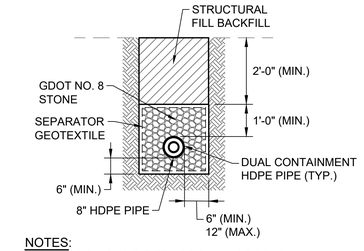
PLAN



ELEVATION - RIGHT

NOTES:
1. FINAL FOUNDATION FLOOR DETAILS TO BE DETERMINED UPON COMPLETION OF GEOTECHNICAL EXPLORATION.
2. TWO LEACHATE TANKS TO BE INSTALLED. CARBON LINED MATERIAL. EACH TANK HAS A MINIMUM DIAMETER OF 48'-0" AND IS 36'-0" TALL. EACH TANK HAS A CAPACITY OF 480,000 GALLONS. A CONCRETE FLOOR SECONDARY CONTAINMENT HAS BEEN SIZED FOR 110% OF THE VOLUME PLUS A 25YR/24HR RAINFALL EVENT. SECONDARY CONTAINMENT IS 6 FEET TALL.

1/65 DETAIL - LEACHATE TANK LAYOUT
NOT TO SCALE



NOTES:
1. HDPE PIPING AND FITTINGS SHALL BE DR17.
2. INSTALL UNDERGROUND MARKING TAPE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
3. CONTRACTOR TO PROVIDE ALL NECESSARY SHORING OR TRENCH BOXES.

2/65 DETAIL - LEACHATE FORCE MAIN
SCALE: 1/2"=1'-0"

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/10/25

ISSUED FOR PERMIT

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

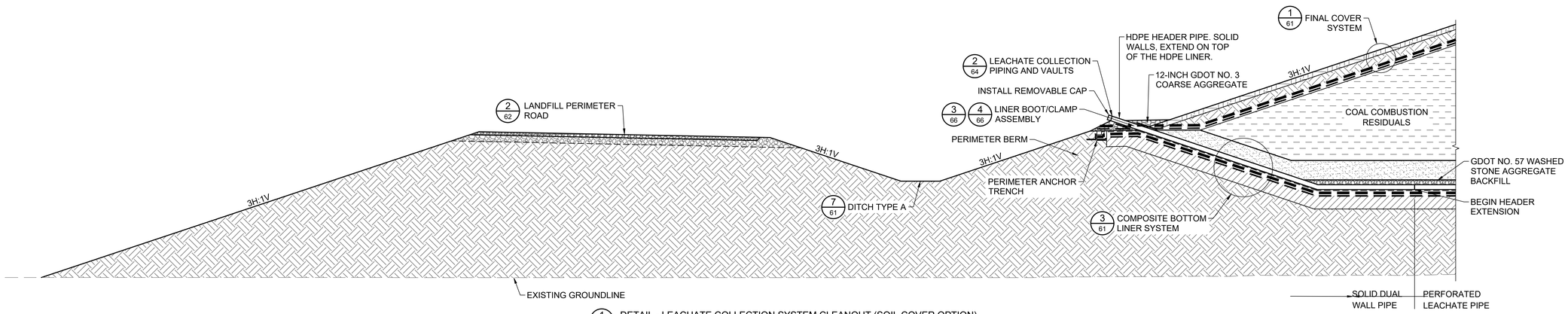
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BMS	KDL	–				

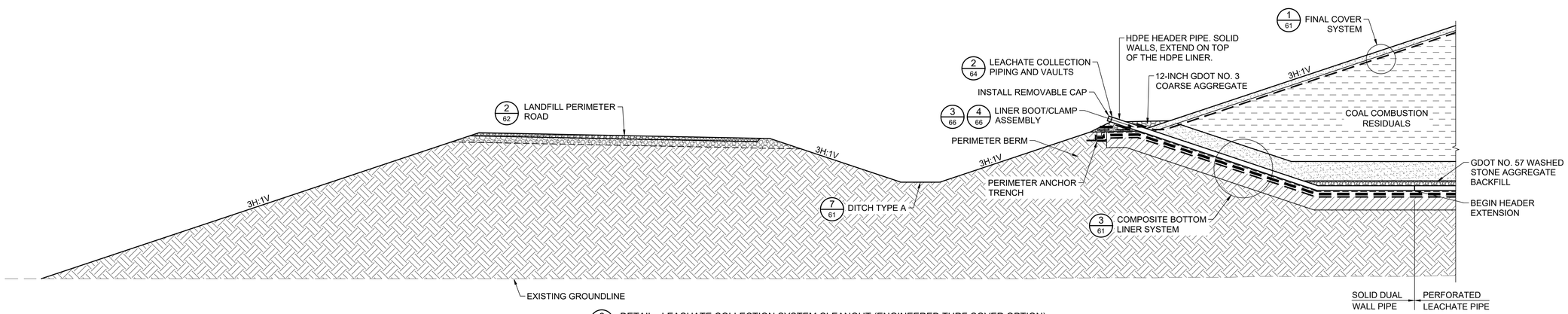
Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	65	FINAL	0

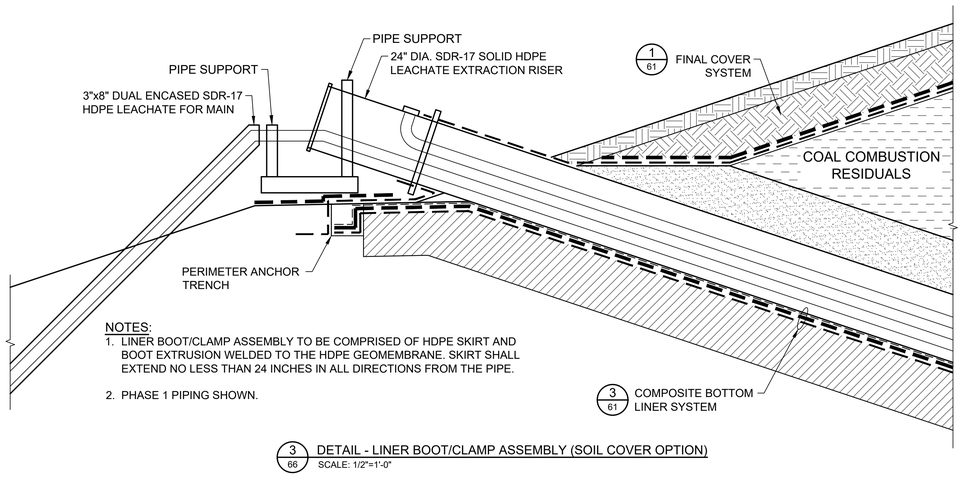
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1 66 DETAIL - LEACHATE COLLECTION SYSTEM CLEANOUT (SOIL COVER OPTION)
SCALE: 1"=5'

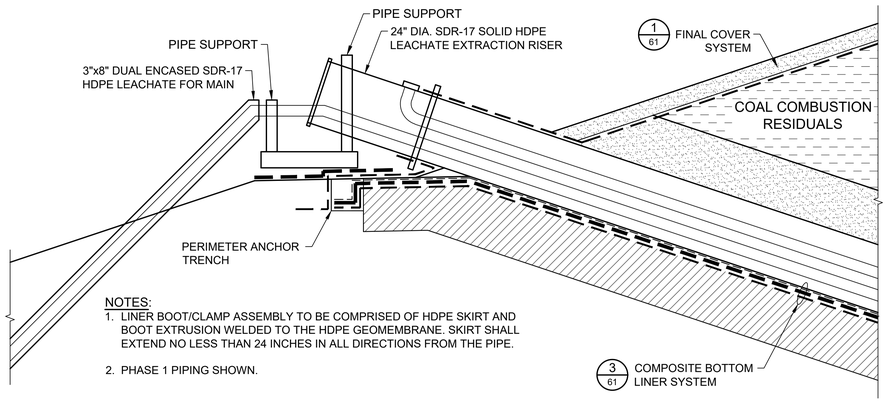


2 66 DETAIL - LEACHATE COLLECTION SYSTEM CLEANOUT (ENGINEERED TURF COVER OPTION)
SCALE: 1"=5'



NOTES:
1. LINER BOOT/CLAMP ASSEMBLY TO BE COMPRISED OF HDPE SKIRT AND BOOT EXTRUSION WELDED TO THE HDPE GEOMEMBRANE. SKIRT SHALL EXTEND NO LESS THAN 24 INCHES IN ALL DIRECTIONS FROM THE PIPE.
2. PHASE 1 PIPING SHOWN.

3 66 DETAIL - LINER BOOT/CLAMP ASSEMBLY (SOIL COVER OPTION)
SCALE: 1/2"=1'-0"



NOTES:
1. LINER BOOT/CLAMP ASSEMBLY TO BE COMPRISED OF HDPE SKIRT AND BOOT EXTRUSION WELDED TO THE HDPE GEOMEMBRANE. SKIRT SHALL EXTEND NO LESS THAN 24 INCHES IN ALL DIRECTIONS FROM THE PIPE.
2. PHASE 1 PIPING SHOWN.

4 66 DETAIL - LINER BOOT/CLAMP ASSEMBLY (ENGINEERED TURF COVER OPTION)
SCALE: 1/2"=1'-0"

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN
2/10/25

ISSUED FOR PERMIT

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

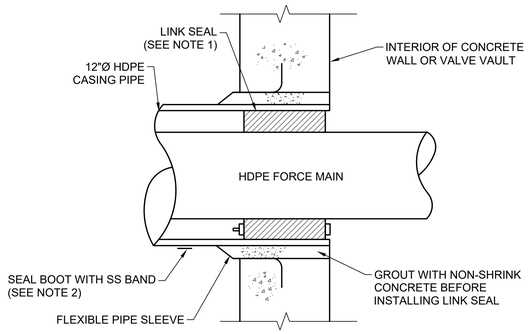
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BY	CHK'D	CIVIL APPR.	ELECT APPR.	I/C APPR.	MECH APPR.	MGR APPR.
BMS	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH.	CONT'D	REV.
AS SHOWN	175518236	-	66	FINAL	0

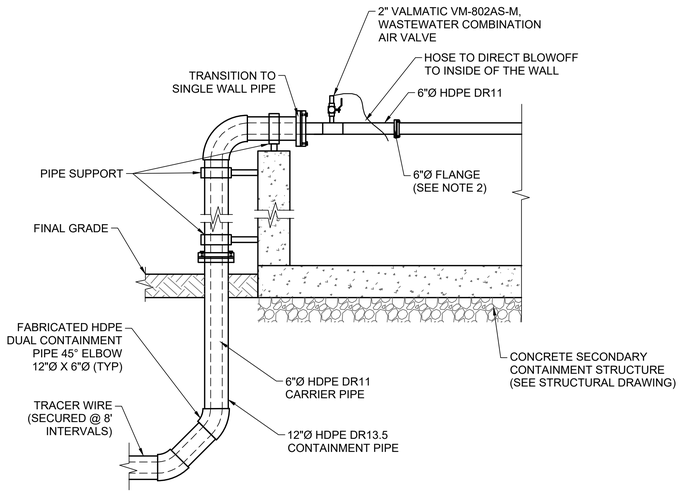
ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 28/2025 USER: MCKINNEY, JIMMY
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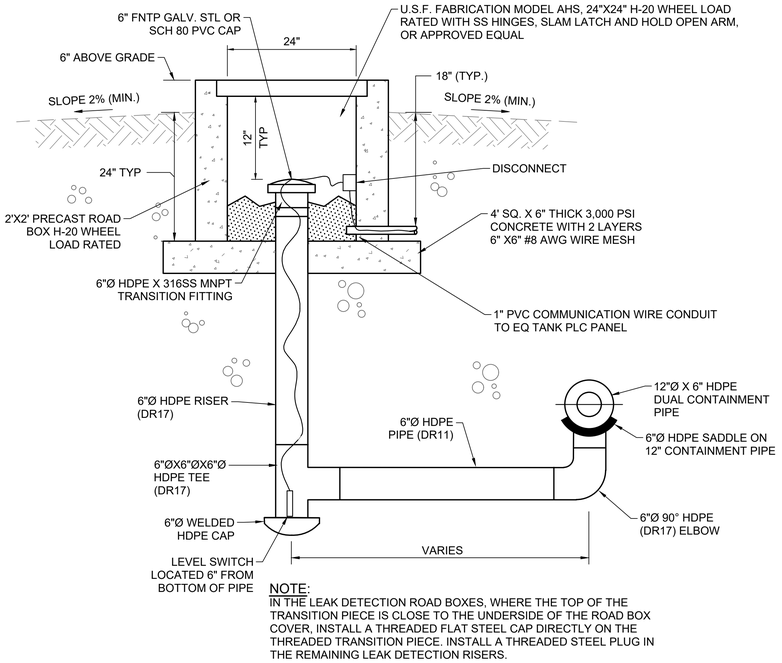
NOTES:
1. USE THUNDERLINE LINK-SEAL TYPE LS 300-C FOR 12"Ø THROUGH 6"Ø PIPELINES.
2. USE LOCK-JOINT FLEXIBLE MANHOLE SLEEVE OR KOR-N-SEAL JOINT SLEEVE OR EQUAL AT ALL PENETRATIONS.

1 / 67 DETAIL - FORCE MAIN WALL PENETRATION DETAIL
NOT TO SCALE



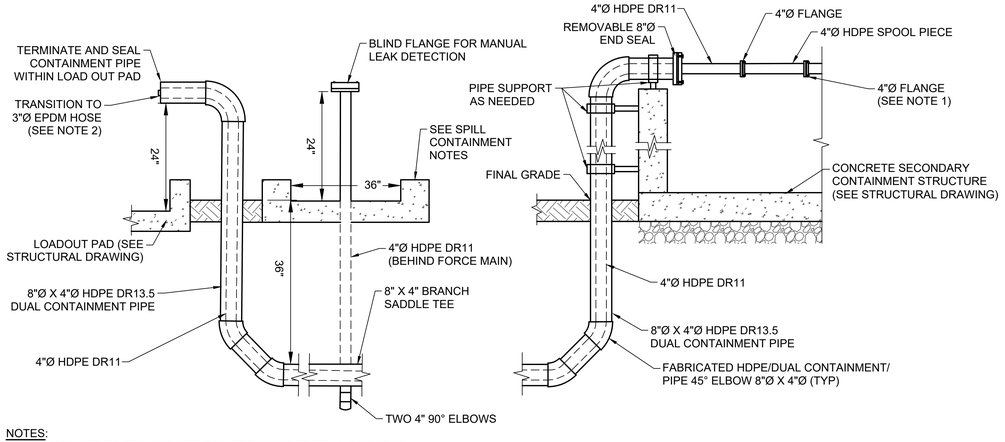
NOTES:
1. ARV ONLY NEEDED AT LOCAL HIGH POINTS IN PIPE.
2. FLANGE USED TO REMOVE PIPE FOR CLEANOUT OF FORCE MAIN.

2 / 67 DETAIL - AIR/VACUUM RELEASE VALVE
NOT TO SCALE



NOTE:
IN THE LEAK DETECTION ROAD BOXES, WHERE THE TOP OF THE TRANSITION PIECE IS CLOSE TO THE UNDERSIDE OF THE ROAD BOX COVER, INSTALL A THREADED FLAT STEEL CAP DIRECTLY ON THE THREADED TRANSITION PIECE. INSTALL A THREADED STEEL PLUG IN THE REMAINING LEAK DETECTION RISERS.

3 / 67 DETAIL - LEAK DETECTION STATION
NOT TO SCALE



NOTES:
1. FLANGE USED TO REMOVE PIPE FOR PRESSURE TESTING OF FORCE MAIN.
2. INSTALL TRANSITION FITTINGS AND ADAPTERS AS NEEDED. INSTALL 15 FT OF 3"Ø EPDM HOSE WITH BALL VALVE AND OPW DRY DISCONNECT FITTING AT DISCHARGE END.

SPILL CONTAINMENT NOTES:
1. REFER TO CONCRETE NOTES ON DRAWING (TBD).
2. FIBER REINFORCED CONCRETE SLAB-ON-GRADE SHALL BE 6" THICK.
3. PERIMETER CURB SHALL BE 6" HIGH, 8" THICK WITH CONTINUOUS #3BAR LONGITUDINALLY SUPPORTED BY #3 DOWELS@ 12"-18" O.C. AND 2"-3" OF CLEAR COVER. CURB AND SLAB SHALL BE MONOLITHIC.
4. PADS SHALL BE 3" WIDE MEASURED INSIDE CURBING WITH LENGTH AS NEEDED FOR MIN. 1.5' CLEARANCE FROM STICKUPS TO CURB FACE. NO CONTROL JOINTS ARE NEEDED.
5. SLABS SHALL HAVE ELEVATION AND SLOPE AS NEEDED TO DRAIN TO A LOW POINT. AT LOW POINT, INSTALL 1" PVC PIPE THROUGH CURB WITH LOCKABLE 2" S.S. BALL VALVE. ELEVATION OF PIPE OUTLET SHALL PROVIDE DRAINAGE TO CONTAINMENT SUMP.

4 / 67 DETAIL - TRUCK LOAD OUT FORCE MAIN
NOT TO SCALE

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE044444 MATTHEW C. VAUGHAN
2/11/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

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

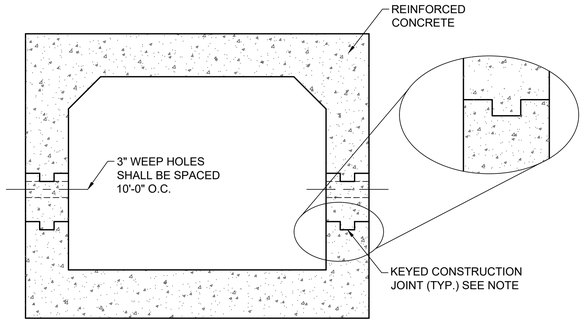
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

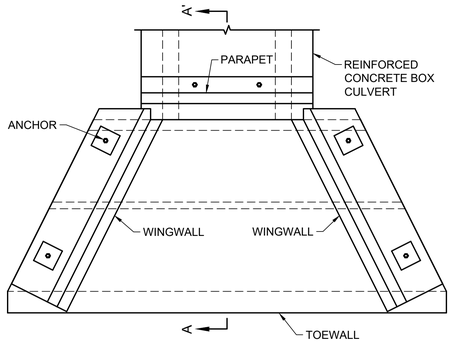
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AS SHOWN	175518236	-	67	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

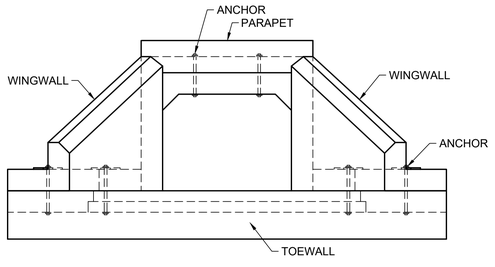
PLOT DATE: 2/6/2025 USER: MCHANEY @AMEY
\\US0625-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\HPRL_PERMIT\REVISHEET_FILES\67_18326_P-F_DTT.DWG



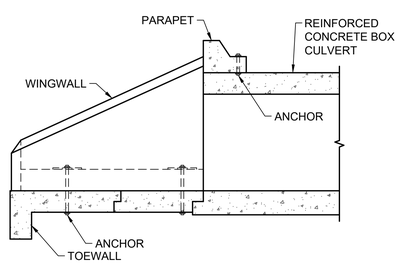
1/68 DETAIL - BOX CULVERT
SCALE: 1"=1'-0"



PLAN

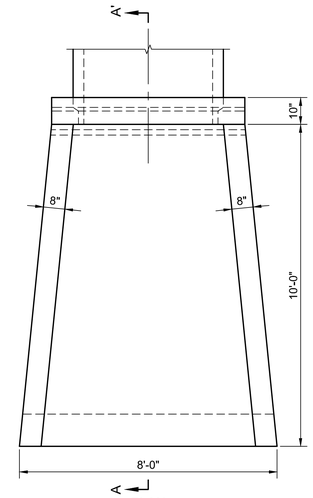


ELEVATION

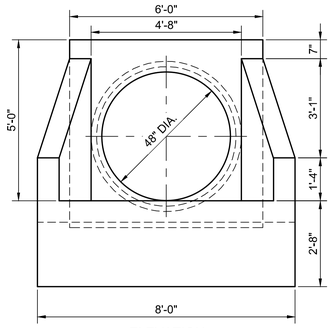


SECTION A-A'

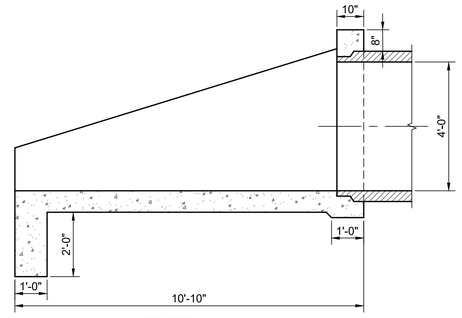
3/68 DETAIL - PRECAST BOX CULVERT END HEADWALL
SCALE: 1/2"=1'-0"



PLAN



ELEVATION



SECTION A-A'

NOTE:
48" PRECAST HEADWALL DIMENSIONS AND REINFORCING PER GDOT STANDARD DETAIL SHEET 1125.

2/68 DETAIL - 48" PRECAST HEADWALL
SCALE: 1/2"=1'-0"

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE014478 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

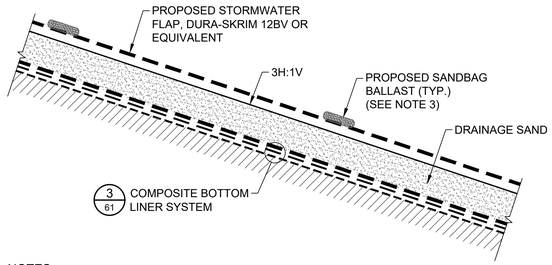
SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	68	FINAL	0

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

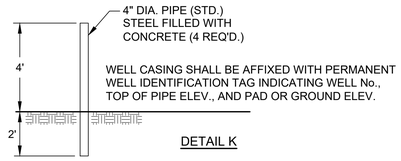
PLOT DATE: 2/6/2025 USER: MCHANEY JAMAY
\\AUS625-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\PRL_PERMIT\REV0\SHEET_FILES\68_18326_P-F_DTB.DWG

ANSI F: 28x40 AUTOCAD 2023

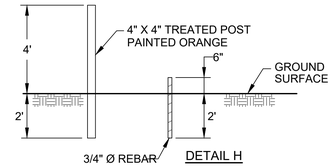


NOTES:
1. STORMWATER FLAPS TO BE INSTALLED ON AREAS NOT ACTIVELY RECEIVING WASTE.
2. STORMWATER FLAP SEAMS TO BE WELDED.
3. THIRTY POUND SANDBAGS SHALL BE PLACED AT TEN FEET INTERVALS LATERALLY ALONG THE STORMWATER FLAP AT THE LOCATIONS SHOWN ON THE DETAIL.
4. A TEMPORARY STORMWATER FLAP SHALL BE USED DURING FILLING OPERATIONS TO REDUCE THE VOLUME OF STORMWATER DISCHARGE INTO THE LEACHATE COLLECTION SYSTEM.

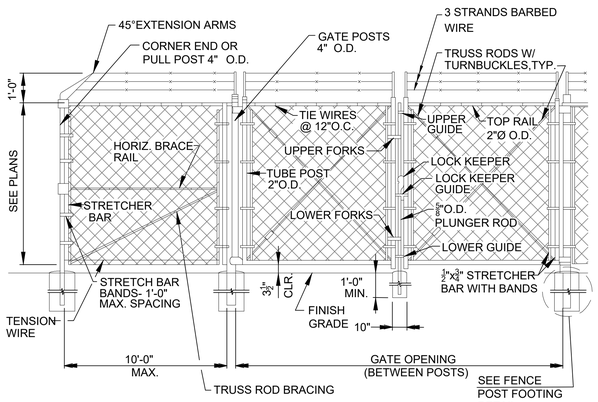
1/69 DETAIL - STORMWATER FLAPS
SCALE: 1/4"=1'-0"



3/69 DETAIL - TYPICAL GROUNDWATER MONITORING WELL MARKER PROTECTION PIPES
NOT TO SCALE

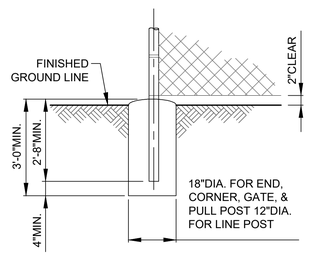


2/69 DETAIL - TYPICAL DISPOSAL SITE BOUNDARY AND BUFFER ZONE PIN AND MARKER
NOT TO SCALE



NOTE:
HORIZ. BRACE RAILS AND TRUSS ROD BRACING SHALL BE INSTALLED AT ALL CORNER,END,AND PULL POSTS. FABRIC SHALL BE FASTENED TO LINE POSTS AT NO MORE THAN 14" INTERVALS. TENSION WIRES SHALL BE TIED TO FABRIC WITH 9 GA. WIRE OR II GA. HOG RINGS AT INTERVALS OF 24" MAX.

4/69 SECURITY FENCE & DOUBLE SWING GATE
NOT TO SCALE



NOTE:
CONCRETE FOOTINGS WILL BE REQUIRED FOR ALL LINE, CORNER, GATE, END AND PULL POSTS.

5/69 FENCE POST FOOTING
NOT TO SCALE

GEORGIA REGISTERED No. PE044[illegible] PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 5/1/15

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

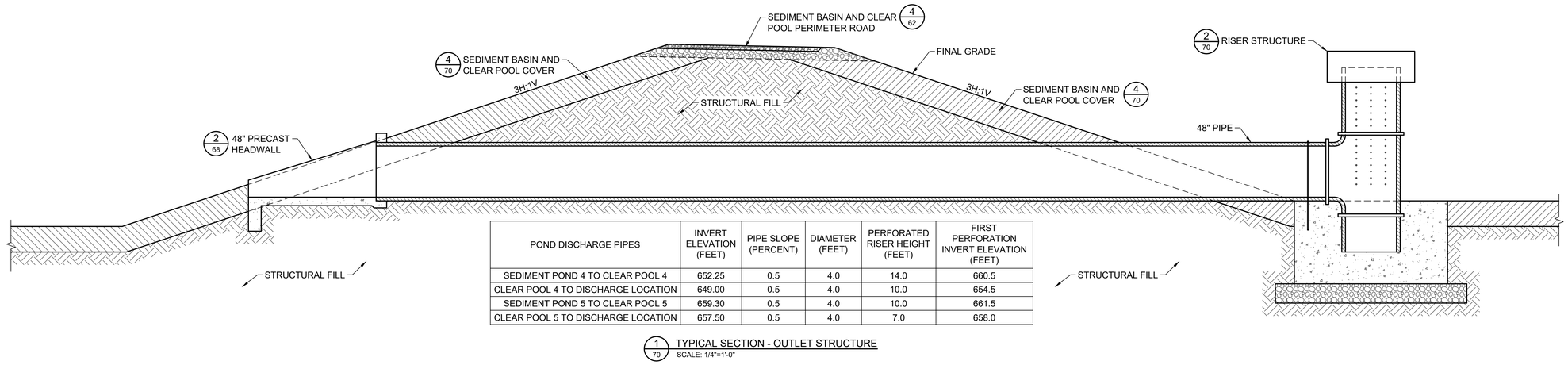
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BMS	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CON'T'D	REV.
AS SHOWN	175518236	-	69	FINAL	0

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

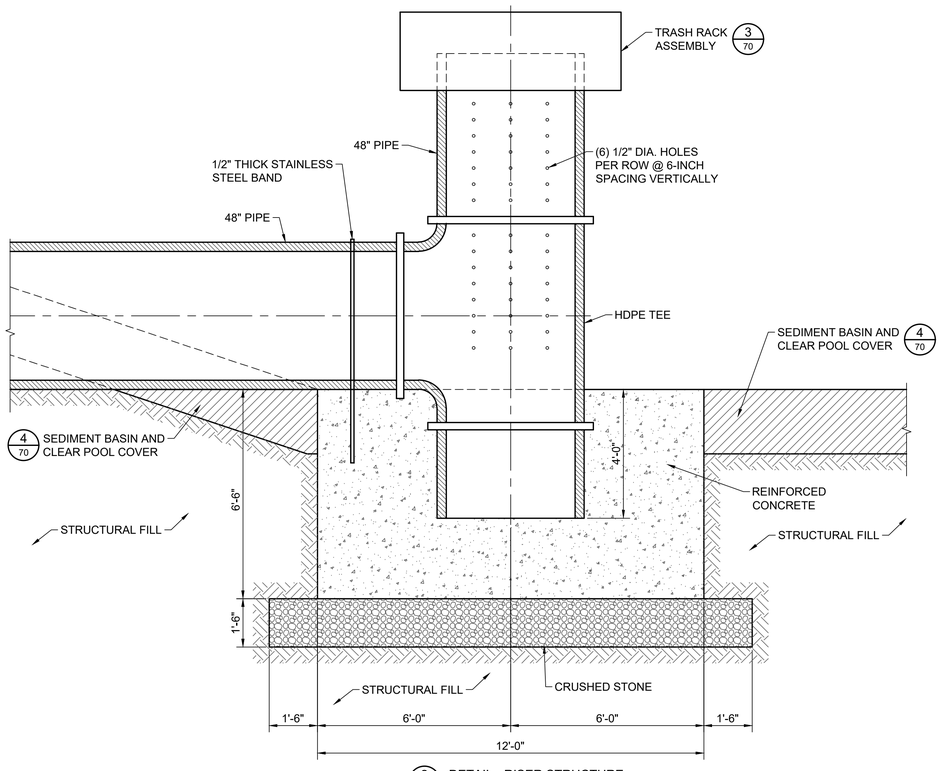
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ANSI F: 28x40 AUTOCAD 2023

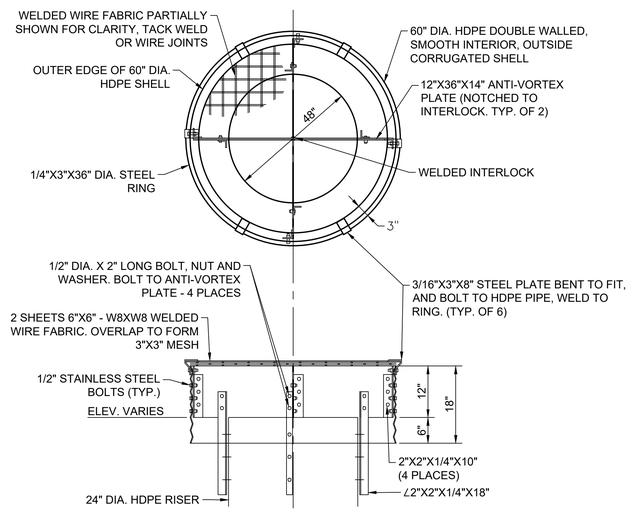


POND DISCHARGE PIPES	INVERT ELEVATION (FEET)	PIPE SLOPE (PERCENT)	DIAMETER (FEET)	PERFORATED RISER HEIGHT (FEET)	FIRST PERFORATION INVERT ELEVATION (FEET)
SEDIMENT POND 4 TO CLEAR POOL 4	652.25	0.5	4.0	14.0	660.5
CLEAR POOL 4 TO DISCHARGE LOCATION	649.00	0.5	4.0	10.0	654.5
SEDIMENT POND 5 TO CLEAR POOL 5	659.30	0.5	4.0	10.0	661.5
CLEAR POOL 5 TO DISCHARGE LOCATION	657.50	0.5	4.0	7.0	658.0

1/70 TYPICAL SECTION - OUTLET STRUCTURE
SCALE: 1/4"=1'-0"

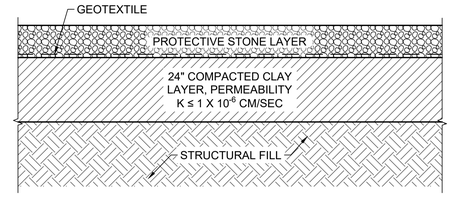


2/70 DETAIL - RISER STRUCTURE
SCALE: 1/2"=1'-0"



NOTE:
ALTERNATIVE TRASH RACK ASSEMBLIES MAY BE SUBMITTED FOR DESIGN ENGINEER APPROVAL.

3/70 DETAIL - TRASH RACK ASSEMBLEY
SCALE: NTS



4/70 DETAIL - SEDIMENT BASIN AND CLEAR POOL COVER
SCALE: 1/2"=1'-0"

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

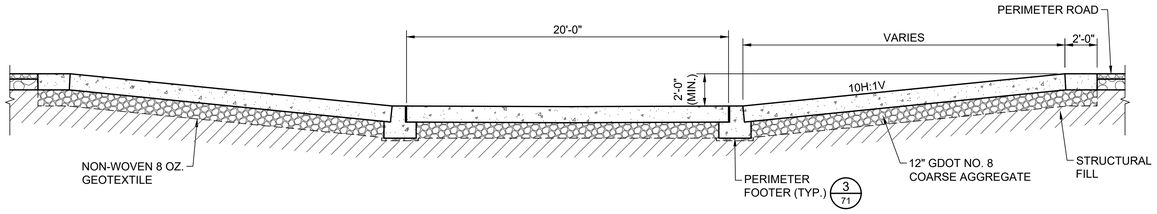
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BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

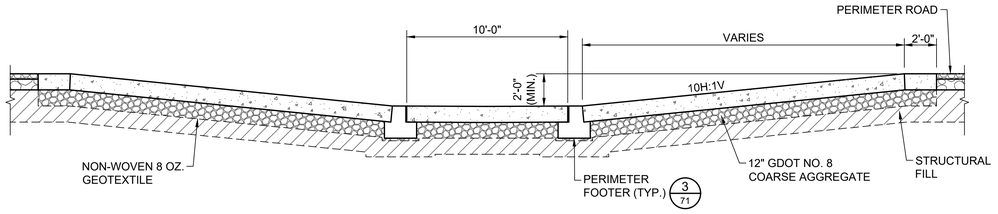
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AS SHOWN	175518236	-	70	FINAL	0

PLOT DATE: 28/2025 | USER: MDONNEY | AMSY
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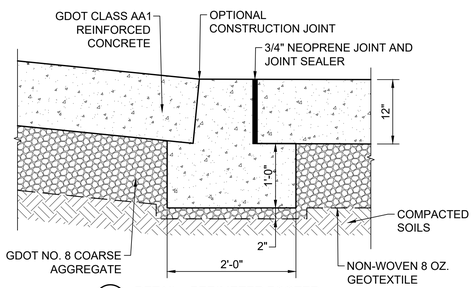
ANSI F: 28x40 AUTOCAD 2023



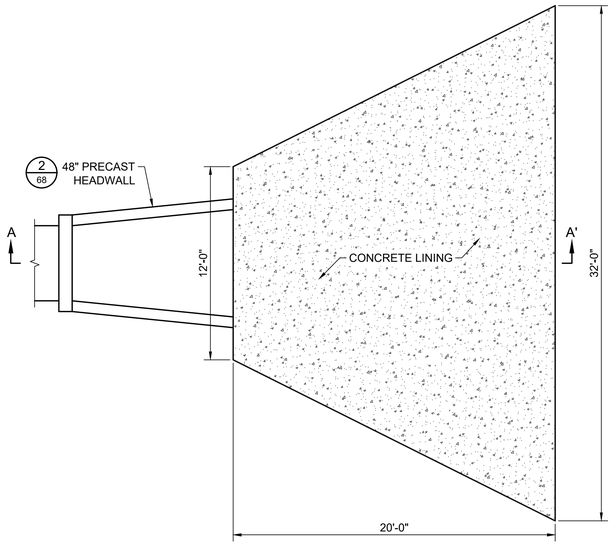
1/71 DETAIL - LOW WATER CROSSING AND EMERGENCY SPILLWAY FOR SEDIMENT BASIN AND CLEAR POOL 4
SCALE: 1/4"=1'-0"



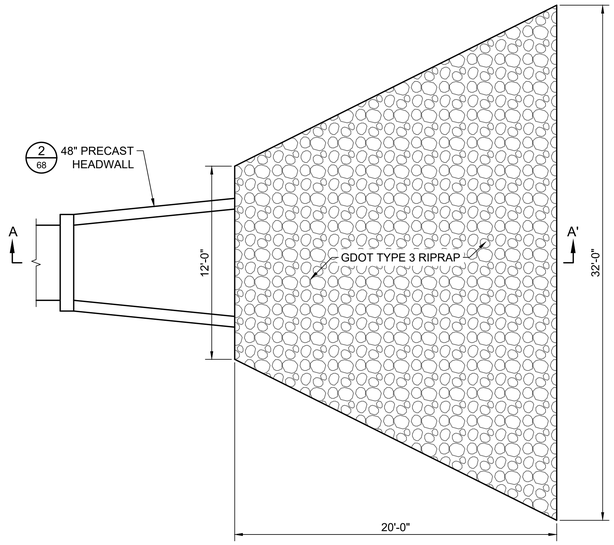
2/71 DETAIL - LOW WATER CROSSING AND EMERGENCY SPILLWAY FOR SEDIMENT BASIN AND CLEAR POOL 5
SCALE: 1/4"=1'-0"



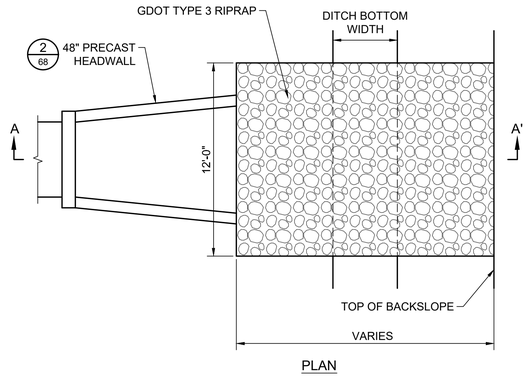
3/71 DETAIL - PERIMETER FOOTER
SCALE: 1"=1'-0"



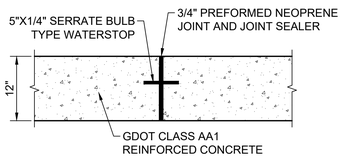
PLAN



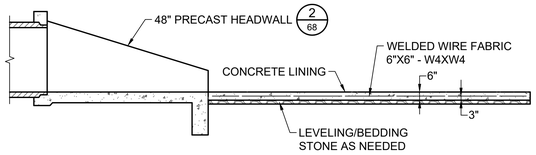
PLAN



PLAN

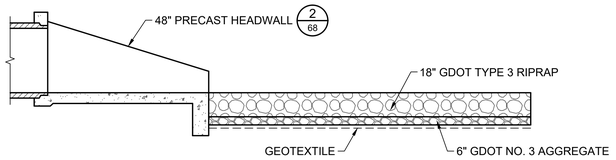


4/71 DETAIL - EXPANSION JOINT
SCALE: 1"=1'-0"



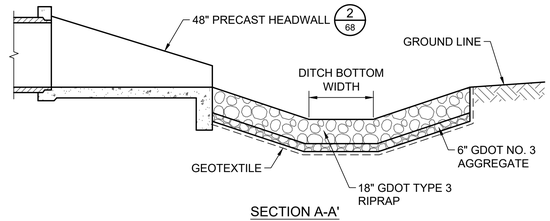
SECTION A-A'

5/71 DETAIL - CONCRETE APRON
SCALE: 1/4"=1'-0"



SECTION A-A'

6/71 DETAIL - RIPRAP APRON
SCALE: 1/4"=1'-0"



SECTION A-A'

7/71 DETAIL - RIPRAP APRON IN DITCH
SCALE: 1/4"=1'-0"

GEORGIA REGISTERED No. PE041[illegible] PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 5/1/25

ISSUED FOR PERMIT

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

REVISION	DATE

REVISION	DATE
0	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION	

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
BMS	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	71	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025, USER: MORNEY, JIMMY
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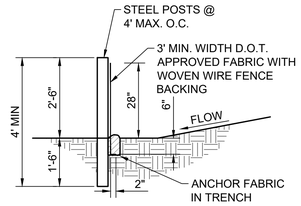
SILT FENCE NOTES

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 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. 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



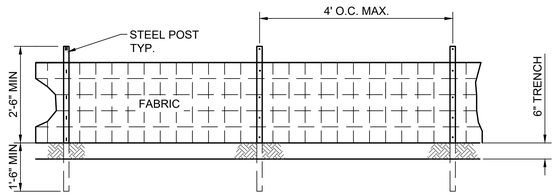
NOTE:
THE SILT FENCE SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE FABRIC.

1/72 DETAIL - TYPICAL SILT FENCE TYPE "C"
NOT TO SCALE

POSTS AND WOVEN WIRE SUPPORT:

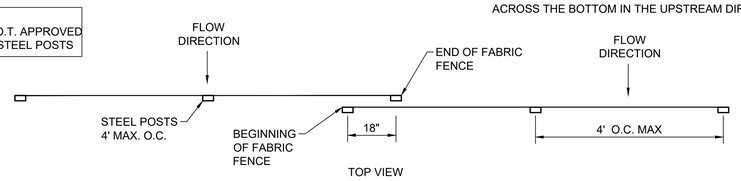
POSTS SHALL BE STEEL AND HAVE A MINIMUM LENGTH OF 4 FEET. POSTS SHALL BE "U", "T", OR "C" SHAPED, OR WOOD FOR TYPE A, AND HAVE A MINIMUM WEIGHT OF 1.3 POUNDS PER FOOT. THE POSTS SHALL HAVE PROJECTIONS FOR FASTENING THE WOVEN WIRE AND FILTER FABRIC. MAXIMUM POSTS SPACING SHALL BE 6 FEET FOR TYPE A OR 4 FEET FOR TYPE C. A WOVEN WIRE SUPPORT FENCE SHALL BE USED WITH TYPE "C" FENCE. THE WIRE FENCE FABRIC SHALL BE AT LEAST 36 INCHES HIGH AND SHALL HAVE AT LEAST 6 HORIZONTAL WIRES. VERTICAL WIRES SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.

FILTER FABRICS FOR TYPE "C" FENCES:
APPROVED SILT FENCE FABRICS ARE LISTED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST #36 (QPL-36).



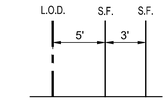
TYPICAL SILT FENCE
FRONT VIEW
NOT TO SCALE

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



TOP VIEW

TYPICAL SILT FENCE
TYPE C - OVERLAP DETAIL
NOT TO SCALE



SILT FENCE SPACING
NOT TO SCALE

INSTALLATION

1. INSTALL WHERE SHEET FLOW CONDITIONS EXIST.
2. WHERE NO SEDIMENT TRAP/STORMWATER DISPOSAL SYSTEM IS PRESENT, MAXIMUM SLOPE SHALL NOT EXCEED THOSE IN THE TABLE. ALSO, THE DRAINAGE AREA IS NOT TO EXCEED 1/4 ACRE PER 100 FEET OF SILT FENCE.
3. APPROVED SILT FENCE FABRICS ARE LISTED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST #36 (QPL-36). VERIFY FABRIC BY INSPECTION OF FABRIC NAME PRINTED EVERY 100 FEET OF SILT FENCE.
4. INSTALL ACCORDING TO APPROVED PLAN, AS SHOWN.
5. INSTALL ALONG CONTOURS WITH ENDS POINTING UPHILL.
6. DO NOT PLACE IN WATERWAYS OR AREAS OF CONCENTRATED FLOW.
7. START POST INSTALLATION AT THE CENTER OF THE LOWEST POINT WITH REMAINING POSTS SPACED ACCORDING TO FIGURE.
8. PROVIDE A RIPRAP SPLASH PAD OR OTHER OUTLET PROTECTION DEVICE FOR ANY POINT WHERE FLOW MAY TOP THE SEDIMENT FENCE. ENSURE THAT THE MAXIMUM HEIGHT OF THE FENCE AT A PROTECTED, REINFORCED OUTLET DOES NOT EXCEED 1 FT. AND THAT SUPPORT POST SPACING DOES NOT EXCEED 4 FT. FOR TYPE C & 6 FOR TYPE A.
9. USE MINIMUM 18" OVERLAP AT FABRIC ENDS.
10. USE A DOUBLE ROW OF TYPE "C" SILT FENCE ALONG STREAM BUFFERS AND OTHER SENSITIVE AREAS.
11. A TRENCH 6 INCHES IN DEPTH SHALL BE EXCAVATED WITH EQUIPMENT SUCH AS A TRENCHING MACHINE OR MOTOR GRADER; OR, IF EQUIPMENT CANNOT BE OPERATED ON THE SITE, BY HAND.
12. POST INSTALLATION SHALL START AT THE CENTER OF THE LOW POINT (IF APPLICABLE) WITH THE REMAINING POSTS SPACED A MAXIMUM OF 4 OR 6 FEET APART. POSTS SHALL BE INSTALLED WITH AT LEAST 18 INCHES IN THE GROUND. WHERE AN 18 INCH DEPTH IS IMPOSSIBLE TO ACHIEVE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT LOADING.
13. FILTER FABRIC SHALL BE ATTACHED TO THE POST BY WIRE, CORD, POCKETS, STAPLES, NAILS, OR OTHER ACCEPTABLE MEANS. THE FILTER FABRIC SHALL BE INSTALLED IN SUCH A MANNER THAT 8 INCHES OF FABRIC IS LEFT AT THE BOTTOM TO BE BURIED AND A MINIMUM OVERLAP OF 18 INCHES IS PROVIDED AT ALL SPLICE JOINTS. THE FABRIC SHALL BE INSTALLED IN THE TRENCH SUCH THAT 4 TO 6 INCHES OF FABRIC IS AGAINST THE SIDE OF THE TRENCH WITH 2 TO 4 INCHES OF FABRIC ACROSS THE BOTTOM IN THE UPSTREAM DIRECTION.

DEFINITION

A TEMPORARY GRADE CONTROL STRUCTURE, OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRATED FLOW.

CONDITIONS

THIS PRACTICE IS APPLICABLE FOR USE IN SMALL OPEN CHANNELS AND IS NOT TO BE USED IN A LIVE STREAM. SPECIFIC APPLICATIONS INCLUDE:

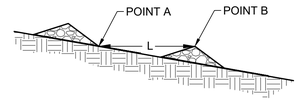
1. TEMPORARY OR PERMANENT SWALES OR DITCHES IN NEED OF PROTECTION DURING ESTABLISHMENT OF GRASS LININGS.
2. TEMPORARY OR PERMANENT SWALES OR DITCHES WHICH, DUE TO THEIR SHORT LENGTH OF SERVICE OR OTHER REASONS, CANNOT RECEIVE A PERMANENT NON-ERODIBLE LINING FOR AN EXTENDED PERIOD OF TIME.
3. OTHER LOCATIONS WHERE SMALL LOCALIZED EROSION AND RESULTING SEDIMENTATION PROBLEMS EXIST.

SPECIFICATIONS:

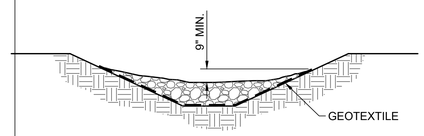
THE FOLLOWING TYPES OF CHECK DAMS ARE USED FOR THIS STANDARD:

STONE CHECK DAM

STONE CHECK DAMS SHOULD BE CONSTRUCTED OF GRADED SIZE 2-10 INCH STONE. MECHANICAL OR HAND PLACEMENT SHALL BE REQUIRED TO ENSURE COMPLETE COVERAGE OF THE ENTIRE WIDTH OF DITCH OR SWALE AND THAT CENTER OF THE DAM IS LOWER THAN THE EDGES. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
A = THE TOE OF THE UPSTREAM CHECK DAM.
B = TOP OF THE DOWNSTREAM CHECK DAM.
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.



SPACING BETWEEN CHECK DAMS
NOT TO SCALE



CROSS SECTION
NOT TO SCALE

SPACING:

TWO OR MORE CHECK DAMS IN A SERIES SHALL BE USED FOR DRAINAGE AREAS GREATER THAN ONE (1) ACRE. MAXIMUM SPACING BETWEEN DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.

GEOTEXTILES:

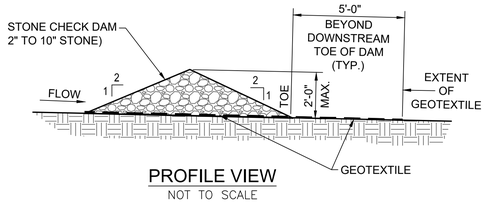
A GEOTEXTILE SHOULD BE USED AS A SEPARATOR BETWEEN THE GRADED STONE AND THE SOIL BASE AND ABUTMENTS. THE GEOTEXTILE WILL PREVENT THE MIGRATION OF SOIL PARTICLES FROM THE SUBGRADE INTO THE GRADED STONE. THE GEOTEXTILE SHALL BE SELECTED/SPECIFIED IN ACCORDANCE WITH AASHTO M288-96 SECTION 7.3, *SEPARATION REQUIREMENTS*, TABLE 3. GEOTEXTILES SHALL BE "SET" INTO THE SUBGRADE SOILS. THE GEOTEXTILE SHALL BE PLACED IMMEDIATELY ADJACENT TO THE SUBGRADE WITHOUT ANY VOIDS AND EXTEND FIVE FEET BEYOND THE DOWNSTREAM TOE OF THE DAM TO PREVENT SCOUR.

MAINTENANCE:

PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE-HALF THE ORIGINAL DAM HEIGHT OR BEFORE. IF THE AREA IS TO BE MOWED, CHECK DAMS SHALL BE REMOVED ONCE FINAL STABILIZATION HAS OCCURRED. OTHERWISE, CHECK DAMS MAY REMAIN IN PLACE PERMANENTLY. AFTER REMOVAL, THE AREA BENEATH THE DAM SHALL BE SEEDED AND MULCHED IMMEDIATELY.

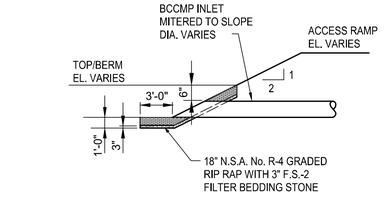
NOTES:

1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

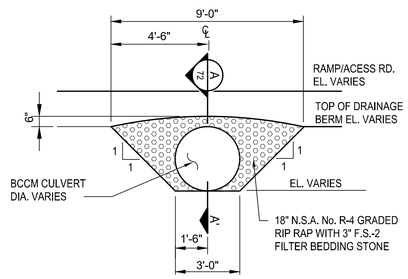


PROFILE VIEW
NOT TO SCALE

2/72 DETAIL - CHECK DAM - STONE CHECK DAM
NOT TO SCALE

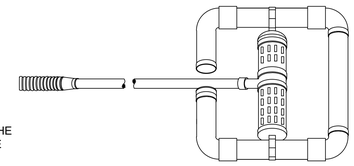


A/72 SECTION
NOT TO SCALE

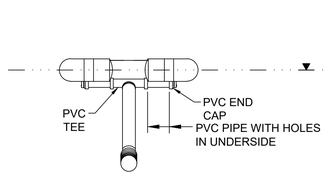


3/72 DETAIL - TYP. CULVERT INLET PROTECTION
NOT TO SCALE

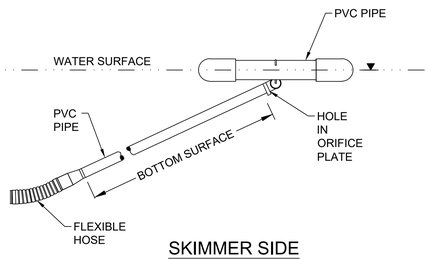
NOTE:
SKIMMER CONFIGURATION SHOWN IS TYPICAL. THE DESIGNER/ENGINEER MAY SUBMIT AN ALTERNATE SKIMMER DETAIL FOR REVIEW.



SKIMMER
PERSPECTIVE



SKIMMER FRONTAL
SECTION VIEW

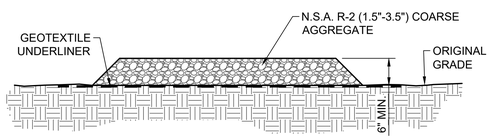


SKIMMER SIDE
SECTION VIEW

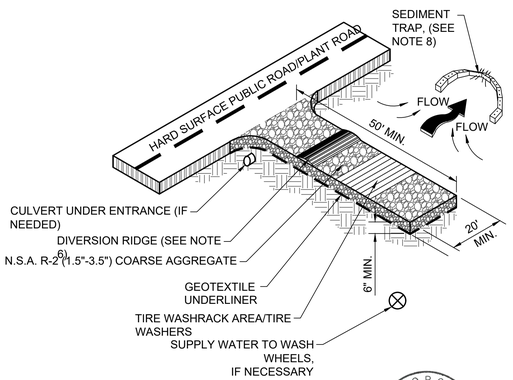
4/72 DETAIL - FLOATING SURFACE SKIMMER
NOT TO SCALE

NOTES:

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



ENTRANCE ELEVATION



EXIT DIAGRAM

5/72 DETAIL - CRUSHED STONE CONSTRUCTION EXIT
NOT TO SCALE

REFERENCES:

1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/15

ISSUED FOR PERMIT

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FOR
GEORGIA POWER COMPANY

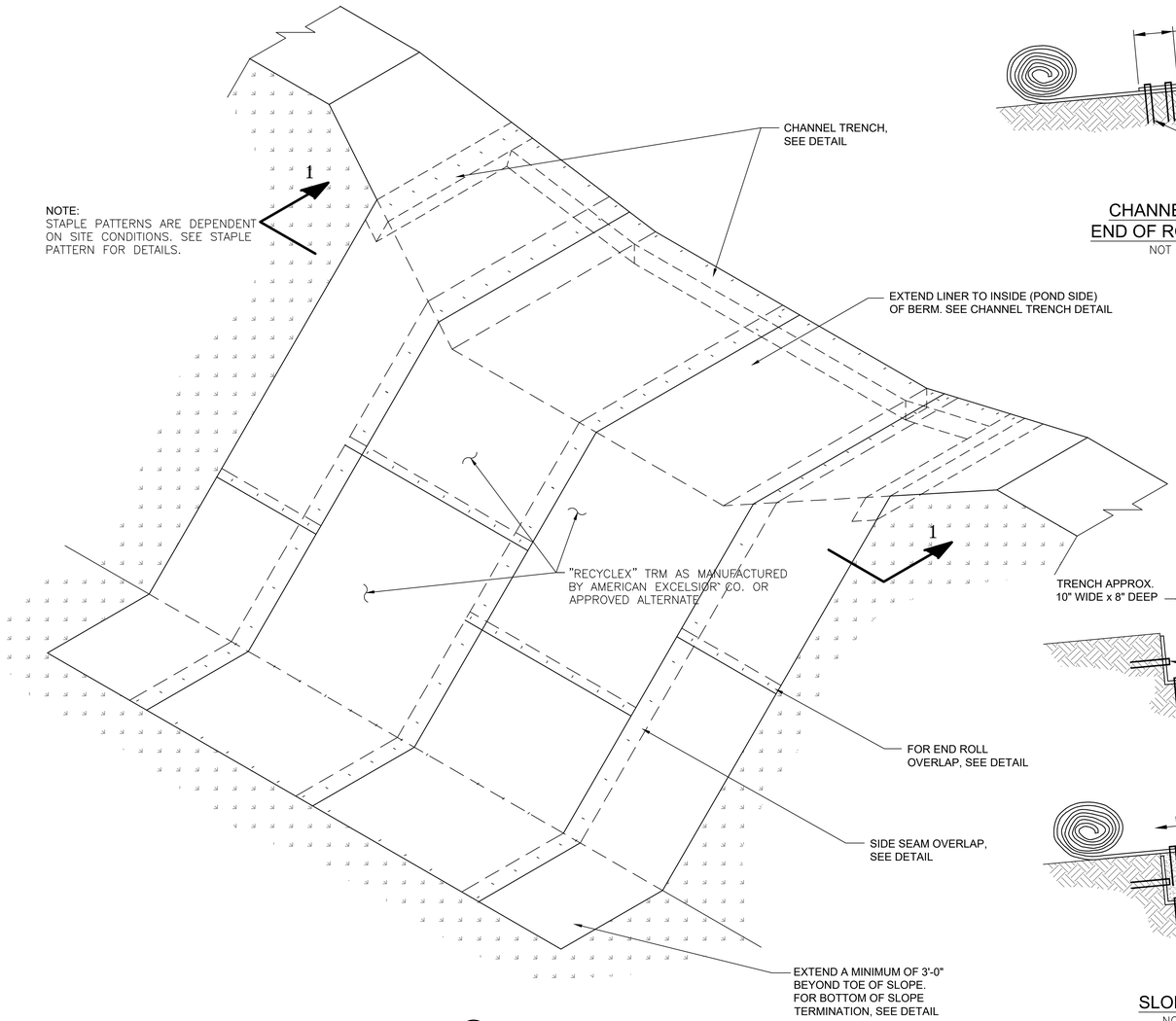
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

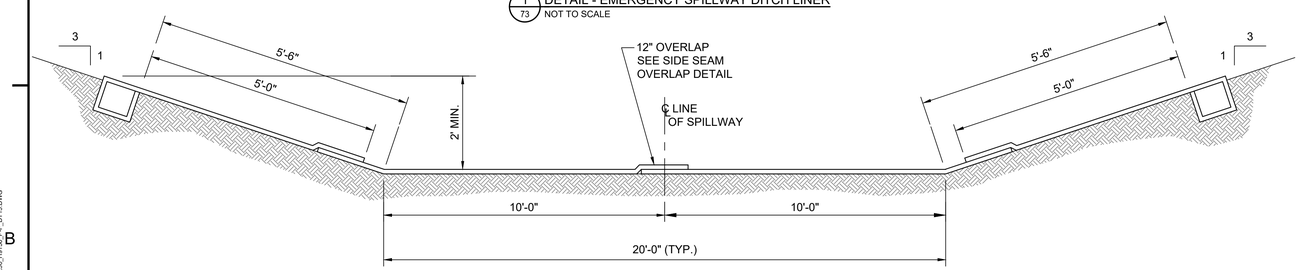
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							JJM	KDL	–					AS SHOWN	175518236	-	72	FINAL	0

PLOT DATE: 2/6/2025, USER: MCHUNEY, XMPF:
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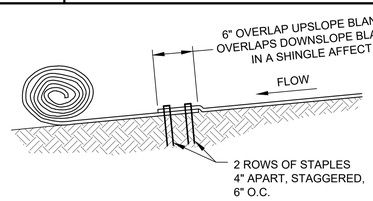
ANSI F: 28x40 AUTOCAD 2023



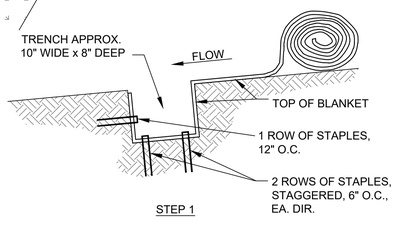
1 / 73 DETAIL - EMERGENCY SPILLWAY DITCH LINER
NOT TO SCALE



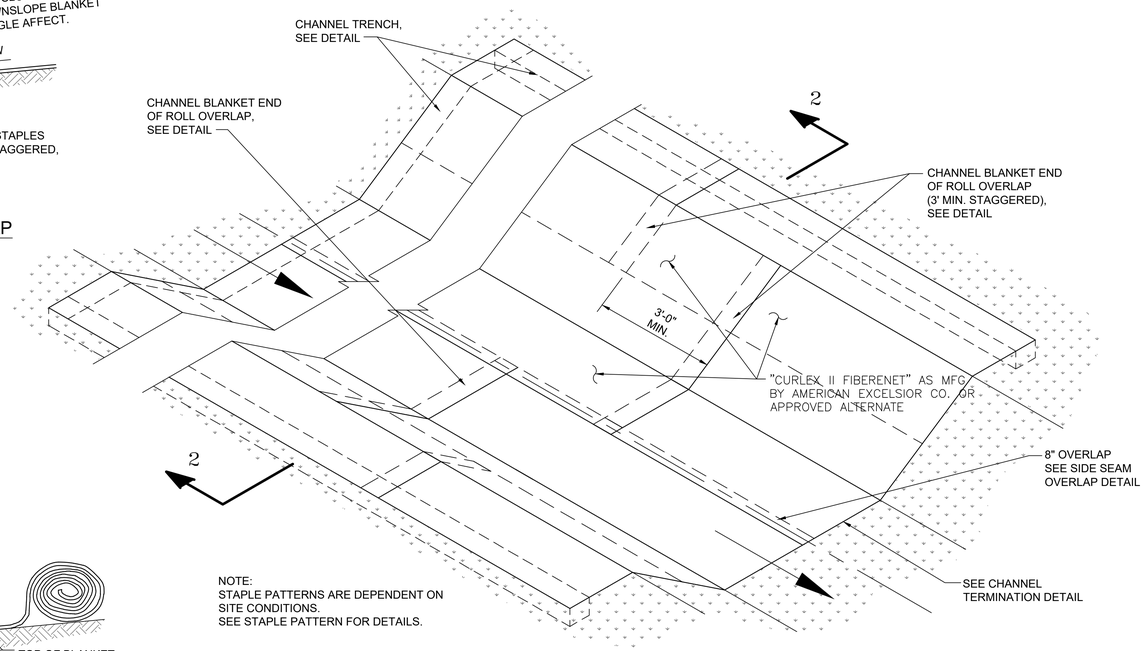
SECTION 1-1
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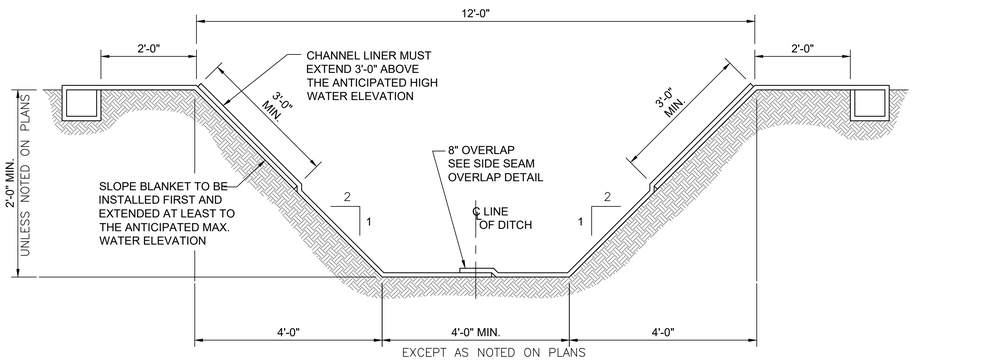
CHANNEL BLANKET END OF ROLL OVERLAP
NOT TO SCALE



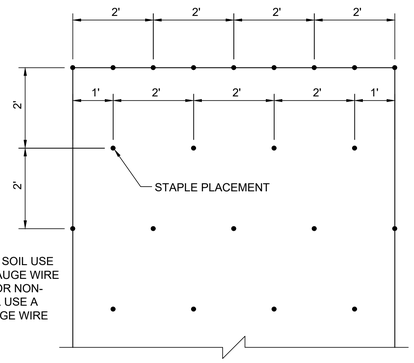
SLOPE TRENCH
NOT TO SCALE



2 / 73 DETAIL - PERIMETER DITCH LINER
NOT TO SCALE

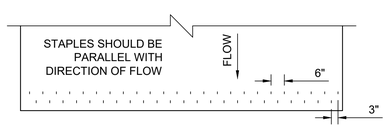


SECTION 2-2
NOT TO SCALE

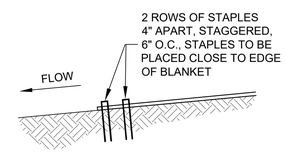


NOTE:
FOR COHESIVE SOIL USE A 6"x1"x6" 11 GAUGE WIRE STAPLE AND FOR NON-COHESIVE SOIL USE A 8"x2"x8" 11 GAUGE WIRE STAPLE.

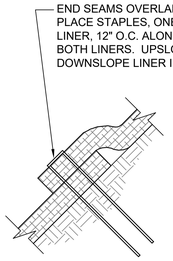
STAPLE PATTERN
NOT TO SCALE



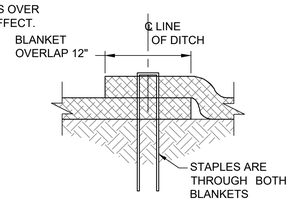
CHANNEL TERMINATION PLAN
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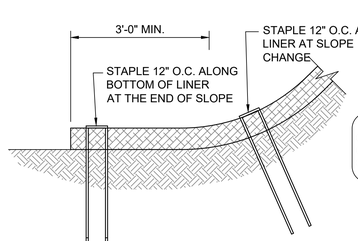
CHANNEL TERMINATION
NOT TO SCALE



END OF ROLL OVERLAP
NOT TO SCALE



SIDE SEAM OVERLAP STAPLE DETAIL
NOT TO SCALE



BOTTOM OF SLOPE TERMINATION
NOT TO SCALE

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

REV. 3 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687

REFERENCES:
1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

GEORGIA REGISTERED No. PE043611 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/9/15

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PARCEL F
DETAILS

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR.	ELECT APPR.	I/C APPR.	MECH APPR.	MGR APPR.
JJM	KDL	–				

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CON'TD	REV.
AS SHOWN	175518236	-	73	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/4/2025 USER: MDOWNEY JIMMY
\\US0022-PPFSS01\SHARED_PROJECT\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISHEET_FILES\73_18236_HR16_P-F_DT13.DWG

GRADING, SITE DEVELOPMENT & GENERAL NOTES

PARCELS "A" AND "B" SITE DEVELOPMENT AND INITIAL FILL OPERATION

THE DRAINAGE FOR PARCELS "A" AND "B" IS DESIGNED TO SEPARATELY COLLECT LEACHATE FROM THE LANDFILL, AND IT'S WORKING FACE, AND SURFACE STORMWATER RUN-OFF FROM WITHIN THE LANDFILL. SINCE THE SITE WORK FOR PARCELS "A" AND "B" WILL BE DONE CONCURRENTLY, SEDIMENTATION POND #1 AND CLEAR POOL WILL ACCOMMODATE THE SURFACE STORMWATER RUN-OFF FROM BOTH PARCELS. THE POND CONSISTS OF A MAIN SEDIMENT POND AND A CLEAR POOL, DESIGNED TO PASS THE 24-HOUR, 100-YEAR STORM EVENT WITH NO BASIN OVERFLOW. ADDITIONALLY, WATER FROM BOTH PARCELS WHICH MIGRATES THROUGH THE WASTE AND ENTERS THE LEACHATE COLLECTION AND REMOVAL SYSTEM, WILL BE ROUTED TO A SEPARATE LEACHATE POND. THIS POND IS DESIGNED TO CONTAIN THE 24-HOUR, 100-YEAR STORM EVENT ON THE POND PLUS 10 DAYS OF LEACHATE STORAGE AND AN ADDITIONAL 2-FEET OF FREEBOARD. THE LEACHATE IS PUMPED FROM THE COLLECTION SUMP TO THE LEACHATE POND. AS NECESSARY, THE LEACHATE IS THEN PUMPED FROM THE POND TO A WATER TRUCK TO BE RECIRCULATED AS ASH CONDITIONING WATER AND DUST CONTROL ONLY IN THE ACTIVE WORKING FACE OR RETURNED TO THE PLANT TO THE CO-TREATMENT POND.

THE COAL COMBUSTION RESIDUALS DISPOSAL FACILITY SHALL BE GRADED TO DRAIN AS SHOWN.

1. EARTH FILL FOR THE SEDIMENTATION DIKE AND LEACHATE POND DIKE SHALL BE PLACED ON ORIGINAL GROUND.

2. THE SEDIMENT BASIN AND CLEAR POOL WILL CONSIST OF A MINIMUM OF TWO FEET COMPACTED CLAYEY SOIL LINER WITH A MAXIMUM HYDRAULIC CONDUCTIVITY OF 1 X 10^{-6} CM/SEC, OVERLAIN WITH A MARKER BED COMPOSED OF 4 INCHES OF CRUSHER RUN GRAVEL TO FACILITATE CLEANOUT.

PARCEL A AND B, INCLUDING THE INTERIOR SLOPES OF PERIMETER BERM, WILL BE LINED WITH A COMPOSITE LINER CONSISTING OF A MINIMUM TWO FEET COMPACTED CLAYEY SOIL LINER WITH A MAXIMUM HYDRAULIC CONDUCTIVITY OF 1 X 10^{-7} CM/SEC, AND A 60 MIL HDPE GEOMEMBRANE. A LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) WILL OVERLIE THE COMPOSITE LINER. THIS WILL BE COMPRISED OF A DOUBLE SIDED GEOCOMPOSITE DRAINAGE LAYER UNDERLYING A MINIMUM TWO FEET SAND PRIMARY FILTER AND DRAINAGE LAYER WITH A MINIMUM HYDRAULIC CONDUCTIVITY OF 1 X 10^{-2} CM/SEC. ON INTERIOR SLOPES OF THE PERIMETER DIKE, THE HDPE WILL BE COVERED WITH 12 INCHES OF COARSE SAND WITH A MINIMUM HYDRAULIC CONDUCTIVITY OF 1 X 10^{-2} CM/SEC OVERLAIN WITH 12 INCHES OF STONE
(SEE SHEET 7).

THE LEACHATE POND IS PROVIDED WITH A LNER SYSTEM CONSISTING OF A LOWER COMPONENT OF A MINIMUM TWO FEET OF COMPACTED CLAY/SILT LINER WITH A MAXIMUM HYDRAULIC CONDUCTIVITY OF 1 X 10^{-7} CM/SEC, AND AN UPPER COMPONENT CONSISTING OF A DOUBLE LINER OF 60 MIL HDPE GEOMEMBRANE. THE DOUBLE HDPE LINER WILL BE SEPARATED BY A DOUBLE-SIDED DRAINAGE GEOCOMPOSITE AS A LEAK DETECTION LAYER (SEE SHEET 9).

3. DURING THE INITIAL FILL OPERATIONS (FOR THE INITIAL LIFT), THE LEACHATE GENERATED FROM THE ACTIVE WORKING FACE AND WORKING AREA WILL BE SEPARATED FROM STORM WATER RUN-OFF IN THE REMAINING AREA OF THE CELL BY A TEMPORARY CONTAINMENT BERM CONSTRUCTED NO FARTHER THAN 100 FT. DOWN-GRADIENT FROM THE TOE OF THE WORKING FACE. THIS TEMPORARY BERM WILL CONTAIN THE LEACHATE, INCLUDING CONTACT WATER, AND SEDIMENT TO WITHIN THE ACTIVE WORKING AREA OF THE CELL WHERE IT WILL ENTER THE LCRS. THE 24 INCHES OF DRAINAGE SAND FOR THE LCRS, DOWN GRADIENT OF THE TEMPORARY CONTAINMENT BERM, WILL BE COVERED WITH A SACRIFICIAL 30 MIL HDPE GEOMEMBRANE TO PREVENT STORM WATER FROM ENTERING THE LCRS. A MIN. OF 6 INCHES OF SOIL WILL OVERLIE THE HDPE TO PREVENT WIND UPLIFT AND DAMAGE. THE STORM WATER RUN-OFF WILL BE ROUTED TO THE SEDIMENTATION POND. AS THE WORKING FACE ADVANCES, THE TEMPORARY BERM WILL BE REMOVED AND CONSTRUCTED FARTHER DOWN GRADIENT TO DEFINE THE NEW WORKING AREA. THE SACRIFICAL HDPE WILL BE REMOVED FROM WITHIN THE NEW WORKING AREA OF THE CELL TO ALLOW LEACHATE TO ENTER THE LCRS.

4. A 200FT. UNDISTURBED BUFFER TO PROPERTY LINES (50 FEET AT RAILROAD RIGHT-OF-WAY AND AT WETLAND BOUNDARIES) WILL BE MAINTAINED. NO COAL COMBUSTION RESIDUALS SHALL BE PLACED WITHIN THIS ZONE. UPON COMPLETION OF THE LANDSCAPE PLAN, THE BUFFERS SHALL REMAIN UNDISTURBED EXCEPT FOR DIRECT ACCESS CROSSINGS AND MONITORING WELLS WHERE INDICATED.

5. REFERENCE THE GENERAL NOTES ON THIS DRAWING AND THE CONSTRUCTION QUALITY ASSURANCE PLAN (CQAP) IN CCR PERMIT APPLICATION PART A FOR COMPACTED EARTH FILL SPECIFICATIONS.

6. COAL C0MBUSTION RESIDUALS SHALL BE PLACED IN EACH PHASE TO FORM A STACKING CELL. INITIAL FILL OPERATIONS WILL CONSIST OF THE EXPEDITIOUS PLACEMENT, GRADING, AND COMPACTION OF CONDITIONED COAL COMBUSTION RESIDUALS TO THE GRADES AND ELEVATIONS SHOWN.

7. CONDITIONING OF COAL COMBUSTION RESIDUALS WILL CONSIST OF ADJUSTING THE MOISTURE CONTENT TO WITHIN ±2% OF ITS OPTIMUM MOISTURE CONTENT PRIOR TO COMPACTION. IT SHALL BE PLACED IN NOMINAL 12 INCH LOOSE LIFTS AND COMPACTED WITH A MINIMUM 4 PASSES OF A CAT D5H-5S DOZER TO ACHIEVE A MINIMUM 90% MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR, ASTM D698. DURING INITIAL FILLING, A MINIMUM OF 3 FIELD DENSITY TESTS SHALL BE PERFORMED ON THE INITIAL COMPACTED COAL COMBUSTION RESIDUALS LIFT TO VERIFY THE MINIMUM NUMBER OF EQUIPMENT PASSES REQUIRED TO ACHIEVE COMPACTION.

8. THE SURFACE OF THE INITIAL COAL COMBUSTION RESIDUALS FILL SHALL BE GRADED AS SHOWN TO FACILITATE DRAINAGE.

9. THE FILLING OPERATION WILL CONTINUE TO THE INDICATED GRADES AND ELEVATIONS. INCLUDING DRAINAGE DITCHES, EARTH FILL, DIVERSION BERMS AND TEMPORARY COVER. ALL DISTURBED AREAS WILL THEN BE GRASSED IN ACCORDANCE WITH THE VEGETATION SCHEDULE

10. THE FILL OPERATION WILL CONTINUE WITH COAL COMBUSTION RESIDUALS BEING STACKED TO FINAL GRADES AS SHOWN.

11. A MINIMUM OF 2' OF SOIL MEETING THE REQUIREMENTS FOR FINAL COVER SHALL BE PROVIDED AND MAINTAINED BETWEEN THE BOTTOM OF DITCHES AND ANY COAL COMBUSTION RESIDUALS FILL.

PARCELS "A" AND "B" - FINAL GRADING PLAN

1. THE STACKING SEQUENCE AND FILL DIRECTION FOR PHASE 1 ARE INDICATED ON THE PLAN. THE PLACEMENT OF COAL COMBUSTION RESIDUALS FOR PARCEL "A" PHASE 1 SHALL PROCEED FROM THE NORTHWESTERN CORNER OF PARCEL "A" TO THE SOUTHEASTERN CORNER OF PARCEL "B".

2. FILL SHALL BE PLACED ALONG A MAXIMUM 100 FT. WIDE WORKING BENCH RUNNING TRANSVERSE TO THE FILL DIRECTION OF THE CELL. THE WORKING FACE AND ACTIVE AREA WILL BE FURTHER DEFINED BY A CONTAINMENT BERM LOCATED DOWN GRADIENT FROM THE WORKING FACE. THIS CONTAINMENT BERM WILL SEPARATE THE ACTIVE AREA FROM THE AREA OF THE TEMPORARY COVER AND SACRIFICIAL HDPE PLACED OVER THE LCRS (DRAINAGE SAND).

3. WATER FROM THE WORKING FACE AND ACTIVE AREA AS WELL AS THE WATER THAT MIGRATES THROUGH THE WASTE, ENTERS THE UNDERLYING LCRS WHERE IT WILL BE ROUTED TO THE LEACHATE POND.

4. STORM WATER RUN-OFF FROM THE COVERED PORTION OF THE LCRS WILL BE ROUTED TO THE SEDIMENTATION BASIN THROUGH THE SPILLWAY AT THE SOUTH EASTERN COVER OF PARCEL B.

5. FINAL SLOPES SHALL BE BETWEEN A MINIMUM 3% AND A MAXIMUM 3H:1V.

6. REFERENCE SHEET 7 FOR THE FINAL COVER DETAILS.

7. THE FINAL COVER CONSISTING OF A GEOMEMBRANE (HDPE), A GEOCOMPOSITE, 18 INCHES OF COVER SOIL AND A MIN. 6 INCHES OF TOPSOIL SHALL BE PLACED IN ACCORDANCE WITH THE CLOSURE PLAN AND THE CONSTRUCTION QUALITY ASSURANCE PLAN (CQAP) IN THE CCR PERMIT APPLICATION PART A.

8. THE FINAL COVER SHALL BE GRASSED IN ACCORDANCE WITH THE VEGETATION SCHEDULE.

PARCELS "C" AND "D" SITE DEVELOPMENT AND INITIAL FILL OPERATION

THE DRAINAGE FOR PARCELS "C" AND "D" IS DESIGNED TO SEPARATELY COLLECT LEACHATE FROM THE LANDFILL, AND IT'S WORKING FACE, AND SURFACE STORMWATER RUN-OFF FROM WITHIN THE LANDFILL. SINCE THE SITE WORK FOR PARCELS "C" AND "D" WILL BE DONE CONCURRENTLY, SEDIMENTATION BASIN 2 AND CLEAR POOL 2 WILL ACCOMMODATE THE SURFACE STORMWATER RUN-OFF FROM BOTH PARCELS. THE SEDIMENTATION BASIN AND CLEAR POOL ARE DESIGNED TO PASS THE 24-HOUR, 100-YEAR STORM EVENT WITH NO BASIN OVERFLOW. ADDITIONALLY, WATER FROM BOTH PARCELS WHICH MIGRATES THROUGH THE WASTE AND ENTERS THE LEACHATE COLLECTION AND REMOVAL SYSTEM WILL BE ROUTED TO A SEPARATE LEACHATE TANK SYSTEM. THIS TANK SYSTEM IS DESIGNED TO CONTAIN THE 24 HOUR, 100-YEAR STORM EVENT PLUS 10 DAYS OF LEACHATE STORAGE. AS NECESSARY, THE LEACHATE IS THEN PUMPED FROM THE TANK SYSTEM TO A WATER TRUCK TO BE RECIRCULATED AS ASH CONDITIONING WATER AND DUST CONTROL ONLY IN THE ACTIVE WORKING FACE OR RETURNED TO THE PLANT TO THE CO-TREATMENT POND.

THE COAL COMBUSTION RESIDUALS DISPOSAL FACILITY SHALL BE GRADED TO DRAIN AS SHOWN.

1. EARTH FILL FOR THE SEDIMENTATION DIKE SHALL BE PLACED ON ORIGINAL GROUND.

2. THE SEDIMENT BASIN AND CLEAR POOL WILL CONSIST OF A MINIMUM OF TWO FEET COMPACTED CLAYEY SOIL LINER WITH A MAXIMUM HYDRAULIC CONDUCTIVITY OF 1X10^{-5} CM/SEC, OVERLAIN WITH A MARKER BED COMPOSED OF 4 INCHES OF CRUSHER RUN TO FACILITATE CLEANOUT.

PARCEL "C" AND "D", INCLUDING THE INTERIOR SLOPES OF THE PERIMETER BERM, WILL BE LINED WITH A COMPOSITE LINER CONSISTING OF A MINIMUM TWO FEET COMPACTED CLAYEY SOIL LINER WITH A MAXIMUM HYDRAULIC CONDUCTIVITIY OF 1X10^{-5} CM/SEC, NON-WOVEN GCL BOTTOM LINER, AND 60 MIL HDPE GEOMEMBRANE. THE GCL BOTTOM LINER MAY BE OMITTED IF A PERMEABILITY OF K < 1X10-7 CM/SEC CAN BE ACHIEVED FOR THE COMPACTED CLAY LAYER. A LEACHATE COLLECTION AND REMOVAL SYSTEM (LRCS) WILL OVERLIE THE COMPOSITE LINER. THIS WILL BE COMPRISED OF A DOUBLE SIDED GEOCOMPOSITE DRAINAGE LAYER UNDERLYING A MINIMUM TWO FEET SAND PRIMARY FILTER AND DRAINAGE LAYER WITH A MINIMUM HYDRAULIC CONDUCTIVITY OF 1 X 10^{-2} CM/SEC. ON INTERIOR SLOPES OF THE PERIMETER DIKE, THE HDPE WILL BE COVERED WITH 24 INCHES OF COARSE SAND WITH A MINIMUM HYDRAULIC CONDUCTIVITY OF 1 X 10^{-2} CM/SEC (SEE SHEET 28).

THE LEACHATE WILL BE STORED IN TWO TANKS WITH APPROXIMATELY 291,000 GALLON CAPACITY EACH. EACH TANK WILL BE APPROXIMATELY 42 FEET IN DIAMETER AND 29 FEET TALL. THE SECONDARY CONTAINMENT FOR THE TANKS CONSISTS OF CONCRETE CONSTRUCTION SURROUNDING THE TWO TANKS.

3. DURING THE INITIAL FILL OPERATIONS (FOR THE INITIAL LIFT), THE LEACHATE GENERATED FROM THE ACTIVE WORKING FACE AND WORKING AREA WILL BE SEPARATED FROM STORM WATER RUN-OFF IN THE REMAINING AREA OF THE CELL BY A TEMPORARY CONTAINMENT BERM CONSTRUCTED NO FARTHER THAN 100 FT. DOWN-GRADIENT FROM THE TOE OF THE WORKING FACE. THIS TEMPORARY BERM WILL CONTAIN THE LEACHATE, INCLUDING CONTACT WATER, AND SEDIMENT TO WITHIN THE ACTIVE WORKING AREA OF THE CELL WHERE IT WILL ENTER THE LCRS. THE 24 INCHES OF DRAINAGE SAND FOR THE LCRS, DOWN GRADIENT OF THE TEMPORARY CONTAINMENT BERM, WILL BE COVERED WITH A SACRIFICIAL 30 MIL HDPE GEOMEMBRANE TO PREVENT STORM WATER FROM ENTERING THE LCRS. SAND BAGS WILL OVERLIE THE HDPE TO PREVENT WIND UPLIFT AND DAMAGE. THE STORM WATER RUN-OFF WILL BE ROUTED TO THE SEDIMENTATION POND. AS THE WORKING FACE ADVANCES, THE TEMPORARY BERM WILL BE REMOVED AND CONSTRUCTED FARTHER DOWN GRADIENT TO DEFINE THE NEW WORKING AREA. THE SACRIFICAL HDPE WILL BE REMOVED FROM WITHIN THE NEW WORKING AREA OF THE CELL TO ALLOW LEACHATE TO ENTER THE LCRS.

4. A 200FT. UNDISTURBED BUFFER TO PROPERTY LINES (50 FEET AT RAILROAD RIGHT-OF-WAY AND AT WETLAND BOUNDARIES) WILL BE MAINTAINED. NO COAL COMBUSTION RESIDUALS SHALL BE PLACED WITHIN THIS ZONE. UPON COMPLETION OF THE LANDSCAPE PLAN, THE BUFFERS SHALL REMAIN UNDISTURBED EXCEPT FOR DIRECT ACCESS CROSSINGS AND MONITORING WELLS WHERE INDICATED.

5. REFERENCE THE GENERAL NOTES ON THIS DRAWING AND THE CONSTRUCTION QUALITY ASSURANCE PLAN (CQAP) FOR COMPACTED EARTH FILL SPECIFICATIONS.

6. COAL C0MBUSTION BY-PRODUCTS SHALL BE PLACED IN EACH PHASE TO FORM A STACKING CELL. INITIAL FILL OPERATIONS WILL CONSIST OF THE EXPEDITIOUS PLACEMENT, GRADING, AND COMPACTION OF CONDITIONED COAL COMBUSTION RESIDUALS TO THE GRADES AND ELEVATIONS SHOWN

7. CONDITIONING OF COAL COMBUSTION RESIDUALS WILL CONSIST OF ADJUSTING THE MOISTURE CONTENT TO WITHIN ±2% OF ITS OPTIMUM MOISTURE CONTENT PRIOR TO COMPACTION. IT SHALL BE PLACED IN NOMINAL 12 INCH LOOSE LIFTS AND COMPACTED WITH A MINIMUM 4 PASSES OF A CAT D5H-5S DOZER TO ACHIEVE A MINIMUM 90% MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR, ASTM D698. DURING INITIAL FILLING, A MINIMUM OF 3 FIELD DENSITY TESTS SHALL BE PERFORMED ON THE INITIAL COMPACTED COAL COMBUSTION RESIDUALS LIFT TO VERIFY THE MINIMUM NUMBER OF EQUIPMENT PASSES REQUIRED TO ACHIEVE COMPACTION.

8. THE SURFACE OF THE INITIAL COAL COMBUSTION RESIDUALS FILL SHALL BE GRADED AS SHOWN TO FACILITATE DRAINAGE.

9. THE FILLING OPERATION WILL CONTINUE TO THE INDICATED GRADES AND ELEVATIONS INCLUDING DRAINAGE DITCHES, EARTH FILL, DIVERSION BERMS AND TEMPORARY COVER. ALL DISTURBED AREAS WILL THEN BE GRASSED IN ACCORDANCE WITH THE VEGETATION SCHEDULE

10. THE FILL OPERATION WILL CONTINUE WITH COAL COMBUSTION RESIDUALS BEING STACKED TO FINAL GRADES AS SHOWN.

11. A MINIMUM OF 2' OF SOIL MEETING THE REQUIREMENTS FOR FINAL COVER SHALL BE PROVIDED AND MAINTAINED BETWEEN THE BOTTOM OF DITCHES AND ANY COAL COMBUSTION RESIDUALS FILL.

PARCELS "C" AND "D" - FINAL GRADING PLAN

1. THE STACKING SEQUENCE AND FILL DIRECTION FOR PHASE 1 ARE INDICATED ON THE PLAN. THE PLACEMENT OF COAL COMBUSTION RESIDUALS FOR PARCEL "C" PHASE 1 SHALL PROCEED FROM THE NORTHEASTERN CORNER OF PARCEL "C" TO THE SOUTHWESTERN CORNER OF PARCEL "D".

2. FILL SHALL BE PLACED ALONG A MAXIMUM 100 FEET WIDE WORKING BENCH RUNNING TRANSVERSE TO THE FILL DIRECTION OF THE CELL. THE WORKING FACE AND ACTIVE AREA WILL BE FURTHER DEFINED BY A CONTAINMENT BERM LOCATED DOWN GRADIENT FROM THE WORKING FACE. THIS CONTAINMENT BERM WILL SEPARATE THE ACTIVE AREA FROM THE AREA OF THE TEMPORARY COVER AND SACRIFICIAL HDPE PLACED OVER THE LCRS (DRAINAGE SAND).

3. WATER FROM THE WORKING FACE AND ACTIVE AREA AS WELL AS THE WATER THAT MIGRATES TRHOUGH THE WASTE, ENTERS THE UNDERLYING LCRS WHERE IT WILL BE ROUTED TO THE LEACHATE TANK SYSTEM.

4. STORMWATER RUN-OFF FROM THE COVERED PORTION OF THE LCRS WILL BE ROUTED TO THE SEDIMENTATION BASIN THROUGH THE SPILLWAY AT THE SOUTHWESTERN CORNER OF PARCEL "D"

5. FINAL SLOPES SHALL BE BETWEEN A MINIMUM 3% AND A MAXIMUM 3H:1V.

6. REFERENCE SHEET 28 FOR THE FINAL COVER DETAILS.

7. THE FINAL COVER SHALL BE PLACED IN ACCORDANCE WITH THE CLOSURE PLAN AND THE CONSTRUCTION QUALITY ASSURANCE PLAN (CQAP).

8. THE FINAL COVER SHALL BE GRASSED IN ACCORDANCE WITH THE VEGETATION SCHEDULE IN THE CCR PERMIT APPLICATION PART A.

PARCEL "E" SITE DEVELOPMENT AND INITIAL FILL OPERATION

THE DRAINAGE DESIGN FOR PARCEL "E" FACILITATES THE REMOVAL OF COAL COMBUSTION RESIDUALS, BY SEDIMENTATION, FROM SURFACE RUN-OFF FROM THE ACTIVE AREA OF THE SITE. SEDIMENTATION POND #3 WILL ACCOMMODATE THE DRAINAGE FROM PARCEL E. THE POND CONSISTS OF A MAIN SEDIMENT POND AND A CLEAR POOL, DESIGNED TO PASS THE 24 HOUR, 100 YEAR STORM EVENT WITH NO BASIN OVERFLOW.

THE COAL COMBUSTION RESIDUALS DISPOSAL FACILITY SHALL BE GRADED TO DRAIN AS SHOWN.

1. EARTH FILL FOR THE SEDIMENTATION DIKE SHALL BE PLACED ON ORIGINAL GROUND.

2. THE SEDIMENT BASIN AND POOL WILL CONSIST OF A MINIMUM OF 2 FEET COMPACTED CLAY LINER OVERLAIN WITH A MARKER BED COMPOSED OF 4" OF CRUSHER RUN GRAVEL TO FACILITATE CLEANOUT. THE LINER SHALL HAVE A HYDRAULIC CONDUCTIVITY OF 1 X 10 CM/SEC OR LESS.

3. A 200FT. UNDISTURBED BUFFER TO PROPERTY LINES (50 FEET AT RAILROAD RIGHT-OF-WAY AND AT WETLAND BOUNDARIES) WILL BE MAINTAINED. NO COAL COMBUSTION RESIDUALS SHALL BE PLACED WITHIN THIS ZONE. UPON COMPLETION OF THE LANDSCAPE PLAN, THE BUFFERS SHALL REMAIN UNDISTURBED EXCEPT FOR DIRECT ACCESS CROSSINGS AND MONITORING WELLS WHERE INDICATED.

4. REFERENCE THE GENERAL NOTES ON THIS DRAWING AND THE CONSTRUCTION QUALITY ASSURANCE PLAN (CQAP), FOR COMPACTED EARTH FILL SPECIFICATIONS. THE CQC/QA PLAN WILL BE PREPARED UPON COMPLETION OF A BORROW INVESTIGATION FOR FINAL COVER AND EARTH FILL MATERIAL.

5. COAL C0MBUSTION BY-PRODUCTS SHALL BE PLACED IN EACH PHASE TO FORM A STACKING CELL. INITIAL FILL OPERATIONS WILL CONSIST OF THE EXPEDITIOUS PLACEMENT, GRADING, AND COMPACTION OF CONDITIONED COAL COMBUSTION RESIDUALS TO THE GRADES AND ELEVATIONS SHOWN FOR PARCEL "E", PHASE I.

6. CONDITIONING OF COAL COMBUSTION RESIDUALS WILL CONSIST OF ADJUSTING THE MOISTURE CONTENT TO WITHIN ±2% OF ITS OPTIMUM MOISTURE CONTENT PRIOR TO COMPACTION. IT SHALL BE PLACED IN NOMINAL 12 INCH LOOSE LIFTS AND COMPACTED WITH A MINIMUM 4 PASSES OF A CAT D5H-5S DOZER TO ACHIEVE A MINIMUM 90% MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR, ASTM D698. DURING INITIAL FILLING, A MINIMUM OF 3 FIELD DENSITY TESTS SHALL BE PERFORMED ON THE INITIAL COMPACTED COAL COMBUSTION RESIDUALS LIFT TO VERIFY THE MINIMUM NUMBER OF EQUIPMENT PASSES REQUIRED TO ACHIEVE COMPACTION.

7. THE SURFACE OF THE INITIAL COAL COMBUSTION RESIDUALS FILL SHALL BE GRADED AS SHOWN TO FACILITATE DRAINAGE.

8. THE FILLING OPERATION WILL CONTINUE TO THE INDICATED GRADES AND ELEVATIONS FOR PARCEL "E", PHASE I, INCLUDING DRAINAGE DITCHES, EARTH FILL, DIVERSION BERMS AND TEMPORARY COVER. ALL DISTURBED AREAS WILL THEN BE GRASSED IN ACCORDANCE WITH THE VEGETATION SCHEDULE

9. THE FILL OPERATION WILL CONTINUE FOR PHASES 2 THROUGH 5, WITH COAL COMBUSTION RESIDUALS BEING STACKED TO FINAL GRADES AS SHOWN FOR PARCEL "E".

10. A MINIMUM OF 2' OF SOIL MEETING THE REQUIREMENTS FOR FINAL COVER SHALL BE PROVIDED AND MAINTAINED BETWEEN THE BOTTOM OF DITCHES AND ANY COAL COMBUSTION RESIDUALS FILL.

PARCEL "E" - FINAL GRADING PLAN

1. THE STACKING SEQUENCE AND FILL DIRECTION FOR PHASE 1 ARE INDICATED ON THE PLAN. THE PLACEMENT OF COAL COMBUSTION RESIDUALS FOR PARCEL "E" PHASE 1 SHALL PROCEED FROM THE NORTHERN SIDE OF PARCEL "E" TO THE SOUTHERN SIDE.

2. FILL SHALL BE PLACED ALONG A MAXIMUM 100 FT. WIDE WORKING BENCH RUNNING TRANSVERSE TO THE FILL DIRECTION OF THE CELL.

REFERENCES:

1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
2. FOR A COMPLETE DRAWING LIST SEE SHEET 1.

3. DRAINAGE FROM THE WORKING FACE AND ACTIVE AREA OF THE FIRST CELL IN PARCEL "E" DRAINS TO AN OUTLET CHANNEL WHICH DIRECTS RUN-OFF INTO SEDIMENTATION POND #3.

4. THE BOTTOM OF THE WASTE STACKING AREA IS SMOOTHLY GRADED TO DRAIN FROM THE WORKING FACE TOWARD THE DRAINAGE EXIT CHANNEL. A LINE OF SILT FENCES AND/OR HAY BALES SHALL BE PLACED AT 100 FT. INTERVALS PARALLEL TO THE WORKING FACE AHEAD OF THE COAL COMBUSTION RESIDUALS FILL OPERATION IN EACH PARCEL TO FACILITATE SEDIMENT RETENTION.

5. FINAL SLOPES SHALL BE BETWEEN A MINIMUM 3 % AND A MAXIMUM 3H:1V.

6. REFERENCE SHEET 44 FOR THE FINAL COVER DETAIL.

7. THE FINAL COVER SHALL BE PLACED IN ACCORDANCE WITH THE CLOSURE PLAN AND THE CONSTRUCTION QUALITY ASSURANCE PLAN (CQAP).

8. THE FINAL COVER SHALL BE GRASSED IN ACCORDANCE WITH THE VEGETATION SCHEDULE IN THE CCR PERMIT APPLICATION PART A.

PARCELS "F" - SITE DEVELOPMENT AND INITIAL FILL OPERATION

THE DRAINAGE FOR PARCEL F IS DESIGNED TO SEPARATELY COLLECT LEACHATE FROM THE LANDFILL, AND IT'S WORKING FACE, AND SURFACE STORMWATER RUN-OFF FROM WITHIN THE LANDFILL. THE SITE WORK FOR STAGE 1 WILL BE PERFORMED SEPARATELY FROM THAT FOR FOR STAGE 2. SEDIMENT BASIN 4 AND CLEAR POOL 4 WILL ACCOMODATE THE SURFACE STORMWATER RUN-OFF FROM STAGE 1 AND SEDIMENT BASIN 5 AND CLEAR POOL 5 WILL ACCOMODATE THE SURFACE STORMWATER RUN-OFF FROM STAGE 2. THE SEDIMENT BASINS AND CLEAR POOLS ARE DESIGNED TO PASS THE 24-HOUR, 100-YEAR STORM EVENT WITH NO BASIN OVERFLOW. ADDITIONALLY, WATER FROM BOTH STAGES WHICH MIGRATES THROUGH THE WASTE AND ENTERS THE LEACHATE COLLECTION AND REMOVAL SYSTEM WILL BE ROUTED TO A SEPARATE LEACHATE TANK SYSTEM. THIS TANK SYSTEM IS DESIGNED TO CONTAIN THE 24 HOUR, 100-YEAR STORM EVENT PLUS 7-10 DAYS OF LEACHATE STORAGE. AS NECESSARY, THE LEACHATE IS THEN PUMPED FROM THE TANK SYSTEM TO A WATER TRUCK TO BE RECIRCULATED AS CONDITIONING WATER AND DUST CONTROL ONLY IN THE ACTIVE WORKING FACE OR RETURNED TO THE PLANT TO THE CO-TREATMENT POND.

THE COAL COMBUSTION RESIDUALS DISPOSAL FACILITY SHALL BE GRADED TO DRAIN AS SHOWN.

1. EARTH FILL FOR THE SEDIMENT BASIN DIKE SHALL BE PLACED ON ORIGINAL GROUND.

2. THE SEDIMENT BASINS AND CLEAR POOLS WILL CONSIST OF A MINIMUM OF TWO FEET COMPACTED CLAYEY SOIL WITH A MAXIMUM HYDRAULIC CONDUCTIVITY OF 1X10-5/ CM/SEC, OVERLAIN WITH A MARKER BED COMPOSED OF 4 INCHES OF CRUSHER RUN TO FACILITATE CLEANOUT.

PARCEL F, INCLUDING THE INTERIOR SLOPES OF THE PERIMETER BERM, WILL BE LINED WITH A COMPOSITE LINER CONSISTING OF A MINIMUM TWO FEET COMPACTED CLAYEY SOIL LINER WITH A MAXIMUM HYDRAULIC CONDUCTIVITY OF 1X10-5/ CM/SEC, NON-WOVEN GCL BOTTOM LINER, AND 60 MIL HDPE GEOMEMBRANE. THE GCL BOTTOM LINER MAY BE OMITTED IF A PERMEABILITY OF K < 1X10-7 CM/SEC CAN BE ACHIEVED FOR THE COMPACTED CLAY LAYER. A LEACHATE COLLECTION AND REMOVAL SYSTEM (LRCS) WILL OVERLIE THE COMPOSITE LINER. THIS WILL BE COMPRISED OF A DOUBLE SIDED GEOCOMPOSITE DRAINAGE LAYER UNDERLYING A MINIMUM TWO FEET SAND PRIMARY FILTER AND DRAINAGE LAYER WITH A MINIMUM HYDRAULIC CONDUCTIVITY OF 1 X 10-2 / CM/SEC. ON INTERIOR SLOPES OF THE PERIMETER DIKE, THE HDPE WILL BE COVERED WITH 24 INCHES OF COARSE SAND WITH A MINIMUM HYDRAULIC CONDUCTIVITY OF 1 X 10-2 / CM/SEC.

THE LEACHATE WILL BE STORED IN TWO TANKS WITH APPROXIMATELY 480,000 GALLON CAPACITY EACH. EACH TANK WILL BE APPROXIMATELY 48 FEET IN DIAMETER AND 36 FEET TALL. THE SECONDARY CONTAINMENT FOR THE TANKS CONSISTS OF CONCRETE CONSTRUCTION SURROUNDING THE TWO TANKS.

3. DURING THE INITIAL FILL OPERATIONS (FOR THE INITIAL LIFT), THE LEACHATE GENERATED FROM THE ACTIVE WORKING FACE AND WORKING AREA WILL BE SEPARATED FROM STORM WATER RUN-OFF IN THE REMAINING AREA OF THE CELL BY A TEMPORARY CONTAINMENT BERM CONSTRUCTED NO FARTHER THAN 100 FT. DOWN-GRADIENT FROM THE TOE OF THE WORKING FACE. THIS TEMPORARY BERM WILL CONTAIN THE LEACHATE, INCLUDING CONTACT WATER, AND SEDIMENT TO WITHIN THE ACTIVE WORKING AREA OF THE CELL WHERE IT WILL ENTER THE LCRS. THE 24 INCHES OF DRAINAGE SAND FOR THE LCRS, DOWN GRADIENT OF THE TEMPORARY CONTAINMENT BERM, WILL BE COVERED WITH A SACRIFICIAL 30 MIL HDPE GEOMEMBRANE TO PREVENT STORM WATER FROM ENTERING THE LCRS. SAND BAGS WILL OVERLIE THE HDPE TO PREVENT WIND UPLIFT AND DAMAGE. THE STORM WATER RUN-OFF WILL BE ROUTED TO THE SEDIMENT PONDS. AS THE WORKING FACE ADVANCES, THE TEMPORARY BERM WILL BE REMOVED AND CONSTRUCTED FARTHER DOWN GRADIENT TO DEFINE THE NEW WORKING AREA. THE SACRIFICAL HDPE WILL BE REMOVED FROM WITHIN THE NEW WORKING AREA OF THE CELL TO ALLOW LEACHATE TO ENTER THE LCRS.

4. A 200FT. UNDISTURBED BUFFER TO PROPERTY LINES (50 FEET AT RAILROAD RIGHT-OF-WAY AND AT WETLAND BOUNDARIES) WILL BE MAINTAINED. NO COAL COMBUSTION BY-PRODUCTS SHALL BE PLACED WITHIN THIS ZONE. THE BUFFERS SHALL REMAIN UNDISTURBED EXCEPT FOR DIRECT ACCESS CROSSINGS AND MONITORING WELLS WHERE INDICATED.

5. REFERENCE THE GENERAL NOTES ON THIS DRAWING AND THE CONSTRUCTION QUALITY ASSURANCE PLAN (CQAP) FOR COMPACTED EARTH FILL SPECIFICATIONS.

6. COAL COMBUSTION RESIDUALS SHALL BE PLACED IN EACH PHASE TO FORM A STACKING CELL. INITIAL FILL OPERATIONS WILL CONSIST OF THE EXPEDITIOUS PLACEMENT, GRADING, AND COMPACTION OF CONDITIONED COAL COMBUSTION RESIDUALS TO THE GRADES AND ELEVATIONS SHOWN.

7. CONDITIONING OF COAL COMBUSTION RESIDUALS WILL CONSIST OF ADJUSTING THE MOISTURE CONTENT TO WITHIN ±2% OF ITS OPTIMUM MOISTURE CONTENT PRIOR TO COMPACTION. IT SHALL BE PLACED IN NOMINAL 12 INCH LOOSE LIFTS AND COMPACTED WITH A MINIMUM 4 PASSES OF A CAT D5H-5S DOZER TO ACHIEVE A MINIMUM 90% MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR, ASTM D698. DURING INITIAL FILLING, A MINIMUM OF 3 FIELD DENSITY TESTS SHALL BE PERFORMED ON THE INITIAL COMPACTED COAL COMBUSTION RESIDUALS LIFT TO VERIFY THE MINIMUM NUMBER OF EQUIPMENT PASSES REQUIRED TO ACHIEVE COMPACTION.

8. THE SURFACE OF THE INITIAL COAL COMBUSTION RESIDUALS FILL SHALL BE GRADED AS SHOWN TO FACILITATE DRAINAGE.

9. THE FILLING OPERATION WILL CONTINUE TO THE INDICATED GRADES AND ELEVATIONS INCLUDING DRAINAGE DITCHES, EARTH FILL, DIVERSION BERMS AND TEMPORARY COVER. ALL DISTURBED AREAS WILL THEN BE GRASSED IN ACCORDANCE WITH THE VEGETATION SCHEDULE.

10. THE FILL OPERATION WILL CONTINUE WITH COAL COMBUSTION RESIDUALS BEING

GRADING, SITE DEVELOPMENT & GENERAL NOTES

PARCELS "F" - FINAL GRADING PLAN

1. THE STACKING SEQUENCE AND FILL DIRECTION FOR STAGES 1 AND 2 ARE INDICATED ON THE CROSS SECTIONS.

2. FILL SHALL BE PLACED ALONG A MAXIMUM 100 FEET WIDE WORKING BENCH RUNNING TRANSVERSE TO THE FILL DIRECTION OF THE CELL. THE WORKING FACE AND ACTIVE AREA WILL BE FURTHER DEFINED BY A CONTAINMENT BERM LOCATED DOWN GRADIENT FROM THE WORKING FACE. THIS CONTAINMENT BERM WILL SEPARATE THE ACTIVE AREA FROM THE AREA OF THE TEMPORARY COVER AND SACRIFICIAL HDPE PLACED OVER THE LCRS (DRAINAGE SAND).

3. WATER FROM THE WORKING FACE AND ACTIVE AREA, AS WELL AS THE WATER THAT MIGRATES TRHOUGH THE WASTE, ENTERS THE UNDERLYING LCRS WHERE IT WILL BE ROUTED TO THE LEACHATE TANK SYSTEM.

4. STORMWATER RUN-OFF FROM THE COVERED PORTION OF THE LCRS WILL BE ROUTED TO THE SEDIMENT BASINS.

5. FINAL SLOPES SHALL BE BETWEEN A MINIMUM 3% AND A MAXIMUM 3H:1V.

6. REFERENCE SHEET 61 FOR THE FINAL COVER DETAILS.

7. THE FINAL COVER SHALL BE PLACED IN ACCORDANCE WITH THE CLOSURE PLAN AND THE CONSTRUCTION QUALITY ASSURANCE PLAN (CQAP).

8. IF THE FINAL COVER SYSTEM INCLUDES THE USE OF SOIL COVER, THEN IT SHALL BE GRASSED IN ACCORDANCE WITH THE VEGETATION SCHEDULE IN THE CCR PERMIT APPLICATION PART A.

CURRENT OPERATING CONDITIONS:

1. THE SITE IS BOUND ON THE NORTH BY HUFFAKER ROAD AND ON THE SOUTH BY SMITH CREEK. THE EAST BOUNDARY IS ALONG AN INDUSTRIAL HAUL ROAD. TO THE WEST IS A WOODED AREA WITH THE NEAREST RESIDENCE LOCATED 0.4 MILES FROM THE SITE. PRIOR TO DEVELOPMENT OF PARCELS A, B, AND E, THE SITE CONSISTED MAINLY OF MINED-OUT CLAY PITS AND ASSOCIAIATED SEDIMENT BASINS.

2. PLANT HAMMOND PRODUCES APPROXIMATELY 327,000 TONS OF COAL COMBUSTION RESIDUALS (COAL ASH AND GYPSUM) ANNUALLY. NEW EPA REGULATIONS REQUIRING THE REMOVAL OF MERCURY AND PARTICULATES MAY IMPACT THE VOLUME AND COMPOSITION OF THE CCR.

3. CURRENTLY CCR IS TRUCKED AND DRY STACKED IN PARCEL A AND B. AS A CONSERVATIVE MEASURE AND TO ALLEVIATE CONCERNS REGARDING THE FUTURE WASTE COMPOSITION, PARCELS A AND B WERE RETROFITTED WITH A COMPOSITE LINER CONSISTING OF 2 FEET OF 1 X 10^{-7} CM/SEC COMPACTED CLAY LINER, A HDPE LINER. A GEOCOMPOSITE DRAINAGE MATERIAL, 2 FEET OF DRAINAGE SAND AND 6 INCHES OF COVER SOIL. PARCELS C & D WILL BE CONSTRUCTED WITH A SIMILAR LINER.

4. DE MINIMIS AMOUNTS OF FILTER CAKE MATERIAL FROM THE WATER TREATMENT SYSTEM SHALL BE PLACED AT THE LANDFILL IN MAXIMUM 4-INCH LIFTS AND MIXED WITH MINIMUM 8-INCHES OF ASH VIA DISKING OR OTHER METHOD. THE FILTER CAKE MATERIAL SHALL NOT BE PLACED IN A SINGLE CONTINUOUS LAYER AND SHALL BE PLACED AWAY FROM THE LANDFILL FINAL OUTER SLOPES.

GENERAL NOTES:

1. ALL LAND DISTURBING ACTIVITIES SHALL CONFORM TO THE MINIMUM REQUIREMENTS FOR CONSERVATION AND ENGINEERING PRACTICES ESTABLISHED BY THE O. C. G. A. 12-7-6(1) THROUGH 12-7-6(18).

2. MONITORING OF SURFACE WATERS DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE GUIDELINE FOR CONSTRUCTION MONITORING CONTAINED IN THE EPD GUIDANCE DOCUMENT FOR DESIGN AND OPERATIONAL PLANS, JANUARY 2004.

3. AREAS DESIGNATED FOR EXCAVATION, EARTH FILL, DITCHES, DIVERSIONS OR COAL COMBUSTION RESIDUALS FILL SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY TREES, BRUSH, STUMPS, AND VEGETATION PRIOR TO EXCAVATION AND FILLING. CLEARING LIMITS SHALL BE HELD TO A MINIMUM. NO CLEARING WILL BE PERFORMED IN THE 200' BUFFER UPON COMPLETION OF THE LANDSCAPE PLAN.

4. TREES, DEBRIS AND OTHER VEGETATION, NOT MIXED WITH COAL COMBUSTION RESIDUALS, REMOVED DURING THE CLEARING, GRUBBING, AND STRIPPING OPERATIONS SHALL NOT BE DISPOSED OF ON SITE. THIS MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL ORDINANCES.

5. COMPACTED EARTH FILL FOR THE CONSTRUCTION OF THE SEDIMENT BASIN SEPARATION DIKE AND DRAINAGE BERMS SHALL NOT BE PLACED ON COAL COMBUSTION RESIDUALS OR SOIL/COAL COMBUSTION RESIDUALS MATERIALS.

6. COMPACTED EARTH FILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE CONSTRUCTION QUALITY ASSURANCE PLAN (CQAP), SEE NOTES 12, 13, 14 AND 15 BELOW.

7. POTENTIAL BORROW AREAS EXIST IN THE IMMEDIATE VICINITY OF THIS SITE. THE MATERIAL FOR COMPACTED EARTH FILL AND FINAL COVER WILL BE HAULED FROM THE BORROW AREA DIRECTLY TO THE FILL AREA. THEREFORE, STOCKPILES OF TOPSOIL, TEMPORARY AND FINAL COVER MATERIALS AT THE DISPOSAL SITE SHOULD NOT BE NECESSARY.

8. A BORROW INVESTIGATION SHALL BE CONDUCTED IN ACCORDANCE WITH THE EPD GUIDANCE DOCUMENT FOR THE INSTALLATION OF THE FINAL COVER TO LOCATE SUITABLE MATERIAL FOR COMPACTED EARTH FILL AND FINAL COVER MATERIAL.

9. EXISTING SITE HORIZONTAL AND VERTICAL SURVEY CONTROL MONUMENTS ARE INDICATED ON SHEET 2.

10. THE CORNERS OF THE PROPERTY BOUNDARY SHALL BE ESTABLISHED AND IDENTIFIED BY 3/4 INCH IRON PINS (REBAR) AND 4"X4" MARKER POSTS.

11. THE CONTROL OF COAL COMBUSTION RESIDUALS PLACEMENT AT THE FACILITY SHALL BE ESTABLISHED FROM THE SURVEY CONTROL MONUMENT.

12. EARTH FILL SHALL BE FREE OF ANY DELETERIOUS MATERIALS AND PLACED IN LIFTS OF 6 TO 8 INCHES NOMINAL THICKNESS, LOOSE MEASURE. THE FILL SHALL BE COMPACTED TO A MINIMUM 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST, ASTM D698, WHILE MAINTAINING THE FILL MOISTURE CONTENT TO WITHIN 3% OF OPTIMUM MOISTURE.

13. FOUNDATION PREPARATION FOR EARTH FILL SHALL CONSIST OF THE REMOVAL OF ALL VEGETATION, TOP SOIL AND LOW CONSISTENCY SOILS THAT CANNOT BE DENSIFIED IN PLACE. PROOF-ROLLING THE FOUNDATION AREAS SHALL BE CONDUCTED USING A 20 TO 30 TON LOADED DUMP TRUCK OR OTHER PNEUMATIC TIRED VEHICLE OF SIMILAR SIZE AND WEIGHT. UNSUITABLE MATERIALS SHALL BE REMOVED, BACKFILLED WITH APPROVED STRUCTURAL EARTH FILL AND COMPACTED IN ACCORDANCE WITH THE CQAP. AFTER COMPACTION AND TESTING TO VERIFY ACCEPTANCE, THE BACKFILLED AREAS WILL BE PROOFROLLED PRIOR TO HARROWING AND FILL PLACEMENT.

14. DURING EARTH FILL PLACEMENT, IN-PLACE DENSITY TESTS SHALL BE PERFORMED BY A QUALIFIED SOILS TECHNICIAN TO VERIFY THAT THE COMPACTION CRITERIA ARE BEING MET. ONE IN PLACE FIELD DENSITY AND MOISTURE TEST SHALL BE PERFORMED FOR EVERY 10,000 SQ. FT. PER LIFT. AS A MINIMUM, ONE IN PLACE DENSITY TEST SHALL BE PERFORMED FOR EACH LIFT FOR EACH DAY FILL MATERIAL IS PLACED.

15. EARTH FILL AREAS, DITCHES AND OTHER DISTURBED AREAS, SHALL BE GRASSED UPON REACHING FINAL GRADES IN ACCORDANCE WITH THE VEGETATION SCHEDULE.

16. SILT FENCES AND/OR HAY BALES SHALL BE USED AS INDICATED AND AS NECESSARY FOR EROSION CONTROL.

17. EARTH FILL SLOPES FOR RAMPS, DIKES, AND DRAINAGE BERMS SHALL BE MAXIMUM 2.5H:1V.

18. EROSION AND SEDIMENT CONTROL AT THE SITE WILL BE PERFORMED IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

GEORGIA REGISTERED No. PE044[illegible] PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/11/25

ISSUED FOR PERMIT

REVISION	DATE

REVISION	0	DATE	FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION			

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

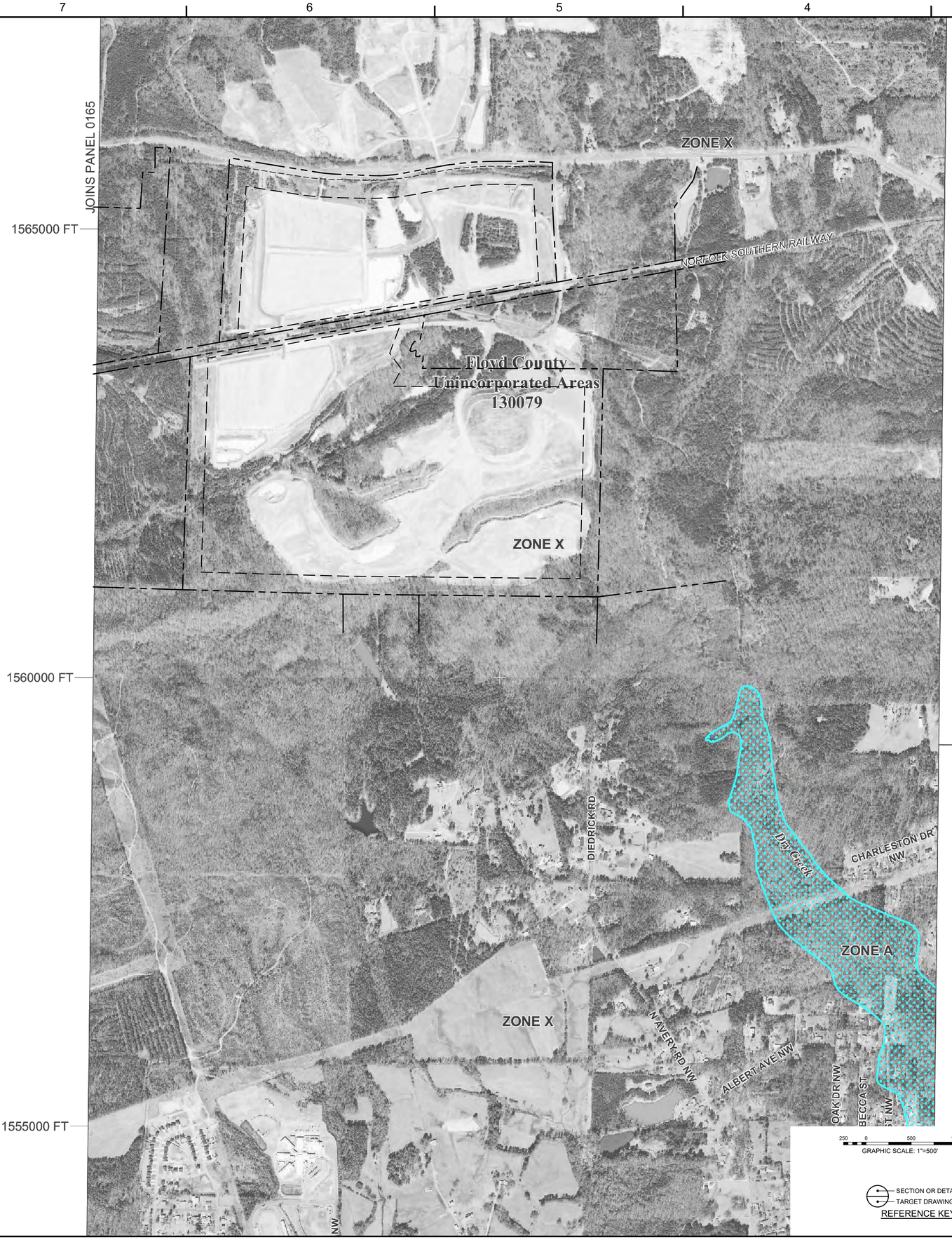
Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
GRADING, SITE DEVELOPMENT AND
GENERAL NOTES

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	75	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 28/2025 USER: MCKINNEY, JIMMY
\\US902-PFS001\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\RL_PERMIT\REV\SHEET_FILES\75_18236_GN1.DWG



250 0 500 1000 FEET
GRAPHIC SCALE: 1"=500'

SECTION OR DETAIL NO.
TARGET DRAWING
REFERENCE KEY

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 23 — 23 — Transect line
- 45° 02' 08", 93° 02' 12" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 4989000 FT — 5000-foot grid ticks: Georgia State Plane coordinate system, West zone (FIPS Zone 1002), Transverse Mercator
- 4989 000mN — 1000-meter Universal Transverse Mercator grid values, zone 16
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- FT1000 — River Station

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
August 9, 2000

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

September 25, 2009 - to change Base Flood Elevations; to add Special Flood Hazard Areas, roads and road names; to update corporate limits and map format; and to reflect updated topographic information.

For Community map revision history prior to countywide mapping, refer to the community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620

GEORGIA REGISTERED No. PE044 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 2/6/15

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

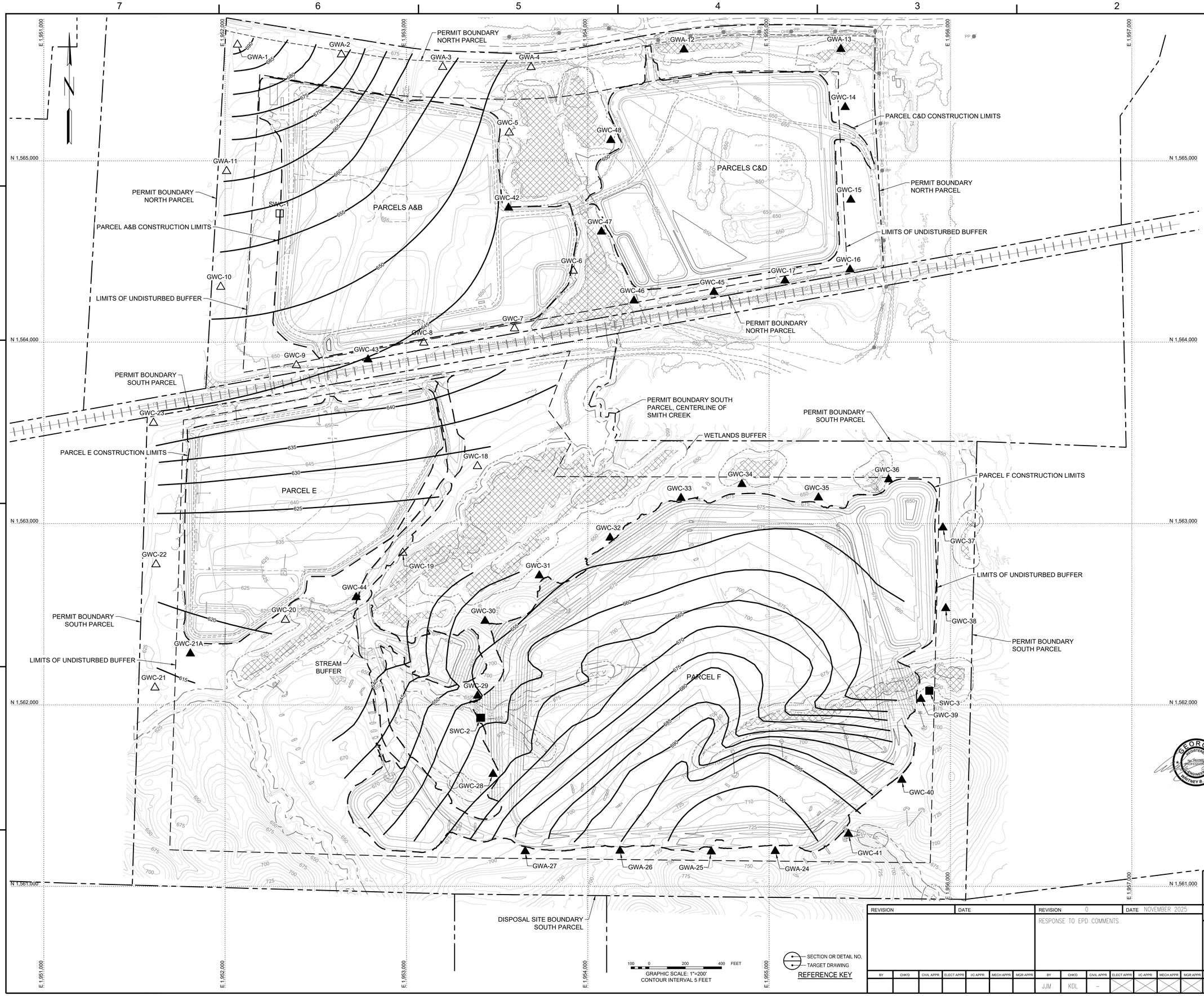
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
FLOOD ZONE MAP

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
JJM	KDL	–					AS SHOWN	175518236	-	76	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 3/6/2025 USER: MDONKEY JMAY
\\US0622-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWINGS\HRL_PERMIT\REVISHEET_FILES\76_18326_H0132_FZM.DWG



MAPPING SOURCE NOTES:

1. TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM SURVEYS PERFORMED BY SOUTHERN COMPANY SERVICES, INC. DATED MARCH 2008 AND JANUARY 2016, AND CONTOURS OBTAINED FROM DIGITAL TERRAIN MODELS OF AERIAL LIDAR SURVEYS DATED NOVEMBER 2019 AND FEBRUARY 2022, SUPPLEMENTED WITH AERIAL LIDAR SURVEYS DATED JANUARY 2021, APRIL 2022, AND AUGUST 2022.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

NOTE:

THE BASEMAP AND SITE FEATURES DEPICTED ON THIS DRAWING WERE PREPARED BY STANTEC CONSULTING SERVICES, INC. THE POTENTIOMETRIC SURFACE DEPICTED ON THIS DRAWING WAS DEVELOPED BY GEOSYNTEC CONSULTANTS, INC. THIS DRAWING HAS BEEN SEALED BY THE RESPECTIVE ENGINEER-OF-RECORD FOR EACH CONSULTANT.

LEGEND

- FEBRUARY 2024 POTENTIOMETRIC CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- OVERHEAD ELECTRIC LINE
- FIBER OPTIC LINE
- RAILROAD
- PROPERTY LINE
- LIMIT OF UNDISTURBED BUFFER
- WETLANDS BUFFER
- STREAM BUFFER
- WETLANDS
- RIPRAP
- POWER POLE
- SURVEY CONTROL MONUMENT
- EXISTING DETECTION MONITORING WELL
- EXISTING LANDFILL UNDERDRAIN SAMPLE POINT
- PROPOSED DETECTION MONITORING WELL
- PROPOSED LANDFILL UNDERDRAIN SAMPLE POINT
- CONSTRUCTION LIMITS

GEORGIA REGISTERED PROFESSIONAL ENGINEER WHITNEY B. LAW

GEORGIA REGISTERED No. 36041729 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 11/6/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
GROUNDWATER MONITORING NETWORK PLAN

REVISION	DATE

REVISION	0	DATE	NOVEMBER 2025
RESPONSE TO EPD COMMENTS			

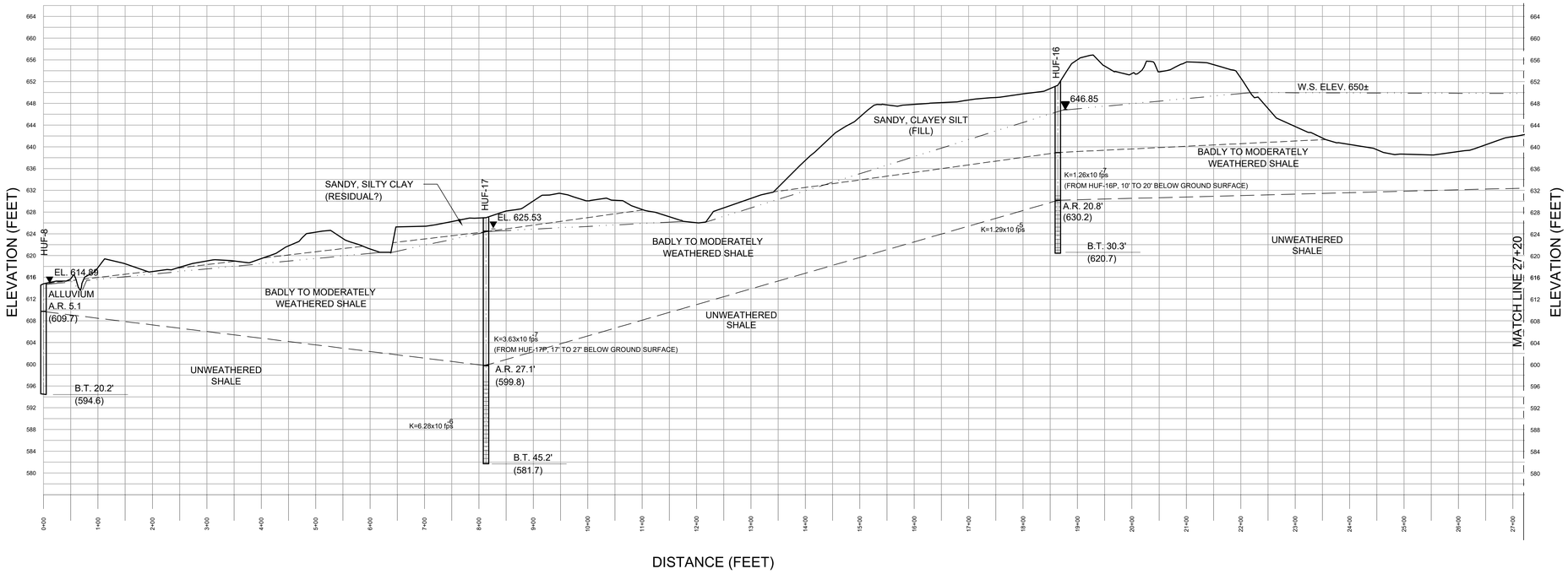
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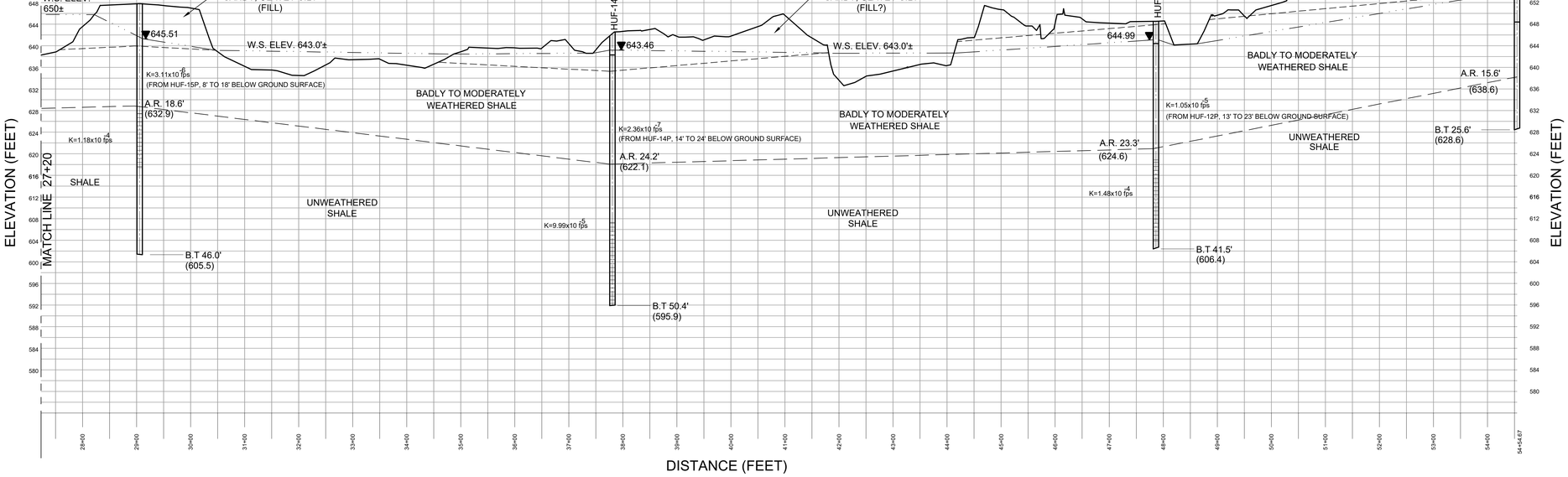
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JJM	KDL	–				

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AS SHOWN	175518236	-	77	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

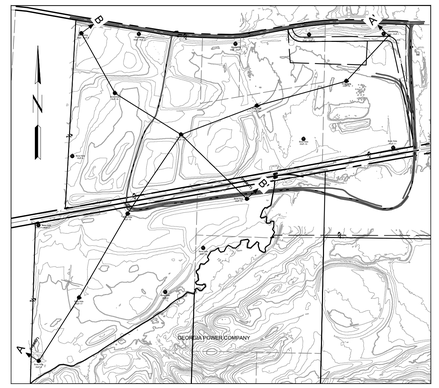
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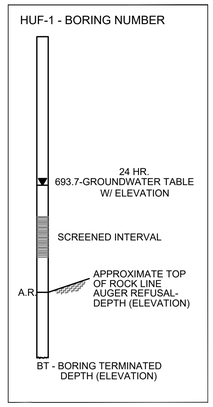
SECTION A-A'

1"=100' (HORIZONTAL)
1"=10' (VERTICAL)



KEY PLAN - SECTIONS
N.T.S.

LEGEND



NOTES:

1. THIS DRAWING WAS PREPARED FOR THE "HUFFAKER ROAD SITE ACCEPTABILITY REPORT, COAL COMBUSTION RESIDUALS STORAGE SITE, PLANT HAMMOND UNITS 1-4."
2. INTERPRETATIONS OF OVERBURDEN, RESIDUAL SOILS, ROCK TYPES, ROCK CHARACTERISTICS AND DEGREE OF WEATHERING ARE TRUE ONLY AT THE BORING LOCATION. PROFESSIONAL JUDGEMENT HAS BEEN USED TO EVALUATE THE DATA COLLECTED. ANY INTERPOLATION OF CONDITIONS BETWEEN BORINGS IS CONJECTURE AND THE ACCURACY OF SUCH INTERPOLATION IS NOT GUARANTEED. THE LINES DESIGNATING THE INTERFACES BETWEEN VARIOUS STRATA ARE APPROXIMATE ONLY, AS TRANSITIONS BETWEEN MATERIALS MAY BE GRADUAL. GROUND WATER LEVELS FLUCTUATE SEASONALLY AND WITH CLIMATIC CONDITIONS, THEREFORE, GROUND WATER CONDITIONS ENCOUNTERED AT OTHER TIMES MAY VARY FROM THOSE SHOWN.
3. GROUNDWATER ELEVATIONS MEASURED JAN. 28, 2002.
4. HYDRAULIC CONDUCTIVITY VALUES (K) WERE OBTAINED FROM SLUG TESTING.

REFERENCE DRAWINGS

GPC LAND DEPARTMENT MAP FILE NO. H-628-10 ASH MONOFILL SITE
GPC LAND DEPARTMENT MAP FILE NO. H-628-11 SITE TOPOGRAPHIC MAP

FOR COMPLETE DRAWING REFERENCES SEE SHEET 1

GEORGIA REGISTERED No. 12087 PROFESSIONAL ENGINEER JIMMY H. McWHORTER 2/12/25

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

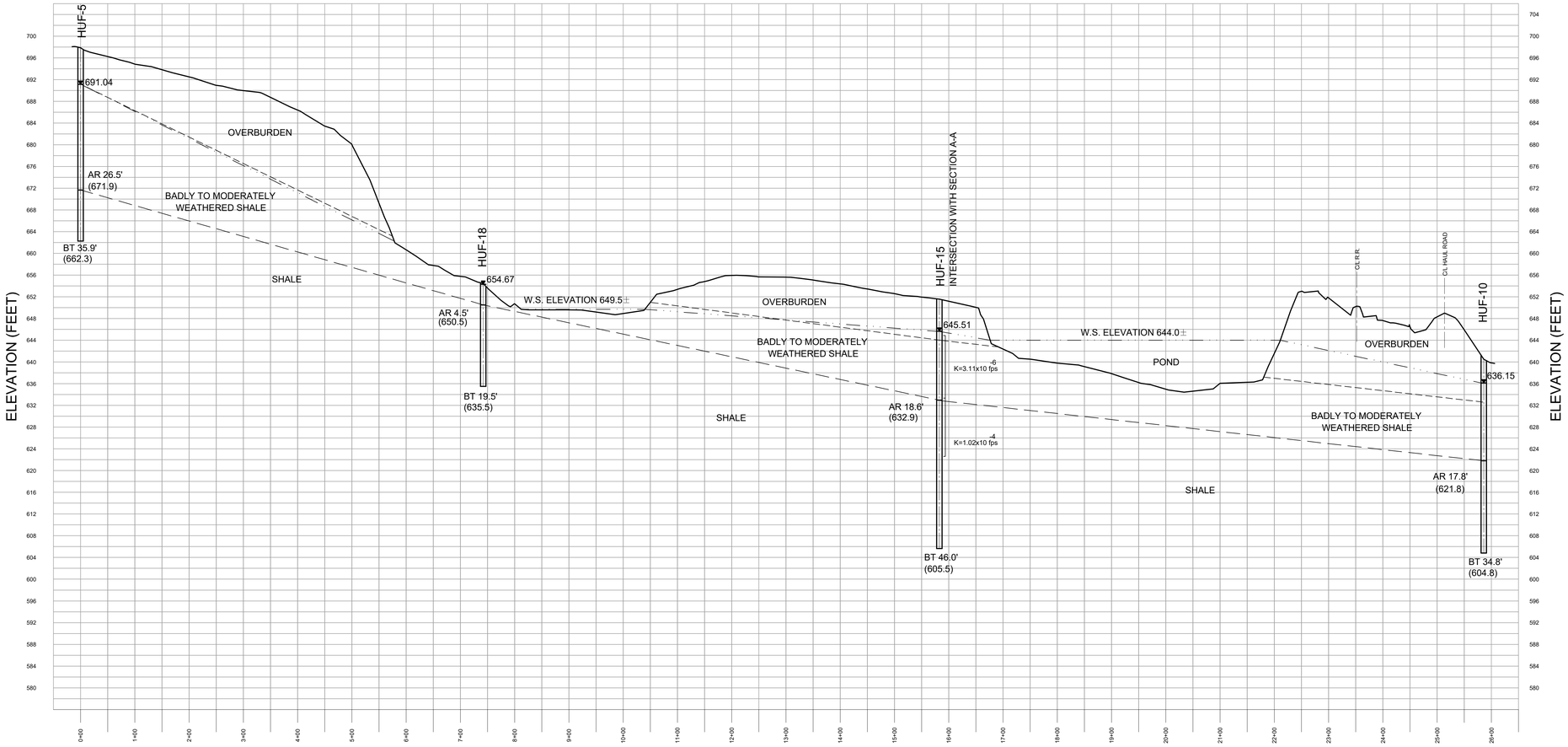
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
GEOLOGICAL CROSS-SECTION A-A'

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR.	ELECT APPR.	I/C APPR.	MECH APPR.	MGR APPR.	SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
JJM	KDL	–					AS SHOWN	175518236	-	78	FINAL	0

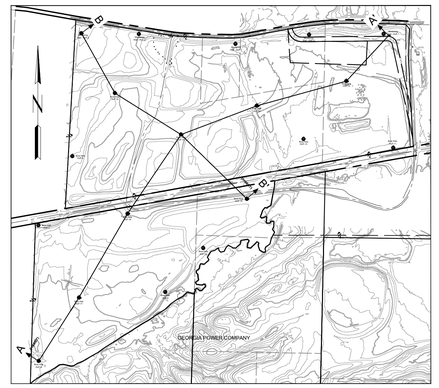
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ANSI F: 28x40 AUTOCAD 2023



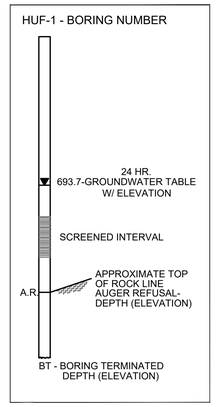
SECTION B-B'

1"=100' (HORIZONTAL)
1"=10' (VERTICAL)



KEY PLAN - SECTIONS
N.T.S.

LEGEND



NOTES:

1. THIS DRAWING WAS PREPARED FOR THE "HUFFAKER ROAD SITE ACCEPTABILITY REPORT, COAL COMBUSTION RESIDUALS STORAGE SITE, PLANT HAMMOND UNITS 1-4."
2. INTERPRETATIONS OF OVERBURDEN, RESIDUAL SOILS, ROCK TYPES, ROCK CHARACTERISTICS AND DEGREE OF WEATHERING ARE TRUE ONLY AT THE BORING LOCATION. PROFESSIONAL JUDGEMENT HAS BEEN USED TO EVALUATE THE DATA COLLECTED. ANY INTERPOLATION OF CONDITIONS BETWEEN BORINGS IS CONJECTURE AND THE ACCURACY OF SUCH INTERPOLATION IS NOT GUARANTEED. THE LINES DESIGNATING THE INTERFACES BETWEEN VARIOUS STRATA ARE APPROXIMATE ONLY, AS TRANSITIONS BETWEEN MATERIALS MAY BE GRADUAL. GROUND WATER LEVELS FLUCTUATE SEASONALLY AND WITH CLIMATIC CONDITIONS, THEREFORE, GROUND WATER CONDITIONS ENCOUNTERED AT OTHER TIMES MAY VARY FROM THOSE SHOWN.
3. GROUNDWATER ELEVATIONS MEASURED JAN. 28, 2002.
4. HYDRAULIC CONDUCTIVITY VALUES (K) WERE OBTAINED FROM SLUG TESTING.

REFERENCE DRAWINGS

GPC LAND DEPARTMENT MAP FILE NO. H-628-10 ASH MONOFILL SITE
GPC LAND DEPARTMENT MAP FILE NO. H-628-11 SITE TOPOGRAPHIC MAP

FOR COMPLETE DRAWING REFERENCES SHEET 1

GEORGIA REGISTERED No. 12087 PROFESSIONAL ENGINEER STANT N. McWHORTER
2/12/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

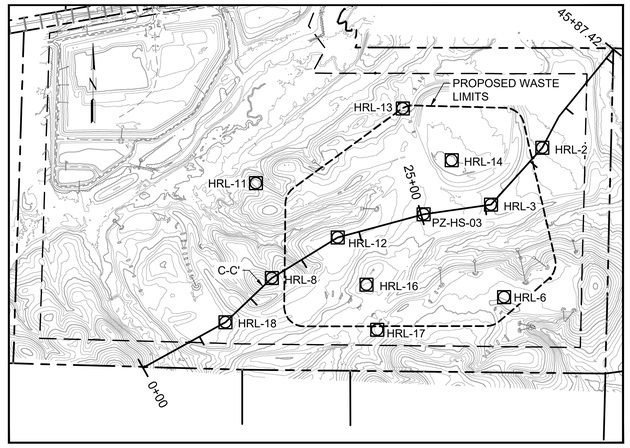
Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
GEOLOGICAL CROSS-SECTION B-B'

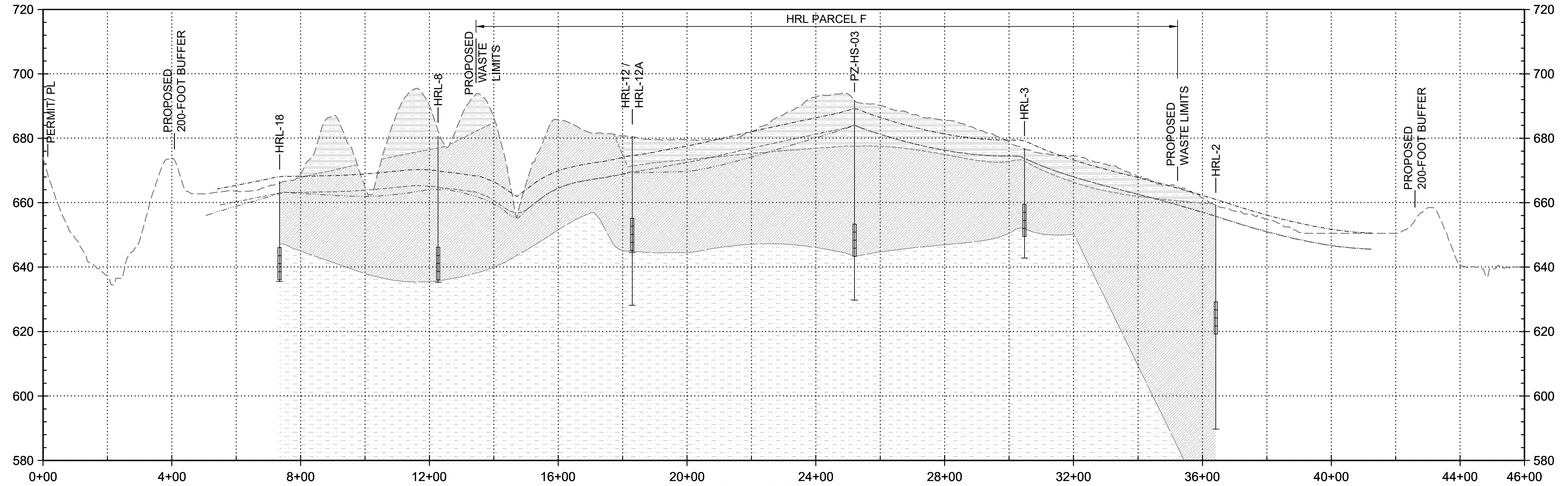
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							JUM	KDL	–					AS SHOWN	175518236	-	79	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/5/2025 USER: MDOWNEY JIMMY
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ALIGNMENT PLAN
SCALE: 1"=500'



CROSS-SECTION - C-C'
SCALE: 1"=200' (HORIZONTAL)
1"=20' (VERTICAL)

PLAN VIEW LEGEND

- PROPOSED CCR PERMIT LIMITS
- EXISTING PROPERTY LIMITS
- PROPOSED 200 FOOT BUFFER
- PROPOSED WASTE LIMITS
- EXISTING CONTOURS
- PROFILE LINES
- PIEZOMETER

CROSS-SECTION LEGEND

- PIEZOMETER SCREEN
- BORING EXTENT
- SOIL FILL
- UNCONSOLIDATED SOIL
- PARTIALLY WEATHERED FLOYD SHALE
- COMPETENT FLOYD SHALE
- EXISTING GROUNDLINE
- TOP OF WEATHERED ROCK
- TOP OF COMPETENT ROCK
- 5-FOOT VERTICAL SEPARATION
- TOP OF COMPOSITE GROUNDWATER
- TOP OF GROUNDWATER (FEBRUARY 8, 2023)

NOTES

1. HORIZONTAL COORDINATE SYSTEM IS 1983 NORTH AMERICAN DATUM (NAD), GEORGIA STATE PLANE WEST.
2. ELEVATION DATUM IS 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88).
3. VERTICAL EXAGGERATION OF PROFILE VIEWS IS 10X.

GEORGIA REGISTERED No. PE024878 PROFESSIONAL ENGINEER MATTHEW C. VAUGHAN 5/1/15

ISSUED FOR PERMIT

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
GEOLOGICAL CROSS-SECTION C-C'

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
							JJM	KDL	–					AS SHOWN	175518236	-	80	FINAL	0

ANSI F: 28x40 AUTOCAD 2023

PLOT DATE: 2/6/2025 USER: MCKINNEY, AMMY
\\US0622-PPFSS01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISIS\SHEET_FILES\80_18236_GXSC.DWG

SITE BOUNDARY LEGAL DESCRIPTION

PARCEL 1

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN LAND LOTS 79, 80, 101 AND 102, OF THE 4TH DISTRICT, 4TH SECTION, FLOYD COUNTY, GEORGIA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE TRUE POINT OF BEGINNING, BEGIN AT A ¾" REBAR FOUND AT THE CORNER COMMON TO LAND LOTS 80, 81, 100 AND 101, SAID DISTRICT, SECTION AND COUNTY (SAID CORNER HAVING STATE PLANE COORDINATES [NAD83(94) WEST ZONE] OF NORTH 1,563,453.54 FEET AND EAST 1,956,146.34 FEET); THENCE RUN NORTH 89 DEGREES 51 MINUTES 30 SECONDS WEST A DISTANCE OF 1803.96 FEET TO ½" REBAR WITH YELLOW GPC CAP SET (SAID REBAR HAVING STATE PLANE COORDINATES OF NORTH 1,563,457.85 FEET AND EAST 1,954,342.38 FEET); THENCE RUN NORTH 89 DEGREES 51 MINUTES 30 SECONDS WEST A DISTANCE OF 200.00 FEET TO A POINT IN THE CENTERLINE OF SMITH CREEK (SAID POINT HAVING STATE PLANE COORDINATES OF NORTH 1,563,458.50 FEET AND EAST 1,954,142.38 FEET), WHICH POINT IS THE TRUE POINT OF BEGINNING. FROM THE TRUE POINT OF BEGINNING AS THUS ESTABLISHED, THENCE RUNNING GENERALLY NORTHERLY ALONG SAID CENTERLINE OF SMITH CREEK AND FOLLOWING THE MEANDERINGS THEREOF A DISTANCE OF 867.29 FEET, MORE OR LESS, TO AN IRON PIN FOUND (SAID IRON PIN FOUND HAVING STATE PLAN COORDINATES OF NORTH 1,564,048.61 AND EAST 1,954,162.91 FEET AND BEING LOCATED NORTH 01 DEGREES 59 MINUTES 34 SECONDS EAST A DISTANCE OF 590.47 FEET FROM THE TRUE POINT OF BEGINNING); THENCE RUNNING SOUTH 79 DEGREES 53 MINUTES 25 SECONDS WEST A DISTANCE OF 2,633.18 FEET TO A ¾" REBAR WITH BLUE CAP FOUND (SAID REBAR HAVING STATE PLANE COORDINATES OF NORTH 1,563,586.40 FEET AND EAST 1,951,570.62 FEET); THENCE RUNNING SOUTH 01 DEGREES 50 MINUTES 01 SECONDS WEST ALONG THE BOUNDARY OF PROPERTY NOW OR FORMERLY OWNED BY INLAND CONTAINER CORP. A DISTANCE OF 1,737.88 FEET TO A POINT LOCATED IN THE CENTERLINE OF SMITH CREEK; THENCE RUNNING GENERALLY NORTHEASTERLY ALONG THE CENTERLINE OF SMITH CREEK AND FOLLOWING THE MEANDERINGS THEREOF A DISTANCE OF 4022.49 FEET, MORE OR LESS, TO THE TRUE POINT OF BEGINNING; SAID TRACT BEING DESIGNATED DISPOSAL SITE BOUNDARY SOUTH PARCEL, ALL AS SHOWN ON DRAWING H9131 DATED SEPTEMBER 27, 2004, LAST REVISED SEPTEMBER 15, 2005, PREPARED BY SOUTHERN COMPANY SERVICES, INC. FOR GEORGIA POWER COMPANY.

PARCEL 2

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN LAND LOTS 79 AND 80, OF THE 4TH DISTRICT, 4TH SECTION, FLOYD COUNTY, GEORGIA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A 1/2" REBAR WITH YELLOW GPC CAP SET (SAID REBAR HAVING STATE PLANE COORDINATES [NAD 83 (94) WEST ZONE] OF NORTH 1,564,412.31 FEET AND EAST 1,955,630.59 FEET); THENCE RUNNING NORTH 03 DEGREES 07 MINUTES 10 SECONDS WEST A DISTANCE OF 918.35 FEET TO AN IRON PIN FOUND (SAID IRON PIN FOUND HAVING STATE PLANE COORDINATES OF NORTH 1,565,329.30 FEET AND EAST 1,955,580.61 FEET); THENCE RUNNING NORTH 00 DEGREES 43 MINUTES 12 SECONDS EAST A DISTANCE OF 358.18 FEET TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,687.47 FEET AND EAST 1,955,584.17 FEET; THENCE RUNNING ALONG THE ARC OF A CURVE TO THE LEFT AN ARC DISTANCE OF 37.54 FEET (SAID CURVE HAVING A RADIUS OF 7,987 FEET AND SAID ARC BEING SUBTENDED BY A CHORD BEARING NORTH 89 DEGREES 17 MINUTES 46 SECONDS WEST A CHORD DISTANCE OF 37.53 FEET) TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,687.93 FEET AND EAST 1,955,546.64 FEET; THENCE RUNNING NORTH 89 DEGREES 09 MINUTES 42 SECONDS WEST A DISTANCE OF 543.06 FEET TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,695.87 FEET AND EAST 1,955,003.64 FEET; THENCE RUNNING ALONG THE ARC OF A CURVE TO THE LEFT AN ARC DISTANCE OF 703.47 FEET (SAID CURVE HAVING A RADIUS OF 3,428 FEET AND SAID ARC BEING SUBTENDED BY A CHORD BEARING SOUTH 84 DEGREES 57 MINUTES 34 SECONDS WEST A CHORD DISTANCE OF 702.24 FEET) TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,634.17 FEET AND EAST 1,954,304.12 FEET; THENCE RUNNING SOUTH 79 DEGREES 04 MINUTES 50 SECONDS WEST A DISTANCE OF 257.26 FEET TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,585.44 FEET AND EAST 1,954,051.52 FEET; THENCE RUNNING ALONG THE ARC OF A CURVE TO THE RIGHT AN ARC DISTANCE OF 561.20 FEET (SAID CURVE HAVING A RADIUS OF 2,558 FEET AND SAID ARC BEING SUBTENDED BY A CHORD BEARING SOUTH 85 DEGREES 21 MINUTES 56 SECONDS WEST A
CHORD DISTANCE OF 560.08 FEET) TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,540.19 FEET AND EAST 1,953,493.27 FEET; THENCE RUNNING NORTH 88 DEGREES 20 MINUTES 57 SECONDS WEST A DISTANCE OF 360.74 FEET TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,550.58 FEET AND EAST 1,953,132.68 FEET; THENCE RUNNING ALONG THE ARC OF A CURVE TO THE RIGHT AN ARC DISTANCE OF 320.01 FEET (SAID CURVE HAVING A RADIUS OF 2,595 FEET AND SAID ARC BEING SUBTENDED BY A CHORD BEARING NORTH 84 DEGREES 48 MINUTES 59 SECONDS WEST A CHORD DISTANCE OF 319.81 FEET) TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,579.48 FEET AND EAST 1,952,814.18 FEET; THENCE RUNNING NORTH 81 DEGREES 17 MINUTES 01 SECONDS WEST A DISTANCE OF 437.51 FEET TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,645.78 FEET AND EAST 1,952,381.72 FEET; THENCE RUNNING ALONG THE ARC OF A CURVE TO THE RIGHT AN ARC DISTANCE OF 384.93 FEET (SAID CURVE HAVING A RADIUS OF 5,075 FEET AND SAID ARC BEING SUBTENDED BY A CHORD BEARING NORTH 79 DEGREES 06 MINUTES 39 SECONDS WEST A CHORD DISTANCE OF 384.83 FEET) TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,718.48 FEET AND EAST 1,952,003.81 FEET; THENCE RUNNING SOUTH 03 DEGREES 11 MINUTES 43 SECONDS WEST ALONG THE BOUNDARY OF PROPERTY NOW OR FORMERLY OWNED BY SIKES CORP. A DISTANCE OF 1,975.53 FEET TO A 5/8" REBAR FOUND (SAID REBAR HAVING STATE PLANE COORDINATES OF NORTH 1,563,746.02 FEET AND EAST 1,951,893.70 FEET); THENCE RUNNING NORTH 79 DEGREES 53 MINUTES 25 SECONDS EAST A DISTANCE OF 3,795.82 FEET TO A ½" REBAR WITH YELLOW GPC CAP SET AND THE POINT OF BEGINNING; SAID TRACT BEING DESIGNATED DISPOSAL SITE BOUNDARY NORTH PARCEL, ALL AS SHOWN ON DRAWING H9131 DATED SEPTEMBER 27, 2004, LAST REVISED SEPTEMBER 15, 2005, PREPARED BY SOUTHERN COMPANY SERVICES, INC. FOR GEORGIA POWER COMPANY.

GEORGIA REGISTERED No. 12987 PROFESSIONAL LAND SURVEYOR GARY M. McWHORTER
2/12/25

ISSUED FOR PERMIT

REVISION	DATE	REVISION	DATE
		0	FEBRUARY 2025
		ISSUED FOR CCR PERMIT APPLICATION	

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
LEGAL DESCRIPTION OF SITE BOUNDARY

SCALE	PROJ I.D.	DRAWING NUMBER	SH	CONT'D	REV
AS SHOWN	175518236	-	81	FINAL	0

PLOT DATE: 2/5/2025 USER: MDOWNEY JIMMY
\\us0622-ppfss01\shared_projects\175518236\technical_production\drawing\hdrl_permit\revisheet_files\81_18326_h9198_leg.dwg

ANSI F: 28x40

AUTOCAD 2023

Note: Wetlands shown on this plan are under the jurisdiction of the US Army Corps of Engineers. Lot owners may be subject to penalty by law for disturbance to these wetland areas without proper authorization.

Approx. Land Lot Line

Iron Pin Found 5/8" Rebar

Huffaker Road (40' R/W)

Iron Pin Set 1/2" Rebar w/ Yellow GPC Cap

L1 L2 L3 L4 L5

C1 C2 C3 C4

Geodetic Marker Nail & Cap – Spurl
State Plane Coords.
N 1565605.71
E 1952986.07
Elev. 679.02

Approx. 4.8 Acres
Temporary Stockpile Easement

Haul Road

S00°34'12"W
407.66'

S03°07'10"E
918.35'

Boral Bricks, Inc.

30' Wide Access Road Easement

New 30' Wide Entrance/Easement

13' Wide Access Road Easement

Dirt Road

Wetlands

Geodetic Marker
1/2" Rebar w/ Cap
Huffaker
State Plane Coords.
N 1564873.76
E 1953128.38
Elev. 670.40

c/L Haul Road

Approx. Land Lot Line

LL 79

LL 80

Boral Bricks, Inc.
Tract 1
134.45 Acres

N/F
Sikes Corp.

NORTH ARROW
Georgia State Plane – West Zone

N03°11'43"E
2045.22'

New 30' Wide Entrance/Easement

Haul Road

Wetlands

MP 380

S79°53'25"W

Central of Georgia Railroad (100' R/W)

Geodetic Marker
Nail & Cap – NC14
State Plane Coords.
N 1564383.05
E 1955692.91
Elev. 660.37

Iron Pin Set 1/2" Rebar w/ Yellow GPC Cap

Iron Pin Found 5/8" Rebar

3795.82'

N79°53'25"E

c/L Railroad

2633.18'

30' Wide Access Road Easement

Haul Road

Georgia Power Company Easement for Ingress/Egress

S 01°59'34" W
590.47'
867.29' Along C/L Creek

Approx. Land Lot Line

2003.96'

S89°51'30"E
1803.96' Land Lot Line

Iron Pin Found 5/8" Rebar w/ Blue Cap

200.00'

Iron Pin Found 1/2" OTP

Iron Pin Set 1/2" Rebar w/ Yellow GPC Cap

Iron Pin Found 1 1/2" Rod
1.73' East P/L

228.10'

Iron Pin Found 5/8" Rebar

108.65'

Iron Pin Found Axle
0.6' East P/L

199.82'

S01°25'02"W

Iron Pin Found 2 1/2" OTP
0.4' East P/L

398.76'

Iron Pin Found 1" OTP
0.2' East P/L

1536.37'

598.03'

N/F
Inland Container Corp.

Haul Road

N01°50'01"E
1737.88'

4022.94' Along c/L Creek

Land Lot Line

Boral Bricks, Inc.
Tract 2
283.97 Acres

Iron Pin Found 1" OTP
RR Iron Witness Post
1.4' East

LL 102

LL 101

Iron Pin Found 1 1/4" OTP
RR Iron Witness Post
0.7' Northeast

Iron Pin Found 2 1/2" OTP
5.01'

Iron Pin Found 1" OTP
RR Iron Witness Post
0.7' Northeast

Boral Bricks, Inc.

Iron Pin Found Spindel Gear
1.2' West P/L

320.04'

S01°25'40"W

72.99'

Iron Pin Found 2 1/2" OTP
0.1 East P/L

196.13'

Iron Pin Found 2 1/2" OTP
0.2' East P/L

400.13'

989.29'

2580.23'

Iron Pin Found 1 1/4" OTP
RR Iron Witness Post
0.6' Southwest

Iron Pin Found 1" OTP 0.8' South P/L
3" Angle Iron Witness Post
0.3' Southwest

133.71'

705.00'

570.88'

Land Lot Line

1409.59'

N89°22'56"W

1409.10'

N89°24'32"W

Iron Pin Found Railroad Track

1777.77'

N88°25'03"W

Iron Pin Found 1" Flat Iron
RR Iron Witness Post
0.7' Southwest

Iron Pin Found 1" Axle
RR Iron Witness Post
0.5' Southwest

Iron Pin Found RR Iron
26.56' South P/L

Iron Pin Found 1" Axle
RR Iron Witness Post
0.2' Southeast

N/F
Vance G. Payne

N/F
John M. Gilreath

N/F
James E. Heard

LINE TABLE

LINE	BEARING	LENGTH
L1	S80°41'37"E	969.07'
L2	S87°41'59"E	377.98'
L3	N79°10'28"E	363.51'
L4	S89°44'27"E	235.27'
L5	S87°13'01"E	138.72'

CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
C1	2000.00'	244.56'	S84°11'48"E	244.41'
C2	1500.00'	343.63'	N85°44'14"E	342.88'
C3	3675.00'	710.98'	N84°43'00"E	709.87'
C4	5000.00'	220.25'	S88°28'44"E	220.24'

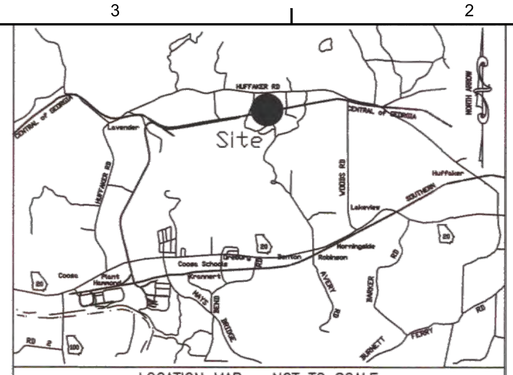
PLAT CLOSURE STATEMENT

This plat has been calculated for closure and is found to be accurate within one foot in 722305 feet.

GRAPHIC SCALE

400 0 200 400 800 1200

(In Feet)
1 inch = 400 feet



LOCATION MAP – NOT TO SCALE

PLAT ABBREVIATIONS

IPF – Iron Pin Found
IPS – Iron Pin Set
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 – Fence line
T/L – Transmission Line
N/F – Now or Formerly
DB – Deed Book
PB – Plat Book
MF – Map File No.

MONUMENTATION LEGEND

- Depicts Iron Pin Set
- Depicts Iron Pin Found
- Depicts Monument Set
- Depicts Monument Found

UTILITY LEGEND

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

Filed and Recorded in Plat Book , Page ,
This Day of , 19 , at M.

, Clerk

Surveyor: Donald L. Dryden
R.L.S. #2800
241 Ralph McGill Blvd., N.E.
BIN – 10151
Atlanta, Ga. 30308–3374
Phone (404) 506–2839

NOTE: THIS PLAT IS NOT VALID FOR RECORDING PURPOSES UNLESS SURVEYOR'S SIGNATURE APPEARS IN ORIGINAL BLACK INK OVER THE STAMP.

GEORGIA REGISTERED No. 2800 PROFESSIONAL LAND SURVEYOR DONALD L. DRYDEN

In my opinion this plat is a correct representation of the land platted and has been prepared in conformity with minimum standards and requirements of law.

Signed _____

GPS Control Statement

I, Donald Dryden, declare that this map or report was prepared under my supervision on 10–10–2001 from an actual GPS survey made under my supervision; that this GPS survey was performed to category B specifications; that I used kinematic GPS field procedures. That this survey was performed using Trimble 4700 duel frequency receivers and all coordinates are based on Georgia State Plane – West Zone NAD83/94 and vertical datum of NAVD88.

All stations were double occupied and from this:
The minimum horizontal error is 0.01 feet.
The maximum horizontal error is 0.06 feet.
The average horizontal error is 0.03 feet.
All vertical control is less than 0.12 feet of error.

Path – T:\Working\ASH\Hammond\20050613 Huffaker Road CCB Disposal Facility\Huffaker.dwg

REVISION BLOCK
No. 2 – Updated Easements & Name – JFW 08/24/05
No. 1 – Added Wetlands – JFW – 4/4/02
APPROVALS

GEORGIA POWER CO., ATLANTA, GA.
Land Department

Plant Hammond
Huffaker Road CCB Disposal Facility
Land lots 79, 80, 101 and 102 – 4th District – 4th Section
Floyd County, Georgia

DR.	TR.	Checked
JFW		

SCALE 1" = 400' | DATE Dec. 13, 2001

DRAWING NUMBER H-628-10

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER MARY H. McWHORTER 2/12/05

ISSUED FOR PERMIT

REVISION	DATE

REVISION 0	DATE FEBRUARY 2025
ISSUED FOR CCR PERMIT APPLICATION	

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
JJM	KDL	–				

Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
PROPERTY PLAT AND CLOSURE STATEMENT

SCALE	PROJ I.D.	DRAWING NUMBER	SH.	CONT'D	REV.
AS SHOWN	175518236	-	82	FINAL	0

PLOT DATE: 2/12/05 USER: MCWHORTE JIMMY
W:\05\02\02-PFS\01\SHARED_PROJECTS\175518236\TECHNICAL_PRODUCTION\DRAWING\HRL_PERMIT\REVISHEET_FILE\R2_1829_H-628-10_PPCS.DWG

ANSI F: 28x40 AUTOCAD 2023