GEORGIA POWER COMPANY
PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT DRAWINGS
HEARD COUNTY, GEORGIA
OCTOBER 2025

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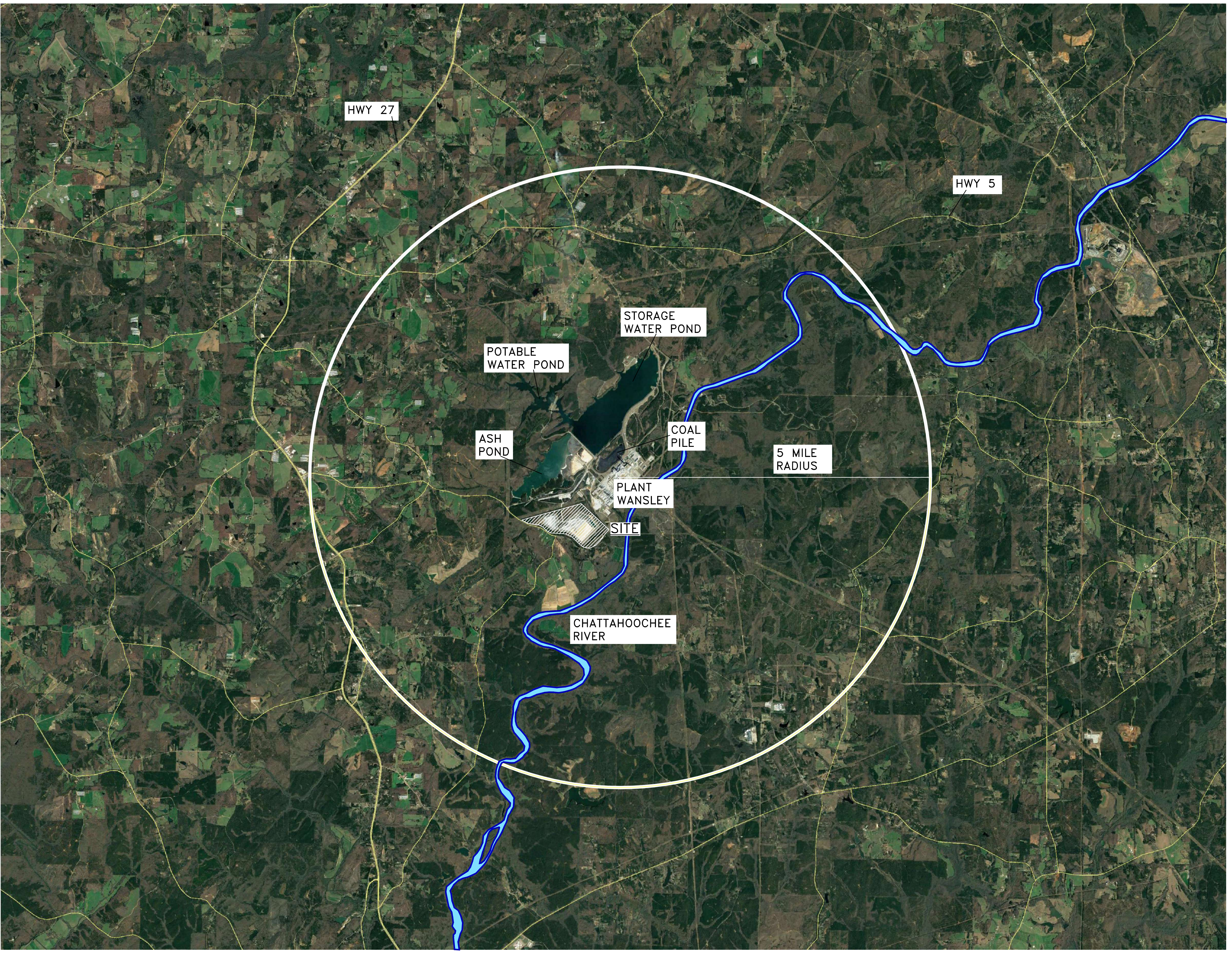
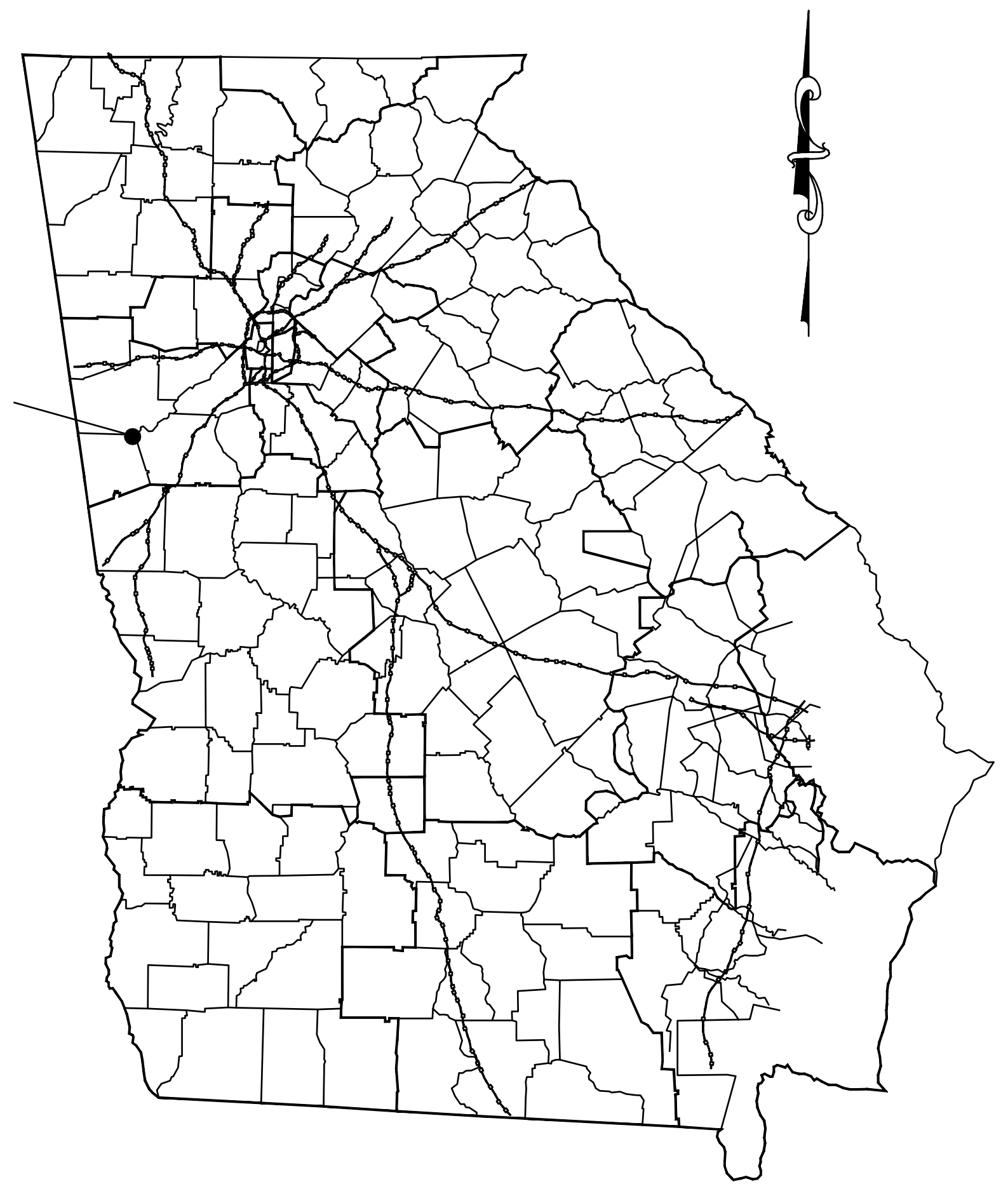


LOCATION MAP
SCALE AS SHOWN



HEARD COUNTY
GEORGIA

RESPONSIBLE OFFICIAL

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

ADDRESS

PLANT WANSLEY
1371 LIBERTY CHURCH ROAD
CARROLTON, GA 30116

PROPERTY OWNER

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

CCR LANDFILL PERMIT APPLICATION CONSULTANT

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

CONSULTANT

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

NO. 27185 R. BRANT LANE 10/21/25

No. 12687 GARY H. McWHORTER Gary H McWhorter 10/21/25

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

LEGEND:

▨ COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY AREA

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2025.10.27 08:45:43 -04'00'

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

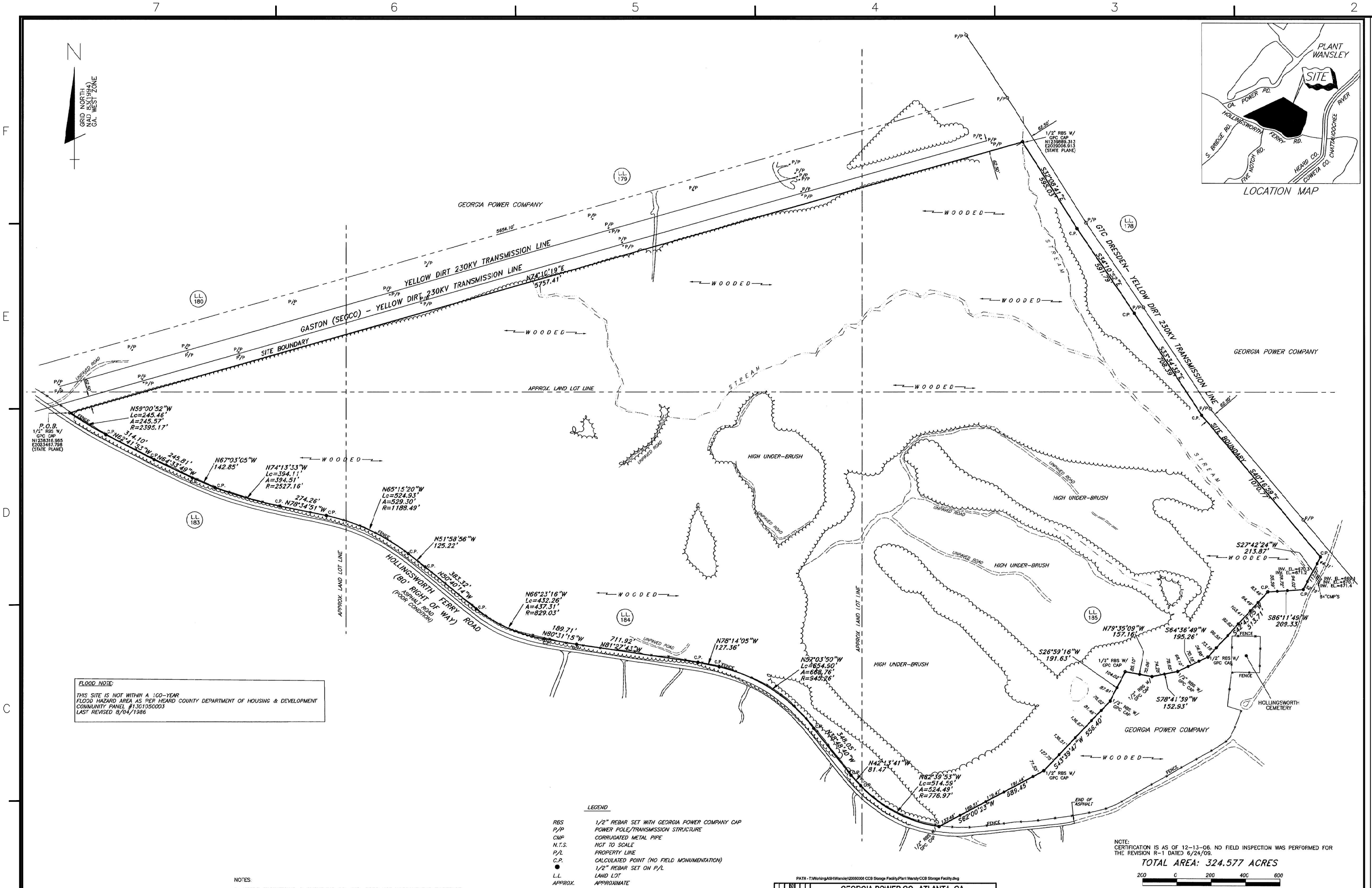
REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
5	10-21-2025	MODIFICATION FOR MISCELLANEOUS REVISIONS TO REMOVE PIPE, STORMWATER IMPROVEMENTS, REMOVE RETAINING WALL, ANCHOR TRENCH DIMENSIONS, LCRS REVISIONS, AND INCLUDE SUPPLEMENTAL RETURN WATER FILTRATION SYSTEM [BY HHNT, INC.]	RSW	RBL					
4	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM AND UPDATE DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	RSW	RBL					
3	05-03-2024	STREAM RELOCATION GRADING REVISION INCLUDING RETAINING WALL [BY HHNT, INC.]	RSW	RBL					
2	01-08-2024	CONVENTIONAL CCR PLACEMENT MODIFICATIONS, OPTIONAL PASTING OPERATIONS [BY HHNT, INC.]	RSW	RBL					
1	10-10-2023	REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS, REMOVED SECURITY ROAD PLAN AND PROFILE SHEETS, DRAWINGS H1C1127 AND H1C11128 [BY HHNT, INC.]	RSW	RBL					
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL					

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010209	H1C11120	1	FINAL	5

ANSI F: 40x28 Acad2008


N
GRID NORTH NAD 83(1994) GA. WEST ZONE
PLANT WANSLEY
SITE
LOCATION MAP
GEORGIA POWER COMPANY
GASTON (SEGCO) - YELLOW DIRT 230KV TRANSMISSION LINE
YELLOW DIRT 230KV TRANSMISSION LINE
SITE BOUNDARY
N74°10'19"E 5757.41'
GTC DRESDEN - YELLOW DIRT 230KV TRANSMISSION LINE
S32°08'41"E 595.03'
S34°10'52"E 591.79'
S33°34'32"E 708.39'
S40°16'59"E 1070.77'
S27°42'24"W 213.87'
S86°11'49"W 209.33'
S64°36'49"W 195.26'
S78°41'39"W 152.93'
N79°35'09"W 157.16'
S26°59'16"W 191.63'
S43°39'47"W 556.40'
S62°00'23"W
HOLLINGSWORTH FERRY ROAD (80' RIGHT OF WAY) (POOR CONDITION)
HOLLINGSWORTH CEMETERY
P.O.B.
N59°00'52"W Lc=245.46' A=245.57' R=2395.17'
N62°41'53"W 314.10'
N64°33'49"W 245.81'
N67°03'05"W 142.85'
N74°13'33"W Lc=394.11' A=394.51' R=2527.16'
N78°34'51"W 274.26'
N65°15'20"W Lc=524.93' A=529.30' R=1188.49'
N51°58'56"W 125.22'
N50°40'14"W 383.32'
N66°23'16"W Lc=432.26' A=437.31' R=829.03'
N80°31'15"W 189.71'
N81°27'43"W 711.92'
N78°14'05"W 127.36'
N57°03'50"W Lc=654.90' A=668.76' R=945.26'
N38°48'40"W 348.05'
N42°13'41"W 81.47'
N62°39'53"W Lc=514.59' A=524.49' R=776.97'
L.L. 178
L.L. 179
L.L. 180
L.L. 183
L.L. 184
L.L. 185
APPROX. LAND LOT LINE
WOODED
HIGH UNDER-BRUSH
STREAM
UNPAVED ROAD
FENCE
END OF ASPHALT
1/2" RBS W/ GPC CAP
C.P.
P/P

FLOOD NOTE:

THIS SITE IS NOT WITHIN A 100-YEAR
FLOOD HAZARD AREA AS PER HEARD COUNTY DEPARTMENT OF HOUSING & DEVELOPMENT
COMMUNITY PANEL #1301050003
LAST REVISED 8/04/1986

LEGEND

RBS	1/2" REBAR SET WITH GEORGIA POWER COMPANY CAP
P/P	POWER POLE/TRANSMISSION STRUCTURE
CMP	CORRUGATED METAL PIPE
N.T.S.	NOT TO SCALE
P/L	PROPERTY LINE
C.P.	CALCULATED POINT (NO FIELD MONUMENTATION)
●	1/2" REBAR SET ON P/L
L.L.	LAND LOT
APPROX.	APPROXIMATE

NOTE
COORDINATE VALUES SHOWN WERE ESTABLISHED FROM GEORGIA POWER CONTROL MONUMENTS "WANSLEY1" AND "WANSLEY3" USING G.P.S. METHODS.

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

NOTE:
CERTIFICATION IS AS OF 12-13-06. NO FIELD INSPECTION WAS PERFORMED FOR THE REVISION R-1 DATED 6/24/09.

TOTAL AREA: 324.577 ACRES

200 0 200 400 600
SCALE IN FEET

The field data upon which this plat was compiled has an average angular error of 1 second per angle, and a closure precision of one foot in 34,975 ft. and was adjusted using the Least Squares Method.

This plat has been calculated for closure and its accuracy exceeds one foot in 789,307 ft.

Linear measurements obtained using TCRA 1105. Angular measurements obtained using TCRA 1105.

NOTES:

1. METRO ENGINEERING & SURVEYING CO., INC. DOES NOT WARRANT THE EXISTENCE OR NONEXISTENCE OF ANY WETLANDS OR HAZARDOUS WASTE IN THE SURVEYED SITE.
2. THE UNITS FOR THIS SURVEY ARE U.S. FEET.
3. THE DATE OF FIELD WORK FOR THIS SURVEY IS 9-26-06 THRU 12-4-06.
4. THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON VISIBLE STRUCTURES AND MAPS OR ON THE GROUND MARKINGS PROVIDED BY THE UTILITY COMPANIES SERVICING THAT UTILITY, AND ARE APPROXIMATE ONLY. THE PROPERTY SHOWN HEREON MAY BE SERVED BY UNDERGROUND UTILITIES WHICH ARE NOT SHOWN HEREON. ALL UTILITY COMPANIES SHOULD BE CONTACTED BEFORE BEGINNING ANY DESIGN OR CONSTRUCTION.

PATH - T:\Working\ASH\Wansley\20060306 CCB Storage Facility\Plant Wansly CCB Storage Facility.dwg

(R-2) 6/29/09 ADDED LAND LOTS & OWNERS
(R-1) 6/24/09 REVISED LEGEND & ADDED "C.P." ALONG R/W OF ROAD
REVISION BLOCK
APPROVALS

GEORGIA POWER CO., ATLANTA, GA.
Land Department
Plant Wansley
Coal Combustion By-Product Storage Facility
Site Boundary
Heard County, Georgia

DR.	TR.	Checked
Metro		

SCALE	DATE
1" = 200'	12/19/2006

DRAWING NUMBER
M-200-1

Metro Engineering & Surveying Co., Inc.
Engineers • Surveyors • Photogrammetrist
Clayton / Tara Airport
186 Selfridge Road • Hampton, GA 30228
Phone: 770-707-0777
Fax: 770.707-0755
www.metro-engineering.com
"QUALITY SERVICE SINCE 1987"

JAMES R. GREEN

THIS PLAT IS NOT VALID UNLESS SURVEYOR'S SIGNATURE APPEARS IN BLACK INK.

SITE BOUNDARY SURVEY FOR
THE SOUTHERN COMPANY
A PORTION OF PLANT WANSLEY

LAND LOTS: – 178, 179, 180, 183, 184 & 185
DISTRICT: – 4TH
COUNTY: – HEARD
STATE: – GEORGIA
DATE: 12-13-06 SCALE: 1"=200'

REVISIONS
(R-1) 6/24/09
(R-2) 6/29/09

DWN: RES CHCK: JG
JOB No.: 12234
DISK:
FILE: 12234BOUNDARY

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

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

GEORGIA
Department of Natural Resources
Environmental Protection Division
Approved
Solid Waste Management Program
Approved By: Keith Stevens

REFERENCE DRAWINGS:

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

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

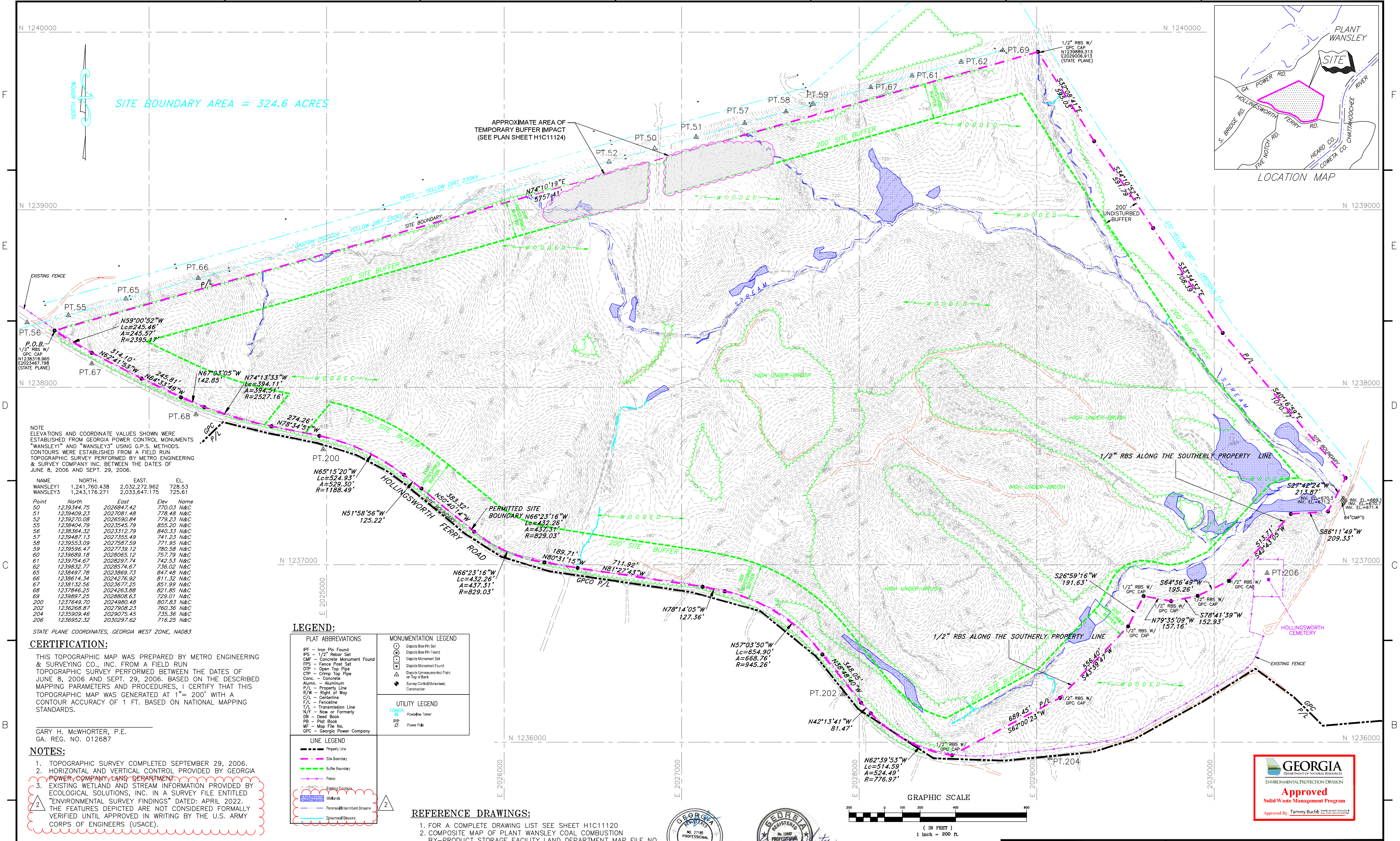
PLANT WANSLEY
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
PERMITTED SITE BOUNDARY
PLAT AND LEGAL DESCRIPTION

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

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

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

ANSI F: 40x28 Acad2008



7
6
5
4
3
2
1
F
E
D
C
B
A
NORTH ARROW
SITE BOUNDARY AREA = 324.6 ACRES
N 1240000
N 1239000
N 1238000
N 1237000
N 1236000
E 2025000
E 2026000
E 2027000
E 2028000
E 2029000
E 2030000
APPROXIMATE AREA OF TEMPORARY BUFFER IMPACT (SEE PLAN SHEET H1C11124)
PT.50
PT.51
PT.52
PT.55
PT.56
PT.57
PT.58
PT.59
PT.61
PT.62
PT.65
PT.66
PT.67
PT.68
PT.69
PT.200
PT.202
PT.204
PT.206
YATES - YELLOW DIRT 230KV
GASTON (SEGCO) - YELLOW DIRT 230KV
SITE BOUNDARY
GTC YELLOW DIRT - DRESDEN
N74°10'19"E 5757.41'
200' SITE BUFFER
200' UNDISTURBED BUFFER
WOODED
STREAM
HIGH UNDER-BRUSH
EXISTING FENCE
P.O.B.
1/2" RBS W/ GPC CAP N1238318.965 E2023467.798 (STATE PLANE)
1/2" RBS W/ GPC CAP N1239889.313 E2029006.913 (STATE PLANE)
N59°00'52"W Lc=245.46' A=245.57' R=2395.17'
314.10' N62°41'53"W
245.81' N64°33'49"W
N67°03'05"W 142.85'
N74°13'33"W Lc=394.11' A=394.51' R=2527.16'
274.26' N78°34'51"W
N65°15'20"W Lc=524.93' A=529.30' R=1188.49'
N51°58'56"W 125.22'
383.32' N50°40'14"W
PERMITTED SITE BOUNDARY N66°23'16"W Lc=432.26' A=437.31' R=829.03'
N66°23'16"W Lc=432.26' A=437.31' R=829.03'
189.71' N80°31'15"W
711.92' N81°27'43"W
GPC P/L
P/L
HOLLINGSWORTH FERRY ROAD
N78°14'05"W 127.36'
N57°03'50"W Lc=654.90' A=668.76' R=945.26'
348.05' N38°48'40"W
N42°13'41"W 81.47'
N62°39'53"W Lc=514.59' A=524.49' R=776.97'
689.45' S62°00'23"W
556.40' S43°39'47"W
S26°59'16"W 191.63'
N79°35'09"W 157.16'
S64°36'49"W 195.26'
S78°41'39"W 152.93'
513.71' S42°43'05"W
S86°11'49"W 209.33'
S27°42'24"W 213.87'
S40°16'59"E 1070.77'
S33°34'32"E 708.39'
S34°10'52"E 591.79'
S32°08'41"E 595.03'
1/2" RBS W/ GPC CAP
1/2" RBS ALONG THE SOUTHERLY PROPERTY LINE
INV. EL.=670.3
INV. EL.=671.2
INV. EL.=669.1
INV. EL.=670.7
INV. EL.=671.4
84"CMP'S
HOLLINGSWORTH CEMETERY
PLANT WANSLEY
SITE
GA. POWER RD.
HOLLINGSWORTH FERRY RD.
S. BRIDGE RD.
FIVE NOTCH RD.
HEARD CO.
COWETA CO.
CHATTAHOOCHEE RIVER
LOCATION MAP
GRAPHIC SCALE
200
0
100
200
400
800
(IN FEET)
1 inch = 200 ft.

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

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

Point	North	East	Elev	Name
50	1239344.75	2026847.42	770.03	N&C
51	1239409.23	2027081.48	778.48	N&C
52	1239270.08	2026590.84	779.23	N&C
55	1238404.79	2023545.79	855.20	N&C
56	1238364.32	2023312.79	840.33	N&C
57	1239487.13	2027355.49	741.23	N&C
58	1239553.09	2027587.59	771.95	N&C
59	1239596.47	2027739.12	780.58	N&C
60	1239689.18	2028065.12	757.79	N&C
61	1239754.67	2028297.74	742.53	N&C
62	1239832.77	2028574.67	736.02	N&C
65	1238497.78	2023869.73	847.48	N&C
66	1238614.34	2024276.92	811.32	N&C
67	1238132.56	2023677.25	851.99	N&C
68	1237846.25	2024263.88	821.85	N&C
69	1239897.25	2028808.63	729.01	N&C
200	1237649.70	2024980.48	807.83	N&C
202	1236268.87	2027908.23	760.36	N&C
204	1235909.46	2029075.45	735.36	N&C
206	1236952.32	2030297.62	716.25	N&C

STATE PLANE COORDINATES, GEORGIA WEST ZONE, NAD83

CERTIFICATION:

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

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

NOTES:

1. TOPOGRAPHIC SURVEY COMPLETED SEPTEMBER 29, 2006.
2. HORIZONTAL AND VERTICAL CONTROL PROVIDED BY GEORGIA POWER COMPANY LAND DEPARTMENT.
3. △2 EXISTING WETLAND AND STREAM INFORMATION PROVIDED BY ECOLOGICAL SOLUTIONS, INC. IN A SURVEY FILE ENTITLED "ENVIRONMENTAL SURVEY FINDINGS" DATED: APRIL 2022. THE FEATURES DEPICTED ARE NOT CONSIDERED FORMALLY VERIFIED UNTIL APPROVED IN WRITING BY THE U.S. ARMY CORPS OF ENGINEERS (USACE).

LEGEND:

PLAT ABBREVIATIONS

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

MONUMENTATION LEGEND

⊙	Depicts Iron Pin Set
◎	Depicts Iron Pin Found
⊡	Depicts Monument Set
▣	Depicts Monument Found
△	Depicts Unmonumented Point on Top of Bank
⊕	Survey Control Monument, Construction

UTILITY LEGEND

TOWER ⊠	Powerline Tower
PP Ø	Power Pole

LINE LEGEND

▬ ▪ ▪ ▬	Property Line
▬ · ▬	Site Boundary
▬ ▬ ▬	Buffer Boundary
—x—x—	Fence
— —840— —	Existing Contours
▨	Wetlands
— ··· —	Perennial/Intermittent Streams
——	Ephemeral Streams

△2

REFERENCE DRAWINGS:

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

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 R. BRANT LANE 10/18/24

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12687 GARY H. McWHORTER 10/18/24

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2024.11.04 13:57:41 -05'00'

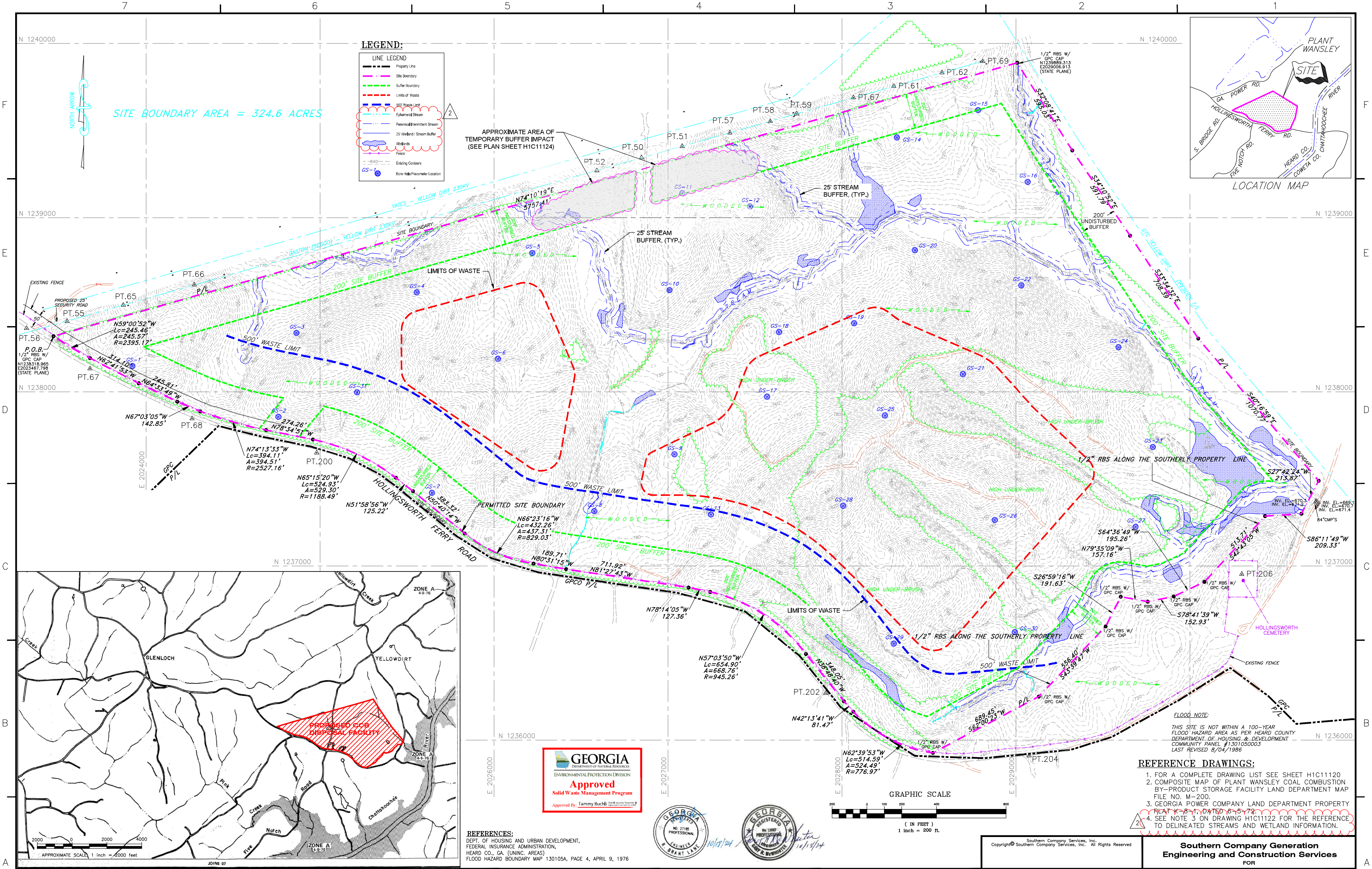
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
2	10-18-2024	UPDATED DELINEATED WETLANDS AND STREAMS. [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
1	8-30-2023	REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010209	**H1C11122**	1	FINAL	2

ANSI F: 40x28 Acad2008


SITE BOUNDARY AREA = 324.6 ACRES
NORTH ARROW
PLANT WANSLEY
SITE
GA. POWER RD.
HOLLINGSWORTH FERRY RD.
S. BRIDGE RD.
FIVE NOTCH RD.
HEARD CO.
COWETA CO.
CHATTAHOOCHEE RIVER
LOCATION MAP
APPROXIMATE AREA OF TEMPORARY BUFFER IMPACT (SEE PLAN SHEET H1C11124)
YATES - YELLOW DIRT 230KV
GASTON - SERODIA - YELLOW DIRT 230KV
SITE BOUNDARY
200' SITE BUFFER
25' STREAM BUFFER, (TYP.)
200' UNDISTURBED BUFFER
LIMITS OF WASTE
500' WASTE LIMIT
PERMITTED SITE BOUNDARY
W O O D E D
HIGH UNDER-BRUSH
STREAM
EXISTING FENCE
PROPOSED 25' SECURITY ROAD
P.O.B.
1/2" RBS W/ GPC CAP N1238318.965 E2023467.798 (STATE PLANE)
1/2" RBS W/ GPC CAP N1239889.313 E2029006.913 (STATE PLANE)
1/2" RBS ALONG THE SOUTHERLY PROPERTY LINE
PT.50
PT.51
PT.52
PT.55
PT.56
PT.57
PT.58
PT.59
PT.61
PT.62
PT.65
PT.66
PT.67
PT.68
PT.69
PT.200
PT.202
PT.204
PT.206
N74°10'19"E 5757.41'
S32°08'41"E 595.03'
S34°10'52"E 591.79'
S33°31'32"E 708.39'
S40°16'59"E 1070.77'
S27°42'24"W 213.87'
S86°11'49"W 209.33'
S42°43'05"W 513.71'
S64°36'49"W 195.26'
N79°35'09"W 157.16'
S26°59'16"W 191.63'
S78°41'39"W 152.93'
S43°39'47"W 556.40'
S62°00'23"W 689.45'
N62°39'53"W Lc=514.59' A=524.49' R=776.97'
N42°13'41"W 81.47'
N36°48'40"W 348.05'
N57°03'50"W Lc=654.90' A=668.76' R=945.26'
N78°14'05"W 127.36'
N81°27'43"W 711.92'
N80°31'15"W 189.71'
N66°23'16"W Lc=432.26' A=437.31' R=829.03'
N50°40'14"W 383.32'
N51°58'56"W 125.22'
N65°15'20"W Lc=524.93' A=529.30' R=1188.49'
N74°13'33"W Lc=394.11' A=394.51' R=2527.16'
N78°34'51"W 274.26'
N64°33'49"W 245.81'
N62°41'53"W 314.10'
N59°00'52"W Lc=245.46' A=245.57' R=2395.17'
N67°03'05"W 142.85'
HOLLINGSWORTH FERRY ROAD
GPCO P/L
GPC P/L
INV. EL.=670.3 INV. EL.=670.7 INV. EL.=671.4
84"CMP'S
HOLLINGSWORTH CEMETERY
GS-1
GS-2
GS-3
GS-4
GS-5
GS-6
GS-7
GS-8
GS-9
GS-10
GS-11
GS-12
GS-13
GS-14
GS-15
GS-16
GS-17
GS-18
GS-19
GS-20
GS-21
GS-22
GS-23
GS-24
GS-25
GS-26
GS-27
GS-28
GS-29
GS-30
GS-31
N 1240000
N 1239000
N 1238000
N 1237000
N 1236000
E 2024000
E 2026000
E 2027000
E 2028000
E 2029000
GLENLOCH
YELLOWDIRT
Yellowdirt Creek
Creek
Pink Road
Five Notch
Chattahoochee River
ZONE A 4-9-76
ZONE A 4-9-75
PROPOSED CCB DISPOSAL FACILITY
2000 0 2000 4000
APPROXIMATE SCALE: 1 inch = 2000 feet
JOINS 07

LEGEND:

LINE LEGEND

▬ ▪ ▪ ▬	Property Line
▬ · ▬	Site Boundary
- - - -	Buffer Boundary
- - - -	Limits of Waste
▬ ▬ ▬	500' Waste Limit
─ · · ─	Ephemeral Stream
─ · · · ─	Perennial/Intermittent Stream
───	25' Wetland / Stream Buffer
▨	Wetlands
─x─x─	Fence
— 840 —	Existing Contours
GS-1 Ⓦ	Bore Hole/Piezometer Location

2

FLOOD NOTE:

THIS SITE IS NOT WITHIN A 100-YEAR FLOOD HAZARD AREA AS PER HEARD COUNTY DEPARTMENT OF HOUSING & DEVELOPMENT COMMUNITY PANEL #1301050003 LAST REVISED 8/04/1986

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli

REFERENCES:

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

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 R. BRANT LANE
10/18/24

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12687 GARY H. McWHORTER
Gary H McWhorter 10/18/24

REFERENCE DRAWINGS:

1. FOR A COMPLETE DRAWING LIST SEE SHEET H1C11120
2. COMPOSITE MAP OF PLANT WANSLEY COAL COMBUSTION BY-PRODUCT STORAGE FACILITY LAND DEPARTMENT MAP FILE NO. M-200.
3. GEORGIA POWER COMPANY LAND DEPARTMENT PROPERTY ~~PLAT K-8-1, DATED 6-5-72.~~
4. SEE NOTE 3 ON DRAWING H1C11122 FOR THE REFERENCE TO DELINEATED STREAMS AND WETLAND INFORMATION. 2

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
2 UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	10-18-2024	RSW	RBL		☒	☒	☒	☒
1 REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	8-30-2023	RSW	RBL		☒	☒	☒	☒
0 CCR LF PERMIT APPLICATION [BY HHNT, INC.]	09-23-2022	ANR	RBL		☒	☒	☒	☒

Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

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

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010209	H1C11123	1	FINAL	2

ANSI F: 40x28 Acad2008

N
STATE
PLANE
N 1240000
N 1239000
N 1238000
N 1237000
N 1236000
E 2024000
E 2026000
E 2027000
E 2028000
E 2029000
E 2030000
GYPSUM SLURRY LINE STREAM CROSSING #1, (SEE NOTE 2)
8' SECURITY FENCE
PERMITTED SITE BOUNDARY
200' UNDISTURBED BUFFER
200' SITE BUFFER
W O O D E D
GYPSUM SLURRY LINES FROM PLANT, (3–8" DIA. HDPE PIPES IN 18" DIA. HDPE CARRIER PIPES)
GYPSUM SLURRY LINE STREAM CROSSING #2, (SEE NOTE 2)
EMERGENCY SPILLWAY
EXISTING ACCESS ROAD FROM PLANT
ENTRANCE SIGN (SEE DWG. H1C11147)
30' SWING GATE
STREAM RELOCATION AREA; GRADING MAY VARY IN FIELD
25' STREAM BUFFER, (TYP.)
16' WIDE 8' TALL BOTTOMLESS CULVERT
5
EARTHEN BERM, FLOWABLE FILL AND 36" HDPE PIPE TO BE REMOVED UPON TERMINATION OF SLUICING OPERATIONS; DITCH WITH COMPOSITE LINER SHALL BE CONNECTED AND RECONSTRUCTED ONCE BERM AND PIPE ARE REMOVED
BORROW AREA
GYPSUM DRAWOFF BOOSTER PUMPS & ELECTRICAL CONTROL BLDG. TO BE ABANDONED UPON TERMINATION OF SLUICING OPERATIONS
EXISTING RISER, CONCRETE BASE, 36" HDPE PIPE AND MANHOLE TO BE REMOVED UPON TERMINATION OF SLUICING OPERATIONS (SEE RISER SECTION AT CELL 2, DWG. H1C11139)
NORTH ACCESS ROAD (24' AGGREGATE SURFACED)
EXISTING STREAM CROSSING, REPLACE EXISTING 60" DIA. RCP WITH ARCH PLATE CULVERT, 20'X10', (SEE NOTE 2)
YATES – YELLOW DIRT 230 KV
GASTON (SEGCO) – YELLOW DIRT 230 KV
8' SECURITY FENCE
EXISTING RISER, CONCRETE BASE, AND 36" HDPE PIPE TO BE REMOVED WITHIN EXISTING LIMITS OF CELL 3 LINER UPON TERMINATION OF SLUICING OPERATIONS (SEE NOTE NO. 11); REMAINING PIPE TO BE FILLED W/ FLOWABLE FILL AND ABANDONED IN PLACE (SEE DWG. H1C11140)
LIMITS OF WASTE
30' SWING GATE
500' WASTE LIMIT
CELL 3
UNDERDRAIN REQUIRED (SEE NOTE 7)
UNDERDRAIN LIMIT N 1238046 E 2025677
8' SECURITY FENCE SEE NOTE 6
ENTRANCE SIGN (SEE DWG. H1C11147)
50' DOUBLE SLIDE GATE
GPC
FINAL GRADE CONTOURS ARE TOP OF 24" CLAY/SILT LAYER, SEE NOTE 8
HOLLINGSWORTH FERRY ROAD
GS-1
GS-2
GS-3
GS-5
GS-6
GS-7
GS-8
GS-9
GS-10
GS-11
GS-14
GS-15
GS-16
GS-17
GS-19
GS-21
GS-22
GS-24
GS-25
GS-26
GS-27
GS-28
GS-30
GS-31
FINAL GRADE CONTOURS ARE TOP OF 6" CLAY/SILT LAYER, IN PONDS, SEE NOTE 8
6' SECURITY FENCE AROUND PONDS
UNDERDRAIN LIMIT N 1238659 E 2029123
UNDERDRAIN REQUIRED (SEE NOTE 7)
NORTH SEDIMENTATION POND
RETURN WATER LINE STREAM CROSSING, (SEE NOTE 2)
RETURN WATER LINES (2– 16" DIA. HDPE PIPES IN 30" DIA. HDPE CARRIER PIPES)
ELECTRICAL CONTROL BLDG.
RETURN WATER PUMP
8' SECURITY FENCE
CLEAR POND
PROPOSED CELL 2 LEACHATE SUMP TO BE INSTALLED UPON TERMINATION OF SLUICING OPERATIONS (SEE DWG. H1C11155B)
UNDERDRAIN REQUIRED (SEE NOTE 7)
CELL 2
FINAL GRADE CONTOURS ARE TOP OF 6" CLAY/SILT LAYER IN PONDS, SEE NOTE 8
UNDERDRAIN LIMIT N 1237939 E 2028530
UNDERDRAIN LIMIT N 1238029 E 2027970
20' DOUBLE SWING GATE
SOUTH SEDIMENTATION POND
EMERGENCY SPILLWAY
UNDERDRAIN REQUIRED (SEE NOTE 7)
UNDERDRAIN REQUIRED (SEE NOTE 7)
UNDERDRAIN REQUIRED (SEE NOTE 7)
EARTHEN BERM, FLOWABLE FILL AND 36" HDPE PIPE TO BE REMOVED UPON TERMINATION OF SLUICING OPERATIONS; DITCH WITH COMPOSITE LINER SHALL BE CONNECTED AND RECONSTRUCTED ONCE BERM AND PIPE ARE REMOVED
5
6' SECURITY FENCE AROUND PONDS
20' DOUBLE SWING GATE
84" CMP'S (EXISTING)
PERMITTED SITE BOUNDARY
UNDERDRAIN LIMIT N 1237446 E 2028355
CELL 1
CELL 1
PROPOSED CELL 1 LEACHATE SUMP TO BE INSTALLED UPON TERMINATION OF SLUICING OPERATIONS (SEE DWG. H1C11155B)
GYPSUM SLURRY LINES FROM BOOSTER PUMPS TO CELLS (3–10" DIA. HDPE PIPES) BE REMOVED UPON THE TERMINATION OF SLUICING OPERATIONS (SEE NOTE NO. 10)
5
EXISTING RISER, CONCRETE BASE, 36" HDPE PIPE AND MANHOLE TO BE REMOVED UPON TERMINATION OF SLUICING OPERATIONS (SEE RISER SECTION AT CELL 1, DWG. H1C11138)
HOLLINGSWORTH CEMETERY
LIMITS OF WASTE
UNDERDRAIN REQUIRED (SEE NOTE 7)
8' SECURITY FENCE
ENTRANCE SIGN (SEE DWG. H1C11147)
30' SWING GATE
8' SECURITY FENCE
SURVEY CONTROL MONUMENT N 1236820.00 E 2027980.00 EL. (TO BE SET), FOR DETAIL, SEE DWG. H1C11147
DRAINAGE CHANNEL
500' WASTE LIMIT
200' UNDISTURBED BUFFER
8' SECURITY FENCE
FINAL GRADE CONTOURS ARE TOP OF 24" CLAY/SILT LAYER, SEE NOTE 8
W O O D E D
GPC

LEGEND:

- PROPERTY LINE
- SITE BOUNDARY
- 200' SITE BUFFER
- 500' WASTE LIMIT
- PERENNIAL/INTERMITTENT STREAMS
- EPHEMERAL STREAMS
- 25' STREAM BUFFER
- ▨ WETLANDS
- UNDERDRAIN
- 700 EXISTING GROUND CONTOURS
- 700 FINAL GRADE CONTOURS
- LIMITS OF WASTE
- EXISTING FENCE
- PROPOSED 8' SECURITY FENCE

NOTES:

1. ALL SURFACE WATER CONTAINMENT STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. SEE NOTE 3 ON DRAWING H1C11122 FOR THE REFERENCE TO DELINEATED STREAMS AND WETLAND INFORMATION.
3. ANY IMPACT TO JURISDICTIONAL STREAMS, WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES ARMY CORP OF ENGINEERS (COE) APPROVAL, AND GEORGIA EPD 401 WATER QUALITY CERTIFICATION AND A GA EPD STREAM BUFFER VARIANCE. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN THE COE PERMIT IS APPROVED.
4. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
5. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
6. THE SEDIMENTATION AND RETURN WATER PONDS HAVE BEEN DESIGNED TO RETAIN STORM WATER RUNOFF FROM A 100 YEAR/24 HOUR EVENT IN ADDITION TO HOLDING APPROXIMATELY 3 DAYS OF RETURN WATER STORAGE IN THE EVENT OF PUMP/RETURN WATER LINE FAILURE.
7. CONSTRUCT SECURITY FENCE (8' HEIGHT) ALONG SITE BOUNDARY AS SHOWN. REPLACE EXISTING FENCE ALONG HOLLINGSWORTH FERRY ROAD WITH NEW FENCE AND RESET AT SAME APPROXIMATE LOCATION/OFFSET (40'+/–) FROM HOLLINGSWORTH FERRY ROAD. WHERE FENCE IS SHOWN TO BE ALONG PERMITTED SITE BOUNDARY, THE FENCE SHALL BE LOCATED APPROXIMATELY 3' INSIDE OF BOUNDARY.
8. UNDERDRAINS ARE TO BE INSTALLED IN EXISTING CREEKS, STREAMBEDS, OR WETLANDS IMPACTED BY DISPOSAL FACILITY. SEE DRAWING H1C11147 FOR UNDERDRAIN DETAILS.
9. FINAL GRADE CONTOURS SHOWN IN CELLS, PERIMETER DITCHES, AND PONDS ARE TOP OF CLAY\SILT LAYER. FINAL GRADE CONTOURS SHOWN AT ALL OTHER LOCATIONS ARE TOP OF FINISHED SURFACE.
10. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.
11. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF–SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.
12. BORING LOCATIONS AND VICINITY WILL BE RESTORED TO A NATURAL STATE FOLLOWING COMPLETION OF THE BORINGS.

REFERENCE DRAWINGS:

H1C11120 TITLE SHEET AND DRAWING INDEX

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2025.10.27 08:45:43 -04'00'

NO. 27185
R. BRANT LANE
10/21/25

No. 12687
GARY H. McWHORTER
10/21/25

Southern Company Services, Inc.

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
5	10-21-2025	COMPLETE REMOVAL OF 36" HDPE PIPE, MANHOLE AND BERM, RECONSTRUCTION OF DITCH; REMOVED RETAINING WALL [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
4	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM AND UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
3	05-03-2024	STREAM RELOCATION GRADING MODIFICATION TO INCLUDE RETAINING WALL [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
2	01-08-2024	ADDED CELL 1 & 2 LEACHATE SUMPS AND CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
1	10-10-2023	REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

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

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=200'	**H1C11124**	1	FINAL	5

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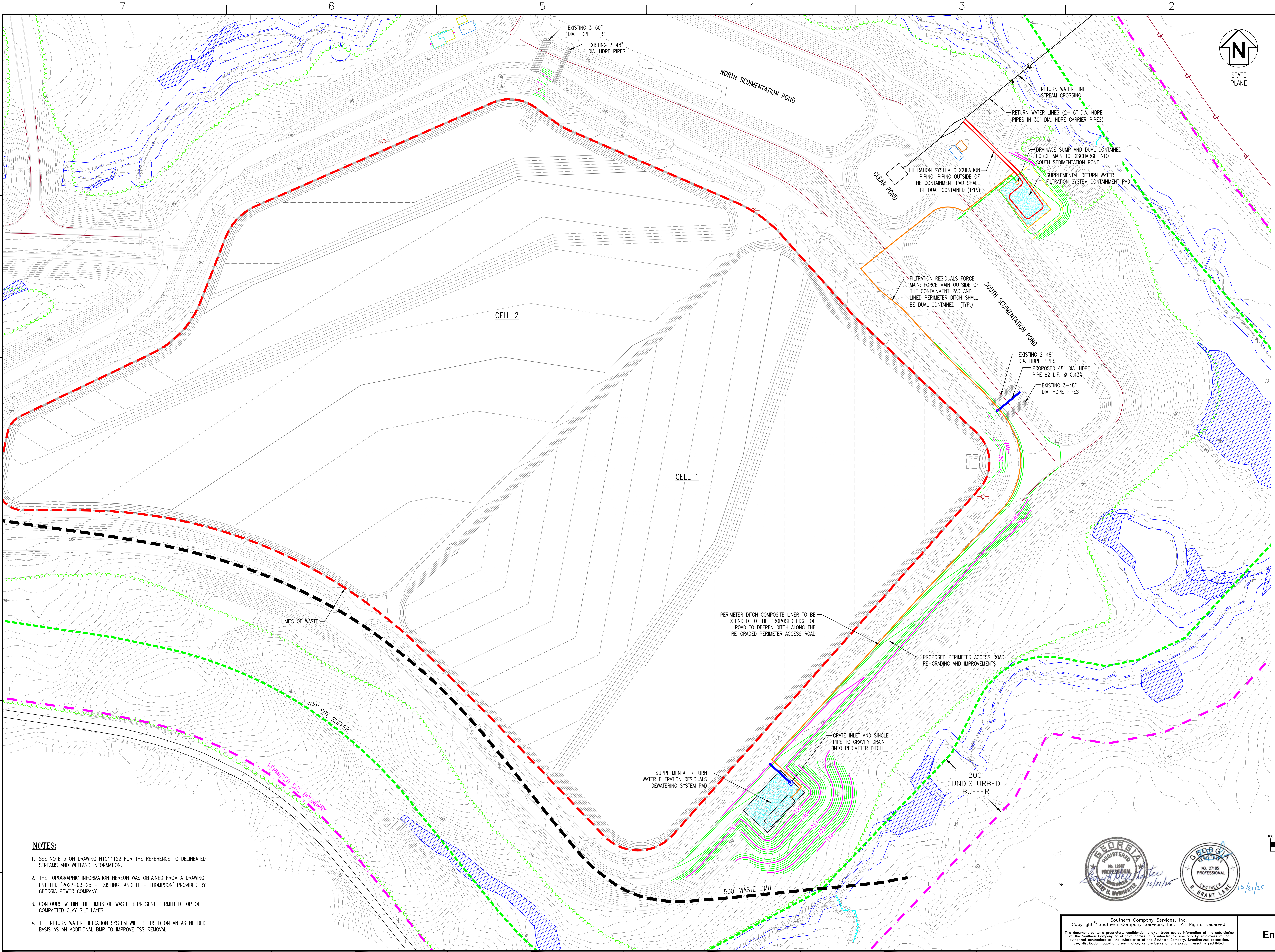

EXISTING 3–60" DIA. HDPE PIPES

EXISTING 2–48" DIA. HDPE PIPES

RETURN WATER LINE STREAM CROSSING

RETURN WATER LINES (2–16" DIA. HDPE PIPES IN 30" DIA. HDPE CARRIER PIPES)

DRAINAGE SUMP AND DUAL CONTAINED FORCE MAIN TO DISCHARGE INTO SOUTH SEDIMENTATION POND

FILTRATION SYSTEM CIRCULATION PIPING; PIPING OUTSIDE OF THE CONTAINMENT PAD SHALL BE DUAL CONTAINED (TYP.)

SUPPLEMENTAL RETURN WATER FILTRATION SYSTEM CONTAINMENT PAD

FILTRATION RESIDUALS FORCE MAIN; FORCE MAIN OUTSIDE OF THE CONTAINMENT PAD AND LINED PERIMETER DITCH SHALL BE DUAL CONTAINED (TYP.)

EXISTING 2–48" DIA. HDPE PIPES

PROPOSED 48" DIA. HDPE PIPE 82 L.F. @ 0.43%

EXISTING 3–48" DIA. HDPE PIPES

PERIMETER DITCH COMPOSITE LINER TO BE EXTENDED TO THE PROPOSED EDGE OF ROAD TO DEEPEN DITCH ALONG THE RE–GRADED PERIMETER ACCESS ROAD

PROPOSED PERIMETER ACCESS ROAD RE–GRADING AND IMPROVEMENTS

GRATE INLET AND SINGLE PIPE TO GRAVITY DRAIN INTO PERIMETER DITCH

SUPPLEMENTAL RETURN WATER FILTRATION RESIDUALS DEWATERING SYSTEM PAD

LEGEND:

- SITE BOUNDARY
- 200' SITE BUFFER
- 500' WASTE LIMIT
- PERENNIAL/INTERMITTENT STREAMS
- EPHEMERAL STREAMS
- 25' STREAM BUFFER
- WETLANDS
- LIMITS OF WASTE
- 700 EXISTING GROUND CONTOURS
- 700 FINAL GRADE CONTOURS
- TREELINE

NOTES:

1. SEE NOTE 3 ON DRAWING H1C11122 FOR THE REFERENCE TO DELINEATED STREAMS AND WETLAND INFORMATION.
2. THE TOPOGRAPHIC INFORMATION HEREON WAS OBTAINED FROM A DRAWING ENTITLED "2022–03–25 – EXISTING LANDFILL – THOMPSON' PROVIDED BY GEORGIA POWER COMPANY.
3. CONTOURS WITHIN THE LIMITS OF WASTE REPRESENT PERMITTED TOP OF COMPACTED CLAY SILT LAYER.
4. THE RETURN WATER FILTRATION SYSTEM WILL BE USED ON AN AS NEEDED BASIS AS AN ADDITIONAL BMP TO IMPROVE TSS REMOVAL.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli
Digitally signed by Tammy Buchli
Date: 2025.10.27 08:45:43 -04'00'

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

No. 12687
GARY H. McWHORTER
Gary H McWhorter 10/21/25

NO. 27185
R. BRANT LANE
10/21/25

Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
GENERAL SITE DEVELOPMENT
STORMWATER IMPROVEMENTS AND
SUPPLEMENTAL FILTRATION SYSTEM

REVISION	DATE

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

REVISION	DATE

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

REVISION	DATE

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

REVISION	DATE

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

REVISION	DATE

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

REVISION	DATE

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

REVISION 0	DATE 10–21–2025
INCLUDE STORMWATER IMPROVEMENTS AND SUPPLEMENTAL RETURN WATER FILTRATION SYSTEM [BY HHNT, INC.]	

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

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	**H1C11124A**	1	FINAL	0

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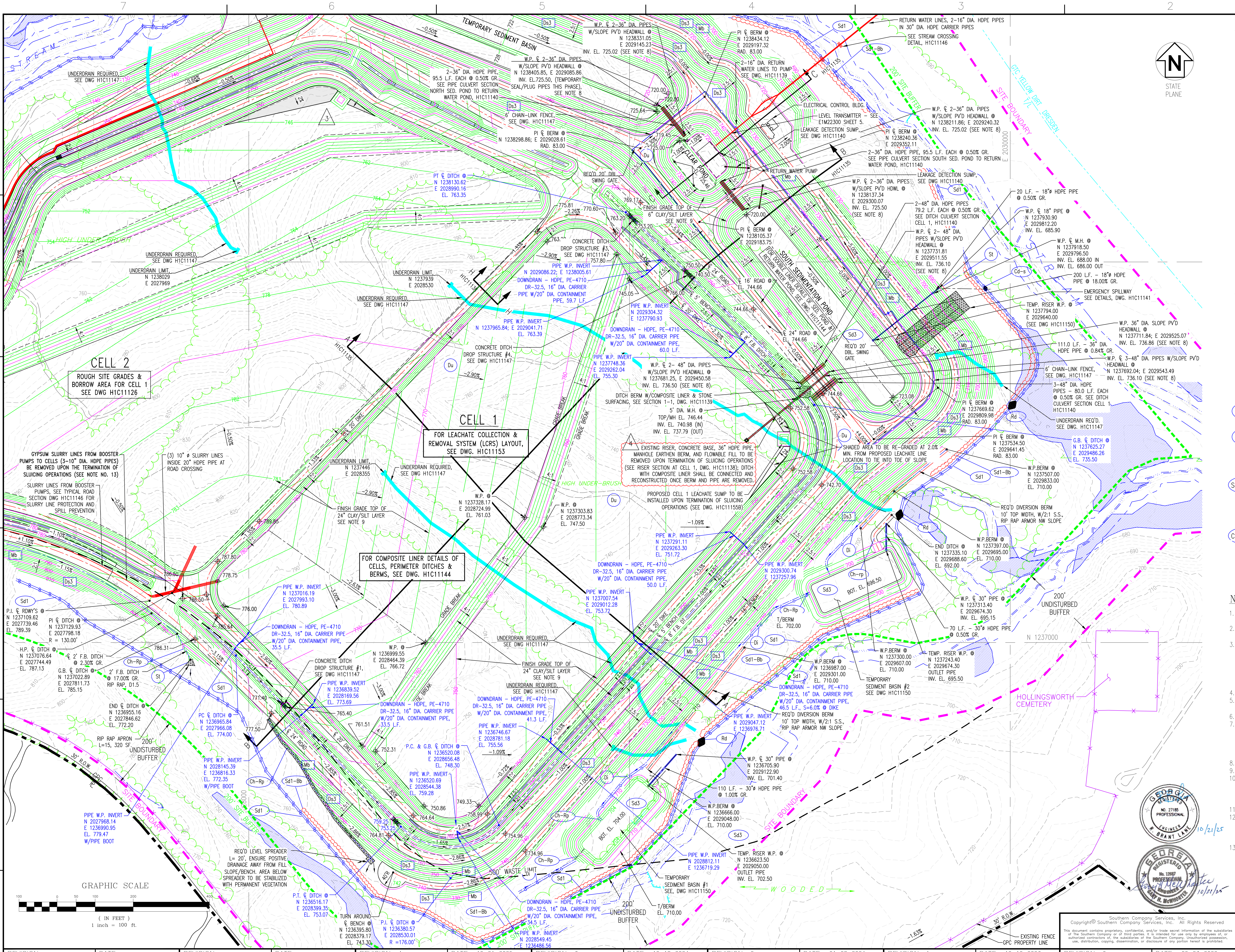
TEMPORARY SEDIMENT BASIN
S T R E A M
UNDERDRAIN REQUIRED, SEE DWG H1C11147
-0.68%
-0.50%
746
748
752
754
762
764
778
HIGH UNDER-BRUSH
UNDERDRAIN REQUIRED, SEE DWG H1C11147
UNDERDRAIN LIMIT, N 1238029 E 2027969
UNDERDRAIN LIMIT, N 1237939 E 2028530
2-36" DIA. HDPE PIPE, 95.5 L.F. EACH @ 0.50% GR. SEE PIPE CULVERT SECTION NORTH SED. POND TO RETURN WATER POND, H1C11140
W.P. ℄ 2-36" DIA. PIPES W/SLOPE PV'D HEADWALL @ N 1238331.05 E 2029145.23 INV. EL. 725.02 (SEE NOTE 8)
W.P. ℄ 2-36" DIA. PIPES W/SLOPE PV'D HEADWALL @ N 1238405.85, E 2029085.86 INV. EL.725.50, (TEMPORARY SEAL/PLUG PIPES THIS PHASE), SEE NOTE 8
6' CHAIN-LINK FENCE, SEE DWG. H1C11147
PI ℄ BERM @ N 1238298.86; E 2029028.61 RAD. 83.00
PT ℄ DITCH @ N 1238130.62 E 2028990.16 EL. 763.35
REQ'D 20' DBL. SWING GATE
PI ℄ BERM @ N 1238434.12 E 2029197.32 RAD. 83.00
2-16" DIA. RETURN WATER LINES TO PUMP SEE DWG. H1C11139
CLEAR POND EL. 725.46
ELECTRICAL CONTROL BLDG.
LEVEL TRANSMITTER - SEE E1M22300 SHEET 5.
LEAKAGE DETECTION SUMP, SEE DWG H1C11140
RETURN WATER PUMP
FINISH GRADE TOP OF 6" CLAY/SILT LAYER SEE NOTE 9
PI ℄ BERM @ N 1238105.37 E 2029183.75
SOUTH SEDIMENTATION POND
FOR DOUBLE LINER DETAILS OF SED. POND & RETURN WATER POND, SEE DWG. H1C11144
CONCRETE DITCH DROP STRUCTURE #3, SEE DWG H1C11147
PIPE W.P. INVERT N 2029086.22; E 1238005.61
DOWNDRAIN - HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 59.7 L.F.
PIPE W.P. INVERT N 1237965.84; E 2029041.71 EL. 763.39
CONCRETE DITCH DROP STRUCTURE #4, SEE DWG H1C11147
℄ 24' ROAD
℄ 16' ROAD @ EL. 744.66
℄ 24" ROAD @ EL. 744.66
℄ 5' BENCH
℄ 20' DIKE
℄ 8' F.B. DITCH
PIPE W.P. INVERT N 2029304.32 E 1237790.93
DOWNDRAIN - HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 60.0 L.F.
PIPE W.P. INVERT N 1237748.36 E 2029262.04 EL. 755.30
W.P. ℄ 2- 48" DIA. PIPES W/SLOPE PV'D HEADWALL @ N 1237681.25, E 2029450.58 INV. EL. 736.50 (SEE NOTE 8)
DITCH BERM W/COMPOSITE LINER & STONE SURFACING, SEE SECTION 1-1, DWG. H1C11139
5' DIA. M.H. @ TOP/MH EL. 746.44 INV. EL. 740.98 (IN) INV. EL. 737.79 (OUT)
EXISTING RISER, CONCRETE BASE, 36" HDPE PIPE, MANHOLE EARTHEN BERM, AND FLOWABLE FILL TO BE REMOVED UPON TERMINATION OF SLUICING OPERATIONS (SEE RISER SECTION AT CELL 1, DWG. H1C11138); DITCH WITH COMPOSITE LINER SHALL BE CONNECTED AND RECONSTRUCTED ONCE BERM AND PIPE ARE REMOVED.
4
3
PROPOSED CELL 1 LEACHATE SUMP TO BE INSTALLED UPON TERMINATION OF SLUICING OPERATIONS (SEE DWG. H1C11155B)
RETURN WATER LINES, 2-16" DIA. HDPE PIPES IN 30" DIA. HDPE CARRIER PIPES
SEE STREAM CROSSING DETAIL, H1C11146
200' SITE BUFFER
SITE BOUNDARY
GTC YELLOW DIRT T/L DRESDEN
E 2030000
STATE PLANE
N
W.P. ℄ 2-36" DIA. PIPES W/SLOPE PV'D HEADWALL @ N 1238211.86; E 2029240.32 INV. EL. 725.02 (SEE NOTE 8)
PI ℄ BERM @ N 1238240.36 E 2029352.11
2-36" DIA. HDPE PIPE, 95.5 L.F. EACH @ 0.50% GR. SEE PIPE CULVERT SECTION SOUTH SED. POND TO RETURN WATER POND, H1C11140
LEAKAGE DETECTION SUMP, SEE DWG H1C11140
W.P. ℄ 2-36" DIA. PIPES W/SLOPE PV'D HDWL @ N 1238137.34 E 2029300.07 INV. EL. 725.50 (SEE NOTE 8)
2-48" DIA. HDPE PIPES 79.2 L.F. EACH @ 0.50% GR. SEE DITCH CULVERT SECTION CELL 1, H1C11140
W.P. ℄ 2- 48" DIA. PIPES W/SLOPE PV'D HEADWALL @ N 1237731.81 E 2029511.55 INV. EL. 736.10 (SEE NOTE 8)
20 L.F. - 18"ø HDPE PIPE @ 0.50% GR.
W.P. ℄ 18" PIPE @ N 1237930.90 E 2029812.20 INV. EL. 685.90
W.P. ℄ M.H. @ N 1237918.50 E 2029796.50 INV. EL. 688.00 IN INV. EL. 686.00 OUT
200 L.F. - 18"ø HDPE PIPE @ 18.00% GR.
EMERGENCY SPILLWAY SEE DETAILS, DWG. H1C11141
TEMP. RISER W.P. @ N 1237794.00 E 2029640.00 (SEE DWG H1C11150)
W.P. 36" DIA. SLOPE PV'D HEADWALL @ N 1237711.84; E 2029525.07 INV. EL. 736.86 (SEE NOTE 8)
111.0 L.F. - 36" DIA. HDPE PIPE @ 0.84% GR.
W.P. ℄ 3-48" DIA. PIPES W/SLOPE PV'D HEADWALL @ N 1237692.04; E 2029543.49 INV. EL. 736.10 (SEE NOTE 8)
6' CHAIN-LINK FENCE, SEE DWG. H1C11147
3-48" DIA. HDPE PIPES - 80.0 L.F. EACH @ 0.50% GR. SEE DITCH CULVERT SECTION CELL 1, H1C11140
UNDERDRAIN REQ'D. SEE DWG. H1C11147
REQ'D 20' DBL. SWING GATE
PI ℄ BERM @ N 1237669.62 E 2029809.98 RAD. 83.00
PI ℄ BERM @ N 1237534.50 E 2029641.45 RAD. 83.00
G.B. ℄ DITCH @ N 1237625.27 E 2029486.26 EL. 735.50
SHADED AREA TO BE RE-GRADED AT 2.0% MIN. FROM PROPOSED LEACHATE LINE LOCATION TO TIE INTO TOE OF SLOPE
W.P.BERM @ N 1237507.00 E 2029833.00 EL. 710.00
REQ'D DIVERSION BERM 10' TOP WIDTH, W/2:1 S.S., RIP RAP ARMOR NW SLOPE
END DITCH @ N 1237335.10 E 2029688.60 EL. 692.00
W.P.BERM @ N 1237397.00 E 2029695.00 EL. 710.00
BOT. EL. 696.50
W.P. ℄ 30" PIPE @ N 1237313.40 E 2029674.30 INV. EL. 695.15
70 L.F. - 30"ø HDPE PIPE @ 0.50% GR.
200' UNDISTURBED BUFFER
N 1237000
HOLLINGSWORTH CEMETERY
W.P.BERM @ N 1237300.00 E 2029607.00 EL. 710.00
TEMP. RISER W.P. @ N 1237243.40 E 2029674.30 OUTLET PIPE INV. EL. 695.50
TEMPORARY SEDIMENT BASIN #2 SEE DWG H1C11150
W.P.BERM @ N 1236987.00 E 2029301.00 EL. 710.00
DOWNDRAIN - HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 46.5 L.F., S=6.0% @ DIKE
REQ'D DIVERSION BERM 10' TOP WIDTH, W/2:1 S.S., RIP RAP ARMOR NW SLOPE
PIPE W.P. INVERT N 2029047.12 E 1236976.71
T/BERM EL. 702.00
CELL 2
ROUGH SITE GRADES & BORROW AREA FOR CELL 1 SEE DWG H1C11126
CELL 1
FOR LEACHATE COLLECTION & REMOVAL SYSTEM (LCRS) LAYOUT, SEE DWG. H1C11153
FOR COMPOSITE LINER DETAILS OF CELLS, PERIMETER DITCHES & BERMS, SEE DWG. H1C11144
GYPSUM SLURRY LINES FROM BOOSTER PUMPS TO CELLS (3-10" DIA. HDPE PIPES) BE REMOVED UPON THE TERMINATION OF SLUICING OPERATIONS (SEE NOTE NO. 13)
(3) 10" ø SLURRY LINES INSIDE 20" HDPE PIPE AT ROAD CROSSING
SLURRY LINES FROM BOOSTER PUMPS, SEE TYPICAL ROAD SECTION DWG H1C11146 FOR SLURRY LINE PROTECTION AND SPILL PREVENTION
UNDERDRAIN LIMIT, N 1237446 E 2028355
UNDERDRAIN REQUIRED, SEE DWG H1C11147
FINISH GRADE TOP OF 24" CLAY/SILT LAYER SEE NOTE 9
W.P. @ N 1237328.17 E 2028724.99 EL. 761.03
W.P. @ N 1237303.83 E 2028773.34 EL. 747.50
GRADE BREAK
HIGH UNDER-BRUSH
PIPE W.P. INVERT N 1237291.11 E 2029263.30 EL. 751.72
DOWNDRAIN - HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 50.0 L.F.
PIPE W.P. INVERT N 2029300.74 E 1237257.96
PIPE W.P. INVERT N 1237007.54 E 2029012.28 EL. 753.72
PIPE W.P. INVERT N 1237016.19 E 2027993.10 EL. 780.89
DOWNDRAIN - HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 35.5 L.F.
P.I. ℄ RDWY'S @ N 1237109.62 E 2027739.46 EL. 789.39
PI ℄ DITCH @ N 1237129.93 E 2027798.18 R = 130.00'
H.P. ℄ DITCH @ N 1237076.64 E 2027744.49 EL. 787.13
℄ 2' F.B. DITCH @ 2.30% GR.
G.B. ℄ DITCH @ N 1237022.89 E 2027811.73 EL. 785.15
2' F.B. DITCH @ 17.00% GR. RIP RAP, D1.5
END ℄ DITCH @ N 1236955.16 E 2027846.62 EL. 772.20
RIP RAP APRON L=15, 320 SF.
200' UNDISTURBED BUFFER
30' R.O.W. GPC
PC ℄ DITCH @ N 1236965.84 E 2027966.08 EL. 774.00
PIPE W.P. INVERT N 2028145.39 E 1236816.33 EL. 772.35 W/PIPE BOOT
PIPE W.P. INVERT N 2027968.14 E 1236990.95 EL. 779.47 W/PIPE BOOT
CONCRETE DITCH DROP STRUCTURE #1, SEE DWG H1C11147
W.P. @ N 1236999.55 E 2028464.39 EL. 766.72
PIPE W.P. INVERT N 1236839.52 E 2028169.56 EL. 773.69
DOWNDRAIN - HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 33.5 L.F.
P.C. & G.B. ℄ DITCH @ N 1236520.08 E 2028656.48 EL. 748.30
PIPE W.P. INVERT N 1236520.69 E 2028544.38 EL. 759.28
DOWNDRAIN - HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 41.3 L.F.
PIPE W.P. INVERT N 1236746.67 E 2028781.18 EL. 755.56
REQ'D LEVEL SPREADER L= 20', ENSURE POSITIVE DRAINAGE AWAY FROM FILL SLOPE/BENCH. AREA BELOW SPREADER TO BE STABILIZED WITH PERMANENT VEGETATION
P.T. ℄ DITCH @ N 1236516.17 E 2028399.35 EL. 753.07
TURN AROUND ℄ BENCH @ N 1236395.80 E 2028379.17 EL. 743.30
P.I. ℄ DITCH @ N 1236380.57 E 2028530.01 R =176.00'
PIPE W.P. INVERT N 2028549.45 E 1236486.56
DOWNDRAIN - HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 34.5 L.F.
500' WASTE LIMIT
BOT. EL. 704.00
W.P. ℄ 30" PIPE @ N 1236705.90 E 2029122.90 INV. EL. 701.40
110 L.F. - 30"ø HDPE PIPE @ 1.00% GR.
W.P.BERM @ N 1236666.00 E 2029048.00 EL. 710.00
PIPE W.P. INVERT N 2028812.11 E 1236719.29
TEMP. RISER W.P. @ N 1236623.50 E 2029050.00 OUTLET PIPE INV. EL. 702.50
TEMPORARY SEDIMENT BASIN #1 SEE, DWG H1C11150
T/BERM EL. 710.00
200' UNDISTURBED BUFFER
SITE BOUNDARY
W O O D E D
30' R.O.W.
EXISTING FENCE
GPC PROPERTY LINE
H1C11135
H1C11138
A
B
C
GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

Southern Company Services, Inc.

R. BRANT LANE NO. 27185 PROFESSIONAL ENGINEER 10/21/25

GARY H. McWHORTER No. 12687 PROFESSIONAL ENGINEER Gary H McWhorter 10/21/25

LEGEND:

- PROPERTY LINE
- SITE BOUNDARY
- 200' SITE BUFFER
- 500' WASTE LIMIT
- PERENNIAL/INTERMITTENT STREAMS
- EPHEMERAL STREAMS
- 25' STREAM BUFFER
- WETLANDS
- LIMITS OF CLEARING (SECURITY ROAD)
- UNDERDRAIN EXTENTS (APPROXIMATE)
- EXISTING GROUND CONTOURS (700)
- FINAL GRADE CONTOURS (700)
- EXISTING SECURITY FENCE
- PROPOSED SECURITY FENCE
- XXX.XX SPOT ELEVATIONS
- TREELINE

EROSION CONTROL LEGEND

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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2025.10.27 08:45:43 -04'00'

NOTES:

1. ALL SURFACE WATER CONTAINMENT STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. SEE NOTE 3 ON DRAWING H1C11122 FOR THE REFERENCE TO DELINEATED STREAMS AND WETLAND INFORMATION.
3. ANY IMPACT TO JURISDICTIONAL STREAMS, WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES ARMY CORP OF ENGINEERS (COE) APPROVAL, AND GEORGIA EPD 401 WATER QUALITY CERTIFICATION AND A GA EPD STREAM BUFFER VARIANCE. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN THE COE PERMIT IS APPROVED.
4. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
5. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
6. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
7. SEE DRAWING H1C11143 FOR DETAILS OF DECANT RISER STRUCTURE. UPON THE FILLING/STACKING OF GYPSUM TO LIMITS OF RISER, THE STRUCTURE SHALL BE FILLED WITH CONCRETE, ABANDONED AND REPLACED WITH A SIPHON DISCHARGE STRUCTURE. SEE GENERAL GYPSUM STACKING AND OPERATION PLAN, DWG H1C11142.
8. FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11146.
9. SEE DRAWING H1C11145 FOR TYPICAL HEADWALL DETAILS AND SECTIONS.
10. BASE GRADE ELEVATIONS SHOWN FOR THE CELLS AND POND BOTTOMS REPRESENT TOP OF CLAY/SILT LAYER. ADDITIONAL SAND OR SOIL/MARKER BED MATERIAL WILL BE REQUIRED ABOVE THIS SURFACE. SEE CELL AND POND COMPOSITE LINER DETAILS, DRAWING H1C11144.
11. REFER TO SHEET H1C11148 FOR TYPICAL DOWNDRAIN DETAILS.
12. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.
13. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF-SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
4	10-21-2025	COMPLETE REMOVAL OF 36" HDPE PIPE, MANHOLE AND BERM, RECONSTRUCTION OF DITCH [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
3	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM AND UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
2	01-08-2024	ADD LEACHATE SUMP AND CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
1	10-10-2023	REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

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

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	**H1C11125**	1	FINAL	4

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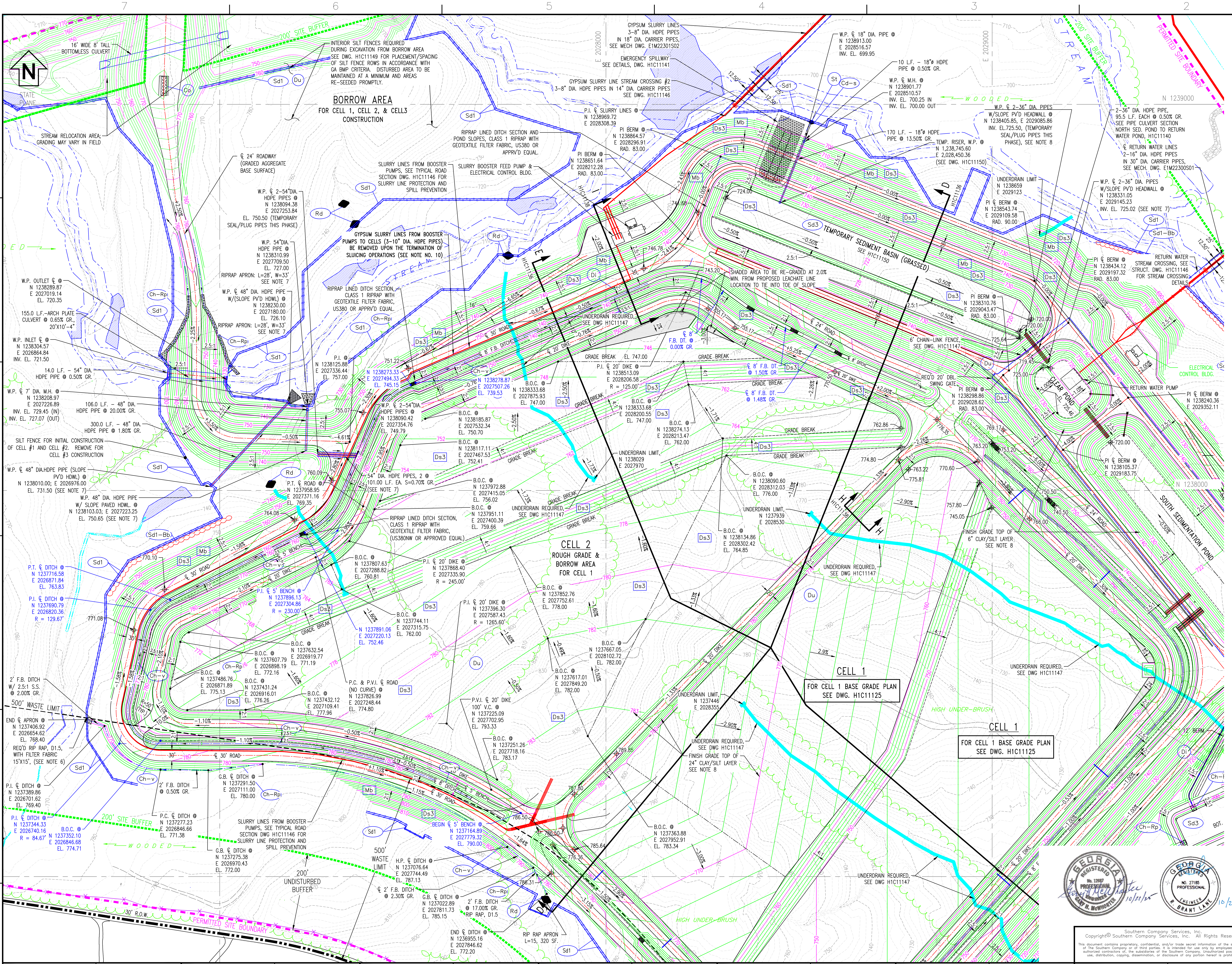
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BORROW AREA
FOR CELL 1, CELL 2, & CELL3 CONSTRUCTION
INTERIOR SILT FENCES REQUIRED DURING EXCAVATION FROM BORROW AREA SEE DWG. H1C11149 FOR PLACEMENT/SPACING OF SILT FENCE ROWS IN ACCORDANCE WITH GA BMP CRITERIA. DISTURBED AREA TO BE MAINTAINED AT A MINIMUM AND AREAS RE-SEEDED PROMPTLY.
16' WIDE 8' TALL BOTTOMLESS CULVERT
STREAM RELOCATION AREA; GRADING MAY VARY IN FIELD
200' SITE BUFFER
GYPSUM SLURRY LINES 3-8" DIA. HDPE PIPES IN 18" DIA. CARRIER PIPES, SEE MECH DWG. E1M22301S02
EMERGENCY SPILLWAY SEE DETAILS, DWG. H1C11141
GYPSUM SLURRY LINE STREAM CROSSING #2 3-8" DIA. HDPE PIPES IN 14" DIA. CARRIER PIPES SEE DWG. H1C11146
GYPSUM SLURRY LINES FROM BOOSTER PUMPS TO CELLS (3-10" DIA. HDPE PIPES) BE REMOVED UPON THE TERMINATION OF SLUICING OPERATIONS (SEE NOTE NO. 10)
SLURRY LINES FROM BOOSTER PUMPS, SEE TYPICAL ROAD SECTION DWG. H1C11146 FOR SLURRY LINE PROTECTION AND SPILL PREVENTION
SLURRY BOOSTER FEED PUMP & ELECTRICAL CONTROL BLDG.
RIPRAP LINED DITCH SECTION AND POND SLOPES, CLASS 1 RIPRAP WITH GEOTEXTILE FILTER FABRIC, US380 OR APPRV'D EQUAL.
℄ 24' ROADWAY (GRADED AGGREGATE BASE SURFACE)
TEMPORARY SEDIMENT BASIN (GRASSED) SEE H1C11150
SHADED AREA TO BE RE-GRADED AT 2.0% MIN. FROM PROPOSED LEACHATE LINE LOCATION TO TIE INTO TOE OF SLOPE
UNDERDRAIN REQUIRED, SEE DWG H1C11147
UNDERDRAIN LIMIT
GRADE BREAK
CELL 2
ROUGH GRADE & BORROW AREA FOR CELL 1
CELL 1
FOR CELL 1 BASE GRADE PLAN SEE DWG. H1C11125
HIGH UNDER-BRUSH
SOUTH SEDIMENTATION POND
CLEAR POND
RETURN WATER PUMP
ELECTRICAL CONTROL BLDG.
RETURN WATER STREAM CROSSING, SEE STRUCT. DWG. H1C11146 FOR STREAM CROSSING DETAILS
2-36" DIA. HDPE PIPE, 95.5 L.F. EACH @ 0.50% GR. SEE PIPE CULVERT SECTION NORTH SED. POND TO RETURN WATER POND, H1C11140
℄ RETURN WATER LINES 2-16" DIA. HDPE PIPES IN 30" DIA. CARRIER PIPES, SEE MECH. DWG. E1M22300S01
FINISH GRADE TOP OF 6" CLAY/SILT LAYER SEE NOTE 8
FINISH GRADE TOP OF 24" CLAY/SILT LAYER SEE NOTE 8
6' CHAIN-LINK FENCE, SEE DWG. H1C11147
REQ'D 20' DBL SWING GATE
SILT FENCE FOR INITIAL CONSTRUCTION OF CELL #1 AND CELL #2. REMOVE FOR CELL #3 CONSTRUCTION
500' WASTE LIMIT
200' UNDISTURBED BUFFER
30' R.O.W.
PERMITTED SITE BOUNDARY
W O O D E D
S T R E A M
N 1239000
N 1238000
E 2028000
E 2029000
RIP RAP APRON L=15, 320 SF.
END ℄ DITCH @ N 1236955.16 E 2027846.62 EL. 772.20
Sd1
Sd3
Ds3
Mb
Rd
Du
Di
Ch-v
Ch-Rp
Sd1-Bb
Cd-s
St

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY H. McWHORTER
Gary H McWhorter 10/21/25

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE
10/21/25

LEGEND:

℄	PROPERTY LINE
	SITE BOUNDARY
	200' SITE BUFFER
	500' WASTE LIMIT
	PERENNIAL/INTERMITTENT STREAMS
	EPHEMERAL STREAMS
	25' STREAM BUFFER
▨	WETLANDS
	LIMITS OF CLEARING (SECURITY ROAD)
	UNDERDRAIN EXTENTS (APPROXIMATE)
700	EXISTING GROUND CONTOURS
700	FINAL GRADE CONTOURS
× ×	EXISTING SECURITY FENCE
○ ○	PROPOSED SECURITY FENCE
	TREELINE

EROSION CONTROL LEGEND

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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2025.10.27 08:45:43 -04'00'

NOTES:

1. ALL SURFACE WATER CONTAINMENT STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. SEE NOTE 3 ON DRAWING H1C11122 FOR THE REFERENCE TO DELINEATED STREAMS AND WETLAND INFORMATION.
3. ANY IMPACT TO JURISDICTIONAL STREAMS, WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES ARMY CORP OF ENGINEERS (COE) APPROVAL, AND GEORGIA EPD 401 WATER QUALITY CERTIFICATION AND A GA EPD STREAM BUFFER VARIANCE. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN THE COE PERMIT IS APPROVED.
4. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
5. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
6. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
7. FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11146.
8. SEE DRAWING H1C11145 FOR TYPICAL HEADWALL DETAILS AND SECTIONS.
9. BASE GRADE ELEVATIONS SHOWN FOR THE CELLS AND POND BOTTOMS REPRESENT TOP OF CLAY/SILT LAYER. ADDITIONAL SAND OR SOIL/MARKER BED MATERIAL WILL BE REQUIRED ABOVE THIS SURFACE. SEE CELL AND POND COMPOSITE LINER DETAILS, DRAWING H1C11144.
10. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.
11. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF-SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.
12. BORING LOCATIONS AND VICINITY WILL BE RESTORED TO A NATURAL STATE FOLLOWING COMPLETION OF THE BORINGS.

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

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
5	10-21-2025	COMPLETE REMOVAL OF 36" HDPE PIPE, MANHOLE AND BERM, RECONSTRUCTION OF DITCH AND REMOVAL OF RETAINING WALL [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
4	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM AND UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
3	05-03-2024	STREAM RELOCATION GRADING MODIFICATION TO INCLUDE RETAINING WALL [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
2	01-08-2024	CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
1	10-10-2023	REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

Southern Company Services, Inc.

Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO.2 SITE DEVELOPMENT
ROUGH GRADE/BORROW PLAN

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	**H1C11126**	1	FINAL	5

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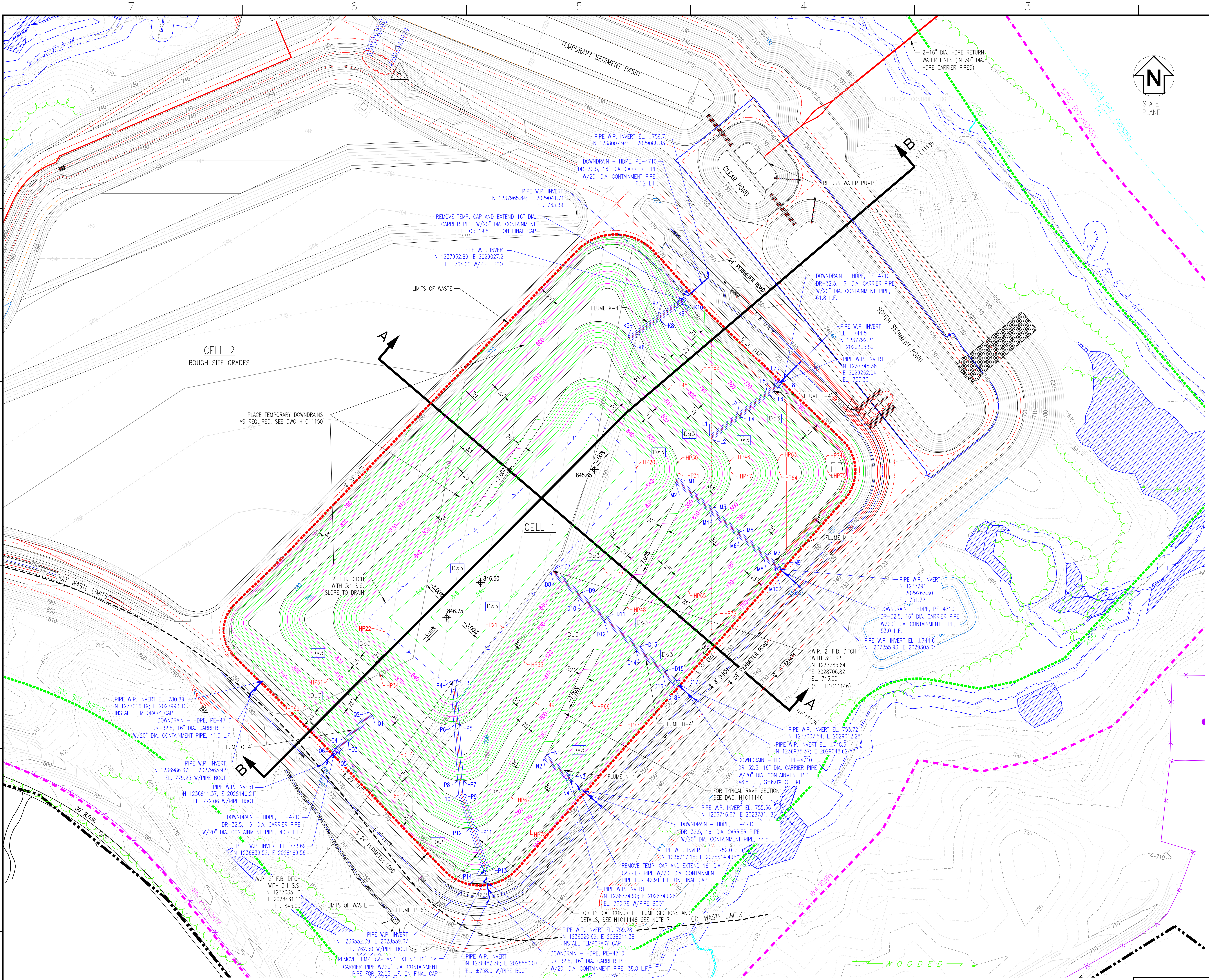
TEMPORARY SEDIMENT BASIN
CLEAR POND
RETURN WATER PUMP
SOUTH SEDIMENT POND
2-16" DIA. HDPE RETURN WATER LINES (IN 30" DIA. HDPE CARRIER PIPES)
ELECTRICAL CONTROL BLDG.
200' SITE BUFFER
SITE BOUNDARY
STATE PLANE
N
B
H1C11135
A
H1C11135
CELL 2
ROUGH SITE GRADES
CELL 1
24' PERIMETER ROAD
℄ 8' DITCH
℄ 20' DIKE
℄ 16' BENCH
LIMITS OF WASTE
PLACE TEMPORARY DOWNDRAINS AS REQUIRED. SEE DWG H1C11150
2' F.B. DITCH WITH 3:1 S.S. SLOPE TO DRAIN
PIPE W.P. INVERT EL. ±759.7 N 1238007.94; E 2029088.83
DOWNDRAIN – HDPE, PE–4710 DR–32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 63.2 L.F.
PIPE W.P. INVERT N 1237965.84; E 2029041.71 EL. 763.39
REMOVE TEMP. CAP AND EXTEND 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE FOR 19.5 L.F. ON FINAL CAP
PIPE W.P. INVERT N 1237952.89; E 2029027.21 EL. 764.00 W/PIPE BOOT
FLUME K–4'
FLUME L–4'
FLUME M–4'
FLUME D–4'
FLUME N–4'
FLUME Q–4'
FLUME P–6'
DOWNDRAIN – HDPE, PE–4710 DR–32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 61.8 L.F.
PIPE W.P. INVERT EL. ±744.5 N 1237792.21 E 2029305.59
PIPE W.P. INVERT N 1237748.36 E 2029262.04 EL. 755.30
PIPE W.P. INVERT N 1237291.11 E 2029263.30 EL. 751.72
DOWNDRAIN – HDPE, PE–4710 DR–32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 53.0 L.F.
PIPE W.P. INVERT EL. ±744.6 N 1237255.93; E 2029303.04
W.P. 2' F.B. DITCH WITH 3:1 S.S. N 1237285.64 E 2028706.82 EL. 743.00 (SEE H1C11146)
PIPE W.P. INVERT EL. 753.72 N 1237007.54; E 2029012.28
PIPE W.P. INVERT EL. ±748.5 N 1236975.37; E 2029048.62
DOWNDRAIN – HDPE, PE–4710 DR–32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 48.5 L.F., S=6.0% @ DIKE
FOR TYPICAL RAMP SECTION SEE DWG. H1C11146
PIPE W.P. INVERT EL. 755.56 N 1236746.67; E 2028781.18
DOWNDRAIN – HDPE, PE–4710 DR–32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 44.5 L.F.
PIPE W.P. INVERT EL. ±752.0 N 1236717.18; E 2028814.49
REMOVE TEMP. CAP AND EXTEND 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE FOR 42.91 L.F. ON FINAL CAP
PIPE W.P. INVERT N 1236774.90; E 2028749.28 EL. 760.78 W/PIPE BOOT
FOR TYPICAL CONCRETE FLUME SECTIONS AND DETAILS, SEE H1C11148 SEE NOTE 7
500' WASTE LIMITS
PIPE W.P. INVERT EL. 759.28 N 1236520.69; E 2028544.38 INSTALL TEMPORARY CAP
DOWNDRAIN – HDPE, PE–4710 DR–32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 38.8 L.F.
PIPE W.P. INVERT N 1236482.36; E 2028550.07 EL. ±758.0 W/PIPE BOOT
REMOVE TEMP. CAP AND EXTEND 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE FOR 32.05 L.F. ON FINAL CAP
PIPE W.P. INVERT N 1236552.39; E 2028539.67 EL. 762.50 W/PIPE BOOT
W.P. 2' F.B. DITCH WITH 3:1 S.S. N 1237035.10 E 2028461.11 EL. 843.00
PIPE W.P. INVERT EL. 773.69 N 1236839.52; E 2028169.56
DOWNDRAIN – HDPE, PE–4710 DR–32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 40.7 L.F.
PIPE W.P. INVERT N 1236811.37; E 2028140.21 EL. 772.06 W/PIPE BOOT
PIPE W.P. INVERT N 1236986.67; E 2027963.92 EL. 779.23 W/PIPE BOOT
DOWNDRAIN – HDPE, PE–4710 DR–32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE, 41.5 L.F.
PIPE W.P. INVERT EL. 780.89 N 1237016.19; E 2027993.10 INSTALL TEMPORARY CAP
30' R.O.W.
WOODED
STREAM
845.65
846.50
846.75
-3.00%
-7.00%
3:1
25'
20'
Ds3

LEGEND:

PROPERTY LINE
SITE BOUNDARY
200' SITE BUFFER
500' WASTE LIMIT
PERENNIAL/INTERMITTENT STREAMS
EPHEMERAL STREAMS
25' STREAM BUFFER
▨ WETLANDS
LIMITS OF CLEARING (SECURITY ROAD)
LIMITS OF WASTE
700 EXISTING GROUND CONTOURS
700 FINAL GRADE CONTOURS
EXISTING SECURITY FENCE
PROPOSED SECURITY FENCE
⌖ XXX.XX SPOT ELEVATIONS
TREELINE

EROSION CONTROL LEGEND

Ds3	DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)

REFERENCES:

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

NOTES:

1. ALL SURFACE WATER CONTAINMENT STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
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4. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
5. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
6. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
7. FOR TYPICAL ROADWAY/RAMP SECTIONS SEE DRAWING H1C11146.
8. PERMANENT DOWNDRAINS TO BE CONSTRUCTED UPON COMPLETION OF PLACEMENT OF FINAL COVER
9. REFER TO SHEET H1C11148 FOR TYPICAL DOWNDRAIN DETAILS.
10. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.
11. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF-SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2025.10.27 08:45:43 -04'00'

No. 12687 GARY H. McWHORTER
Gary H McWhorter 10/21/25

NO. 27185 R. BRANT LANE
10/21/25

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

REVISION	DATE	REVISION	DATE	REVISION 4	DATE 10-21-2025	REVISION 3	DATE 10-18-2024	REVISION 2	DATE 01-08-2024	REVISION 1	DATE 10-10-2023	REVISION 0	DATE 09-23-2022
				COMPLETE REMOVAL OF 36" HDPE PIPE, MANHOLE AND BERM, RECONSTRUCTION OF DITCH AND ADDITION OF 48" DIA. STORMWATER PIPE [BY HHNT, INC.]		MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM AND UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]		CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]		REVISED PROPERTY BUFFER AND BUFFER IMPACTS [BY HHNT, INC.]		CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 4	RSW	RBL		☒	☒	☒	☒
REVISION 3	RSW	RBL		☒	☒	☒	☒
REVISION 2	RSW	RBL		☒	☒	☒	☒
REVISION 1	RSW	RBL		☒	☒	☒	☒
REVISION 0	ANR	RBL		☒	☒	☒	☒

Southern Company Services, Inc.

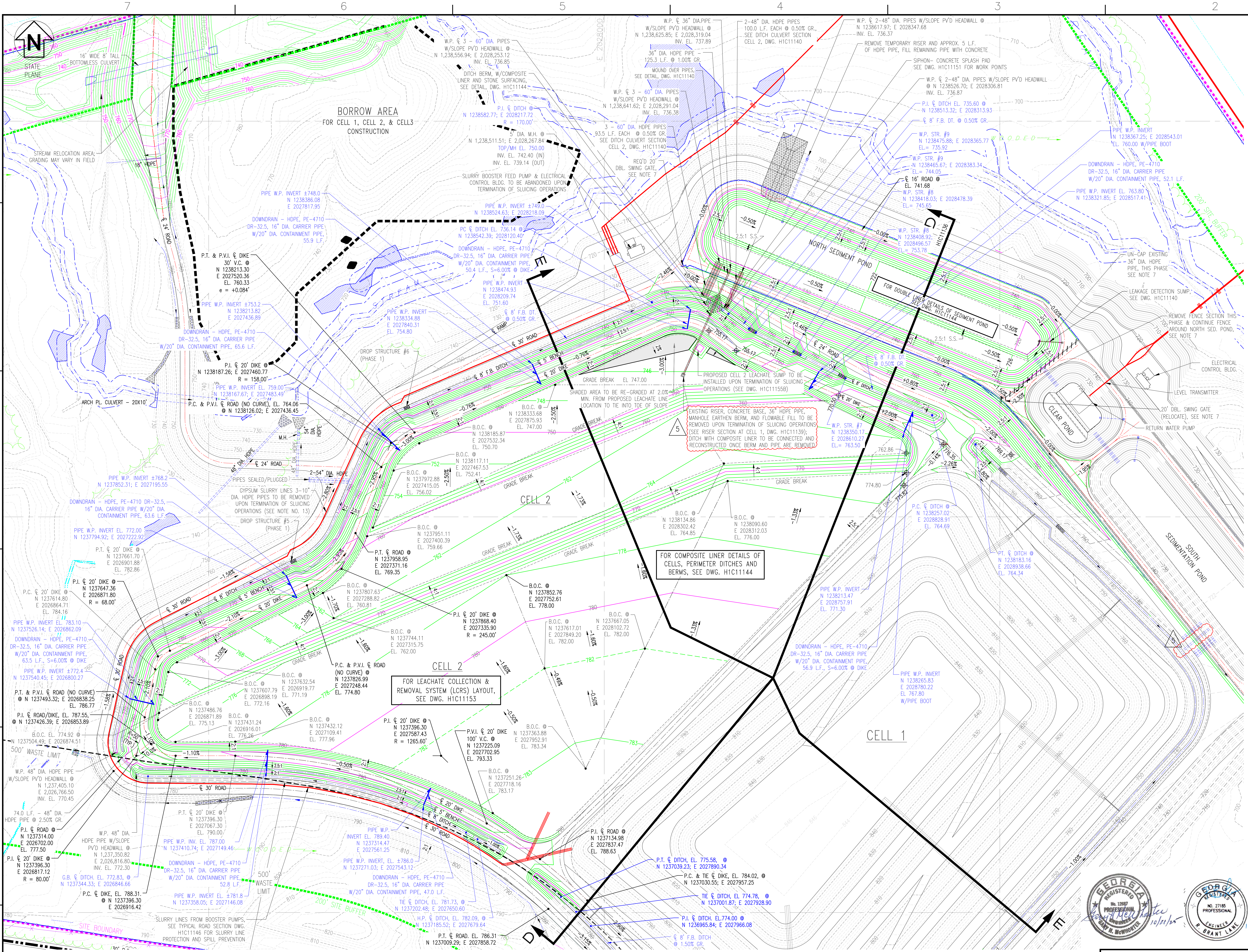
Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

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

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	**H1C11130**	1	FINAL	4

Acad2008 ANSI F: 40x28


BORROW AREA
FOR CELL 1, CELL 2, & CELL3
CONSTRUCTION
STATE PLANE
NORTH SEDIMENT POND
FOR DOUBLE LINER DETAILS OF SEDIMENT POND SEE DWG. H1C11144
CLEAR POND
SOUTH SEDIMENTATION POND
CELL 2
CELL 1
FOR COMPOSITE LINER DETAILS OF CELLS, PERIMETER DITCHES AND BERMS, SEE DWG. H1C11144
FOR LEACHATE COLLECTION & REMOVAL SYSTEM (LCRS) LAYOUT, SEE DWG. H1C11153
GRADE BREAK
500' WASTE LIMIT
200' SITE BUFFER
SITE BOUNDARY
STREAM RELOCATION AREA; GRADING MAY VARY IN FIELD
SLURRY LINES FROM BOOSTER PUMPS, SEE TYPICAL ROAD SECTION DWG. H1C11146 FOR SLURRY LINE PROTECTION AND SPILL PREVENTION
D
E

LEGEND:

▬ ▪ ▪ ▬	PROPERTY LINE
▪▪▪▪	SITE BOUNDARY
▬ ▬ ▬	200' SITE BUFFER
– – – –	500' WASTE LIMIT
—·—·—	PERENNIAL/INTERMITTENT STREAMS
—··—··—	EPHEMERAL STREAMS
—·—·—	25' STREAM BUFFER
▨	WETLANDS
—·—·—	LIMITS OF CLEARING (SECURITY ROAD)
- - - 700 - - -	EXISTING GROUND CONTOURS
—— 700 ——	FINAL GRADE CONTOURS
—×——×—	EXISTING SECURITY FENCE
—○—○—○—	PROPOSED SECURITY FENCE
⌖ XXX.XX	SPOT ELEVATIONS
━━━	DOWNDRAIN
⌒⌒⌒⌒	TREELINE

EROSION CONTROL LEGEND

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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli
Digitally signed by Tammy Buchli Date: 2025.10.27 08:45:43 -04'00'

NOTES:

1. ALL SURFACE WATER CONTAINMENT STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. SEE NOTE 3 ON DRAWING H1C11122 FOR THE REFERENCE TO DELINEATED STREAMS AND WETLAND INFORMATION.
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4. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
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6. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
7. SEE DRAWING H1C11143 FOR DETAILS OF DECANT RISER STRUCTURE. UPON THE FILLING/STACKING OF GYPSUM TO LIMITS OF RISER, THE STRUCTURE SHALL BE FILLED WITH CONCRETE, ABANDONED AND REPLACED WITH A SIPHON DISCHARGE STRUCTURE. SEE GENERAL GYPSUM STACKING AND OPERATION PLAN, DWG. H1C11142.
8. FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11146.
9. SEE DRAWING H1C11145 FOR TYPICAL HEADWALL DETAILS AND SECTIONS.
10. BASE GRADE ELEVATIONS SHOWN FOR THE CELLS AND POND BOTTOMS REPRESENT TOP OF CLAY/SILT LAYER. ADDITIONAL SAND OR SOIL/MARKER BED MATERIAL WILL BE REQUIRED ABOVE THIS SURFACE. SEE CELL AND POND COMPOSITE LINER DETAILS, DRAWING H1C11144.
11. REFER TO SHEET H1C11148 FOR TYPICAL DOWNDRAIN DETAILS.
12. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.
13. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF-SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.
14. BORING LOCATIONS AND VICINITY WILL BE RESTORED TO A NATURAL STATE FOLLOWING COMPLETION OF THE BORINGS.

No. 12687 GARY H. McWHORTER
Gary H McWhorter 10/21/25

NO. 27185 R. BRANT LANE
10/21/25

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

**Southern Company Generation
Engineering and Construction Services
FOR**

Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 2 SITE DEVELOPMENT
BASE GRADING PLAN

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
5	10-21-2025	COMPLETE REMOVAL OF 36" HDPE PIPE, MANHOLE AND BERM, RECONSTRUCTION OF DITCH, AND ADDITION OF 48" DIA. STORMWATER PIPE; REMOVED RETAINING WALL [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
4	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM AND UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
3	05-03-2024	STREAM RELOCATION GRADING MODIFICATION TO INCLUDE RETAINING WALL [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
2	01-08-2024	ADD LEACHATE SUMP AND CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
1	10-10-2023	REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	**H1C11131**	1	FINAL	5

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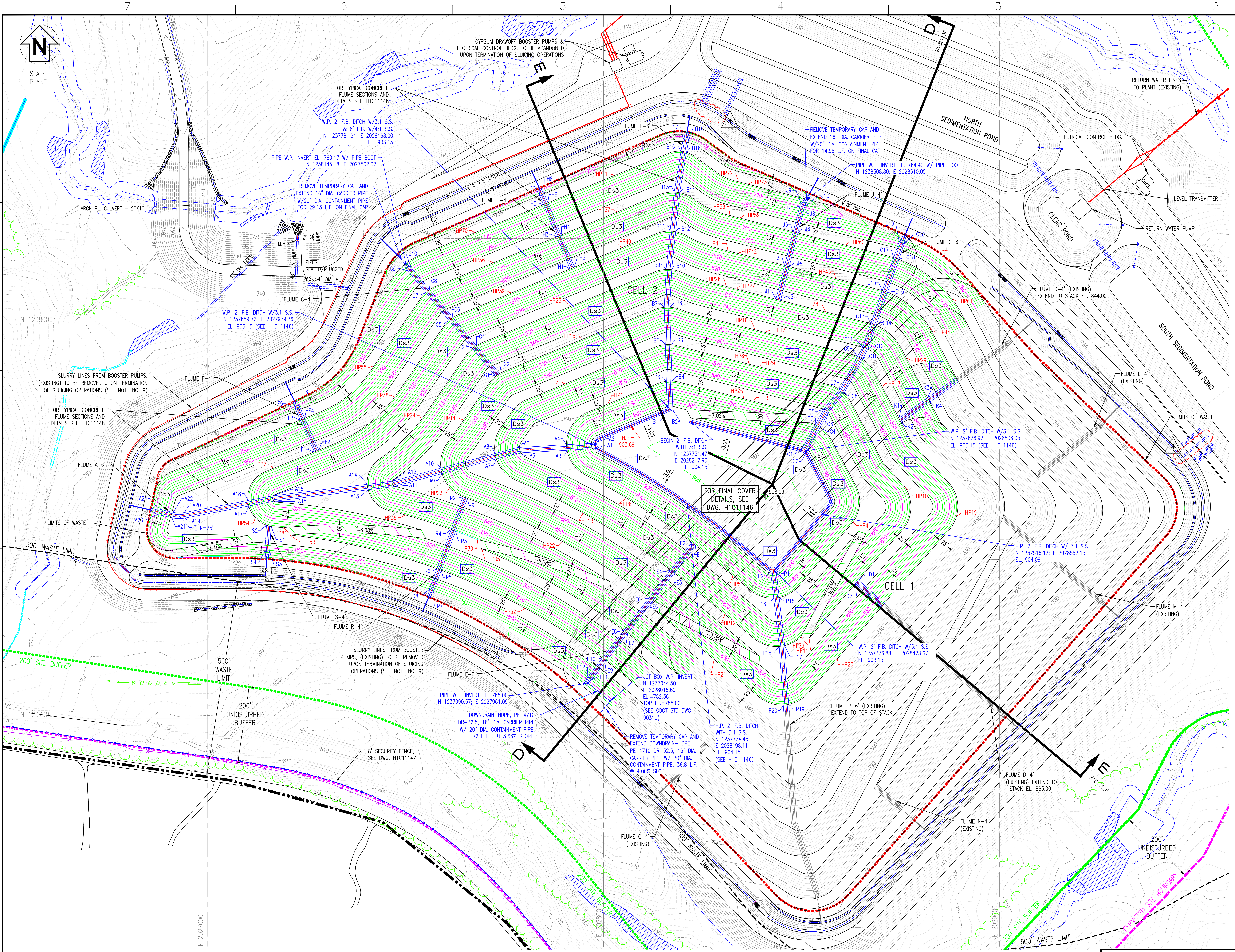

N
STATE PLANE
ARCH PL. CULVERT – 20X10'
FOR TYPICAL CONCRETE FLUME SECTIONS AND DETAILS SEE H1C11148
W.P. 2' F.B. DITCH W/3:1 S.S. & 6' F.B. W/4:1 S.S. N 1237781.94; E 2028168.00 EL. 903.15
PIPE W.P. INVERT EL. 760.17 W/ PIPE BOOT N 1238145.18; E 2027502.02
REMOVE TEMPORARY CAP AND EXTEND 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE FOR 29.13 L.F. ON FINAL CAP
M.H.
54" DIA. HDPE
48" DIA. HDPE
PIPES SEALED/PLUGGED
2-54" DIA. HDPE
FLUME G-4'
W.P. 2' F.B. DITCH W/3:1 S.S. N 1237689.72; E 2027979.36 EL. 903.15 (SEE H1C11146)
N 1238000
SLURRY LINES FROM BOOSTER PUMPS, (EXISTING) TO BE REMOVED UPON TERMINATION OF SLUICING OPERATIONS (SEE NOTE NO. 9)
FLUME F-4'
FOR TYPICAL CONCRETE FLUME SECTIONS AND DETAILS SEE H1C11148
FLUME A-6'
LIMITS OF WASTE
500' WASTE LIMIT
200' SITE BUFFER
WOODED
500' WASTE LIMIT
200' UNDISTURBED BUFFER
N 1237000
8' SECURITY FENCE, SEE DWG. H1C11147
E 2027000
E 2028000
E 2029000
GYPSUM DRAWOFF BOOSTER PUMPS & ELECTRICAL CONTROL BLDG. TO BE ABANDONED UPON TERMINATION OF SLUICING OPERATIONS
E
D
H1C11136
FLUME B-6'
FLUME H-4'
℄ 8' F.B. DITCH
℄ 5' BENCH
REMOVE TEMPORARY CAP AND EXTEND 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE FOR 14.98 L.F. ON FINAL CAP
PIPE W.P. INVERT EL. 764.40 W/ PIPE BOOT N 1238308.80; E 2028510.05
FLUME J-4'
℄ 20' DIKE
NORTH SEDIMENTATION POND
ELECTRICAL CONTROL BLDG.
RETURN WATER LINES TO PLANT (EXISTING)
LEVEL TRANSMITTER
RETURN WATER PUMP
CLEAR POND
FLUME C-6'
FLUME K-4' (EXISTING) EXTEND TO STACK EL. 844.00
SOUTH SEDIMENTATION POND
FLUME L-4' (EXISTING)
LIMITS OF WASTE
CELL 2
CELL 1
H.P.= 903.69
BEGIN 2' F.B. DITCH WITH 3:1 S.S. N 1237751.47 E 2028217.93 EL. 904.15
FOR FINAL COVER DETAILS, SEE DWG. H1C11146
908.09
W.P. 2' F.B. DITCH W/3:1 S.S. N 1237676.92; E 2028506.05 EL. 903.15 (SEE H1C11146)
H.P. 2' F.B. DITCH W/ 3:1 S.S. N 1237516.17; E 2028552.15 EL. 904.09
W.P. 2' F.B. DITCH W/3:1 S.S. N 1237376.88; E 2028428.67 EL. 903.15
FLUME M-4' (EXISTING)
FLUME P-6' (EXISTING) EXTEND TO TOP OF STACK
FLUME S-4'
FLUME R-4'
SLURRY LINES FROM BOOSTER PUMPS, (EXISTING) TO BE REMOVED UPON TERMINATION OF SLUICING OPERATIONS (SEE NOTE NO. 9)
FLUME E-6'
PIPE W.P. INVERT EL. 785.00 N 1237090.57; E 2027961.09
JCT BOX W.P. INVERT N 1237044.50 E 2028016.60 EL.=782.36 TOP EL.=788.00 (SEE GDOT STD DWG 9031U)
DOWNDRAIN-HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/ 20" DIA. CONTAINMENT PIPE, 72.1 L.F. @ 3.66% SLOPE.
REMOVE TEMPORARY CAP AND EXTEND DOWNDRAIN-HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/ 20" DIA. CONTAINMENT PIPE, 36.8 L.F. @ 4.00% SLOPE.
H.P. 2' F.B. DITCH WITH 3:1 S.S. N 1237774.45 E 2028198.11 EL. 904.15 (SEE H1C11146)
FLUME D-4' (EXISTING) EXTEND TO STACK EL. 863.00
FLUME N-4' (EXISTING)
FLUME Q-4' (EXISTING)
500' WASTE LIMIT
200' UNDISTURBED BUFFER
200' SITE BUFFER
PERMITTED SITE BOUNDARY
Ds3

LEGEND:

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

EROSION CONTROL LEGEND

Ds3 DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)

REFERENCES:

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

NOTES:

1. ALL SURFACE WATER CONTAINMENT STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. SEE NOTE 3 ON DRAWING H1C11122 FOR THE REFERENCE TO DELINEATED STREAMS AND WETLAND INFORMATION.
3. ANY IMPACT TO JURISDICTIONAL STREAMS, WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES ARMY CORP OF ENGINEERS (COE) APPROVAL, AND GEORGIA EPD 401 WATER QUALITY CERTIFICATION AND A GA EPD STREAM BUFFER VARIANCE. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN THE COE PERMIT IS APPROVED.
4. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
5. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
6. SEE DRAWING H1C11149 FOR EROSION CONTROL NOTES.
7. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
8. FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11146.
9. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.
10. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF-SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.

CLOSURE AREAS:

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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli
Digitally signed by Tammy Buchli
Date: 2025.10.27 08:45:43 -04'00'

No. 12687 GARY R. McWHORTER 10/21/25

NO. 27185 R. GRANT LANE 10/21/25

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

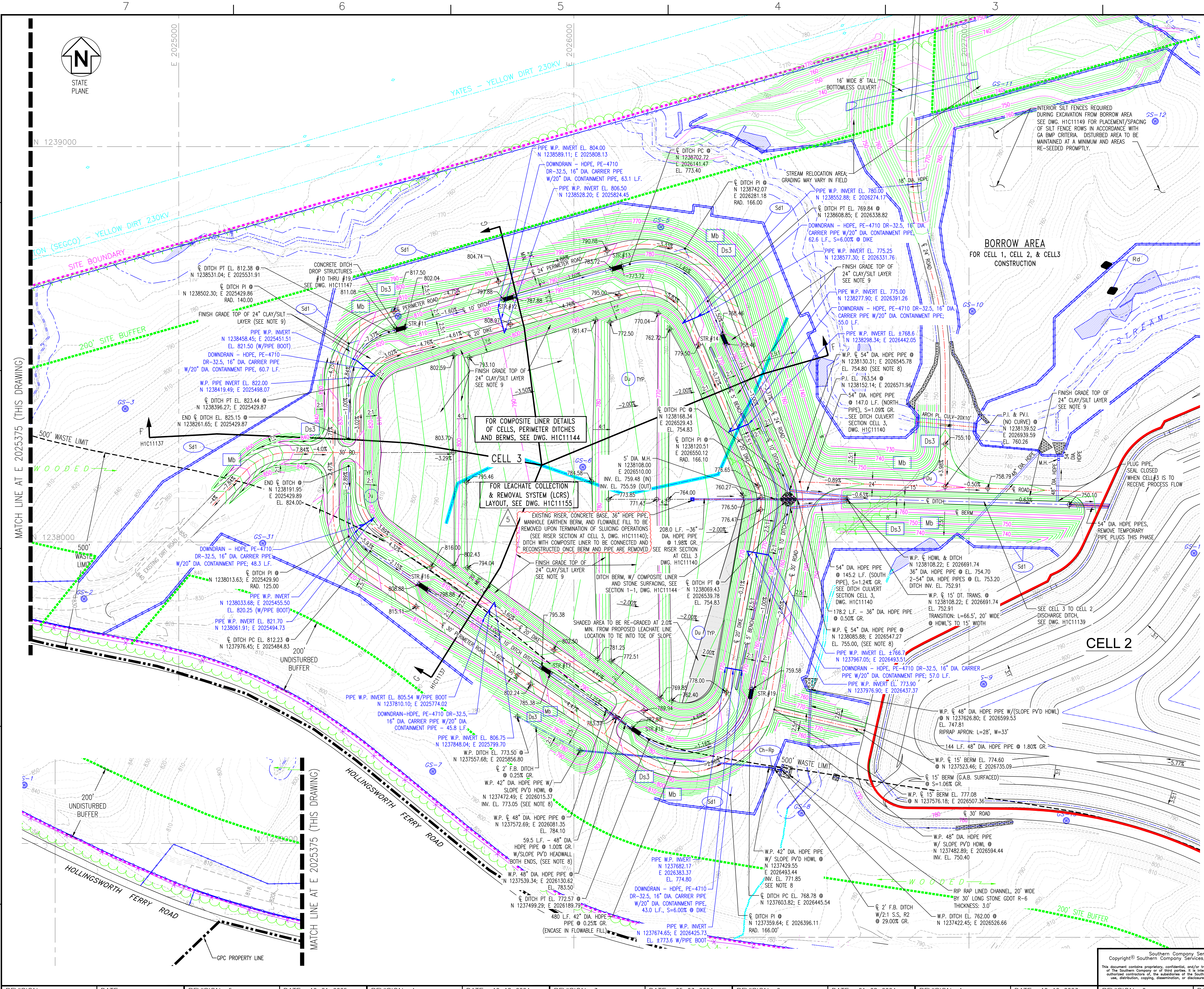
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
4	10-21-2025	COMPLETE REMOVAL OF 36" HDPE PIPE, MANHOLE AND BERM, RECONSTRUCTION OF DITCH, AND ADDITION OF 48" DIA. STORMWATER PIPE [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
3	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM AND UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
2	01-08-2024	CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
1	10-10-2023	REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	**H1C11132**	1	FINAL	4

target ZERO
Every day, every job, safely.


STATE PLANE
N
E 2025000
E 2026000
E 2027000
N 1239000
N 1238000
N 1236000
YATES - YELLOW DIRT 230KV
ON (SEGCO) - YELLOW DIRT 230KV
SITE BOUNDARY
200' SITE BUFFER
500' WASTE LIMIT
W O O D E D
MATCH LINE AT E 2025375 (THIS DRAWING)
CELL 3
CELL 2
BORROW AREA
FOR CELL 1, CELL 2, & CELL3 CONSTRUCTION
FOR COMPOSITE LINER DETAILS OF CELLS, PERIMETER DITCHES AND BERMS, SEE DWG. H1C11144
FOR LEACHATE COLLECTION & REMOVAL SYSTEM (LCRS) LAYOUT, SEE DWG. H1C11155
EXISTING RISER, CONCRETE BASE, 36" HDPE PIPE, MANHOLE EARTHEN BERM, AND FLOWABLE FILL TO BE REMOVED UPON TERMINATION OF SLUICING OPERATIONS (SEE RISER SECTION AT CELL 3, DWG. H1C11140); DITCH WITH COMPOSITE LINER TO BE CONNECTED AND RECONSTRUCTED ONCE BERM AND PIPE ARE REMOVED
5
SHADED AREA TO BE RE-GRADED AT 2.0% MIN. FROM PROPOSED LEACHATE LINE LOCATION TO TIN INTO TOE OF SLOPE
INTERIOR SILT FENCES REQUIRED DURING EXCAVATION FROM BORROW AREA SEE DWG. H1C11149 FOR PLACEMENT/SPACING OF SILT FENCE ROWS IN ACCORDANCE WITH GA BMP CRITERIA. DISTURBED AREA TO BE MAINTAINED AT A MINIMUM AND AREAS RE-SEEDED PROMPTLY.
16' WIDE 8' TALL BOTTOMLESS CULVERT
STREAM RELOCATION AREA; GRADING MAY VARY IN FIELD
STREAM
FINISH GRADE TOP OF 24" CLAY/SILT LAYER SEE NOTE 9
PLUG PIPE, SEAL CLOSED WHEN CELL 3 IS TO RECEIVE PROCESS FLOW
54" DIA. HDPE PIPES, REMOVE TEMPORARY PIPE PLUGS THIS PHASE
SEE CELL 3 TO CELL 2 DISCHARGE DITCH, SEE DWG. H1C11139
RIP RAP LINED CHANNEL, 20' WIDE BY 30' LONG STONE GDOT R-6 THICKNESS: 3.0'
CONCRETE DITCH DROP STRUCTURES #10 THRU #19, SEE DWG. H1C11147
24" PERIMETER ROAD
10' DITCH
20' DIKE
30' ROAD
15' BERM
PERIMETER ROAD
DITCH BERM, W/ COMPOSITE LINER AND STONE SURFACING, SEE SECTION 1-1, DWG. H1C11144
HOLLINGSWORTH FERRY ROAD
200' UNDISTURBED BUFFER
GPC PROPERTY LINE
MATCH LINE AT E 2025375 (THIS DRAWING)
H1C11137
GS-3
GS-5
GS-6
GS-7
GS-8
GS-9
GS-10
GS-11
GS-12
GS-2
GS-31
Sd1
Ds3
Mb
Du TYP.
Rd
Ch-Rp
STR.#11
STR.#12
STR.#13
STR.#14
STR.#16
STR.#17
STR.#18
STR.#19
ARCH PL. CULV-20'X10'
54" DIA. HDPE PIPE
DOWNDRAIN - HDPE, PE-4710 DR-32.5, 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE
PIPE W.P. INVERT EL. 804.00 N 1238589.11; E 2025808.13
PIPE W.P. INVERT EL. 806.50 N 1238528.20; E 2025824.45
℄ DITCH PT EL. 812.38 N 1238531.04; E 2025531.91
℄ DITCH PI N 1238502.30; E 2025429.86 RAD. 140.00
PIPE W.P. INVERT EL. 821.50 (W/PIPE BOOT)
W.P. PIPE INVERT EL. 822.00 N 1238419.49; E 2025498.07
℄ DITCH PT EL. 823.44 N 1238396.27; E 2025429.87
END ℄ DITCH EL. 825.15 N 1238261.65; E 2025429.87
END ℄ DITCH N 1238191.95 E 2025429.89 EL. 824.00
℄ DITCH PI N 1238013.63; E 2025429.90 RAD. 125.00
PIPE W.P. INVERT N 1238033.68; E 2025455.50 EL. 820.25 (W/PIPE BOOT)
PIPE W.P. INVERT EL. 821.70 N 1238061.91; E 2025494.73
℄ DITCH PC EL. 812.23 N 1237976.45; E 2025484.83
PIPE W.P. INVERT EL. 805.54 W/PIPE BOOT N 1237810.10; E 2025774.02
PIPE W.P. INVERT EL. 806.75 N 1237848.04; E 2025799.36
W.P. DITCH EL. 773.50 N 1237557.68; E 2025856.80
℄ 2' F.B. DITCH @ 0.25% GR.
W.P. 42" DIA. HDPE PIPE W/ SLOPE PV'D HDWL N 1237472.49; E 2026015.37 INV. EL. 773.05 (SEE NOTE 8)
W.P. ℄ 48" DIA. HDPE PIPE N 1237572.69; E 2026081.35 EL. 784.10
59.5 L.F. - 48" DIA. HDPE PIPE @ 1.00% GR. W/SLOPE PV'D HEADWALL BOTH ENDS, (SEE NOTE 8)
W.P. 48" DIA. HDPE PIPE N 1237539.34; E 2026130.62 EL. 783.50
℄ DITCH PT EL. 772.57 N 1237499.29; E 2026189.75
480 L.F. 42" DIA. HDPE PIPE @ 0.25% GR. (ENCASE IN FLOWABLE FILL)
PIPE W.P. INVERT N 1237674.65; E 2026425.73 EL. ±773.6 W/PIPE BOOT
℄ DITCH PC N 1238702.72 E 2026141.47 EL. 773.40
℄ DITCH PI N 1238742.07 E 2026281.18 RAD. 166.00
℄ DITCH PT EL. 769.84 N 1238608.85; E 2026338.82
℄ DITCH PC N 1238168.34 E 2026529.43 EL. 754.83
℄ DITCH PI N 1238120.51 E 2026550.12 RAD. 166.10
5' DIA. M.H. N 1238108.00 E 2026510.00 INV. EL. 759.48 (IN) INV. EL. 755.59 (OUT)
208.0 L.F. -36" DIA. HDPE PIPE @ 1.98% GR. SEE RISER SECTION AT CELL 3 DWG. H1C11140
℄ DITCH PT N 1238069.43 E 2026539.78 EL. 754.83
W.P. ℄ 54" DIA. HDPE PIPE N 1238130.31; E 2026545.78 EL. 754.80 (SEE NOTE 8)
P.I. EL. 763.54 N 1238152.14; E 2026571.96
54" DIA. HDPE PIPE @ 147.0 L.F. (NORTH PIPE), S=1.09% GR. SEE DITCH CULVERT SECTION CELL 3, DWG. H1C11140
178.2 L.F. - 36" DIA. HDPE PIPE @ 0.50% GR.
54" DIA. HDPE PIPE @ 145.2 L.F. (SOUTH PIPE), S=1.24% GR. SEE DITCH CULVERT SECTION CELL 3, DWG. H1C11140
W.P. ℄ 54" DIA. HDPE PIPE N 1238085.88; E 2026547.27 EL. 755.00, (SEE NOTE 8)
W.P. ℄ HDWL & DITCH N 1238108.22; E 2026691.74 36" DIA. HDPE PIPE @ EL. 754.70 2-54" DIA. HDPE PIPES @ EL. 753.20 DITCH INV. EL. 752.91
W.P. ℄ 15' DT. TRANS. N 1238108.22; E 2026691.74 EL. 752.91 TRANSITION: L=66.5', 20' WIDE @ HDWL'S TO 15' WIDTH
P.I. & PV.I. (NO CURVE) N 1238139.52 E 2026939.59 EL. 760.26
PIPE W.P. INVERT EL. 780.00 N 1238552.88; E 2026274.17
PIPE W.P. INVERT EL. 775.25 N 1238577.30; E 2026331.76
PIPE W.P. INVERT EL. 775.00 N 1238277.90; E 2026391.26
PIPE W.P. INVERT EL. ±768.6 N 1238298.34; E 2026442.05
PIPE W.P. INVERT EL. ±766.7 N 1237967.05; E 2026493.51
PIPE W.P. INVERT EL. 773.90 N 1237976.90; E 2026437.37
PIPE W.P. INVERT N 1237682.17 E 2026383.37 EL. 774.80
W.P. ℄ 48" DIA. HDPE PIPE W/(SLOPE PV'D HDWL) N 1237626.80; E 2026599.53 EL. 747.81 RIPRAP APRON: L=28', W=33'
144 L.F. 48" DIA. HDPE PIPE @ 1.80% GR.
W.P. ℄ 15' BERM EL. 774.60 N 1237523.46; E 2026735.09
℄ 15' BERM (G.A.B. SURFACED) @ S=1.06% GR.
W.P. ℄ 15' BERM EL. 777.08 N 1237576.18; E 2026507.36
W.P. 48" DIA. HDPE PIPE W/ SLOPE PV'D HDWL N 1237482.89; E 2026594.44 INV. EL. 750.40
W.P. 42" DIA. HDPE PIPE W/ SLOPE PV'D HDWL N 1237429.55 E 2026493.44 INV. EL. 771.85 SEE NOTE 8
℄ DITCH PC EL. 768.78 N 1237603.82; E 2026445.54
℄ DITCH PI N 1237359.64; E 2026396.11 RAD. 166.00'
℄ 2' F.B. DITCH W/2:1 S.S, R2 @ 29.00% GR.
W.P. DITCH EL. 762.00 N 1237422.45; E 2026526.66
18" DIA. HDPE
24" DIA. HDPE
-2.00%
-0.50%
-0.63%
-5.77%
2:1
4:1
3:1
2.5:1

LEGEND:

℄	PROPERTY LINE
	TREELINE
	SITE BOUNDARY
	200' SITE BUFFER
	500' WASTE LIMIT
	PERENNIAL/INTERMITTENT STREAMS
	EPHEMERAL STREAMS
	25' STREAM BUFFER
▨	WETLANDS
700	EXISTING GROUND CONTOURS
700	FINAL GRADE CONTOURS
× ×	EXISTING SECURITY FENCE
○ ○ ○	PROPOSED SECURITY FENCE
⌖ XXX.XX	SPOT ELEVATIONS
	DOWNDRAIN

EROSION CONTROL LEGEND

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

NOTES:

1. ALL SURFACE WATER CONTAINMENT STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. SEE NOTE 3 ON DRAWING H1C11122 FOR THE REFERENCE TO DELINEATED STREAMS AND WETLAND INFORMATION.
3. ANY IMPACT TO JURISDICTIONAL STREAMS, WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES ARMY CORP OF ENGINEERS (COE) APPROVAL, AND GEORGIA EPD 401 WATER QUALITY CERTIFICATION AND A GA EPD STREAM BUFFER VARIANCE. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN THE COE PERMIT IS APPROVED.
4. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
5. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
6. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
7. SEE DRAWING H1C11143 FOR DETAILS OF DECANT RISER STRUCTURE. UPON THE FILLING/STACKING OF GYPSUM TO LIMITS OF RISER, THE STRUCTURE SHALL BE FILLED WITH CONCRETE, ABANDONED AND REPLACED WITH A SIPHON DISCHARGE STRUCTURE. SEE GENERAL GSSUM STACKING AND OPERATION PLAN, DWG. H1C11142.
8. FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11146.
9. SEE DRAWING H1C11145 FOR TYPICAL HEADWALL DETAILS AND SECTIONS.
10. BASE GRADE ELEVATIONS SHOWN FOR THE CELLS AND POND BOTTOMS REPRESENT TOP OF CLAY/SILT LAYER. ADDITIONAL SAND OR SOIL/MARKER BED MATERIAL WILL BE REQUIRED ABOVE THIS SURFACE. SEE CELL AND POND COMPOSITE LINER DETAILS, DRAWING H1C11144.
11. SEE DRAWING H1C11150 FOR ADDITIONAL EROSION CONTROL MEASURES INCLUDING TEMPORARY SEDIMENT BASIN FOR THIS AREA.
12. REFER TO SHEET H1C11148 FOR TYPICAL DOWNDRAIN DETAILS.
13. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.
14. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF-SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.
15. BORING LOCATIONS AND VICINITY WILL BE RESTORED TO A NATURAL STATE FOLLOWING COMPLETION OF THE BORINGS.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli
Digitally signed by Tammy Buchli
Date: 2025.10.27 08:45:43 -04'00'

No. 12697
GARY H. McWHORTER
Gary H McWhorter 10/21/25

NO. 27185
R. BRANT LANE
10/21/25

REFERENCES:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11143	MISCELLANEOUS DETAILS, SHEET 1
H1C11144	MISCELLANEOUS DETAILS, SHEET 2
H1C11148	MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
H1C11155	CELL NO. 3, LEACHATE COLLECTION SYSTEM LAYOUT
H1C11155A	CELLS 1 THROUGH CELL 3, LEACHATE COLLECTION SYSTEM DETAILS

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

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
5	10-21-2025	COMPLETE REMOVAL OF 36" HDPE PIPE, MANHOLE AND BERM, RECONSTRUCTION OF DITCH; REMOVED RETAINING WALL [BY HHNT, INC.]	RSW	RBL					
4	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM AND UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	RSW	RBL					
3	05-03-2024	STREAM RELOCATION GRADING MODIFICATION TO INCLUDE RETAINING WALL [BY HHNT, INC.]	RSW	RBL					
2	01-08-2024	CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL					
1	10-10-2023	REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL					
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL					

Southern Company Services, Inc.

Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

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

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	**H1C11133**	1	FINAL	5

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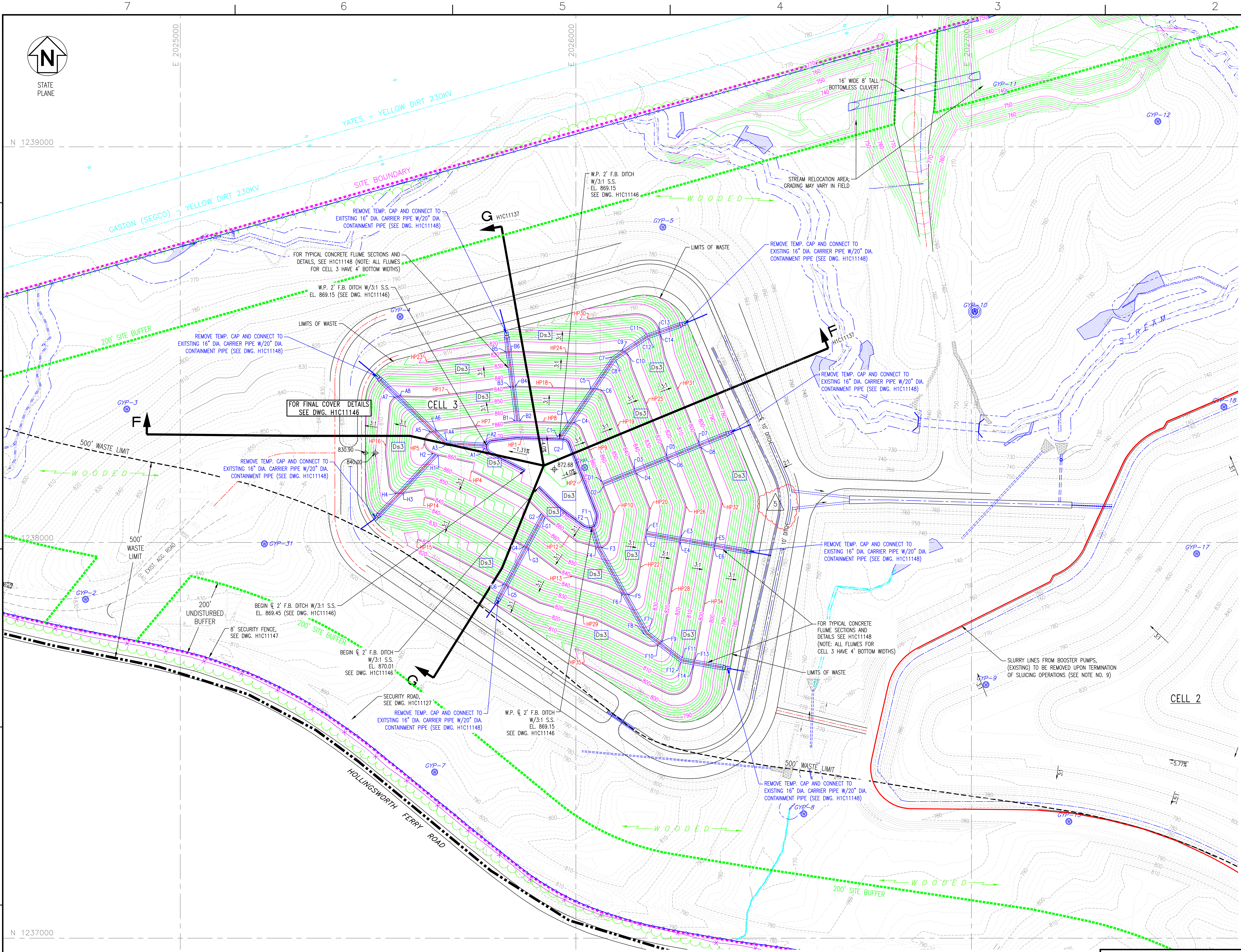
N
STATE PLANE
E 2025000
E 2026000
E 2027000
N 1239000
N 1238000
N 1237000
YATES – YELLOW DIRT 230KV
GASTON (SEGCO) – YELLOW DIRT 230KV
SITE BOUNDARY
200' SITE BUFFER
W O O D E D
500' WASTE LIMIT
500' WASTE LIMIT
200' UNDISTURBED BUFFER
EXIST. ACC. ROAD
HOLLINGSWORTH FERRY ROAD
CELL 3
CELL 2
FOR FINAL COVER DETAILS SEE DWG. H1C11146
G H1C11137
F H1C11137
REMOVE TEMP. CAP AND CONNECT TO EXITSTING 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE (SEE DWG. H1C11148)
REMOVE TEMP. CAP AND CONNECT TO EXISTING 16" DIA. CARRIER PIPE W/20" DIA. CONTAINMENT PIPE (SEE DWG. H1C11148)
FOR TYPICAL CONCRETE FLUME SECTIONS AND DETAILS, SEE H1C11148 (NOTE: ALL FLUMES FOR CELL 3 HAVE 4' BOTTOM WIDTHS)
W.P. 2' F.B. DITCH W/3:1 S.S. EL. 869.15 (SEE DWG. H1C11146)
W.P. 2' F.B. DITCH W/3:1 S.S. EL. 869.15 SEE DWG. H1C11146
LIMITS OF WASTE
16' WIDE 8' TALL BOTTOMLESS CULVERT
STREAM RELOCATION AREA; GRADING MAY VARY IN FIELD
FOR TYPICAL CONCRETE FLUME SECTIONS AND DETAILS SEE H1C11148 (NOTE: ALL FLUMES FOR CELL 3 HAVE 4' BOTTOM WIDTHS)
SLURRY LINES FROM BOOSTER PUMPS, (EXISTING) TO BE REMOVED UPON TERMINATION OF SLUICING OPERATIONS (SEE NOTE NO. 9)
BEGIN ℄ 2' F.B. DITCH W/3:1 S.S. EL. 869.45 (SEE DWG. H1C11146)
BEGIN ℄ 2' F.B. DITCH W/3:1 S.S. EL. 870.01 SEE DWG. H1C11146
W.P. ℄ 2' F.B. DITCH W/3:1 S.S. EL. 869.15 SEE DWG. H1C11146
8' SECURITY FENCE, SEE DWG. H1C11147
SECURITY ROAD, SEE DWG. H1C11127
℄ 10' DITCH
872.68
830.90
840.00
-1.31%
-4.0%
-5.77%
Ds3
GYP-2
GYP-3
GYP-4
GYP-5
GYP-7
GYP-8
GYP-9
GYP-10
GYP-11
GYP-12
GYP-17
GYP-18
GYP-31
HP1
HP2
HP4
HP5
HP7
HP8
HP9
HP10
HP12
HP13
HP14
HP15
HP16
HP17
HP18
HP19
HP20
HP22
HP23
HP24
HP25
HP26
HP28
HP29
HP30
HP31
HP32
HP34
HP35
3:1
2.5:1
5

LEGEND:

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

EROSION CONTROL LEGEND

Ds3 DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli
Digitally signed by Tammy Buchli Date: 2025.10.27 08:45:43 -04'00'

REFERENCES:

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

NOTES:

1. ALL SURFACE WATER CONTAINMENT STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
2. SEE NOTE 3 ON DRAWING H1C11122 FOR THE REFERENCE TO DELINEATED STREAMS AND WETLAND INFORMATION.
3. ANY IMPACT TO JURISDICTIONAL STREAMS, WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES ARMY CORP OF ENGINEERS (COE) APPROVAL, AND GEORGIA EPD 401 WATER QUALITY CERTIFICATION AND A GA EPD STREAM BUFFER VARIANCE. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN THE COE PERMIT IS APPROVED.
4. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
5. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
6. SEE DRAWING H1C11149 FOR EROSION CONTROL NOTES.
7. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
8. FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11146.
9. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.
10. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF-SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.
11. BORING LOCATIONS AND VICINITY WILL BE RESTORED TO A NATURAL STATE FOLLOWING COMPLETION OF THE BORINGS.

No. 12687
Gary H McWhorter 10/21/25

NO. 27185
R. BRANT LANE
10/21/25

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

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	**H1C11134**	1	FINAL	5

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
5	10-21-2025	COMPLETE REMOVAL OF 36" HDPE PIPE, MANHOLE AND BERM, RECONSTRUCTION OF DITCH; REMOVED RETAINING WALL [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
4	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM AND UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
3	05-03-2024	STREAM RELOCATION GRADING MODIFICATION TO INCLUDE RETAINING WALL [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
2	01-08-2024	ADD LEACHATE SUMP AND CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
1	10-10-2023	REVISED PROPERTY BUFFER AND BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

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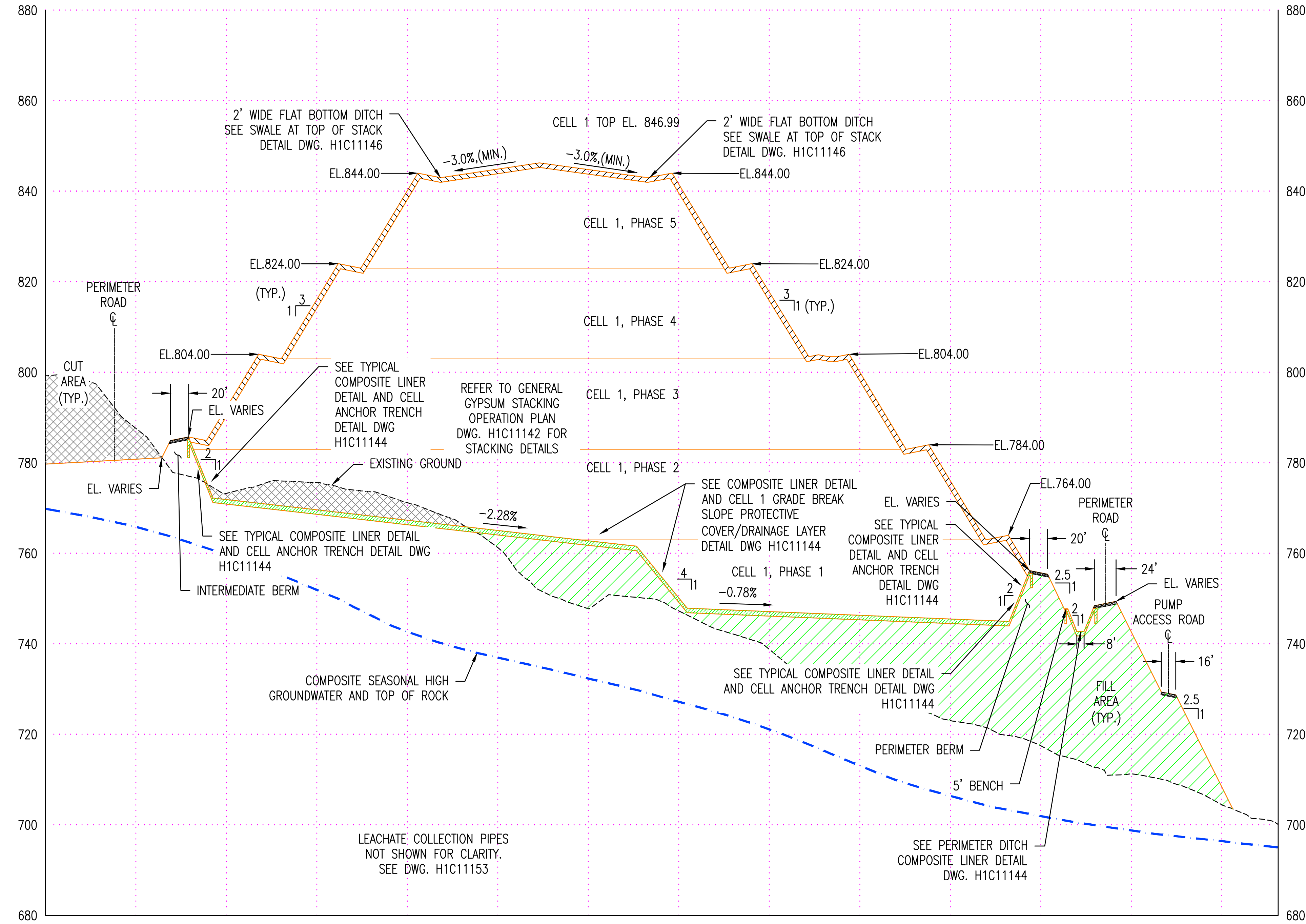
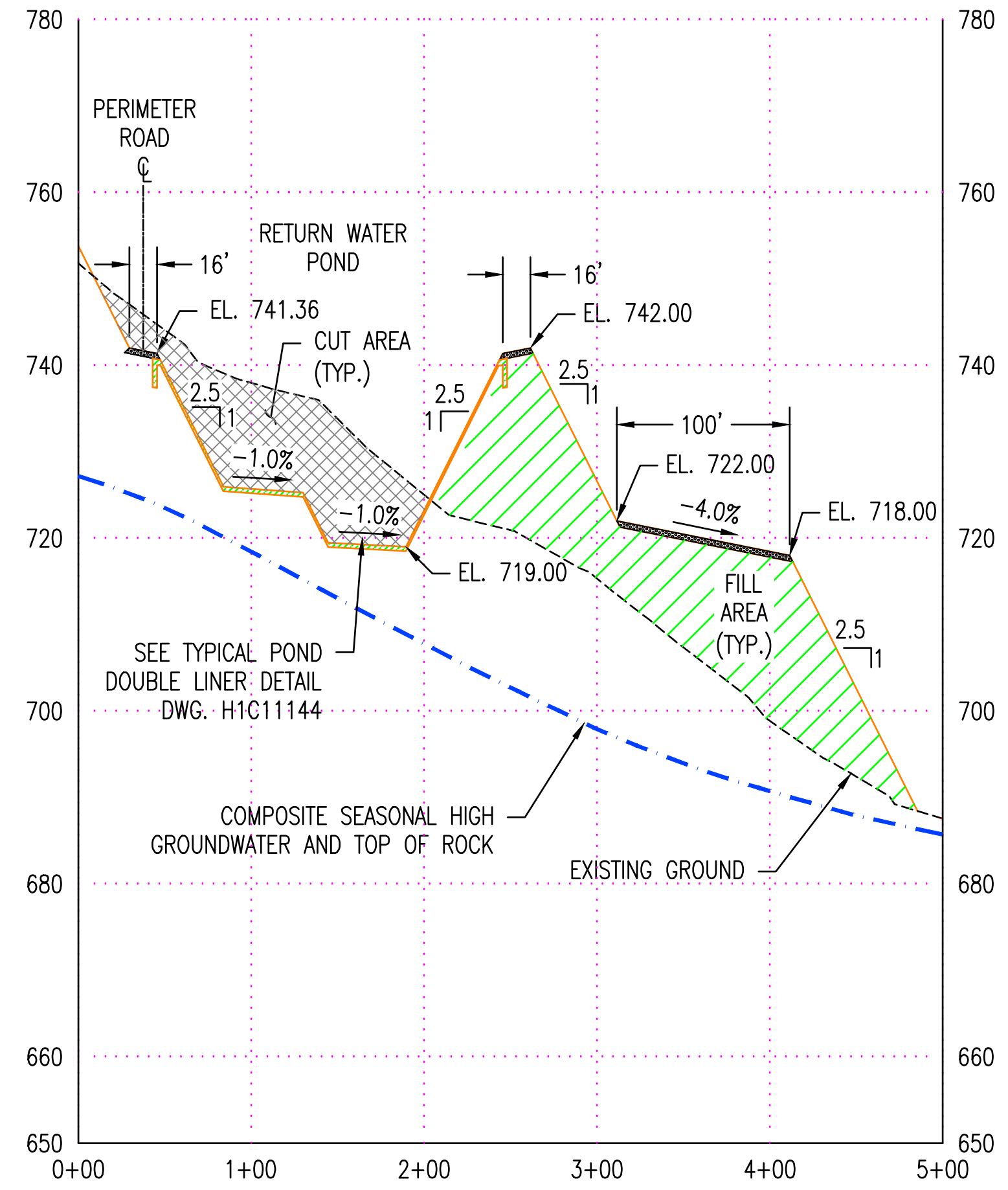
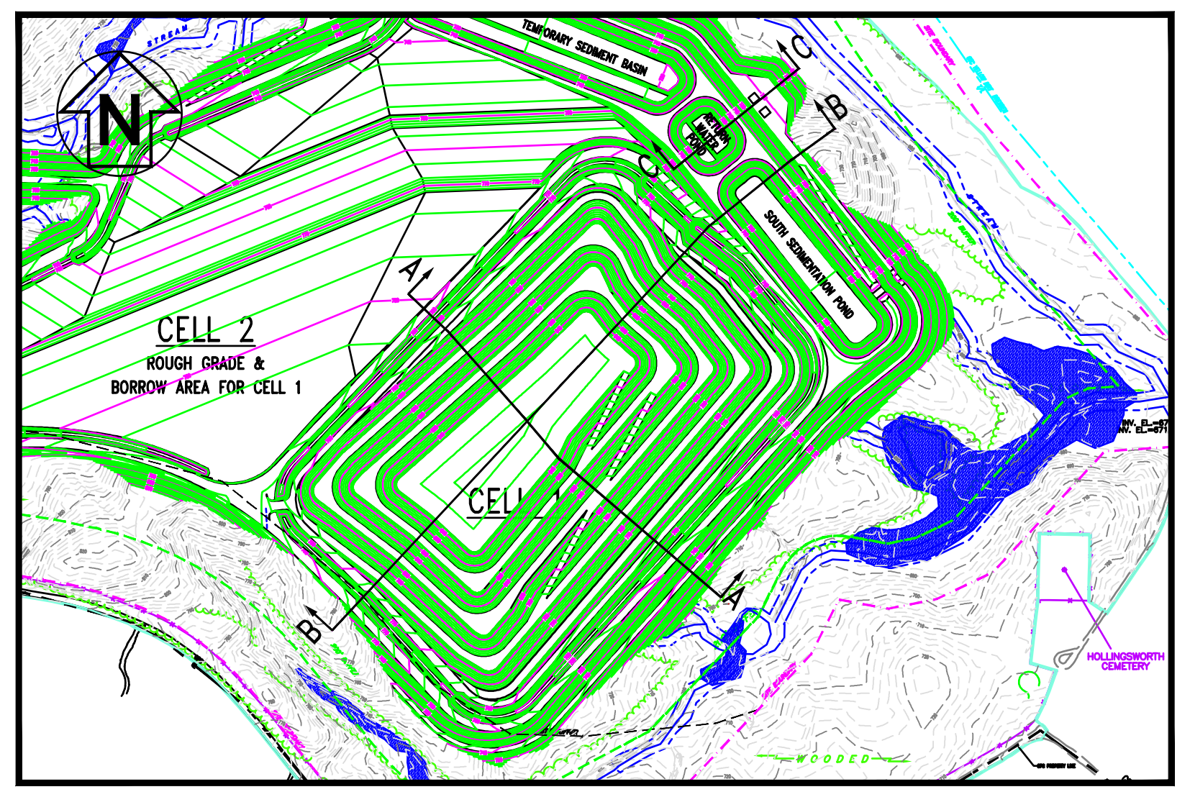
target ZERO Every day, every job, safely.


2' WIDE FLAT BOTTOM DITCH SEE SWALE AT TOP OF STACK DETAIL DWG. H1C11146
CELL 1 TOP EL. 846.99
-3.0% (MIN.)
EL.844.00
CELL 1, PHASE 5
EL.824.00
CELL 1, PHASE 4
3 1 (TYP.)
PERIMETER ROAD ℄
CUT AREA (TYP.)
EL.804.00
20'
EL. VARIES
SEE TYPICAL COMPOSITE LINER DETAIL AND CELL ANCHOR TRENCH DETAIL DWG H1C11144
REFER TO GENERAL GYPSUM STACKING OPERATION PLAN DWG. H1C11142 FOR STACKING DETAILS
CELL 1, PHASE 3
EL.784.00
EXISTING GROUND
CELL 1, PHASE 2
EL.764.00
SEE COMPOSITE LINER DETAIL AND CELL 1 GRADE BREAK SLOPE PROTECTIVE COVER/DRAINAGE LAYER DETAIL DWG H1C11144
-2.28%
SEE TYPICAL COMPOSITE LINER DETAIL AND CELL ANCHOR TRENCH DETAIL DWG H1C11144
INTERMEDIATE BERM
CELL 1, PHASE 1
-0.78%
PERIMETER ROAD
24'
PUMP ACCESS ROAD
16'
2.5
COMPOSITE SEASONAL HIGH GROUNDWATER AND TOP OF ROCK
SEE TYPICAL COMPOSITE LINER DETAIL AND CELL ANCHOR TRENCH DETAIL DWG H1C11144
FILL AREA (TYP.)
PERIMETER BERM
5' BENCH
LEACHATE COLLECTION PIPES NOT SHOWN FOR CLARITY. SEE DWG. H1C11153
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
880
860
840
820
800
780
760
740
720
700
680
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
12+00
13+00

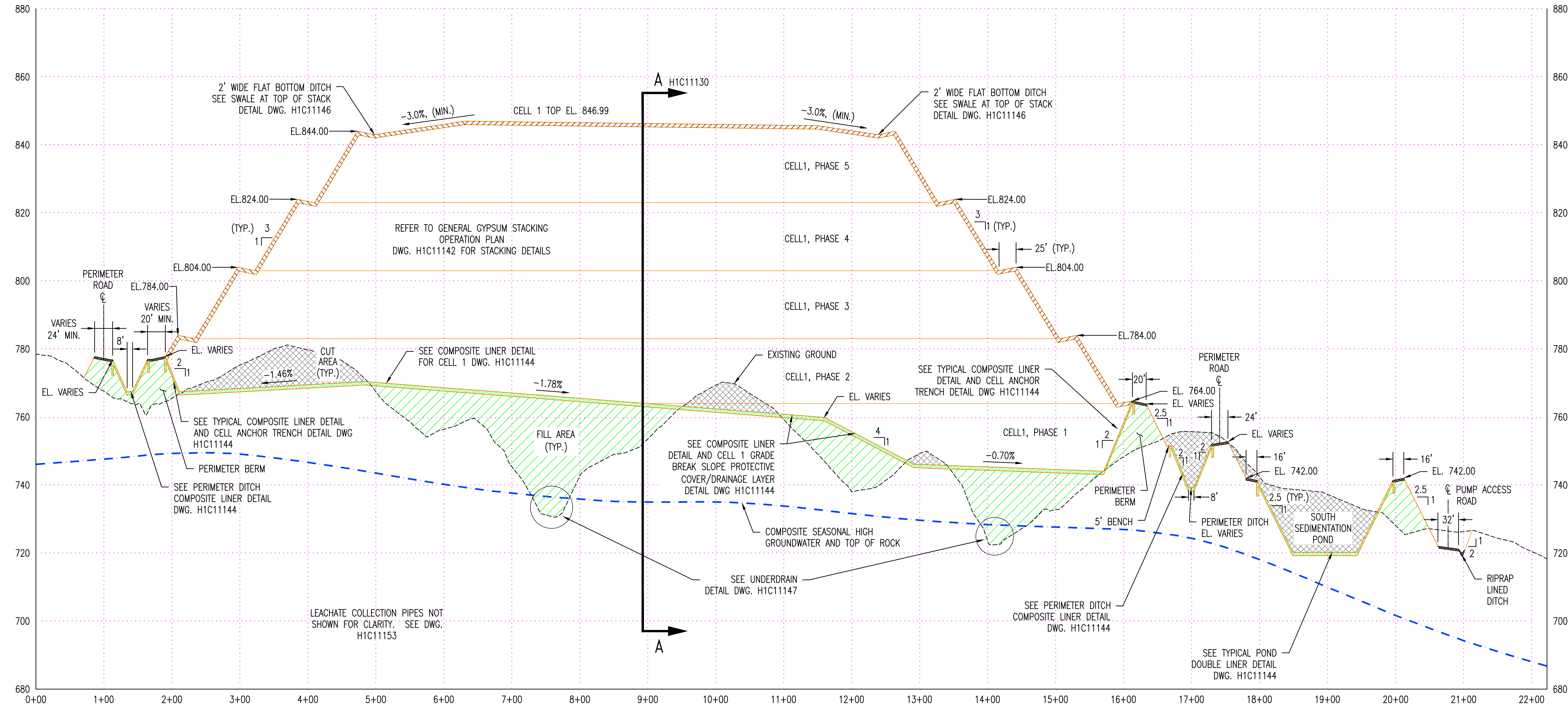
SECTION A-A
SCALE H: 1"=100' V 1"=20'


PERIMETER ROAD ℄
16'
EL. 741.36
RETURN WATER POND
CUT AREA (TYP.)
16'
EL. 742.00
2.5
-1.0%
-1.0%
EL. 719.00
100'
EL. 722.00
-4.0%
EL. 718.00
SEE TYPICAL POND DOUBLE LINER DETAIL DWG. H1C11144
FILL AREA (TYP.)
COMPOSITE SEASONAL HIGH GROUNDWATER AND TOP OF ROCK
EXISTING GROUND
780
760
740
720
700
680
660
650
0+00
1+00
2+00
3+00
4+00
5+00

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


N
CELL 2
CELL 1
A
B
C

KEY PLAN
N.T.S.


2' WIDE FLAT BOTTOM DITCH SEE SWALE AT TOP OF STACK DETAIL DWG. H1C11146
-3.0% (MIN.)
CELL 1 TOP EL. 846.99
A H1C11130
EL.844.00
CELL1, PHASE 5
EL.824.00
(TYP.) 3 1
REFER TO GENERAL GYPSUM STACKING OPERATION PLAN DWG. H1C11142 FOR STACKING DETAILS
CELL1, PHASE 4
25' (TYP.)
EL.804.00
PERIMETER ROAD ℄
EL.784.00
VARIES 20' MIN.
VARIES 24' MIN.
CELL1, PHASE 3
EL. VARIES
CUT AREA (TYP.)
-1.46%
SEE COMPOSITE LINER DETAIL FOR CELL 1 DWG. H1C11144
EXISTING GROUND
CELL1, PHASE 2
SEE TYPICAL COMPOSITE LINER DETAIL AND CELL ANCHOR TRENCH DETAIL DWG H1C11144
-1.78%
SEE TYPICAL COMPOSITE LINER DETAIL AND CELL ANCHOR TRENCH DETAIL DWG H1C11144
PERIMETER BERM
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
FILL AREA (TYP.)
SEE COMPOSITE LINER DETAIL AND CELL 1 GRADE BREAK SLOPE PROTECTIVE COVER/DRAINAGE LAYER DETAIL DWG H1C11144
CELL1, PHASE 1
-0.70%
COMPOSITE SEASONAL HIGH GROUNDWATER AND TOP OF ROCK
SEE UNDERDRAIN DETAIL DWG. H1C11147
LEACHATE COLLECTION PIPES NOT SHOWN FOR CLARITY. SEE DWG. H1C11153
EL.784.00
PERIMETER ROAD ℄
20'
EL. 764.00
EL. VARIES
24'
PERIMETER BERM
5' BENCH
16'
EL. VARIES
EL. 742.00
2.5 (TYP.)
PERIMETER DITCH EL. VARIES
SOUTH SEDIMENTATION POND
16'
EL. 742.00
PUMP ACCESS ROAD
32'
RIPRAP LINED DITCH
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
SEE TYPICAL POND DOUBLE LINER DETAIL DWG. H1C11144
A
880
860
840
820
800
780
760
740
720
700
680
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00

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

NOTES:

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

REFERENCES:

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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2024.02.12 11:36:58 -05'00'

NO. 27185
R. BRANT LANE
1/8/24

Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

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

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
1	01-08-2024	REVISED SEISMIC NOTE TO COINCIDE WITH SITE LIMITATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

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

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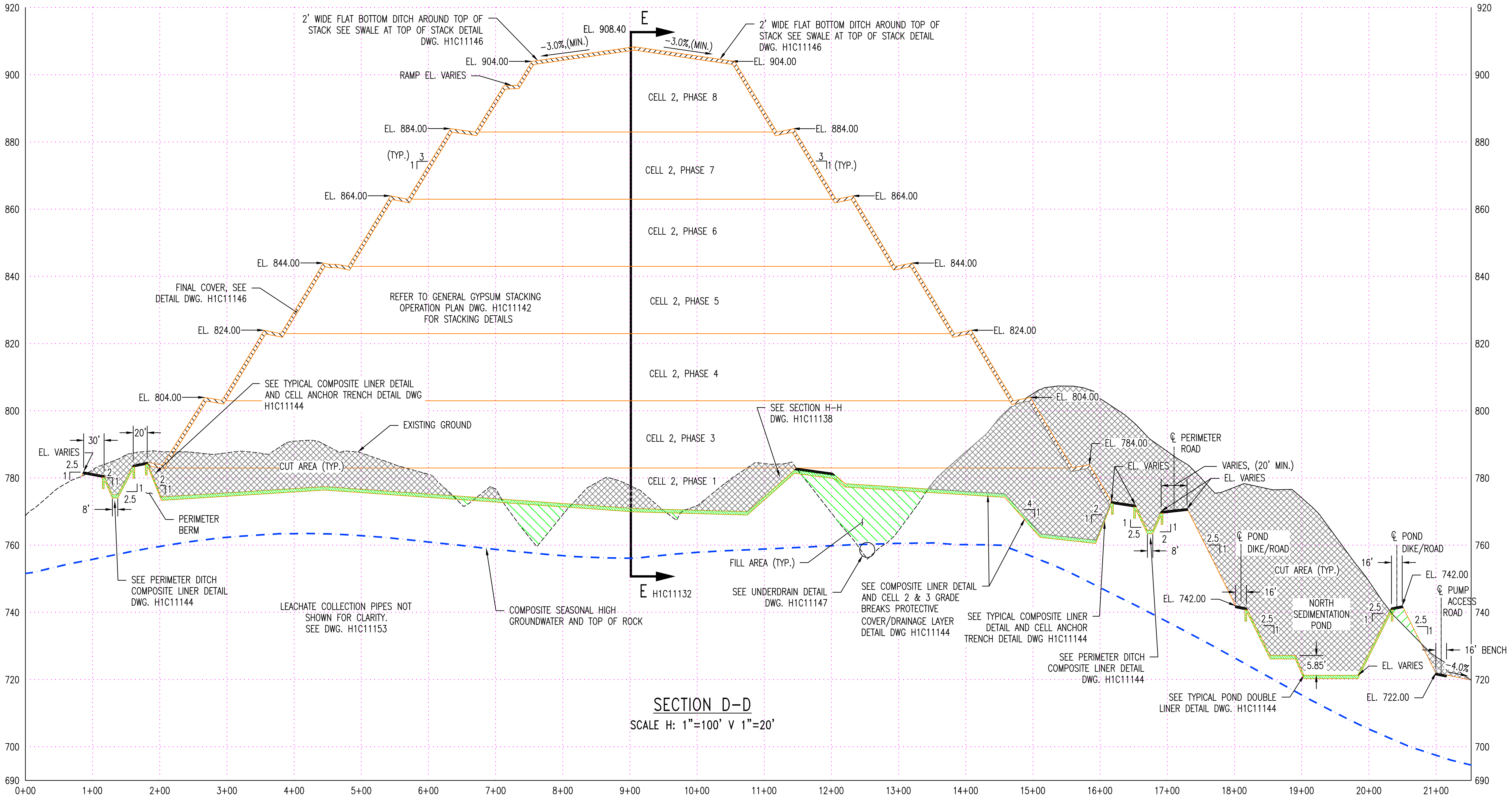
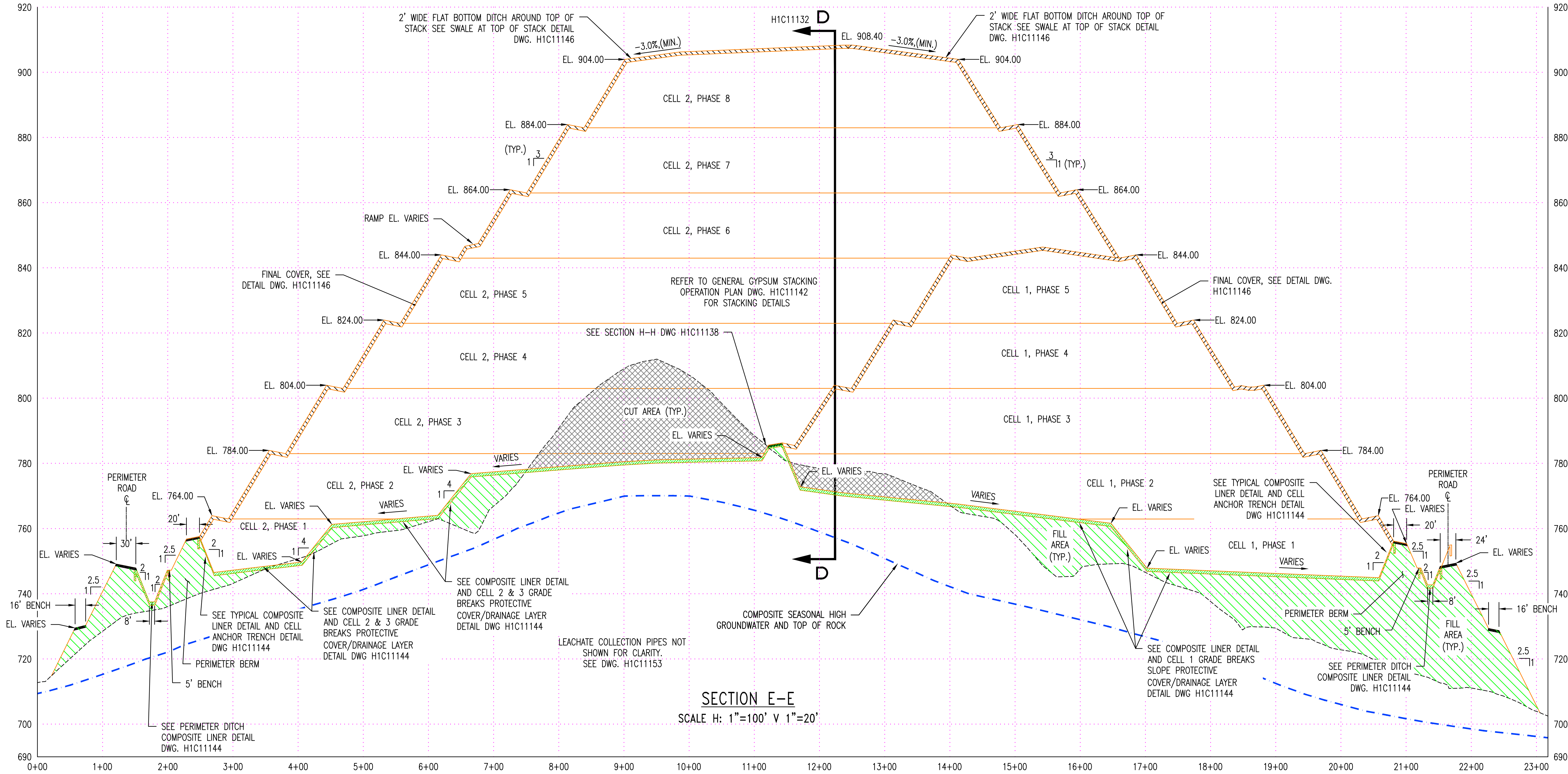


2' WIDE FLAT BOTTOM DITCH AROUND TOP OF STACK SEE SWALE AT TOP OF STACK DETAIL DWG. H1C11146
EL. 908.40
E
-3.0%(MIN.)
EL. 904.00
RAMP EL. VARIES
CELL 2, PHASE 8
CELL 2, PHASE 7
CELL 2, PHASE 6
CELL 2, PHASE 5
CELL 2, PHASE 4
CELL 2, PHASE 3
CELL 2, PHASE 1
EL. 884.00
(TYP.)
3
1
1 (TYP.)
EL. 864.00
EL. 844.00
EL. 824.00
EL. 804.00
EL. 784.00
FINAL COVER, SEE DETAIL DWG. H1C11146
REFER TO GENERAL GYPSUM STACKING OPERATION PLAN DWG. H1C11142 FOR STACKING DETAILS
SEE TYPICAL COMPOSITE LINER DETAIL AND CELL ANCHOR TRENCH DETAIL DWG H1C11144
EXISTING GROUND
CUT AREA (TYP.)
EL. VARIES
30'
20'
2.5
8'
PERIMETER BERM
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
LEACHATE COLLECTION PIPES NOT SHOWN FOR CLARITY. SEE DWG. H1C11153
COMPOSITE SEASONAL HIGH GROUNDWATER AND TOP OF ROCK
E H1C11132
FILL AREA (TYP.)
SEE UNDERDRAIN DETAIL DWG. H1C11147
SEE SECTION H-H DWG. H1C11138
SEE COMPOSITE LINER DETAIL AND CELL 2 & 3 GRADE BREAKS PROTECTIVE COVER/DRAINAGE LAYER DETAIL DWG H1C11144
SEE TYPICAL COMPOSITE LINER DETAIL AND CELL ANCHOR TRENCH DETAIL DWG H1C11144
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
℄ PERIMETER ROAD
VARIES, (20' MIN.)
EL. VARIES
℄ POND DIKE/ROAD
EL. 742.00
16'
NORTH SEDIMENTATION POND
5.85'
EL. 722.00
SEE TYPICAL POND DOUBLE LINER DETAIL DWG. H1C11144
℄ PUMP ACCESS ROAD
16' BENCH
4.0%
920
900
880
860
840
820
800
780
760
740
720
700
690
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21+00

SECTION D-D

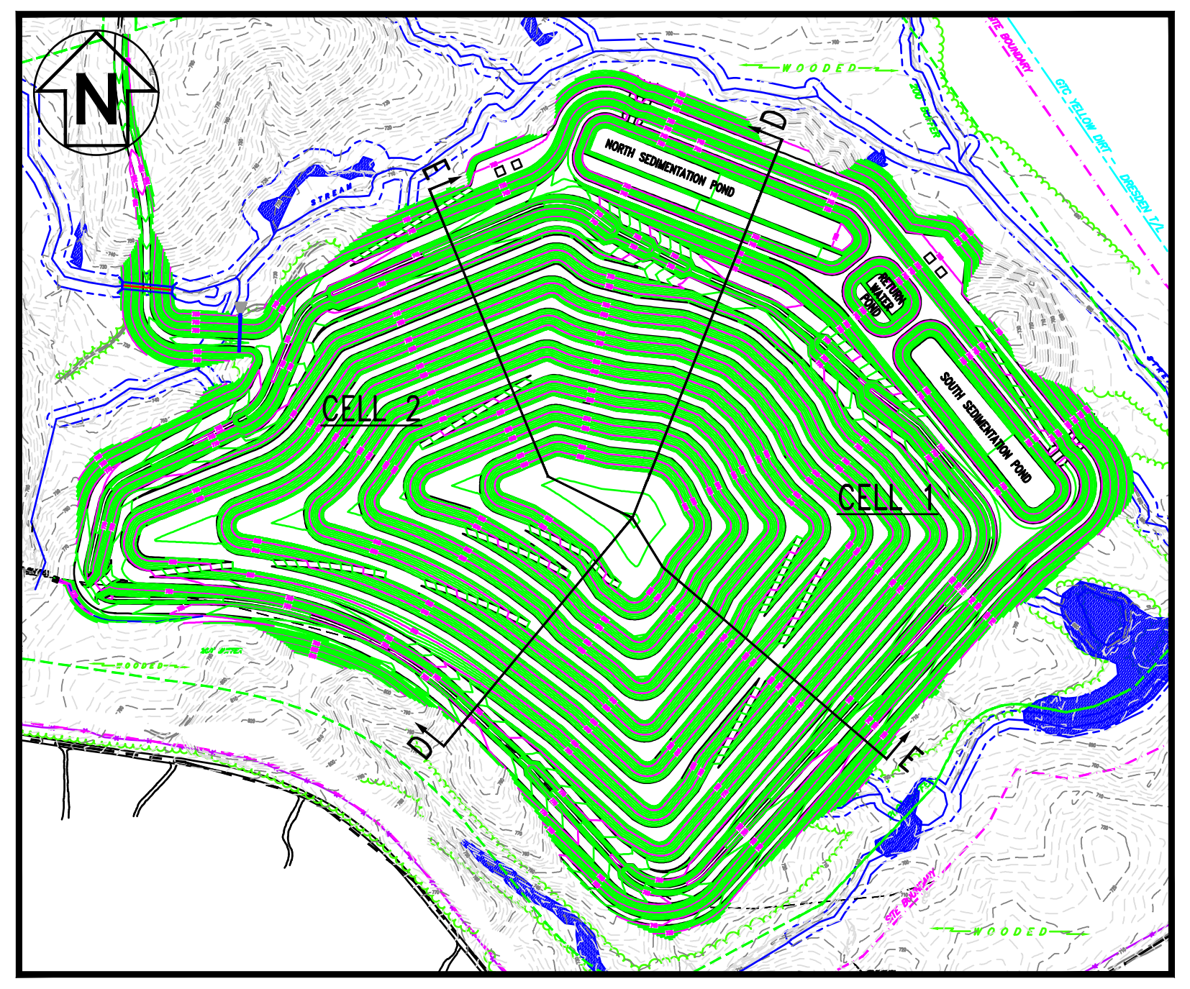
SCALE H: 1"=100' V 1"=20'



2' WIDE FLAT BOTTOM DITCH AROUND TOP OF STACK SEE SWALE AT TOP OF STACK DETAIL DWG. H1C11146
H1C11132 D
EL. 908.40
-3.0%(MIN.)
EL. 904.00
CELL 2, PHASE 8
CELL 2, PHASE 7
CELL 2, PHASE 6
CELL 2, PHASE 5
CELL 2, PHASE 4
CELL 2, PHASE 3
CELL 2, PHASE 2
CELL 2, PHASE 1
CELL 1, PHASE 5
CELL 1, PHASE 4
CELL 1, PHASE 3
CELL 1, PHASE 2
CELL 1, PHASE 1
EL. 884.00
EL. 864.00
EL. 844.00
EL. 824.00
EL. 804.00
EL. 784.00
EL. 764.00
(TYP.)
3
1
1 (TYP.)
RAMP EL. VARIES
FINAL COVER, SEE DETAIL DWG. H1C11146
REFER TO GENERAL GYPSUM STACKING OPERATION PLAN DWG. H1C11142 FOR STACKING DETAILS
SEE SECTION H-H DWG H1C11138
CUT AREA (TYP.)
EL. VARIES
VARIES
PERIMETER ROAD ℄
30'
20'
16' BENCH
EL. VARIES
SEE TYPICAL COMPOSITE LINER DETAIL AND CELL ANCHOR TRENCH DETAIL DWG H1C11144
SEE COMPOSITE LINER DETAIL AND CELL 2 & 3 GRADE BREAKS PROTECTIVE COVER/DRAINAGE LAYER DETAIL DWG H1C11144
PERIMETER BERM
5' BENCH
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
LEACHATE COLLECTION PIPES NOT SHOWN FOR CLARITY. SEE DWG. H1C11153
COMPOSITE SEASONAL HIGH GROUNDWATER AND TOP OF ROCK
D
FILL AREA (TYP.)
SEE TYPICAL COMPOSITE LINER DETAIL AND CELL ANCHOR TRENCH DETAIL DWG H1C11144
SEE COMPOSITE LINER DETAIL AND CELL 1 GRADE BREAKS PROTECTIVE SLOPE PROTECTIVE COVER/DRAINAGE LAYER DETAIL DWG H1C11144
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
FINAL COVER, SEE DETAIL DWG. H1C11146
PERIMETER ROAD ℄
24'
2.5
8'
920
900
880
860
840
820
800
780
760
740
720
700
690
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00

SECTION E-E

SCALE H: 1"=100' V 1"=20'



N
CELL 2
CELL 1
D
E

KEY PLAN

N.T.S.

NOTES:

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

REFERENCES:

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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2024.02.12 11:36:58 -05'00'

NO. 27185 R. BRANT LANE 1/8/24

Southern Company Services, Inc.

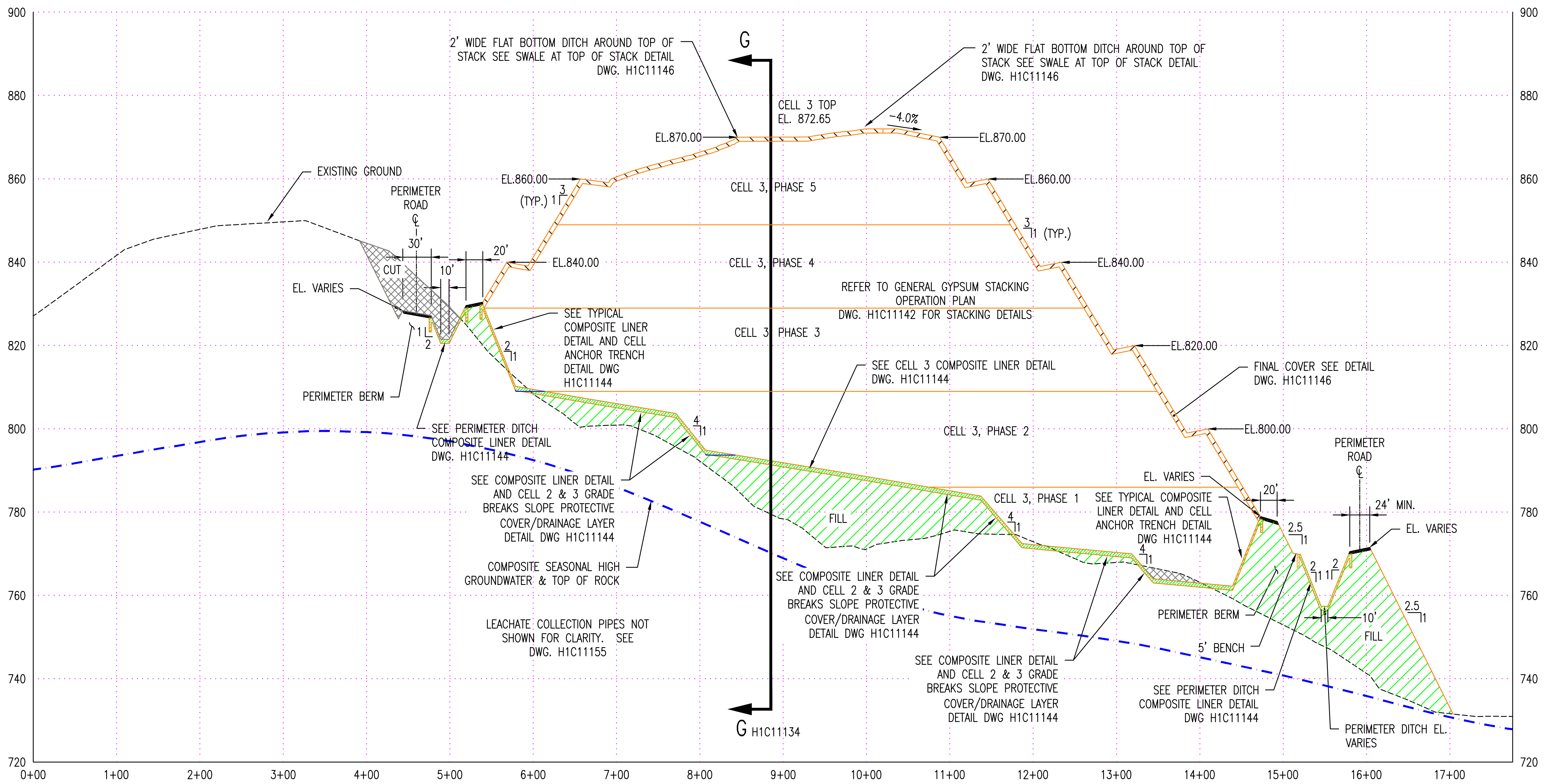
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

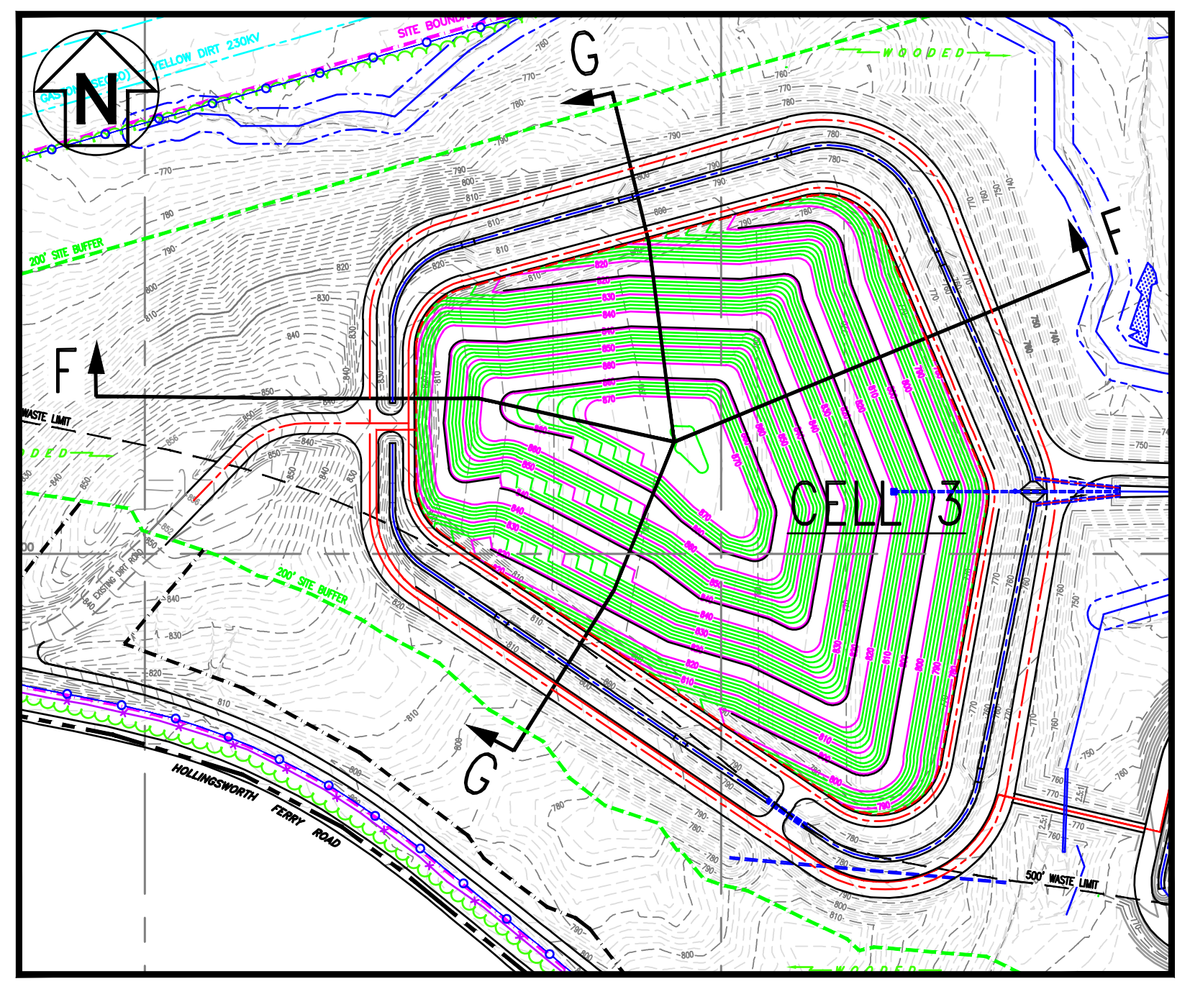
REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
1	01–08–2024	REVISED SEISMIC NOTE TO COINCIDE WITH SITE LIMITATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09–23–2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

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

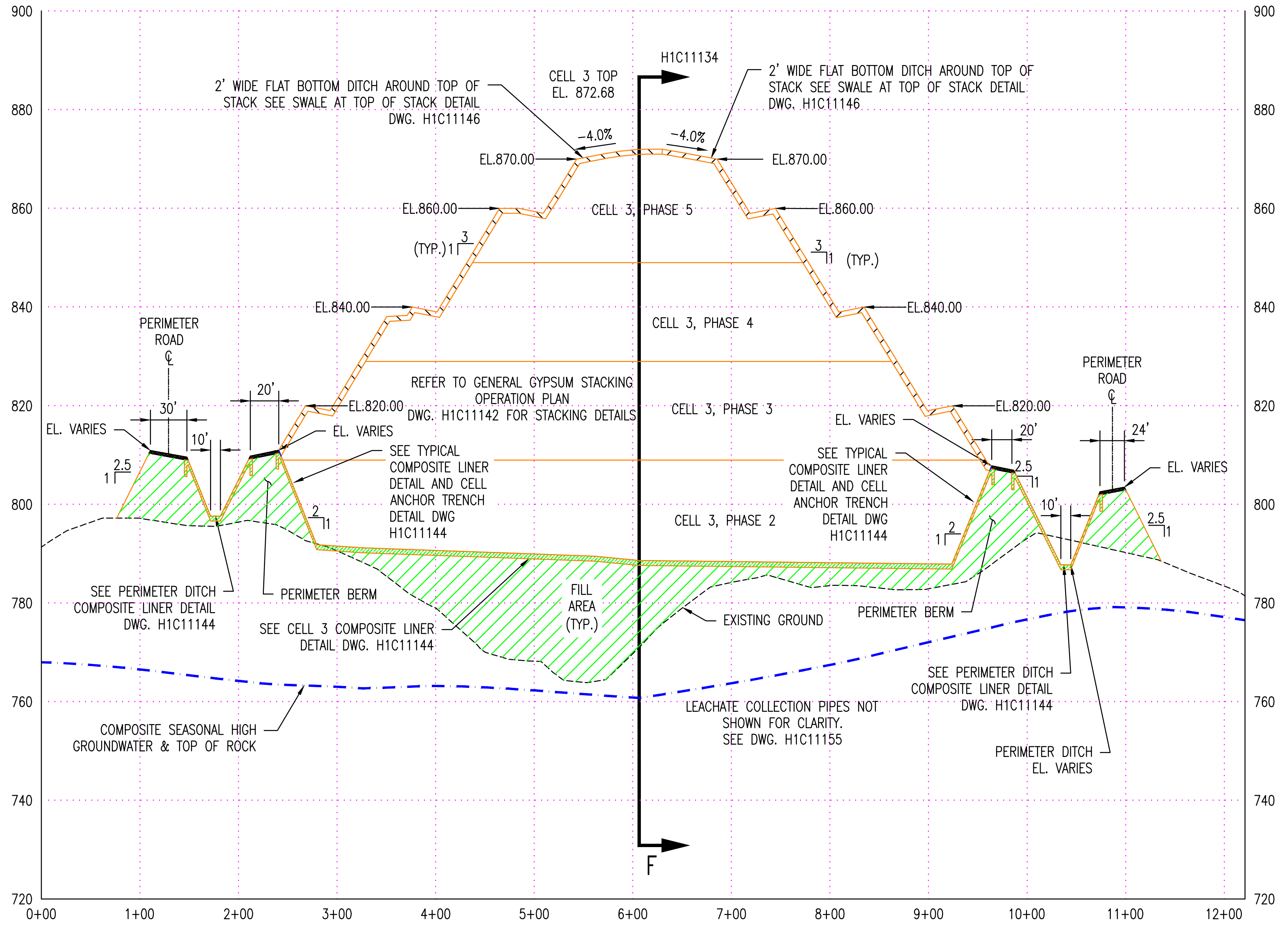
Acad2008 ANSI F: 40x28


900
880
860
840
820
800
780
760
740
720
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
2' WIDE FLAT BOTTOM DITCH AROUND TOP OF STACK SEE SWALE AT TOP OF STACK DETAIL DWG. H1C11146
G
CELL 3 TOP EL. 872.65
~4.0%
EL.870.00
EL.860.00
EL.840.00
EL.820.00
EL.800.00
(TYP.)
EXISTING GROUND
PERIMETER ROAD
30'
10'
20'
CUT
EL. VARIES
PERIMETER BERM
CELL 3, PHASE 5
CELL 3, PHASE 4
CELL 3, PHASE 3
CELL 3, PHASE 2
CELL 3, PHASE 1
REFER TO GENERAL GYPSUM STACKING OPERATION PLAN DWG. H1C11142 FOR STACKING DETAILS
SEE TYPICAL COMPOSITE LINER DETAIL AND CELL ANCHOR TRENCH DETAIL DWG H1C11144
SEE CELL 3 COMPOSITE LINER DETAIL DWG. H1C11144
FINAL COVER SEE DETAIL DWG. H1C11146
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
SEE COMPOSITE LINER DETAIL AND CELL 2 & 3 GRADE BREAKS SLOPE PROTECTIVE COVER/DRAINAGE LAYER DETAIL DWG H1C11144
COMPOSITE SEASONAL HIGH GROUNDWATER & TOP OF ROCK
LEACHATE COLLECTION PIPES NOT SHOWN FOR CLARITY. SEE DWG. H1C11155
FILL
EL. VARIES
SEE TYPICAL COMPOSITE LINER DETAIL AND CELL ANCHOR TRENCH DETAIL DWG H1C11144
24' MIN.
5' BENCH
PERIMETER DITCH EL. VARIES
G H1C11134

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



KEY PLAN
N.T.S.


900
880
860
840
820
800
780
760
740
720
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
12+00
2' WIDE FLAT BOTTOM DITCH AROUND TOP OF STACK SEE SWALE AT TOP OF STACK DETAIL DWG. H1C11146
CELL 3 TOP EL. 872.68
H1C11134
~4.0%
EL.870.00
EL.860.00
EL.840.00
EL.820.00
(TYP.)
CELL 3, PHASE 5
CELL 3, PHASE 4
CELL 3, PHASE 3
CELL 3, PHASE 2
PERIMETER ROAD
30'
10'
20'
24'
EL. VARIES
REFER TO GENERAL GYPSUM STACKING OPERATION PLAN DWG. H1C11142 FOR STACKING DETAILS
SEE TYPICAL COMPOSITE LINER DETAIL AND CELL ANCHOR TRENCH DETAIL DWG H1C11144
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
PERIMETER BERM
SEE CELL 3 COMPOSITE LINER DETAIL DWG. H1C11144
FILL AREA (TYP.)
EXISTING GROUND
COMPOSITE SEASONAL HIGH GROUNDWATER & TOP OF ROCK
LEACHATE COLLECTION PIPES NOT SHOWN FOR CLARITY. SEE DWG. H1C11155
PERIMETER DITCH EL. VARIES
F

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

NOTES:

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

REFERENCES:

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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2024.02.12 11:36:58 -05'00'

NO. 27185
R. BRANT LANE
1/8/24

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE		BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE		BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE		BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE		BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 1	DATE 01-08-2024	REVISED SEISMIC NOTE TO COINCIDE WITH SITE LIMITATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
REVISION 0	DATE 09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

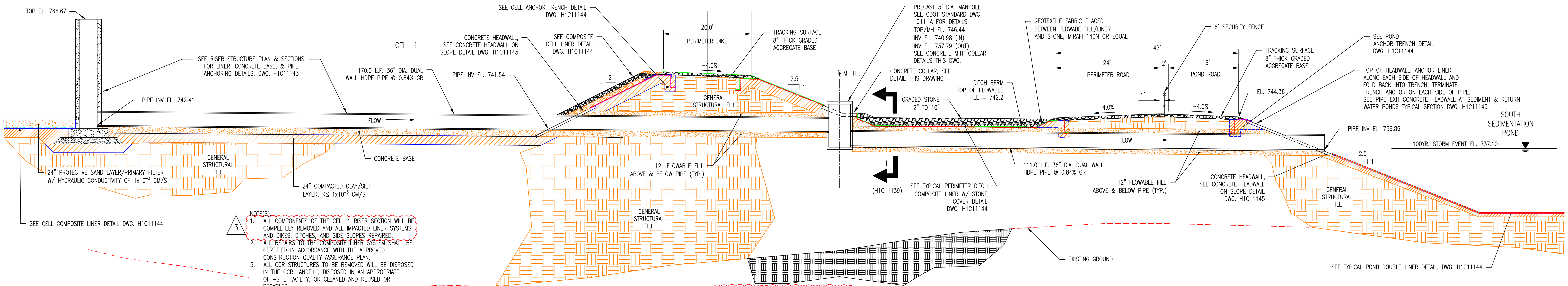
Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

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

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

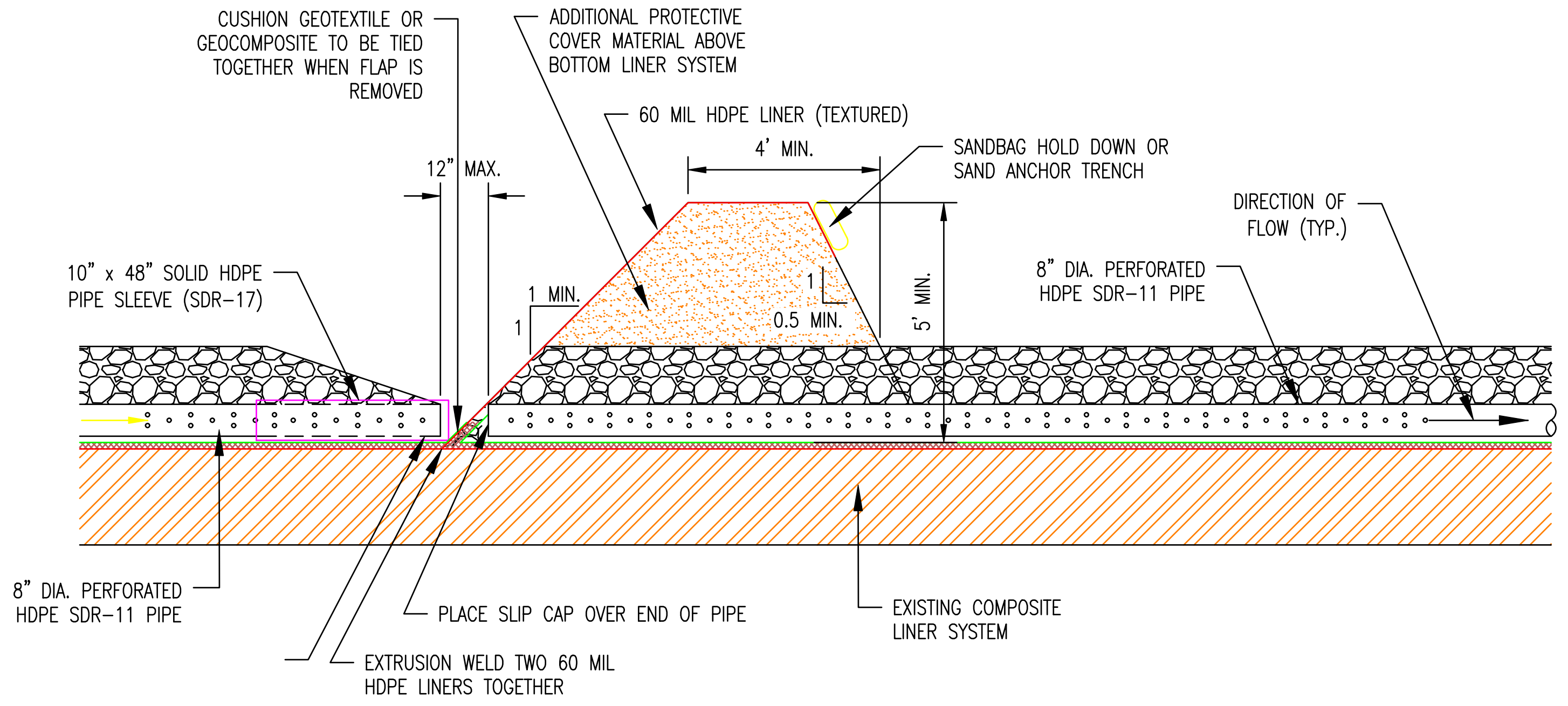
Acad2008 ANSI F: 40x28


TOP EL. 766.67
SEE RISER STRUCTURE PLAN & SECTIONS FOR LINER, CONCRETE BASE, & PIPE ANCHORING DETAILS, DWG. H1C11143
PIPE INV EL. 742.41
CELL 1
170.0 L.F. 36" DIA. DUAL WALL HDPE PIPE @ 0.84% GR
PIPE INV EL. 741.54
CONCRETE HEADWALL, SEE CONCRETE HEADWALL ON SLOPE DETAIL DWG. H1C11145
SEE COMPOSITE CELL LINER DETAIL DWG. H1C11144
SEE CELL ANCHOR TRENCH DETAIL DWG. H1C11144
20.0'
PERIMETER DIKE
-4.0%
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
2
1
2.5
1
FLOW
GENERAL STRUCTURAL FILL
CONCRETE BASE
24" PROTECTIVE SAND LAYER/PRIMARY FILTER W/ HYDRAULIC CONDUCTIVITY OF 1x10⁻³ CM/S
24" COMPACTED CLAY/SILT LAYER, K≤ 1x10⁻⁵ CM/S
12" FLOWABLE FILL ABOVE & BELOW PIPE (TYP.)
SEE CELL COMPOSITE LINER DETAIL DWG. H1C11144
℄ M.H.
PRECAST 5' DIA. MANHOLE SEE GDOT STANDARD DWG 1011-A FOR DETAILS TOP/MH EL. 746.44 INV EL. 740.98 (IN) INV EL. 737.79 (OUT) SEE CONCRETE M.H. COLLAR DETAILS THIS DWG.
CONCRETE COLLAR, SEE DETAIL THIS DRAWING
GRADED STONE 2" TO 10"
DITCH BERM TOP OF FLOWABLE FILL = 742.2
GEOTEXTILE FABRIC PLACED BETWEEN FLOWABE FILL/LINER AND STONE, MIRAFI 140N OR EQUAL
6' SECURITY FENCE
42'
24'
2'
16'
PERIMETER ROAD
POND ROAD
1'
-4.0%
-4.0%
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
EL. 744.36
SEE POND ANCHOR TRENCH DETAIL DWG. H1C11144
TOP OF HEADWALL, ANCHOR LINER ALONG EACH SIDE OF HEADWALL AND FOLD BACK INTO TRENCH. TERMINATE TRENCH ANCHOR ON EACH SIDE OF PIPE. SEE PIPE EXIT CONCRETE HEADWALL AT SEDIMENT & RETURN WATER PONDS TYPICAL SECTION DWG. H1C11145
SOUTH SEDIMENTATION POND
PIPE INV EL. 736.86
100YR. STORM EVENT EL. 737.10
2.5
1
111.0 L.F. 36" DIA. DUAL WALL HDPE PIPE @ 0.84% GR
12" FLOWABLE FILL ABOVE & BELOW PIPE (TYP.)
CONCRETE HEADWALL, SEE CONCRETE HEADWALL ON SLOPE DETAIL DWG. H1C11145
(H1C11139)
SEE TYPICAL PERIMETER DITCH COMPOSITE LINER W/ STONE COVER DETAIL DWG. H1C11144
EXISTING GROUND
SEE TYPICAL POND DOUBLE LINER DETAIL, DWG. H1C11144
3

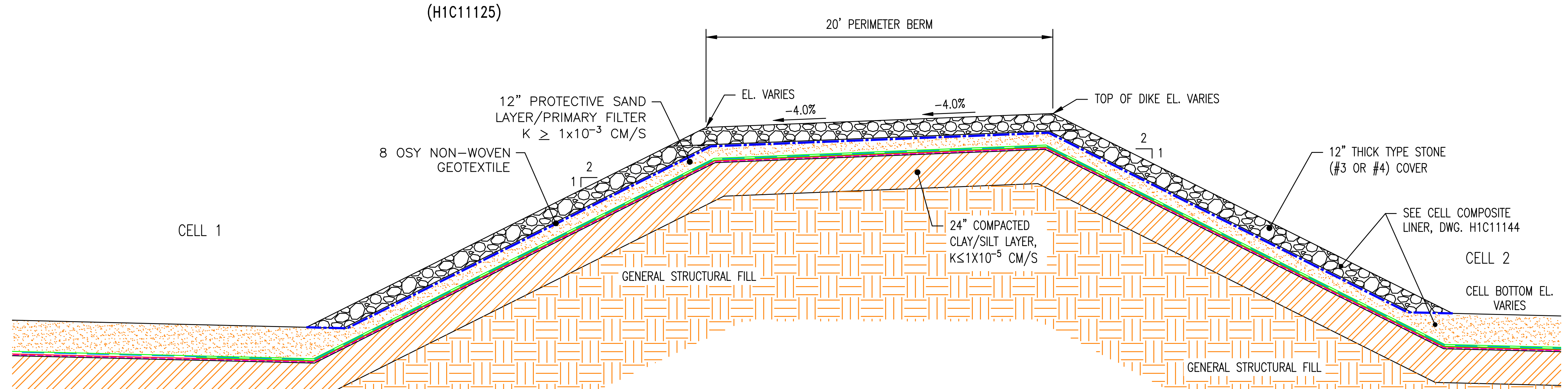
NOTE(S):

1. ALL COMPONENTS OF THE CELL 1 RISER SECTION WILL BE COMPLETELY REMOVED AND ALL IMPACTED LINER SYSTEMS AND DIKES, DITCHES, AND SIDE SLOPES REPAIRED.
2. ALL REPAIRS TO THE COMPOSITE LINER SYSTEM SHALL BE CERTIFIED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION QUALITY ASSURANCE PLAN.
3. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF-SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.

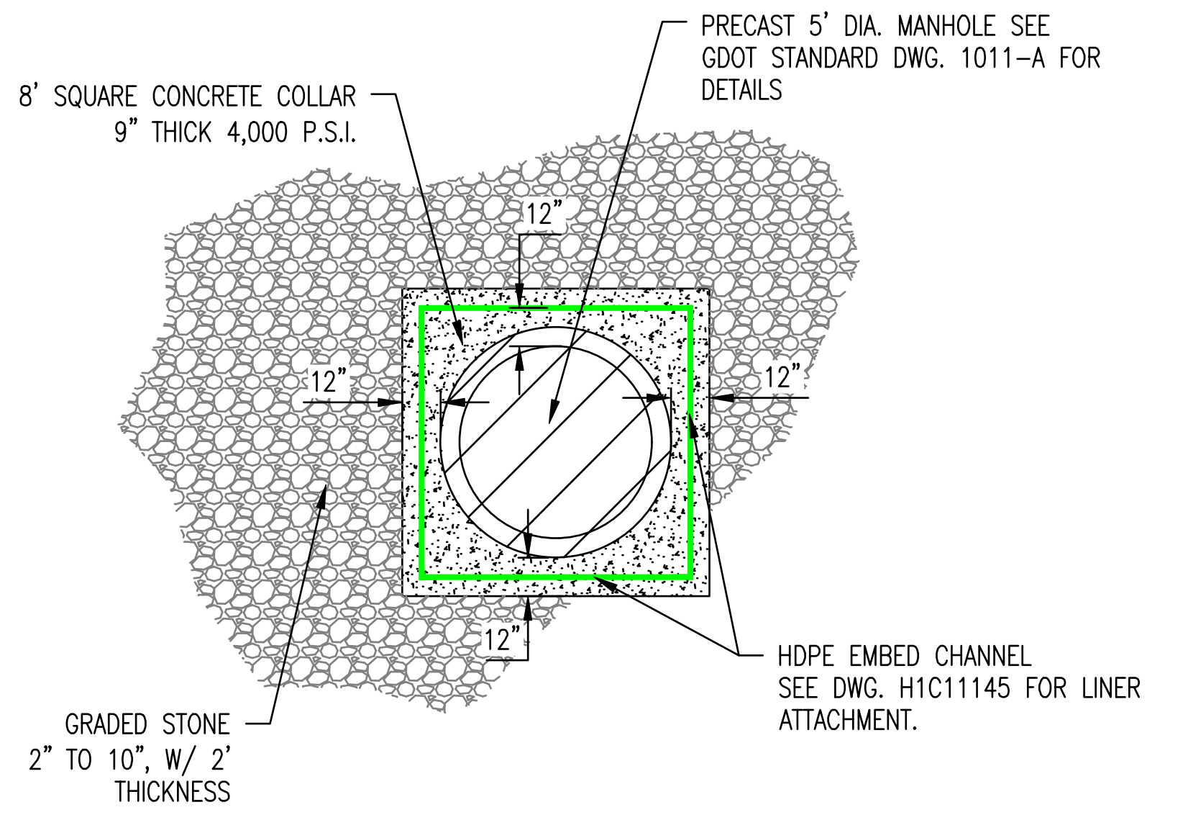
3 RISER SECTION AT CELL 1
1" = 10'
(H1C11125)


CUSHION GEOTEXTILE OR GEOCOMPOSITE TO BE TIED TOGETHER WHEN FLAP IS REMOVED
ADDITIONAL PROTECTIVE COVER MATERIAL ABOVE BOTTOM LINER SYSTEM
60 MIL HDPE LINER (TEXTURED)
12" MAX.
4' MIN.
SANDBAG HOLD DOWN OR SAND ANCHOR TRENCH
DIRECTION OF FLOW (TYP.)
10" x 48" SOLID HDPE PIPE SLEEVE (SDR-17)
1 MIN.
1
1
0.5 MIN.
5' MIN.
8" DIA. PERFORATED HDPE SDR-11 PIPE
8" DIA. PERFORATED HDPE SDR-11 PIPE
PLACE SLIP CAP OVER END OF PIPE
EXISTING COMPOSITE LINER SYSTEM
EXTRUSION WELD TWO 60 MIL HDPE LINERS TOGETHER

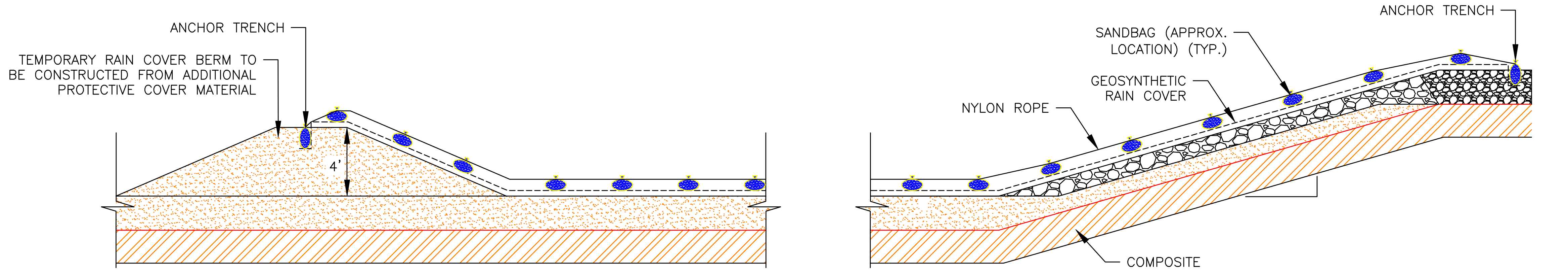
TEMPORARY INNER-CELL DIVERSION BERM
(AS NEEDED FOR STORMWATER SEPARATION DURING CCR FILLING)
SCALE: N.T.S


20' PERIMETER BERM
EL. VARIES
-4.0%
-4.0%
TOP OF DIKE EL. VARIES
12" PROTECTIVE SAND LAYER/PRIMARY FILTER K ≥ 1x10⁻³ CM/S
8 OSY NON-WOVEN GEOTEXTILE
2
1
2
1
12" THICK TYPE STONE (#3 OR #4) COVER
SEE CELL COMPOSITE LINER, DWG. H1C11144
CELL 1
CELL 2
CELL BOTTOM EL. VARIES
24" COMPACTED CLAY/SILT LAYER, K≤1X10⁻⁵ CM/S
GENERAL STRUCTURAL FILL
GENERAL STRUCTURAL FILL

SECTION H-H
1" = 10'
(H1C11125, H1C11126)


8' SQUARE CONCRETE COLLAR 9" THICK 4,000 P.S.I.
PRECAST 5' DIA. MANHOLE SEE GDOT STANDARD DWG. 1011-A FOR DETAILS
12"
12"
12"
12"
GRADED STONE 2" TO 10", W/ 2' THICKNESS
HDPE EMBED CHANNEL SEE DWG. H1C11145 FOR LINER ATTACHMENT.

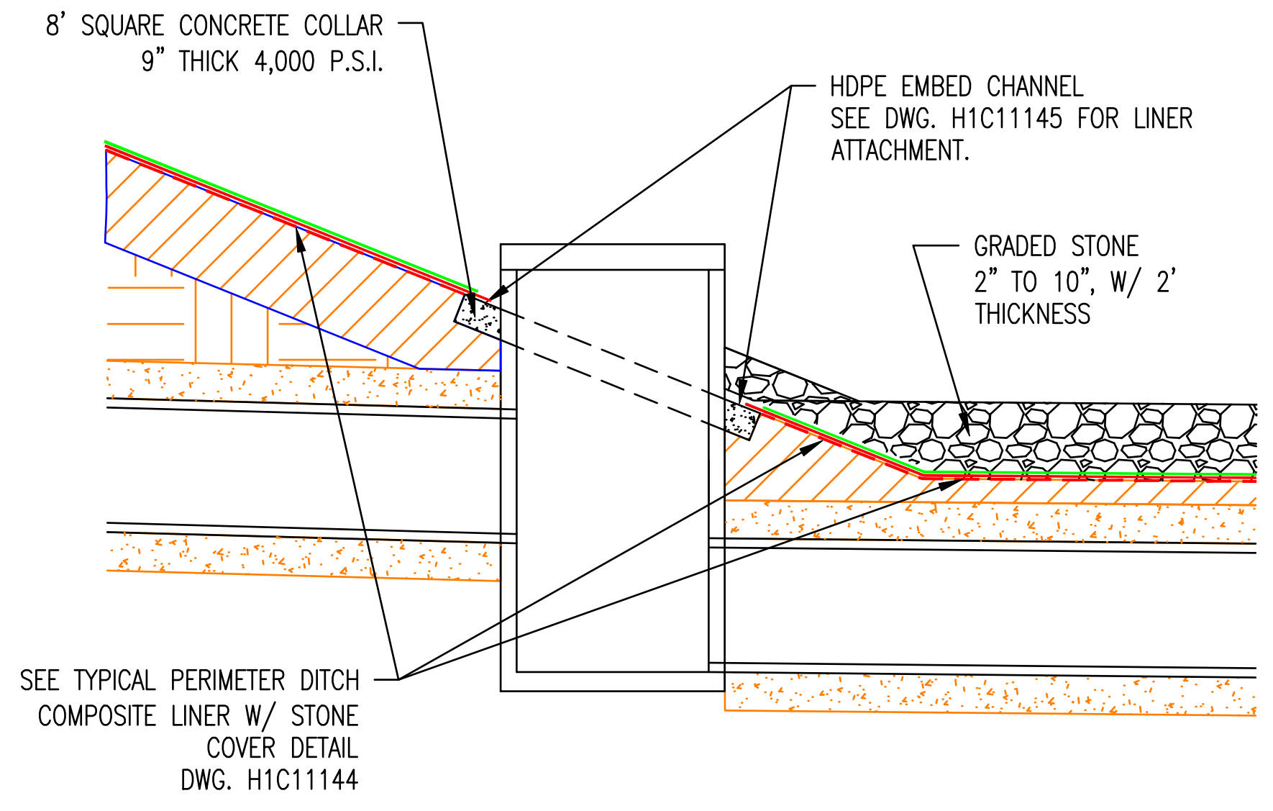
CONCRETE MANHOLE COLLAR
PLAN VIEW
NOT TO SCALE


ANCHOR TRENCH
TEMPORARY RAIN COVER BERM TO BE CONSTRUCTED FROM ADDITIONAL PROTECTIVE COVER MATERIAL
4'
ANCHOR TRENCH
SANDBAG (APPROX. LOCATION) (TYP.)
GEOSYNTHETIC RAIN COVER
NYLON ROPE
COMPOSITE LINER SYSTEM

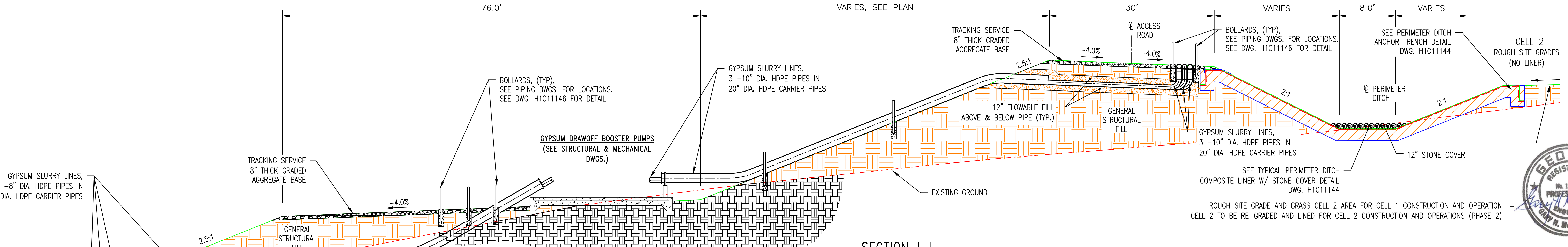
NOTES:

1. GEOSYNTHETIC RAIN COVER MAY BE INSTALLED AS NEEDED FOR STORMWATER SEPARATION DURING CCR FILLING.
2. SANDBAG BALLAST SYSTEM MAY BE REPLACED WITH WIND DEFENDER OR OTHER BALLASTING MEASURES.

GEOSYNTHETIC RAIN COVER
(AS NEEDED FOR STORMWATER SEPARATION DURING CCR FILLING)
SCALE: N.T.S


8' SQUARE CONCRETE COLLAR 9" THICK 4,000 P.S.I.
HDPE EMBED CHANNEL SEE DWG. H1C11145 FOR LINER ATTACHMENT.
GRADED STONE 2" TO 10", W/ 2' THICKNESS
SEE TYPICAL PERIMETER DITCH COMPOSITE LINER W/ STONE COVER DETAIL DWG. H1C11144

CONCRETE MANHOLE COLLAR
SECTION
NOT TO SCALE


76.0'
VARIES, SEE PLAN
30'
VARIES
8.0'
VARIES
GYPSUM SLURRY LINES, 3 -8" DIA. HDPE PIPES IN 18" DIA. HDPE CARRIER PIPES
TRACKING SERVICE 8" THICK GRADED AGGREGATE BASE
-4.0%
2.5:1
GENERAL STRUCTURAL FILL
BOLLARDS, (TYP), SEE PIPING DWGS. FOR LOCATIONS. SEE DWG. H1C11146 FOR DETAIL
GYPSUM DRAWOFF BOOSTER PUMPS (SEE STRUCTURAL & MECHANICAL DWGS.)
GYPSUM SLURRY LINES, 3 -10" DIA. HDPE PIPES IN 20" DIA. HDPE CARRIER PIPES
EXISTING GROUND
TRACKING SERVICE 8" THICK GRADED AGGREGATE BASE
℄ ACCESS ROAD
-4.0%
-4.0%
2.5:1
BOLLARDS, (TYP), SEE PIPING DWGS. FOR LOCATIONS. SEE DWG. H1C11146 FOR DETAIL
12" FLOWABLE FILL ABOVE & BELOW PIPE (TYP.)
GENERAL STRUCTURAL FILL
GYPSUM SLURRY LINES, 3 -10" DIA. HDPE PIPES IN 20" DIA. HDPE CARRIER PIPES
2:1
℄ PERIMETER DITCH
SEE PERIMETER DITCH ANCHOR TRENCH DETAIL DWG. H1C11144
2:1
CELL 2 ROUGH SITE GRADES (NO LINER)
12" STONE COVER
SEE TYPICAL PERIMETER DITCH COMPOSITE LINER W/ STONE COVER DETAIL DWG. H1C11144

ROUGH SITE GRADE AND GRASS CELL 2 AREA FOR CELL 1 CONSTRUCTION AND OPERATION. CELL 2 TO BE RE-GRADED AND LINED FOR CELL 2 CONSTRUCTION AND OPERATIONS (PHASE 2).

SECTION I-I
1" = 5'
(H1C11126)

NOTES:

1. ALL SURFACE WATER CONTAINMENT STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL FORCE OF 0.17G

REFERENCES:

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

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY H. McWHORTER
Gary H McWhorter 10/21/25

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE
10/21/25

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli
Digitally signed by Tammy Buchli Date: 2025.10.27 08:45:43 -04'00'

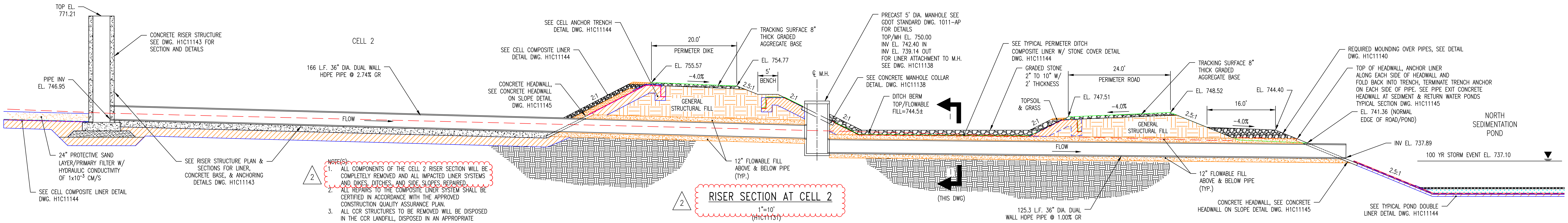
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
3	10-21-2025	COMPLETE REMOVAL OF 36" HDPE PIPE, MANHOLE AND BERM, RECONSTRUCTION OF DITCH [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
2	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
1	01-08-2024	CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	**H1C11138**	1	FINAL	3

Acad2008 ANSI F: 40x28


TOP EL. 771.21
CONCRETE RISER STRUCTURE SEE DWG. H1C11143 FOR SECTION AND DETAILS
CELL 2
PIPE INV EL. 746.95
166 L.F. 36" DIA. DUAL WALL HDPE PIPE @ 2.74% GR
FLOW
24" PROTECTIVE SAND LAYER/PRIMARY FILTER W/ HYDRAULIC CONDUCTIVITY OF 1x10^{-3} CM/S
SEE RISER STRUCTURE PLAN & SECTIONS FOR LINER, CONCRETE BASE, & ANCHORING DETAILS DWG. H1C11143
SEE CELL COMPOSITE LINER DETAIL DWG. H1C11144
SEE CELL ANCHOR TRENCH DETAIL DWG. H1C11144
SEE CELL COMPOSITE LINER DETAIL DWG. H1C11144
CONCRETE HEADWALL, SEE CONCRETE HEADWALL ON SLOPE DETAIL DWG. H1C11145
20.0'
PERIMETER DIKE
EL. 755.57
-4.0%
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
EL. 754.77
5'
BENCH
2:1
2.5:1
GENERAL STRUCTURAL FILL
12" FLOWABLE FILL ABOVE & BELOW PIPE (TYP.)
℄ M.H.
PRECAST 5' DIA. MANHOLE SEE GDOT STANDARD DWG. 1011-AP FOR DETAILS TOP/MH EL. 750.00 INV EL. 742.40 IN INV EL. 739.14 OUT FOR LINER ATTACHMENT TO M.H. SEE DWG. H1C11138
SEE CONCRETE MANHOLE COLLAR DETAIL. DWG. H1C11138
DITCH BERM TOP/FLOWABLE FILL=744.5±
SEE TYPICAL PERIMETER DITCH COMPOSITE LINER W/ STONE COVER DETAIL DWG. H1C11144
GRADED STONE 2" TO 10" W/ 2' THICKNESS
TOPSOIL & GRASS
24.0'
PERIMETER ROAD
EL. 747.51
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
EL. 748.52
EL. 744.40
16.0'
REQUIRED MOUNDING OVER PIPES, SEE DETAIL DWG. H1C11140
TOP OF HEADWALL, ANCHOR LINER ALONG EACH SIDE OF HEADWALL AND FOLD BACK INTO TRENCH, TERMINATE TRENCH ANCHOR ON EACH SIDE OF PIPE. SEE PIPE EXIT CONCRETE HEADWALL AT SEDIMENT & RETURN WATER PONDS TYPICAL SECTION DWG. H1C11145
EL. 741.36 (NORMAL EDGE OF ROAD/POND)
NORTH SEDIMENTATION POND
INV EL. 737.89
100 YR STORM EVENT EL. 737.10
I
(THIS DWG)
125.3 L.F. 36" DIA. DUAL WALL HDPE PIPE @ 1.00% GR
12" FLOWABLE FILL ABOVE & BELOW PIPE (TYP.)
CONCRETE HEADWALL, SEE CONCRETE HEADWALL ON SLOPE DETAIL DWG. H1C11145
SEE TYPICAL POND DOUBLE LINER DETAIL DWG. H1C11144

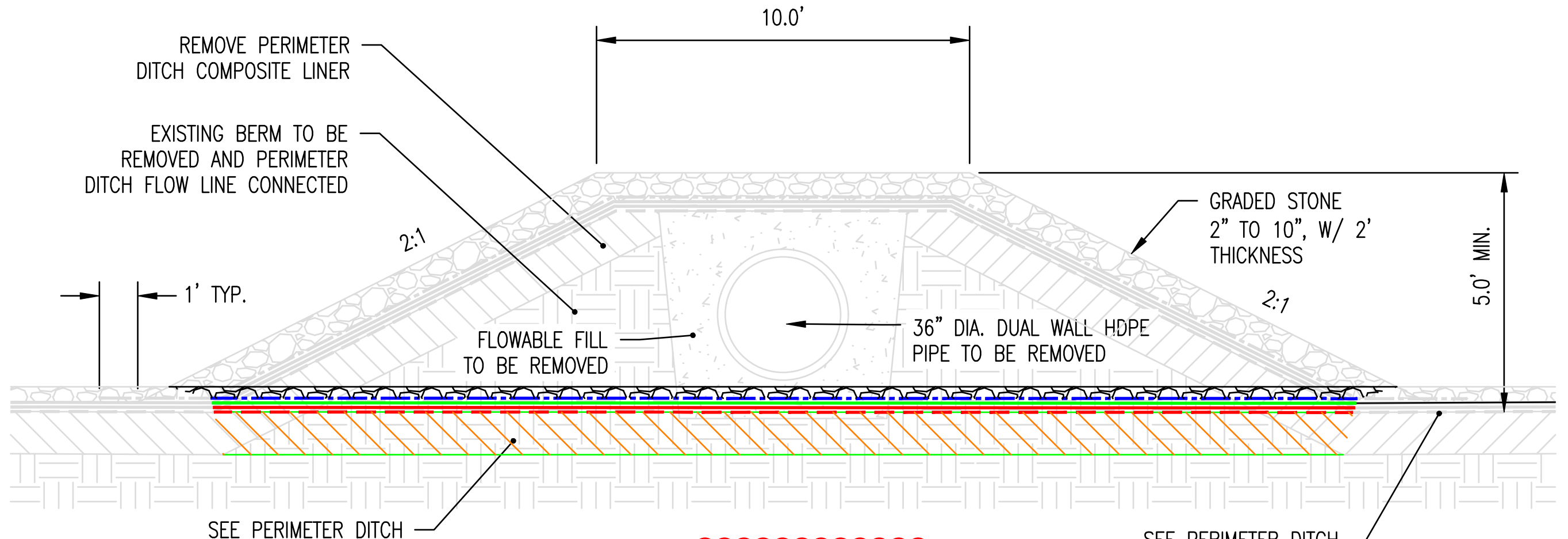
NOTE(S):
1. ALL COMPONENTS OF THE CELL 2 RISER SECTION WILL BE COMPLETELY REMOVED AND ALL IMPACTED LINER SYSTEMS AND DIKES, DITCHES, AND SIDE SLOPES REPAIRED.
2. ALL REPAIRS TO THE COMPOSITE LINER SYSTEM SHALL BE CERTIFIED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION QUALITY ASSURANCE PLAN.
3. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF-SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.

2

RISER SECTION AT CELL 2

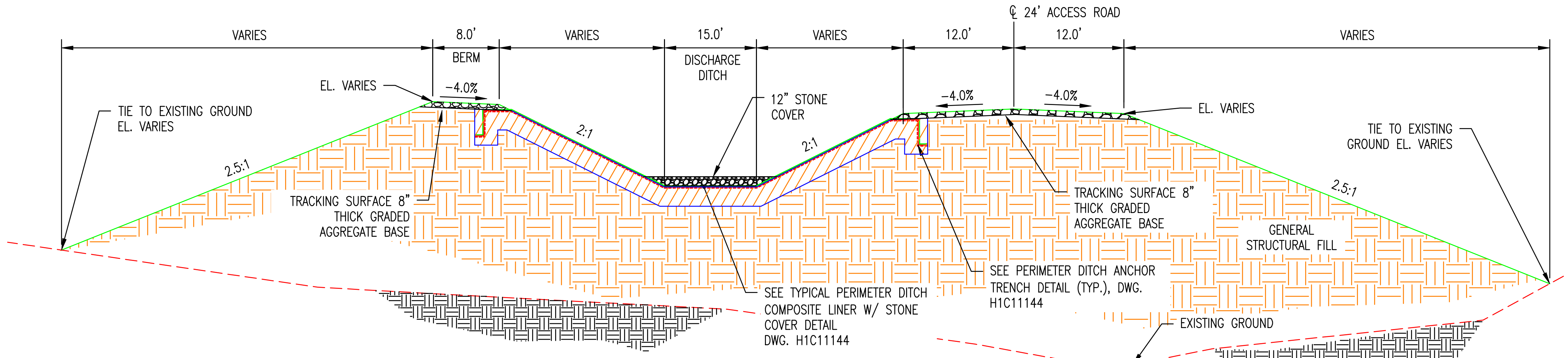
1"=10'
(H1C11131)

2


10.0'
REMOVE PERIMETER DITCH COMPOSITE LINER
EXISTING BERM TO BE REMOVED AND PERIMETER DITCH FLOW LINE CONNECTED
GRADED STONE 2" TO 10", W/ 2' THICKNESS
2:1
1' TYP.
FLOWABLE FILL TO BE REMOVED
36" DIA. DUAL WALL HDPE PIPE TO BE REMOVED
5.0' MIN.
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144

SECTION I-I

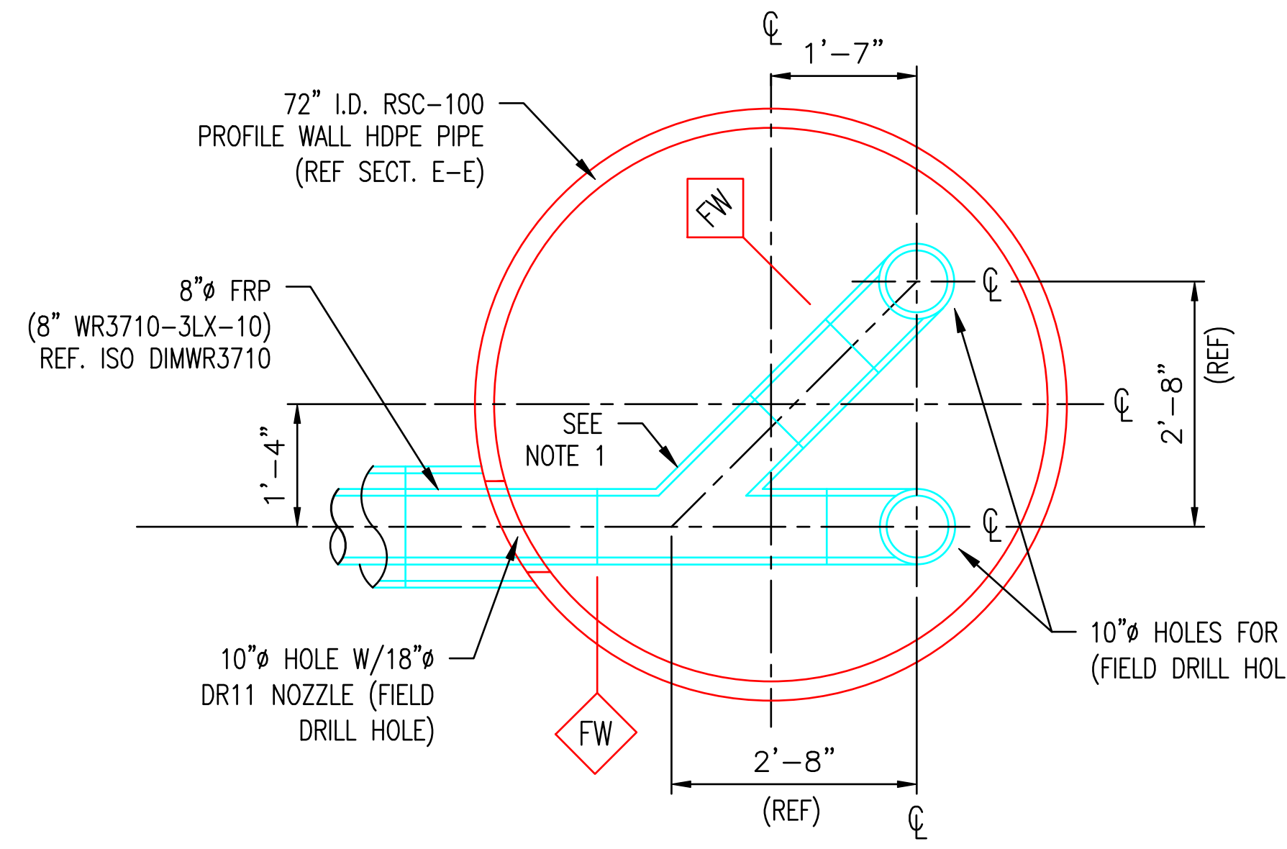
NTS
(THIS DWG) 2


VARIES
8.0'
BERM
VARIES
15.0'
DISCHARGE DITCH
VARIES
℄ 24' ACCESS ROAD
12.0'
12.0'
VARIES
EL. VARIES
-4.0%
TIE TO EXISTING GROUND EL. VARIES
2.5:1
2:1
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
12" STONE COVER
EL. VARIES
TIE TO EXISTING GROUND EL. VARIES
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
GENERAL STRUCTURAL FILL
SEE TYPICAL PERIMETER DITCH COMPOSITE LINER W/ STONE COVER DETAIL DWG. H1C11144
SEE PERIMETER DITCH ANCHOR TRENCH DETAIL (TYP.), DWG. H1C11144
EXISTING GROUND

CELL 3 TO CELL 2 DISCHARGE DITCH TYPICAL SECTION

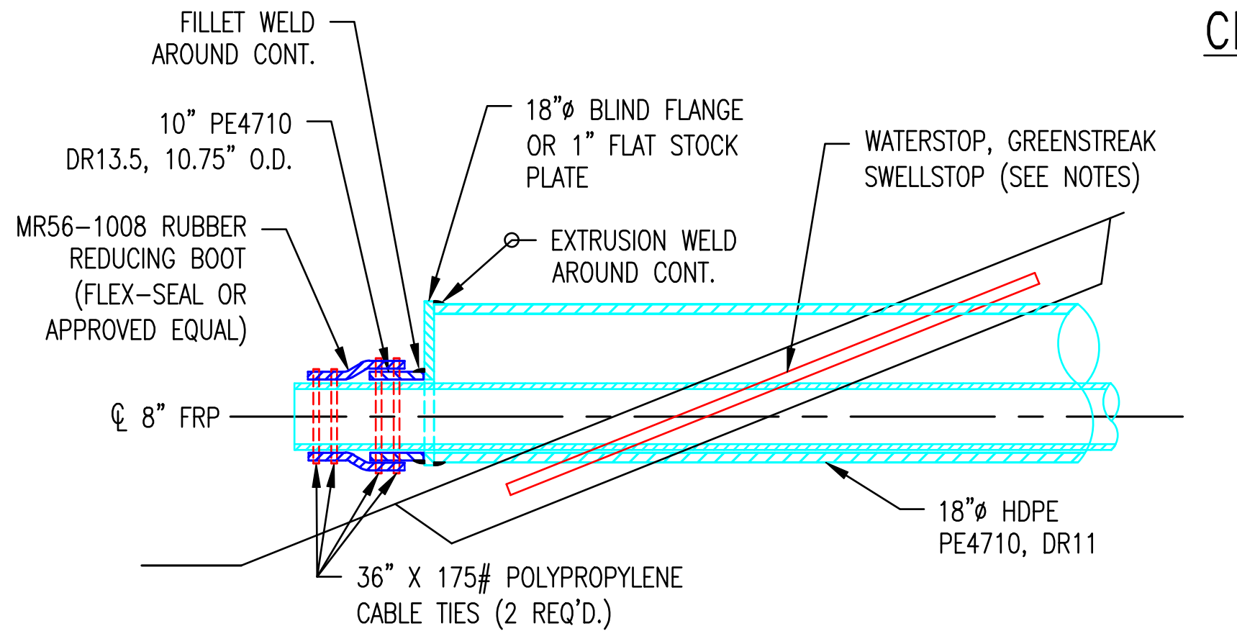
1"=10'
(H1C11133)

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


℄
1'-7"
72" I.D. RSC-100 PROFILE WALL HDPE PIPE (REF SECT. E-E)
FW
8"ø FRP (8" WR3710-3LX-10) REF. ISO DIMWR3710
SEE NOTE 1
1'-4"
2'-8"
(REF)
10"ø HOLE W/18"ø DR11 NOZZLE (FIELD DRILL HOLE)
10"ø HOLES FOR 8"ø FRP (FIELD DRILL HOLE)
FW
2'-8"
(REF)

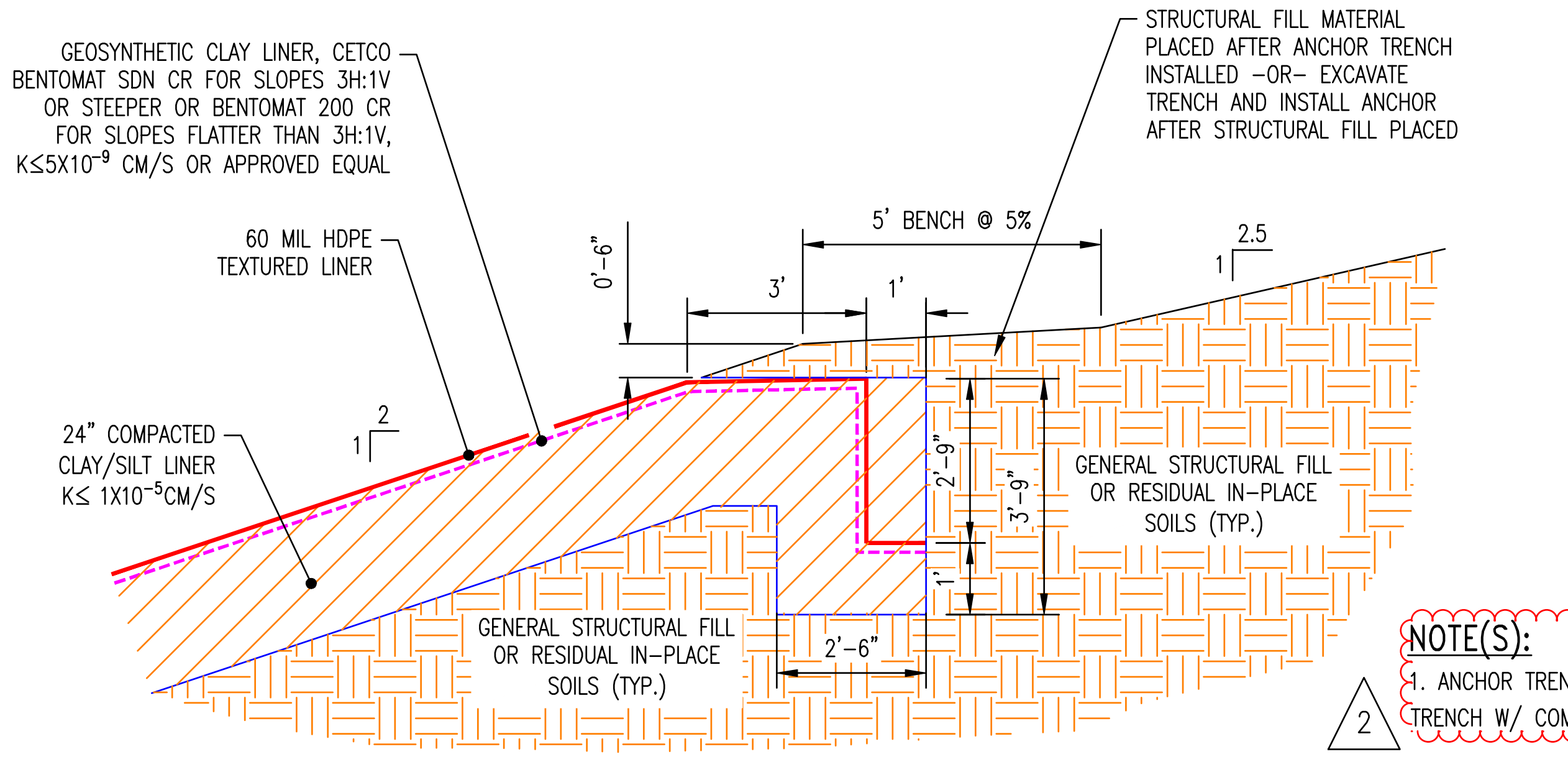
DETAIL 2

NTS


FILLET WELD AROUND CONT.
10" PE4710 DR13.5, 10.75" O.D.
MR56-1008 RUBBER REDUCING BOOT (FLEX-SEAL OR APPROVED EQUAL)
℄ 8" FRP
18"ø BLIND FLANGE OR 1" FLAT STOCK PLATE
EXTRUSION WELD AROUND CONT.
WATERSTOP, GREENSTREAK SWELLSTOP (SEE NOTES)
18"ø HDPE PE4710, DR11
36" X 175# POLYPROPYLENE CABLE TIES (2 REQ'D.)

DETAIL 1

NTS

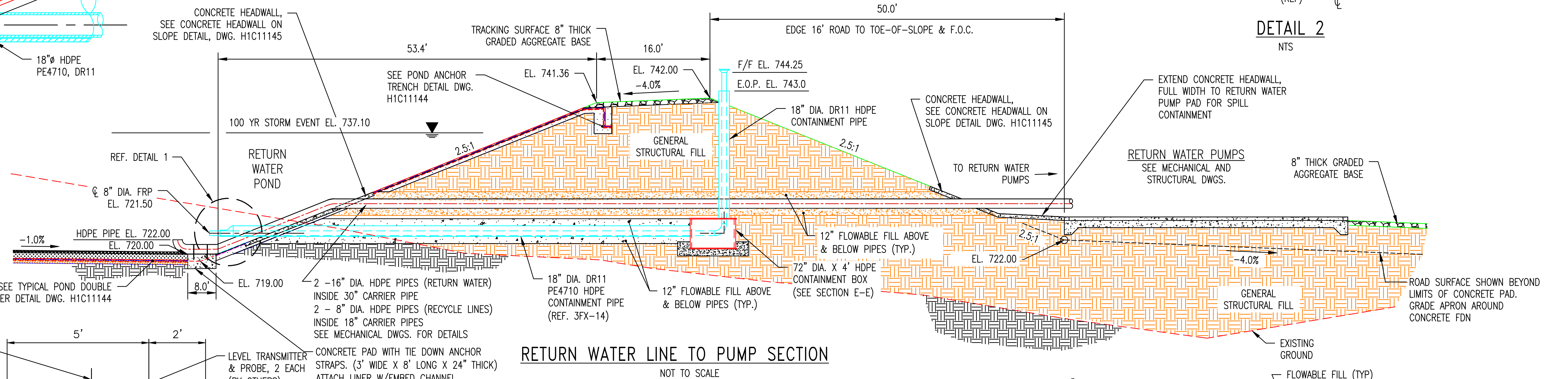

GEOSYNTHETIC CLAY LINER, CETCO BENTOMAT SDN CR FOR SLOPES 3H:1V OR STEEPER OR BENTOMAT 200 CR FOR SLOPES FLATTER THAN 3H:1V, K≤5X10^{-9} CM/S OR APPROVED EQUAL
STRUCTURAL FILL MATERIAL PLACED AFTER ANCHOR TRENCH INSTALLED -OR- EXCAVATE TRENCH AND INSTALL ANCHOR AFTER STRUCTURAL FILL PLACED
60 MIL HDPE TEXTURED LINER
0'-6"
5' BENCH @ 5%
3'
1'
2.5
1
24" COMPACTED CLAY/SILT LINER K≤ 1X10^{-5}CM/S
2
1
2'-9"
3'-9"
1'
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)
2'-6"

NOTE(S):
1. ANCHOR TRENCH MAY BE A 2' X 2' ANCHOR TRENCH W/ COMPACTED CLAY BACKFILL.

2

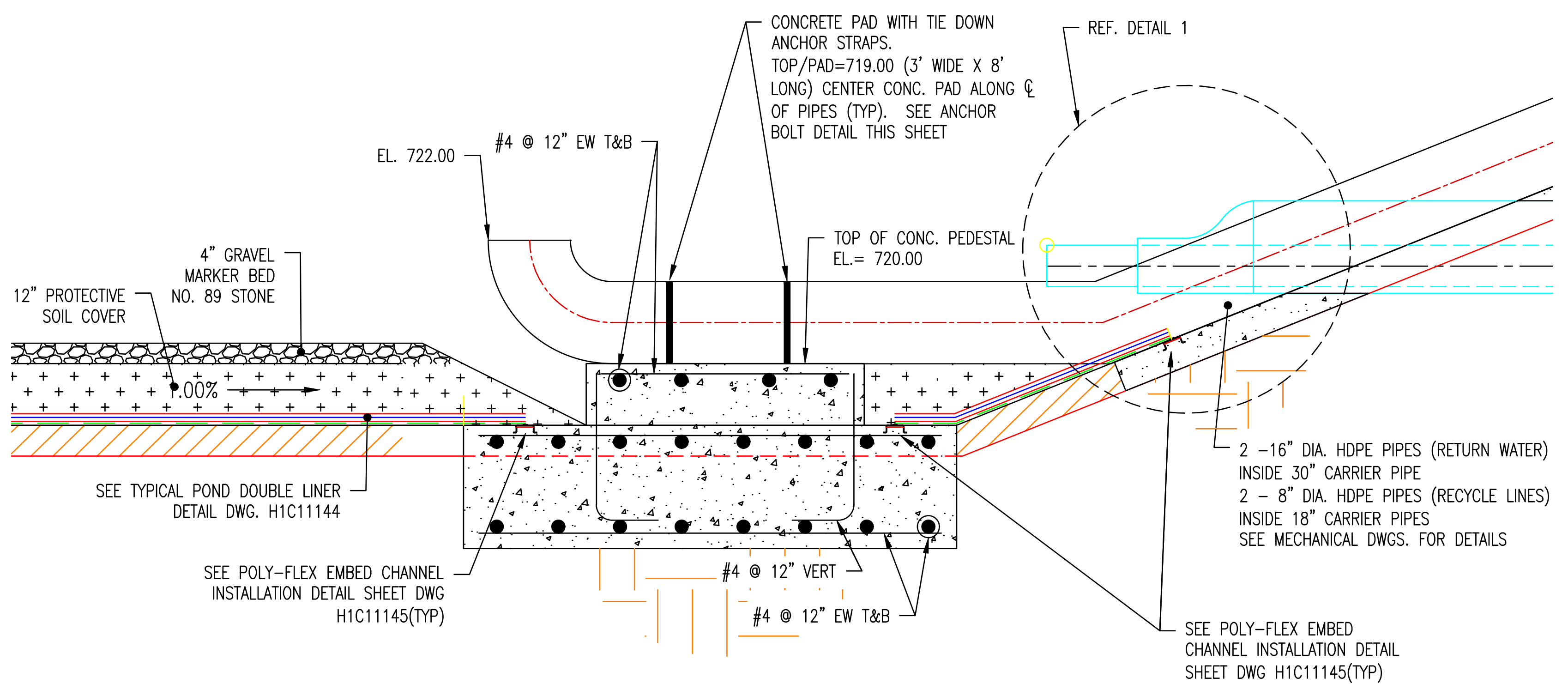
PERIMETER DITCH WITH ANCHOR TRENCH DETAIL (ANCHOR ON DIKE SLOPE - MATCH ROAD ELEVATION AT ANCHOR)

N.T.S.


CONCRETE HEADWALL, SEE CONCRETE HEADWALL ON SLOPE DETAIL, DWG. H1C11145
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
50.0'
EDGE 16' ROAD TO TOE-OF-SLOPE & F.O.C.
53.4'
16.0'
F/F EL. 744.25
E.O.P. EL. 743.0
SEE POND ANCHOR TRENCH DETAIL DWG. H1C11144
EL. 741.36
EL. 742.00
-4.0%
18" DIA. DR11 HDPE CONTAINMENT PIPE
CONCRETE HEADWALL, SEE CONCRETE HEADWALL ON SLOPE DETAIL DWG. H1C11145
EXTEND CONCRETE HEADWALL, FULL WIDTH TO RETURN WATER PUMP PAD FOR SPILL CONTAINMENT
100 YR STORM EVENT EL. 737.10
RETURN WATER POND
2.5:1
GENERAL STRUCTURAL FILL
REF. DETAIL 1
℄ 8" DIA. FRP EL. 721.50
TO RETURN WATER PUMPS
RETURN WATER PUMPS
SEE MECHANICAL AND STRUCTURAL DWGS.
8" THICK GRADED AGGREGATE BASE
-1.0%
HDPE PIPE EL. 722.00
EL. 720.00
8.0'
EL. 719.00
SEE TYPICAL POND DOUBLE LINER DETAIL DWG. H1C11144
2 -16" DIA. HDPE PIPES (RETURN WATER) INSIDE 30" CARRIER PIPE 2 - 8" DIA. HDPE PIPES (RECYCLE LINES) INSIDE 18" CARRIER PIPES SEE MECHANICAL DWGS. FOR DETAILS
CONCRETE PAD WITH TIE DOWN ANCHOR STRAPS. (3' WIDE X 8' LONG X 24" THICK) ATTACH LINER W/EMBED CHANNEL. SEE DETAIL 3 THIS DWG
18" DIA. DR11 PE4710 HDPE CONTAINMENT PIPE (REF. 3FX-14)
12" FLOWABLE FILL ABOVE & BELOW PIPES (TYP.)
12" FLOWABLE FILL ABOVE & BELOW PIPES (TYP.)
72" DIA. X 4' HDPE CONTAINMENT BOX (SEE SECTION E-E)
EL. 722.00
-4.0%
ROAD SURFACE SHOWN BEYOND LIMITS OF CONCRETE PAD. GRADE APRON AROUND CONCRETE FDN
GENERAL STRUCTURAL FILL
EXISTING GROUND

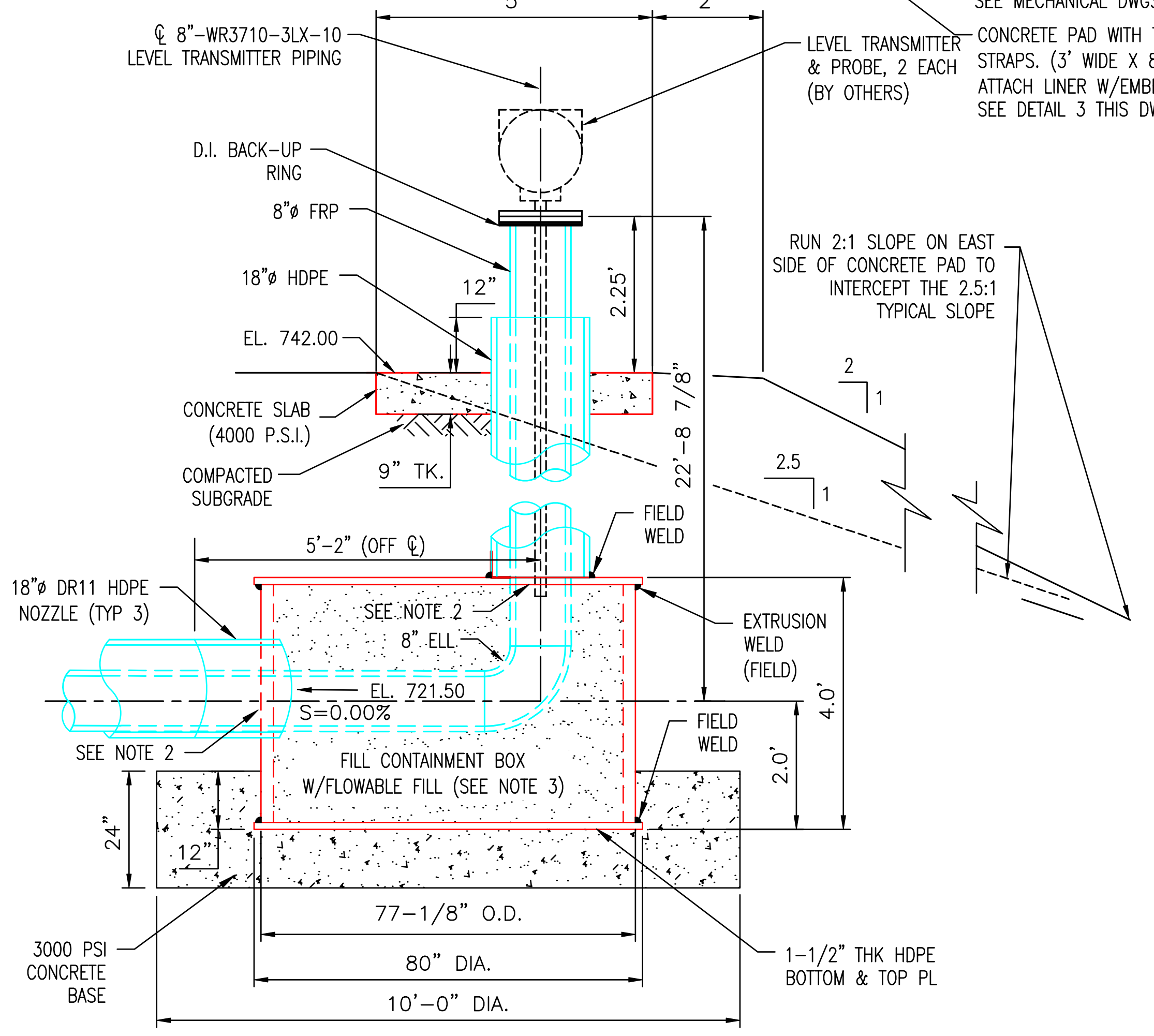
RETURN WATER LINE TO PUMP SECTION

NOT TO SCALE
(H1C11125)


CONCRETE PAD WITH TIE DOWN ANCHOR STRAPS. TOP/PAD=719.00 (3' WIDE X 8' LONG) CENTER CONC. PAD ALONG ℄ OF PIPES (TYP). SEE ANCHOR BOLT DETAIL THIS SHEET
REF. DETAIL 1
EL. 722.00
#4 @ 12" EW T&B
TOP OF CONC. PEDESTAL EL.= 720.00
4" GRAVEL MARKER BED NO. 89 STONE
12" PROTECTIVE SOIL COVER
1.00%
SEE TYPICAL POND DOUBLE LINER DETAIL DWG. H1C11144
2 -16" DIA. HDPE PIPES (RETURN WATER) INSIDE 30" CARRIER PIPE 2 - 8" DIA. HDPE PIPES (RECYCLE LINES) INSIDE 18" CARRIER PIPES SEE MECHANICAL DWGS. FOR DETAILS
SEE POLY-FLEX EMBED CHANNEL INSTALLATION DETAIL SHEET DWG H1C11145(TYP)
#4 @ 12" VERT
#4 @ 12" EW T&B
SEE POLY-FLEX EMBED CHANNEL INSTALLATION DETAIL SHEET DWG H1C11145(TYP)

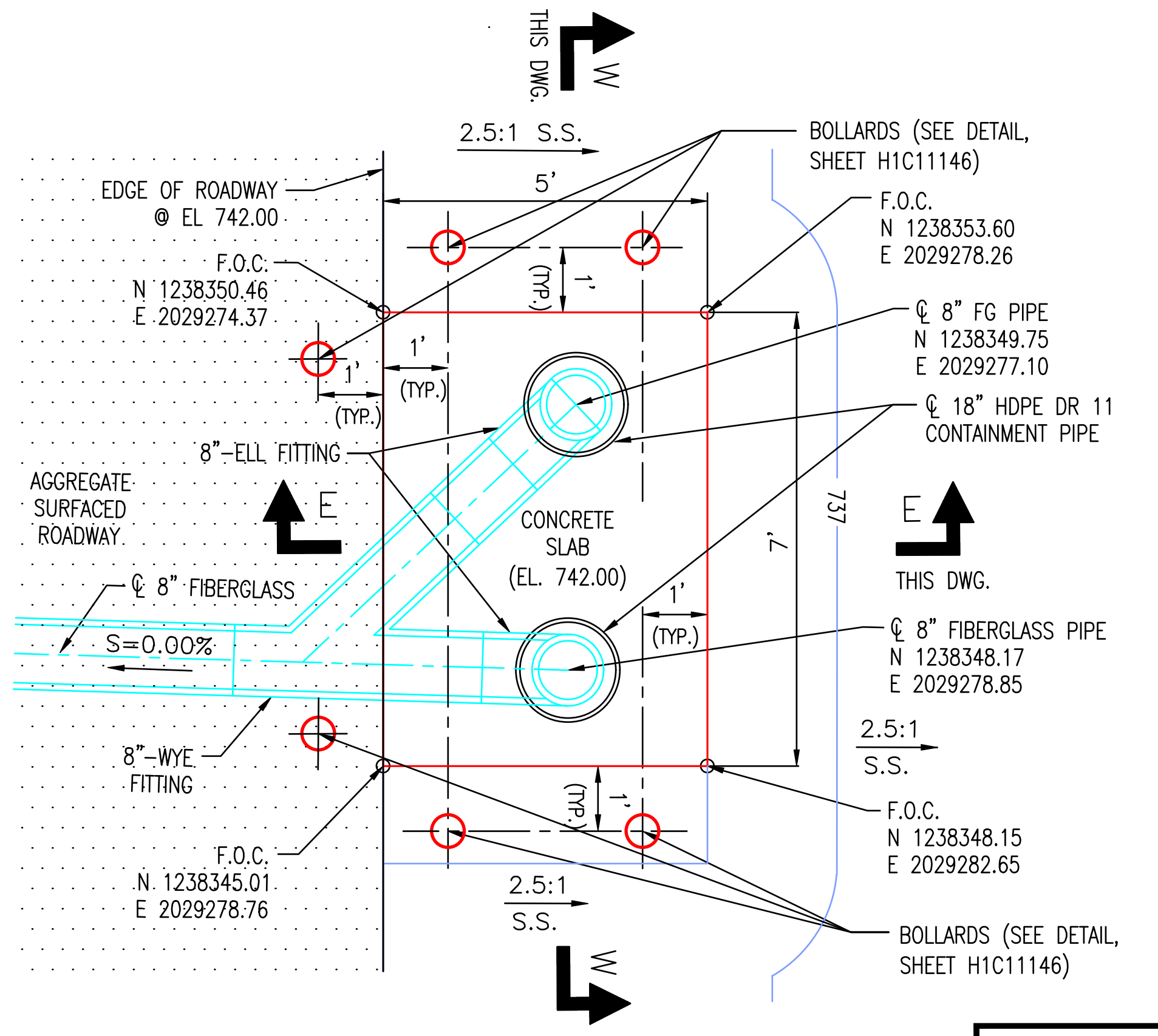
DETAIL 3

NOT TO SCALE
(H1C11125)


℄ 8"-WR3710-3LX-10 LEVEL TRANSMITTER PIPING
5'
2'
LEVEL TRANSMITTER & PROBE, 2 EACH (BY OTHERS)
D.I. BACK-UP RING
8"ø FRP
18"ø HDPE
12"
2.25'
22'-8 7/8"
EL. 742.00
CONCRETE SLAB (4000 P.S.I.)
COMPACTED SUBGRADE
9" TK.
RUN 2:1 SLOPE ON EAST SIDE OF CONCRETE PAD TO INTERCEPT THE 2.5:1 TYPICAL SLOPE
2
1
2.5
1
5'-2" (OFF ℄)
FIELD WELD
18"ø DR11 HDPE NOZZLE (TYP 3)
SEE NOTE 2
8" ELL
EL. 721.50
S=0.00%
EXTRUSION WELD (FIELD)
SEE NOTE 2
FIELD WELD
FILL CONTAINMENT BOX W/FLOWABLE FILL (SEE NOTE 3)
4.0'
2.0'
24"
12"
3000 PSI CONCRETE BASE
77-1/8" O.D.
80" DIA.
10'-0" DIA.
1-1/2" THK HDPE BOTTOM & TOP PL

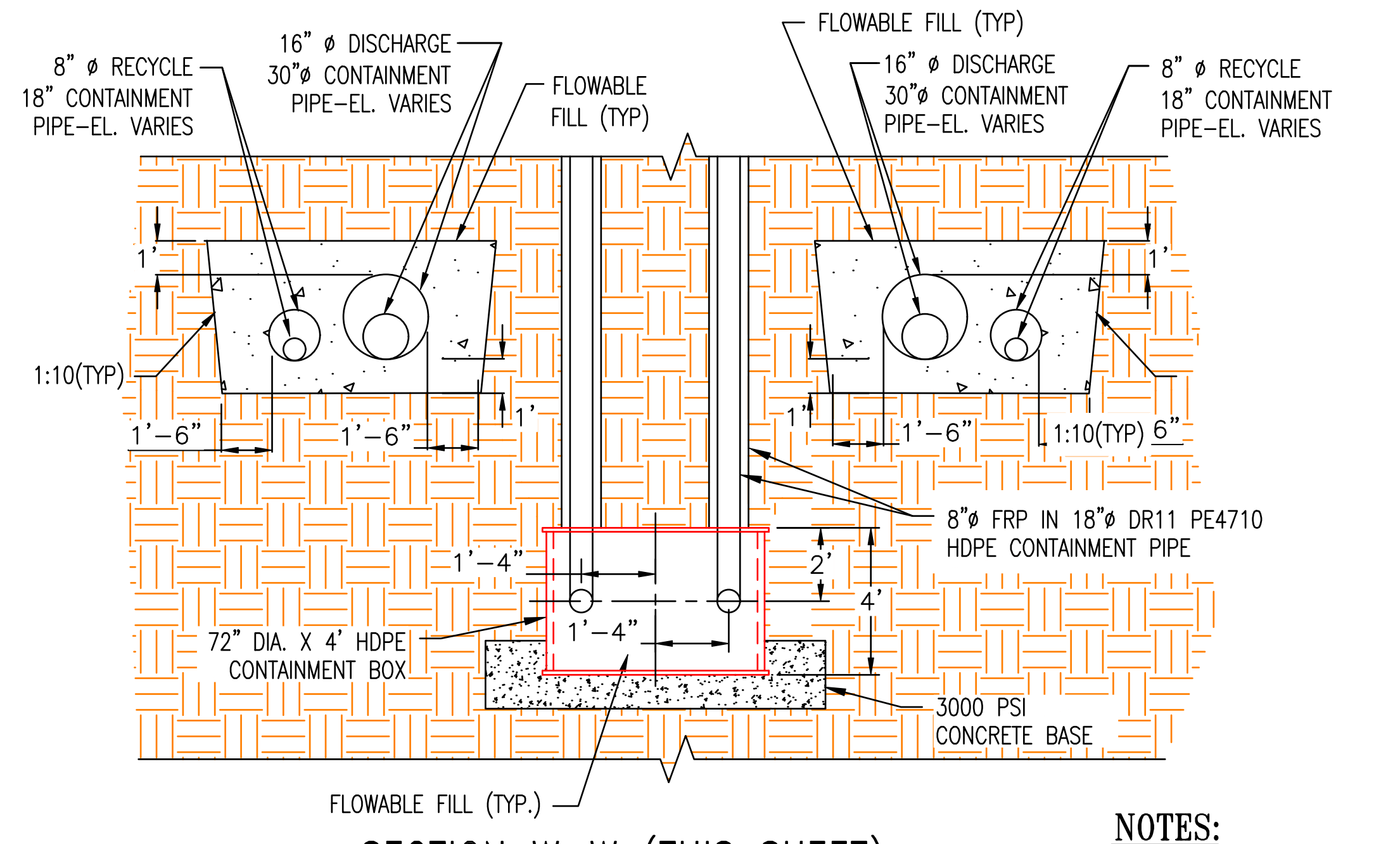
SECTION E-E

NOT TO SCALE


THIS DWG.
W
2.5:1 S.S.
5'
BOLLARDS (SEE DETAIL, SHEET H1C11146)
EDGE OF ROADWAY @ EL 742.00
F.O.C. N 1238353.60 E 2029278.26
F.O.C. N 1238350.46 E 2029274.37
(TYP.)
1'
℄ 8" FG PIPE N 1238349.75 E 2029277.10
℄ 18" HDPE DR 11 CONTAINMENT PIPE
8"-ELL FITTING
AGGREGATE SURFACED ROADWAY
E
CONCRETE SLAB (EL. 742.00)
7'
737
E
THIS DWG.
℄ 8" FIBERGLASS
S=0.00%
℄ 8" FIBERGLASS PIPE N 1238348.17 E 2029278.85
8"-WYE FITTING
2.5:1 S.S.
F.O.C. N 1238345.01 E 2029278.76
F.O.C. N 1238348.15 E 2029282.65
2.5:1 S.S.
BOLLARDS (SEE DETAIL, SHEET H1C11146)
W

LEVEL CONTROLS PAD

NOT TO SCALE


FLOWABLE FILL (TYP)
8" ø RECYCLE 18" CONTAINMENT PIPE-EL. VARIES
16" ø DISCHARGE 30"ø CONTAINMENT PIPE-EL. VARIES
FLOWABLE FILL (TYP)
16" ø DISCHARGE 30"ø CONTAINMENT PIPE-EL. VARIES
8" ø RECYCLE 18" CONTAINMENT PIPE-EL. VARIES
1'
1:10(TYP)
1'-6"
1'-6"
1'
1'
1'-6"
1:10(TYP) 6"
8"ø FRP IN 18"ø DR11 PE4710 HDPE CONTAINMENT PIPE
1'-4"
2'
4'
1'-4"
72" DIA. X 4' HDPE CONTAINMENT BOX
3000 PSI CONCRETE BASE
FLOWABLE FILL (TYP.)

SECTION W-W (THIS SHEET)

NOT TO SCALE

NOTES:
1. ALL SURFACE WATER CONTAINMENT STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL FORCE OF 0.17G

REFERENCES:

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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli
Digitally signed by Tammy Buchli Date: 2025.10.27 08:45:43 -04'00'

No. 13987
GARY H. McWHORTER
10/21/25

No. 27185
R. BRANT LANE
10/21/25

REVISION	DATE	DESCRIPTION	BY	CHK'D
REVISION	DATE			
REVISION	DATE			
REVISION 2	DATE 10-21-2025	REVISION TO ANCHOR TRENCH AND COMPLETE REMOVAL OF 36" HDPE PIPE, MANHOLE AND BERM, RECONSTRUCTION OF DITCH; [BY HHNT, INC.]		
REVISION 1	DATE 01-08-2024	CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL
REVISION 0	DATE 09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL

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

Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

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

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	H1C11139	1	FINAL	2

Acad2008 ANSI F: 40x28

TOP EL. 787.10
CELL 3
PIPE INVERT EL. 763.60
208 L.F. 36" DIA. DUAL WALL HDPE PIPE @ 1.98% GR
SEE CELL COMPOSITE LINER DETAIL DWG. H1C11144
SEE RISER STRUCTURE PLAN & SECTIONS FOR LINER, CONCRETE BASE, & PIPE ANCHORING DETAILS, DWG. H1C11143
FLOW
LEACHATE COLLECTION PIPES NOT SHOWN FOR CLARITY SEE DWG H1C11155
CONCRETE HEADWALL, SEE CONCRETE HEADWALL ON SLOPE DETAIL DWG. H1C11145
SEE CELL COMPOSITE LINER, DWG. H1C11144
SEE CELL ANCHOR TRENCH DETAIL DWG. H1C11144
TOPSOIL & GRASS
20.0'
PERIMETER DIKE
-4.0%
GENERAL STRUCTURAL FILL
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
12" FLOWABLE FILL ABOVE & BELOW PIPE (TYP.)
CONCRETE COLLAR,SEE DETAIL, DWG. H11C11138
℄ M.H.
5'
BENCH
PRECAST 5' DIA. MANHOLE, SEE GDOT STANDARD DWG. 1011-AP FOR DETAILS
TOP/MH EL. 768.00
INVERT 759.48 (IN)
INVERT 755.59 (OUT)
GRADED STONE 2" TO 10" W/ 2' THICKNESS
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
DITCH BERM TOP ELEV.= 762.00±
℄ 30' ROADWAY
15'
15'
VARIES
VARIES
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
EXISTING GROUND
H1C11139
178.2 L.F. 36" DIA. DUAL WALL HDPE PIPE @ 0.50% GR.
12" FLOWABLE FILL ABOVE & BELOW PIPE (TYP.)
SEE PERIMETER DITCH ANCHOR TRENCH DETAIL DWG. H1C11144
TOP OF HEADWALL, ANCHOR LINER ALONG EACH SIDE OF HEADWALL AND FOLD BACK INTO TRENCH, TERMINATE TRENCH ANCHOR ON EACH SIDE OF 54" DIA. PIPES SEE CONCRETE HEADWALL AT PERIMETER DITCH TYPICAL SECTION DWG. H1C11145
SEE CELL 3 TO CELL 2 DISCHARGE DITCH TYPICAL SECTION DWG H1C11139
PIPE INV EL. 754.70
PERIMETER DITCH
CONCRETE HEADWALL, SEE CONCRETE HEADWALL ON SLOPE DETAIL DWG. H1C11145
SEE TYPICAL PERIMETER DITCH COMPOSITE LINER W/ STONE COVER DETAIL DWG. H1C11144
2
1
2.5
1

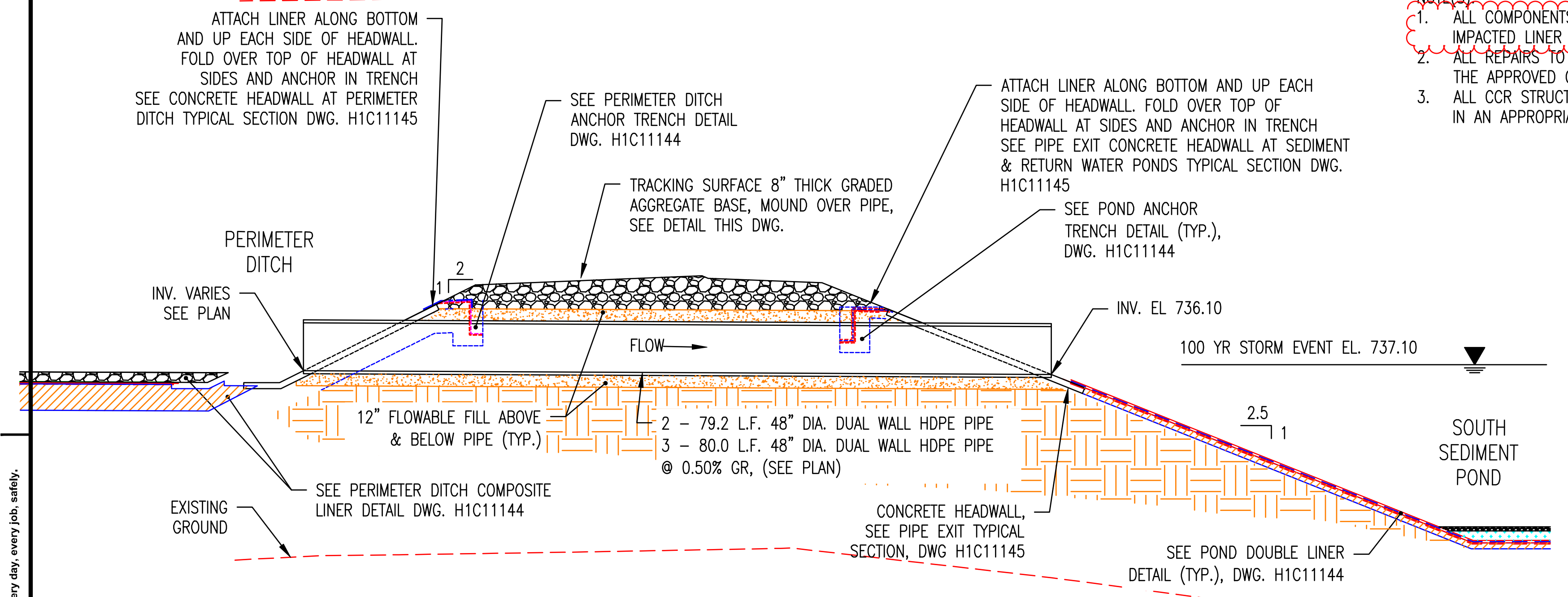
NOTE(S):

1. ALL COMPONENTS OF THE CELL 3 RISER SECTION WILL BE COMPLETELY REMOVED AND ALL IMPACTED LINER SYSTEMS AND DIKES, DITCHES, AND SIDE SLOPES REPAIRED.
2. ALL REPAIRS TO THE COMPOSITE LINER SYSTEM SHALL BE CERTIFIED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION QUALITY ASSURANCE PLAN.
3. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF-SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.

2

RISER SECTION AT CELL 3

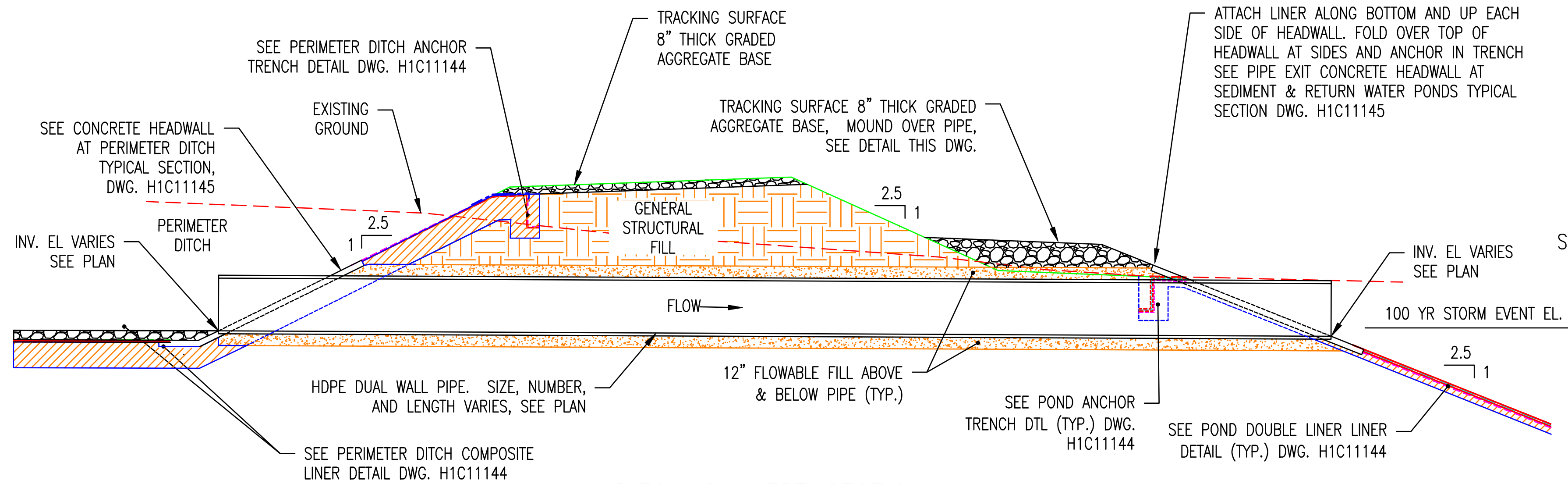
1" = 10'
(H1C11133)


ATTACH LINER ALONG BOTTOM AND UP EACH SIDE OF HEADWALL. FOLD OVER TOP OF HEADWALL AT SIDES AND ANCHOR IN TRENCH SEE CONCRETE HEADWALL AT PERIMETER DITCH TYPICAL SECTION DWG. H1C11145
SEE PERIMETER DITCH ANCHOR TRENCH DETAIL DWG. H1C11144
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE, MOUND OVER PIPE, SEE DETAIL THIS DWG.
ATTACH LINER ALONG BOTTOM AND UP EACH SIDE OF HEADWALL. FOLD OVER TOP OF HEADWALL AT SIDES AND ANCHOR IN TRENCH SEE PIPE EXIT CONCRETE HEADWALL AT SEDIMENT & RETURN WATER PONDS TYPICAL SECTION DWG. H1C11145
SEE POND ANCHOR TRENCH DETAIL (TYP.), DWG. H1C11144
PERIMETER DITCH
INV. VARIES SEE PLAN
INV. EL 736.10
100 YR STORM EVENT EL. 737.10
FLOW
12" FLOWABLE FILL ABOVE & BELOW PIPE (TYP.)
2 – 79.2 L.F. 48" DIA. DUAL WALL HDPE PIPE
3 – 80.0 L.F. 48" DIA. DUAL WALL HDPE PIPE @ 0.50% GR, (SEE PLAN)
2.5
1
SOUTH SEDIMENT POND
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
EXISTING GROUND
CONCRETE HEADWALL, SEE PIPE EXIT TYPICAL SECTION, DWG H1C11145
SEE POND DOUBLE LINER DETAIL (TYP.), DWG. H1C11144

DITCH CULVERT SECTION

CELL 1

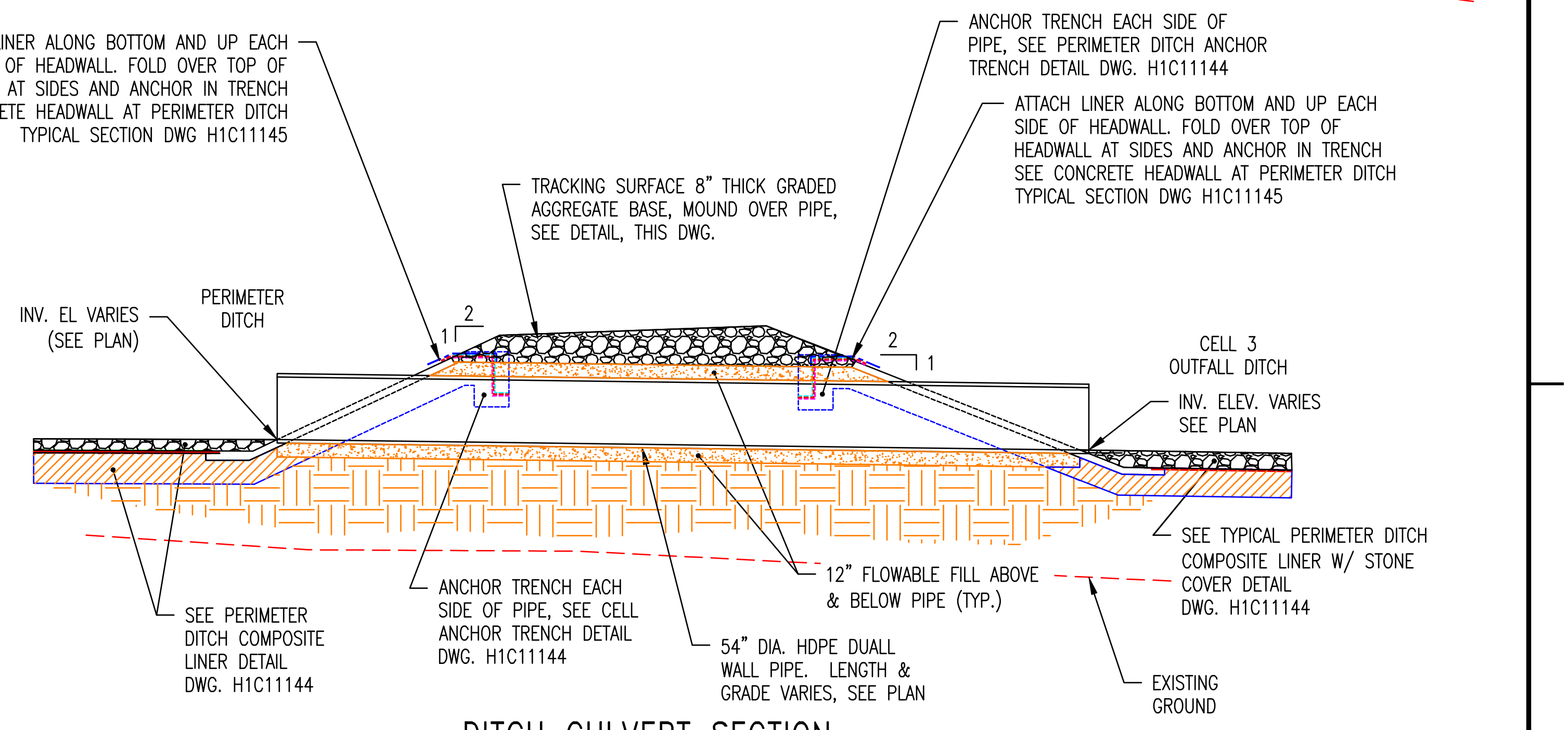
1" = 10'
(H1C11125)


SEE PERIMETER DITCH ANCHOR TRENCH DETAIL DWG. H1C11144
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
EXISTING GROUND
SEE CONCRETE HEADWALL AT PERIMETER DITCH TYPICAL SECTION, DWG. H1C11145
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE, MOUND OVER PIPE, SEE DETAIL THIS DWG.
INV. EL VARIES SEE PLAN
PERIMETER DITCH
2.5
1
GENERAL STRUCTURAL FILL
FLOW
HDPE DUAL WALL PIPE. SIZE, NUMBER, AND LENGTH VARIES, SEE PLAN
12" FLOWABLE FILL ABOVE & BELOW PIPE (TYP.)
SEE POND ANCHOR TRENCH DTL (TYP.) DWG. H1C11144
SEE POND DOUBLE LINER LINER DETAIL (TYP.) DWG. H1C11144
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
ATTACH LINER ALONG BOTTOM AND UP EACH SIDE OF HEADWALL. FOLD OVER TOP OF HEADWALL AT SIDES AND ANCHOR IN TRENCH SEE PIPE EXIT CONCRETE HEADWALL AT SEDIMENT & RETURN WATER PONDS TYPICAL SECTION DWG. H1C11145
INV. EL VARIES SEE PLAN
NORTH SEDIMENT POND
100 YR STORM EVENT EL. 737.10

DITCH CULVERT SECTION

CELL 2

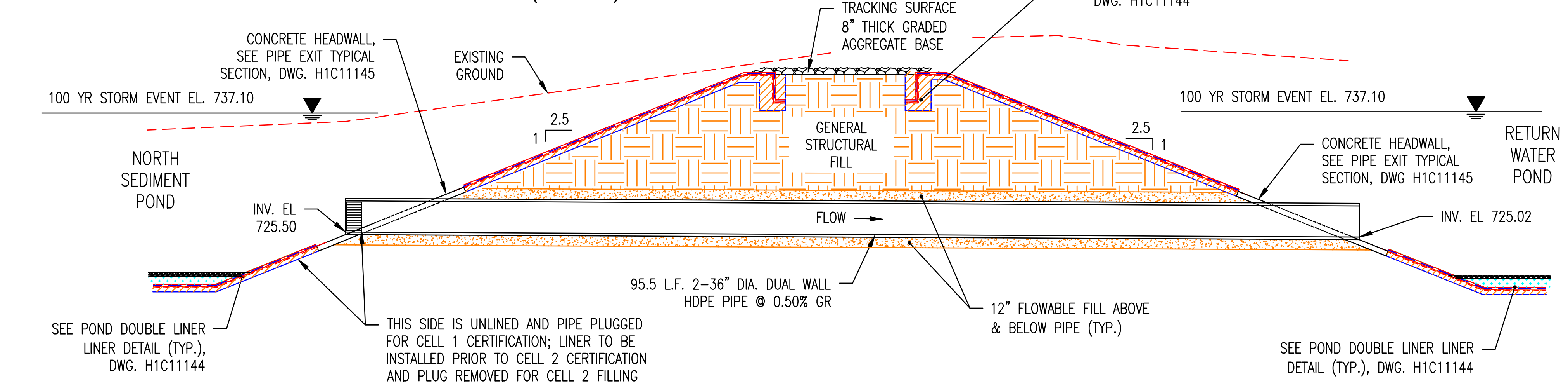
1" = 10'
(H1C11131)


ATTACH LINER ALONG BOTTOM AND UP EACH SIDE OF HEADWALL. FOLD OVER TOP OF HEADWALL AT SIDES AND ANCHOR IN TRENCH SEE CONCRETE HEADWALL AT PERIMETER DITCH TYPICAL SECTION DWG H1C11145
ANCHOR TRENCH EACH SIDE OF PIPE, SEE PERIMETER DITCH ANCHOR TRENCH DETAIL DWG. H1C11144
ATTACH LINER ALONG BOTTOM AND UP EACH SIDE OF HEADWALL. FOLD OVER TOP OF HEADWALL AT SIDES AND ANCHOR IN TRENCH SEE CONCRETE HEADWALL AT PERIMETER DITCH TYPICAL SECTION DWG H1C11145
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE, MOUND OVER PIPE, SEE DETAIL, THIS DWG.
NORTH SEDIMENT POND
INV. EL VARIES (SEE PLAN)
PERIMETER DITCH
CELL 3 OUTFALL DITCH
INV. ELEV. VARIES SEE PLAN
SEE PERIMETER DITCH COMPOSITE LINER DETAIL DWG. H1C11144
ANCHOR TRENCH EACH SIDE OF PIPE, SEE CELL ANCHOR TRENCH DETAIL DWG. H1C11144
54" DIA. HDPE DUALL WALL PIPE. LENGTH & GRADE VARIES, SEE PLAN
12" FLOWABLE FILL ABOVE & BELOW PIPE (TYP.)
SEE TYPICAL PERIMETER DITCH COMPOSITE LINER W/ STONE COVER DETAIL DWG. H1C11144
EXISTING GROUND

DITCH CULVERT SECTION

CELL 3

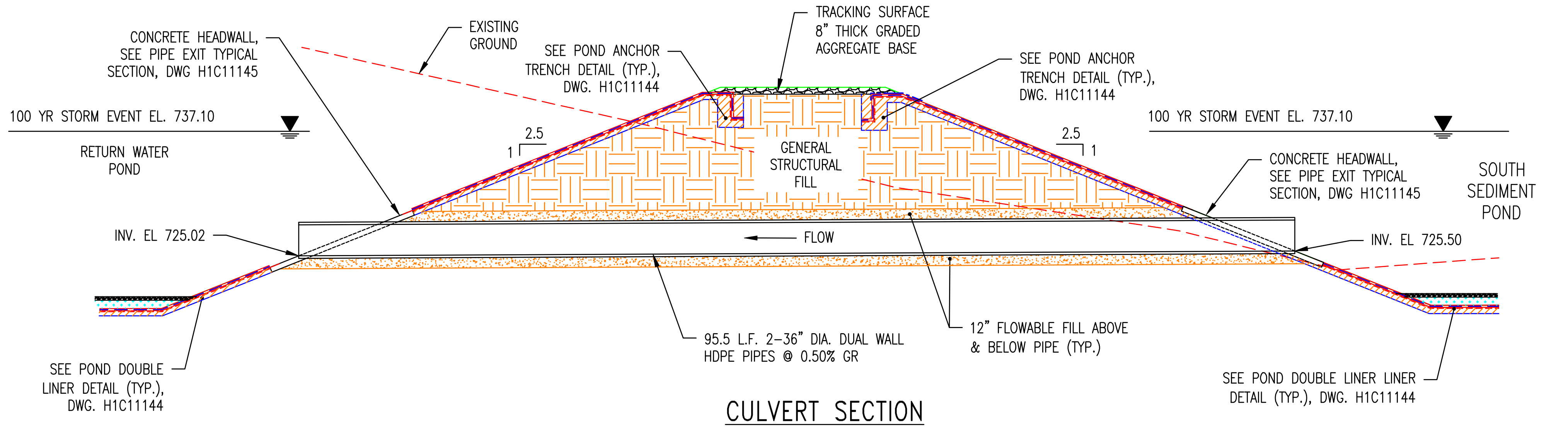
1" = 10'
(H1C11133)


SEE POND ANCHOR TRENCH DETAIL (TYP.), DWG. H1C11144
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
CONCRETE HEADWALL, SEE PIPE EXIT TYPICAL SECTION, DWG. H1C11145
EXISTING GROUND
100 YR STORM EVENT EL. 737.10
NORTH SEDIMENT POND
INV. EL 725.50
GENERAL STRUCTURAL FILL
2.5
1
FLOW
100 YR STORM EVENT EL. 737.10
RETURN WATER POND
CONCRETE HEADWALL, SEE PIPE EXIT TYPICAL SECTION, DWG H1C11145
INV. EL 725.02
95.5 L.F. 2–36" DIA. DUAL WALL HDPE PIPE @ 0.50% GR
12" FLOWABLE FILL ABOVE & BELOW PIPE (TYP.)
SEE POND DOUBLE LINER LINER DETAIL (TYP.), DWG. H1C11144
THIS SIDE IS UNLINED AND PIPE PLUGGED FOR CELL 1 CERTIFICATION; LINER TO BE INSTALLED PRIOR TO CELL 2 CERTIFICATION AND PLUG REMOVED FOR CELL 2 FILLING OPERATIONS.
SEE POND DOUBLE LINER LINER DETAIL (TYP.), DWG. H1C11144

CULVERT SECTION

NORTH SED POND TO RETURN WATER POND

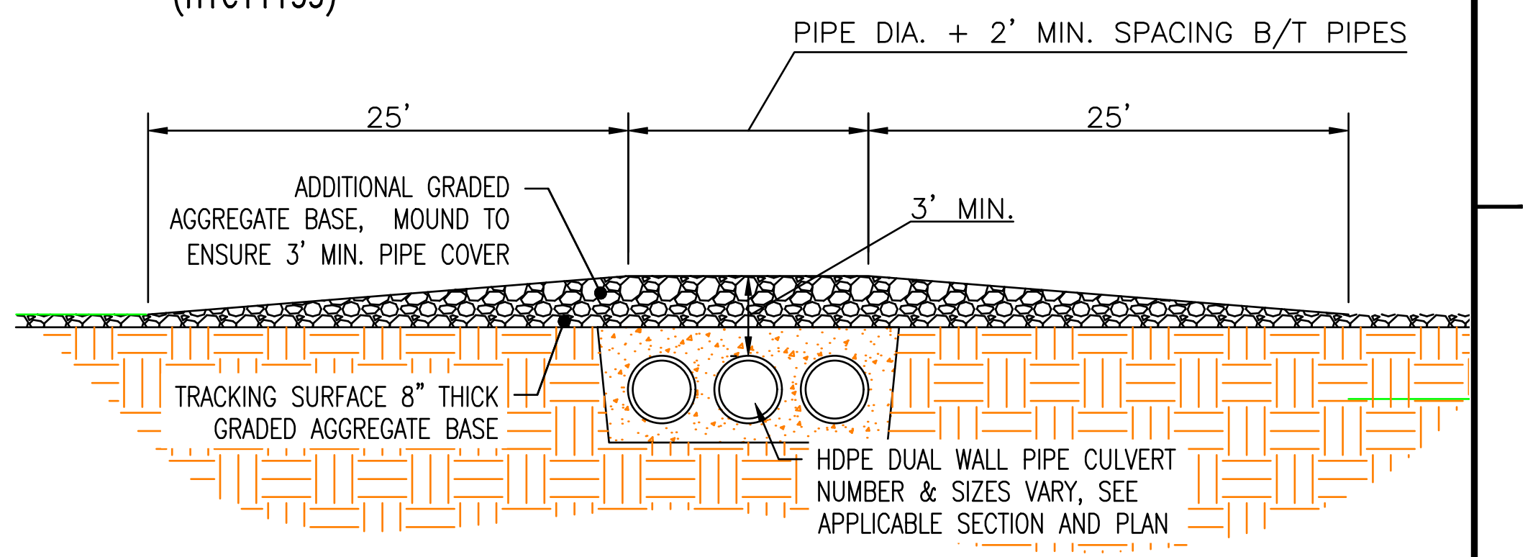
1" = 10'
(H1C11126 & H1C11131)


EXISTING GROUND
CONCRETE HEADWALL, SEE PIPE EXIT TYPICAL SECTION, DWG H1C11145
SEE POND ANCHOR TRENCH DETAIL (TYP.), DWG. H1C11144
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
SEE POND ANCHOR TRENCH DETAIL (TYP.), DWG. H1C11144
100 YR STORM EVENT EL. 737.10
RETURN WATER POND
INV. EL 725.02
2.5
1
GENERAL STRUCTURAL FILL
FLOW
100 YR STORM EVENT EL. 737.10
CONCRETE HEADWALL, SEE PIPE EXIT TYPICAL SECTION, DWG H1C11145
SOUTH SEDIMENT POND
INV. EL 725.50
SEE POND DOUBLE LINER DETAIL (TYP.), DWG. H1C11144
95.5 L.F. 2–36" DIA. DUAL WALL HDPE PIPES @ 0.50% GR
12" FLOWABLE FILL ABOVE & BELOW PIPE (TYP.)
SEE POND DOUBLE LINER LINER DETAIL (TYP.), DWG. H1C11144

CULVERT SECTION

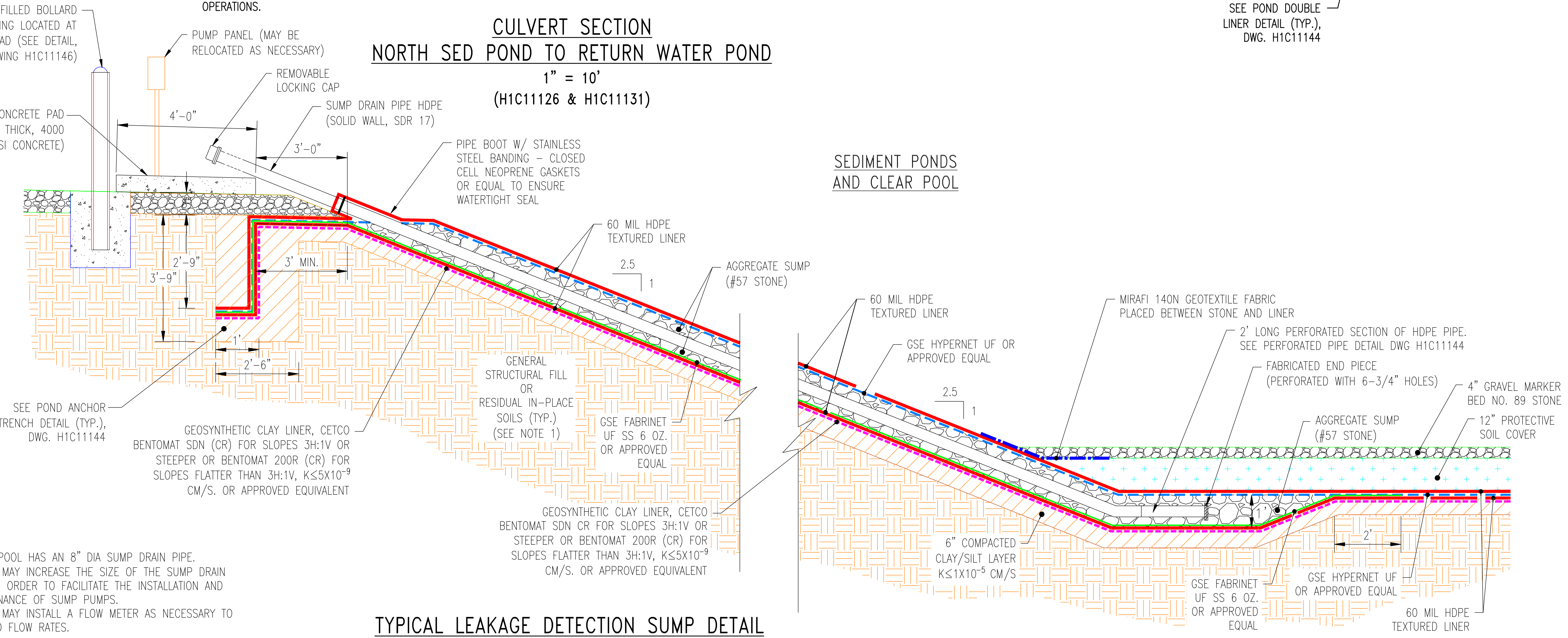
SOUTH SED POND TO RETURN WATER POND

1" = 10'
(H1C11125)


PIPE DIA. + 2' MIN. SPACING B/T PIPES
25'
25'
ADDITIONAL GRADED AGGREGATE BASE, MOUND TO ENSURE 3' MIN. PIPE COVER
3' MIN.
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
HDPE DUAL WALL PIPE CULVERT NUMBER & SIZES VARY, SEE APPLICABLE SECTION AND PLAN

MOUND OVER PIPE DETAIL

1" = 10'
(H1C11139)

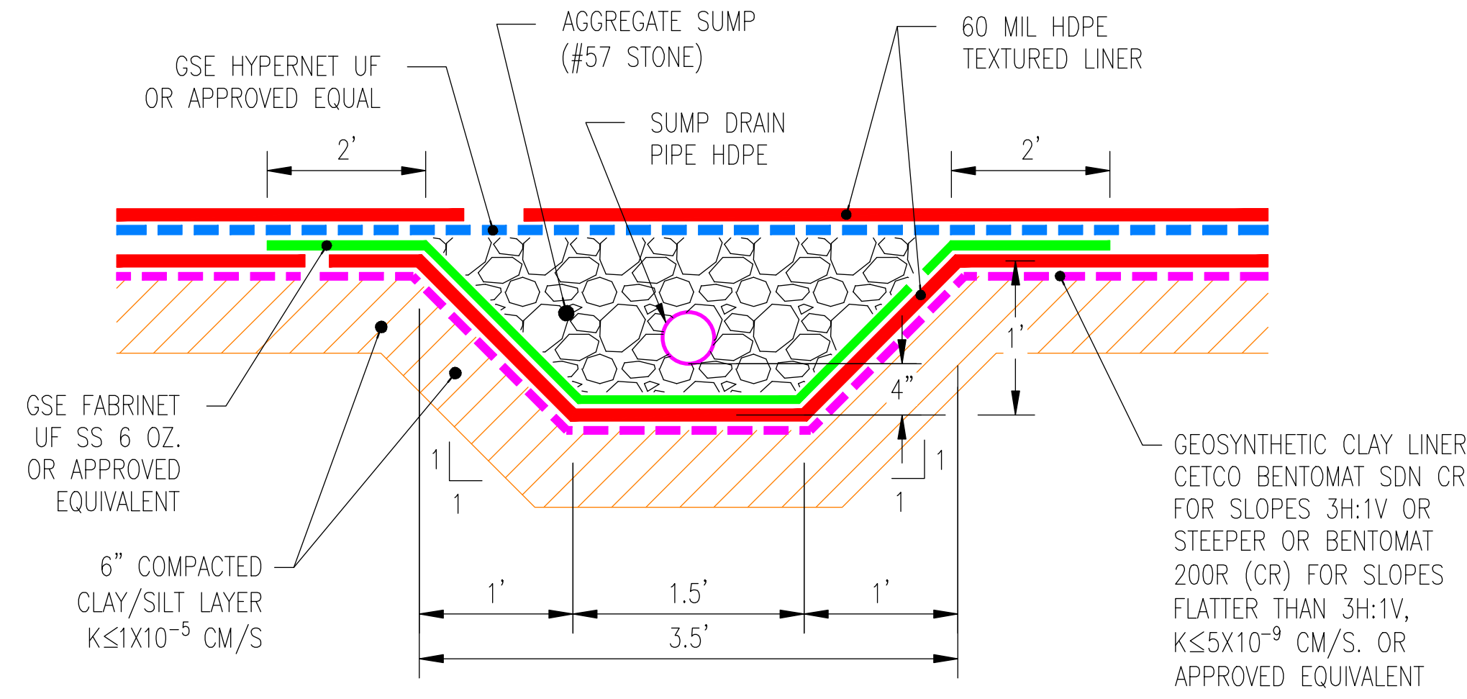

TWO (2) CONCRETE FILLED BOLLARD W/CONC. FOOTING LOCATED AT CORNERS OF PAD (SEE DETAIL, DRAWING H1C11146)
PUMP PANEL (MAY BE RELOCATED AS NECESSARY)
REMOVABLE LOCKING CAP
SUMP DRAIN PIPE HDPE (SOLID WALL, SDR 17)
CONCRETE PAD (4'X4'X6" THICK, 4000 PSI CONCRETE)
4'-0"
3'-0"
PIPE BOOT W/ STAINLESS STEEL BANDING – CLOSED CELL NEOPRENE GASKETS OR EQUAL TO ENSURE WATERTIGHT SEAL
2'-9"
3'-9"
3' MIN.
1'
2'-6"
60 MIL HDPE TEXTURED LINER
2.5
1
AGGREGATE SUMP (#57 STONE)
SEE POND ANCHOR TRENCH DETAIL (TYP.), DWG. H1C11144
GEOSYNTHETIC CLAY LINER, CETCO BENTOMAT SDN (CR) FOR SLOPES 3H:1V OR STEEPER OR BENTOMAT 200R (CR) FOR SLOPES FLATTER THAN 3H:1V, K≤5X10-9 CM/S. OR APPROVED EQUIVALENT
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.) (SEE NOTE 1)
GSE FABRINET UF SS 6 OZ. OR APPROVED EQUAL
GEOSYNTHETIC CLAY LINER, CETCO BENTOMAT SDN CR FOR SLOPES 3H:1V OR STEEPER OR BENTOMAT 200R (CR) FOR SLOPES FLATTER THAN 3H:1V, K≤5X10-9 CM/S. OR APPROVED EQUIVALENT
SEDIMENT PONDS AND CLEAR POOL
60 MIL HDPE TEXTURED LINER
GSE HYPERNET UF OR APPROVED EQUAL
MIRAFI 140N GEOTEXTILE FABRIC PLACED BETWEEN STONE AND LINER
2' LONG PERFORATED SECTION OF HDPE PIPE. SEE PERFORATED PIPE DETAIL DWG H1C11144
FABRICATED END PIECE (PERFORATED WITH 6-3/4" HOLES)
4" GRAVEL MARKER BED NO. 89 STONE
12" PROTECTIVE SOIL COVER
AGGREGATE SUMP (#57 STONE)
1'
2'
6" COMPACTED CLAY/SILT LAYER K≤1X10-5 CM/S
GSE FABRINET UF SS 6 OZ. OR APPROVED EQUAL
GSE HYPERNET UF OR APPROVED EQUAL
60 MIL HDPE TEXTURED LINER

NOTES:

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

TYPICAL LEAKAGE DETECTION SUMP DETAIL

N.T.S.
(H1C11125 & H1C11131)


GSE HYPERNET UF OR APPROVED EQUAL
AGGREGATE SUMP (#57 STONE)
SUMP DRAIN PIPE HDPE
60 MIL HDPE TEXTURED LINER
2'
2'
GSE FABRINET UF SS 6 OZ. OR APPROVED EQUIVALENT
6" COMPACTED CLAY/SILT LAYER K≤1X10-5 CM/S
4"
1'
1
1
1
1
1'
1.5'
1'
3.5'
GEOSYNTHETIC CLAY LINER, CETCO BENTOMAT SDN CR FOR SLOPES 3H:1V OR STEEPER OR BENTOMAT 200R (CR) FOR SLOPES FLATTER THAN 3H:1V, K≤5X10-9 CM/S. OR APPROVED EQUIVALENT

TYPICAL LEAKAGE DETECTION

SUMP DRAIN PIPE DETAIL

N.T.S.

NOTES:

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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2025.10.27 08:45:43 -04'00'

REFERENCES:

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

No. 12687
GARY H. McWHORTER
Gary H McWhorter 10/21/25

NO. 27185
R. BRANT LANE
10/21/25

Southern Company Services, Inc.

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
2	10-21-2025	COMPLETE REMOVAL OF 36" HDPE PIPE, MANHOLE AND BERM, RECONSTRUCTION OF DITCH; [BY HHNT, INC.]							
1	01-08-2024	CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	**H1C11140**	1	FINAL	2

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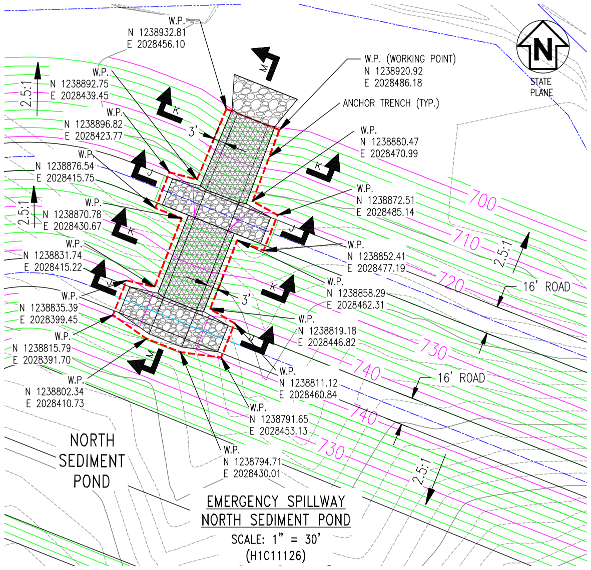
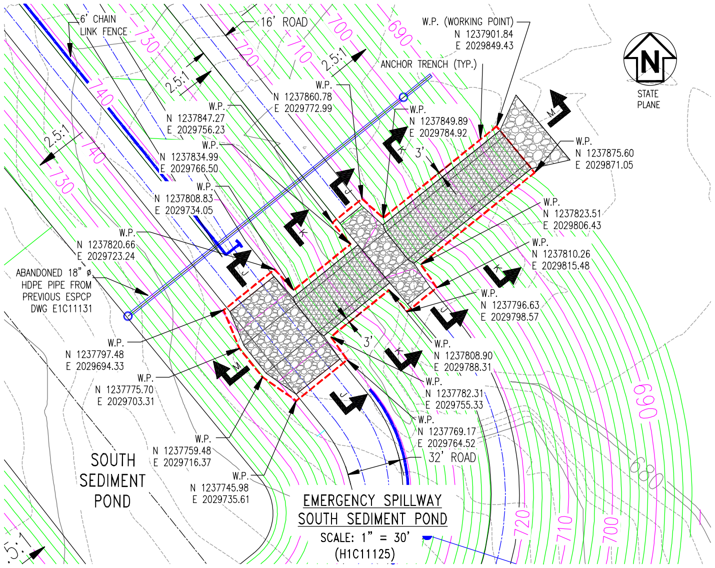
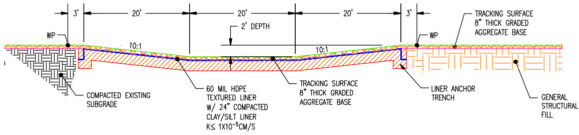

W.P.
N 1238932.81
E 2028456.10
W.P. (WORKING POINT)
N 1238920.92
E 2028486.18
ANCHOR TRENCH (TYP.)
STATE PLANE
W.P.
N 1238892.75
E 2028439.45
W.P.
N 1238896.82
E 2028423.77
W.P.
N 1238880.47
E 2028470.99
W.P.
N 1238876.54
E 2028415.75
W.P.
N 1238872.51
E 2028485.14
W.P.
N 1238870.78
E 2028430.67
W.P.
N 1238852.41
E 2028477.19
W.P.
N 1238831.74
E 2028415.22
W.P.
N 1238858.29
E 2028462.31
W.P.
N 1238835.39
E 2028399.45
W.P.
N 1238819.18
E 2028446.82
W.P.
N 1238815.79
E 2028391.70
W.P.
N 1238811.12
E 2028460.84
W.P.
N 1238802.34
E 2028410.73
W.P.
N 1238791.65
E 2028453.13
W.P.
N 1238794.71
E 2028430.01
2.5:1
3'
16' ROAD
700
710
720
730
740
J
K
M
NORTH SEDIMENT POND

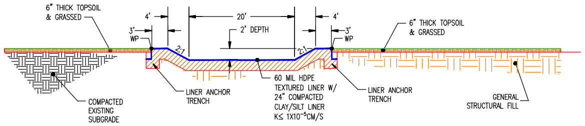
EMERGENCY SPILLWAY
NORTH SEDIMENT POND
SCALE: 1" = 30'
(H1C11126)


6' CHAIN LINK FENCE
16' ROAD
W.P. (WORKING POINT)
N 1237901.84
E 2029849.43
ANCHOR TRENCH (TYP.)
STATE PLANE
W.P.
N 1237860.78
E 2029772.99
W.P.
N 1237847.27
E 2029756.23
W.P.
N 1237849.89
E 2029784.92
W.P.
N 1237834.99
E 2029766.50
W.P.
N 1237875.60
E 2029871.05
W.P.
N 1237808.83
E 2029734.05
W.P.
N 1237823.51
E 2029806.43
W.P.
N 1237820.66
E 2029723.24
W.P.
N 1237810.26
E 2029815.48
ABANDONED 18" ø HDPE PIPE FROM PREVIOUS ESPCP DWG E1C11131
W.P.
N 1237796.63
E 2029798.57
W.P.
N 1237797.48
E 2029694.33
W.P.
N 1237808.90
E 2029788.31
W.P.
N 1237775.70
E 2029703.31
W.P.
N 1237782.31
E 2029755.33
W.P.
N 1237769.17
E 2029764.52
W.P.
N 1237759.48
E 2029716.37
W.P.
N 1237745.98
E 2029735.61
32' ROAD
2.5:1
3'
680
690
700
710
720
730
740
J
K
M
SOUTH SEDIMENT POND

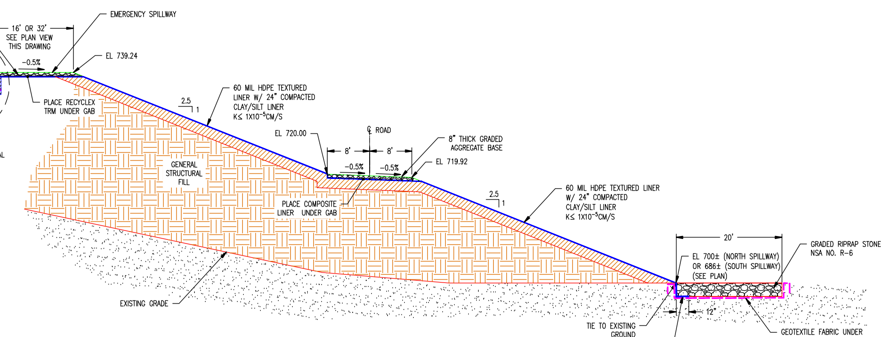
EMERGENCY SPILLWAY
SOUTH SEDIMENT POND
SCALE: 1" = 30'
(H1C11125)


3'
20'
20'
20'
3'
WP
WP
2' DEPTH
10:1
10:1
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
COMPACTED EXISTING SUBGRADE
60 MIL HDPE TEXTURED LINER W/ 24" COMPACTED CLAY/SILT LINER K≤ 1X10⁻⁵CM/S
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
LINER ANCHOR TRENCH
GENERAL STRUCTURAL FILL

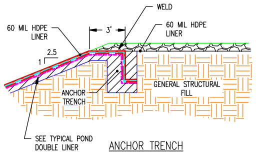
SECTION J–J
EMERGENCY SPILLWAY SECTION TYPICAL ROAD CROSSING
NOT TO SCALE
(H1C11125 & H1C11126)


6" THICK TOPSOIL & GRASSED
4'
20'
4'
3'
WP
3'
WP
2' DEPTH
2:1
2:1
6" THICK TOPSOIL & GRASSED
COMPACTED EXISTING SUBGRADE
LINER ANCHOR TRENCH
60 MIL HDPE TEXTURED LINER W/ 24" COMPACTED CLAY/SILT LINER K≤ 1X10⁻⁵CM/S
LINER ANCHOR TRENCH
GENERAL STRUCTURAL FILL

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


SEDIMENT POND
2.5
1
EL 741.36
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
16' OR 32' SEE PLAN VIEW THIS DRAWING
–0.5%
EMERGENCY SPILLWAY
EL 739.24
SEE ANCHOR TRENCH INSET
GENERAL STRUCTURAL FILL
PLACE RECYCLEX TRM UNDER GAB
60 MIL HDPE TEXTURED LINER W/ 24" COMPACTED CLAY/SILT LINER K≤ 1X10⁻⁵CM/S
GENERAL STRUCTURAL FILL
EL 720.00
℄ ROAD
8'
8'
–0.5%
–0.5%
8" THICK GRADED AGGREGATE BASE
EL 719.92
PLACE COMPOSITE LINER UNDER GAB
60 MIL HDPE TEXTURED LINER W/ 24" COMPACTED CLAY/SILT LINER K≤ 1X10⁻⁵CM/S
EXISTING GRADE
20'
EL 700± (NORTH SPILLWAY) OR 686± (SOUTH SPILLWAY) (SEE PLAN)
GRADED RIPRAP STONE NSA NO. R-6
12"
TIE TO EXISTING GROUND
EXTEND RECYCLEX TRM 12" UNDER RIPRAP
GEOTEXTILE FABRIC UNDER RIPRAP STONE, US-380NW OR GEOTEX 1601

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


WELD
60 MIL HDPE LINER
3'
60 MIL HDPE LINER
2.5
1
ANCHOR TRENCH
GENERAL STRUCTURAL FILL
SEE TYPICAL POND DOUBLE LINER DETAIL DWG H1C11144

ANCHOR TRENCH
INSET
NO SCALE

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

R. BRANT LANE NO. 27185 9/27/22

GARY H. McWHORTER No. 12087 9/23/22

REFERENCES:

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

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
ANR	RBL		☒	☒	☒	☒	N.T.S.	**H1C11141**	1	FINAL	0

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

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

ABANDONMENT PROCEDURES

RISER STRUCTURE AND DECANT PIPE ASSEMBLY

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

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

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

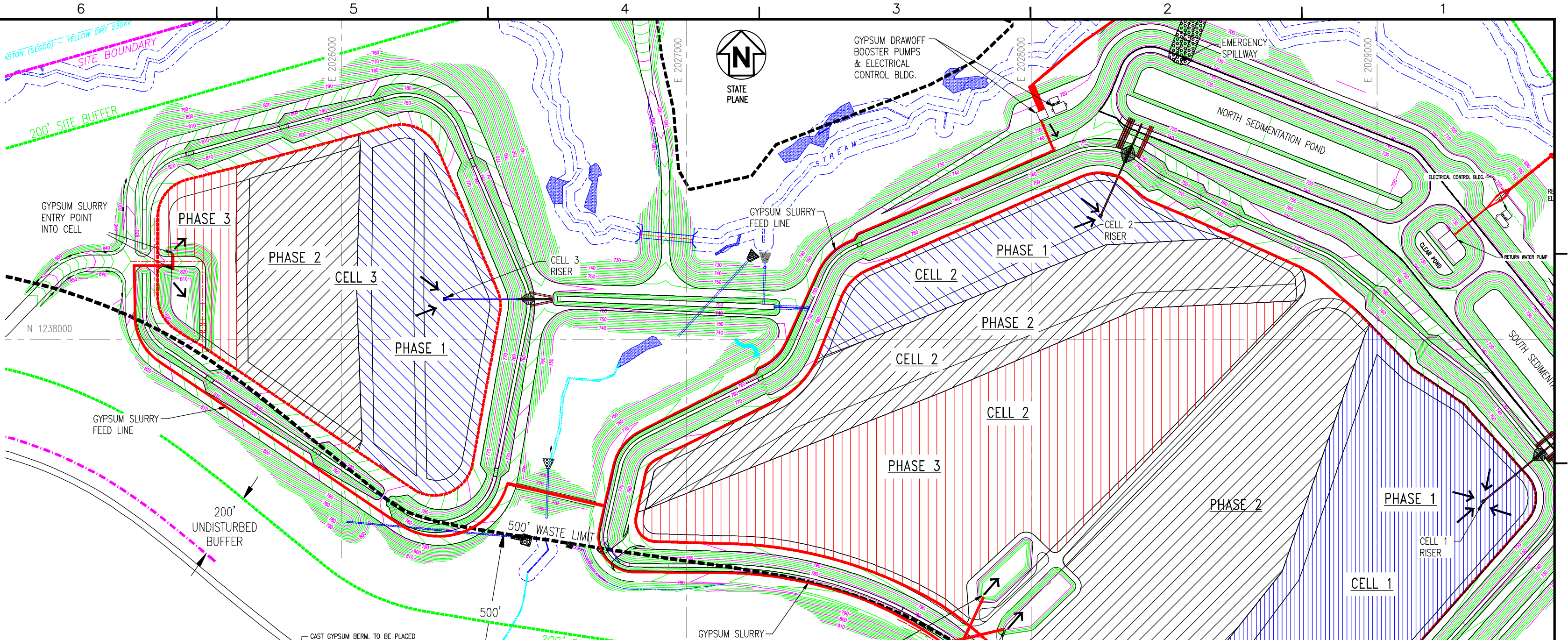
MATERIAL RECLAMATION FOR MARKET

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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli

NO. 27185 R. BRANT LANE 10/18/24

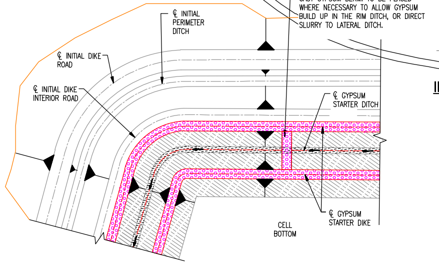
No. 12687 GARY H. McWHORTER 10/18/24



N
STATE PLANE
SITE BOUNDARY
200' SITE BUFFER
E 2026000
E 2027000
E 2028000
E 2029000
N 1238000
N 1237000
GYPSUM DRAWOFF BOOSTER PUMPS & ELECTRICAL CONTROL BLDG.
EMERGENCY SPILLWAY
NORTH SEDIMENTATION POND
SOUTH SEDIMENTATION POND
ELECTRICAL CONTROL BLDG.
RETURN WATER PUMP
CLEAR POND
STREAM
GYPSUM SLURRY ENTRY POINT INTO CELL
GYPSUM SLURRY FEED LINE
CELL 3 RISER
CELL 2 RISER
CELL 1 RISER
PHASE 3
PHASE 2
PHASE 1
CELL 3
CELL 2
CELL 1
200' UNDISTURBED BUFFER
500' WASTE LIMIT
500'
200' BUFFER
GYPSUM SLURRY ENTRY POINT INTO CELLS

INITIAL CELL FILLING PLAN WITH RIM DITCHES

N.T.S.



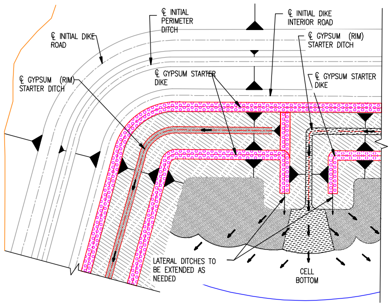
CAST GYPSUM BERM. TO BE PLACED WHERE NECESSARY TO ALLOW GYPSUM BUILD UP IN THE RIM DITCH, OR DIRECT SLURRY TO LATERAL DITCH.
℄ INITIAL PERIMETER DITCH
℄ INITIAL DIKE ROAD
℄ INITIAL DIKE INTERIOR ROAD
℄ GYPSUM STARTER DITCH
℄ GYPSUM STARTER DIKE
CELL BOTTOM

TYPICAL GYPSUM STARTER (RIM) DITCH DETAIL

N.T.S.

LEGEND:					
▨	CAST GYPSUM DIKE	▨	SETTLED GYPSUM	-·-·-	PERENNIAL/INTERMITTENT STREAMS
▨	CAST GYPSUM DIKE SLOPES (3:1)	☐	WATER PONDING	-·-·-	EPHEMERAL STREAMS
▨	SLUICED GYPSUM			-·-·-	25' STREAM BUFFER
				▨	WETLANDS

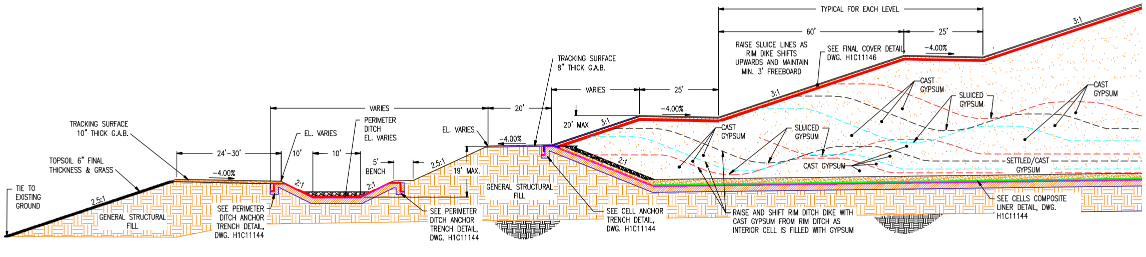
2



℄ INITIAL PERIMETER DITCH
℄ INITIAL DIKE ROAD
℄ INITIAL DIKE INTERIOR ROAD
℄ GYPSUM (RIM) STARTER DITCH
℄ GYPSUM STARTER DIKE
LATERAL DITCHES TO BE EXTENDED AS NEEDED
CELL BOTTOM

TYPICAL LATERAL DITCH DETAIL

N.T.S.



TIE TO EXISTING GROUND
2.5:1
GENERAL STRUCTURAL FILL
TOPSOIL 6" FINAL THICKNESS & GRASS
TRACKING SURFACE 10" THICK G.A.B.
24'-30'
-4.00%
EL. VARIES
10'
2:1
10'
PERIMETER DITCH EL. VARIES
VARIES
5' BENCH
2:1
2.5:1
19' MAX.
EL. VARIES
20'
-4.00%
SEE PERIMETER DITCH ANCHOR TRENCH DETAIL, DWG. H1C11144
SEE PERIMETER DITCH ANCHOR TRENCH DETAIL, DWG. H1C11144
GENERAL STRUCTURAL FILL
TRACKING SURFACE 8" THICK G.A.B.
VARIES
25'
20' MAX
3:1
-4.00%
2:1
TYPICAL FOR EACH LEVEL
60'
25'
RAISE SLUICE LINES AS RIM DIKE SHIFTS UPWARDS AND MAINTAIN MIN. 3' FREEBOARD
SEE FINAL COVER DETAIL, DWG. H1C11146
-4.00%
3:1
3:1
CAST GYPSUM
SLUICED GYPSUM
CAST GYPSUM
SLUICED GYPSUM
CAST GYPSUM
CAST GYPSUM
SETTLED/CAST GYPSUM
SEE CELL ANCHOR TRENCH DETAIL, DWG. H1C11144
RAISE AND SHIFT RIM DITCH DIKE WITH CAST GYPSUM FROM RIM DITCH AS INTERIOR CELL IS FILLED WITH GYPSUM
SEE CELLS COMPOSITE LINER DETAIL, DWG. H1C11144

TYPICAL GYPSUM DIKE CONSTRUCTION DEVELOPMENT OF GYPSUM STACK

N.T.S.

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
2	10-18-2024	UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
1	8-30-2023	REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	H1C11142	1	FINAL	2

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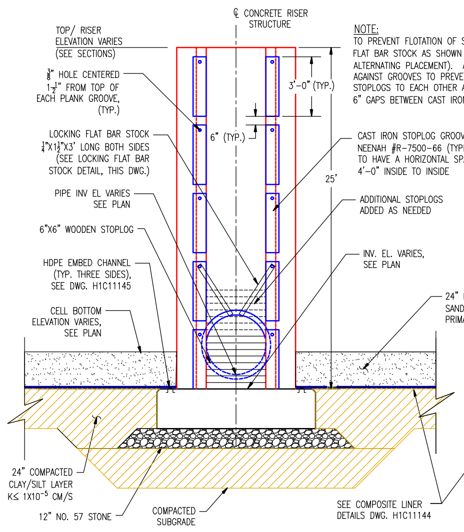
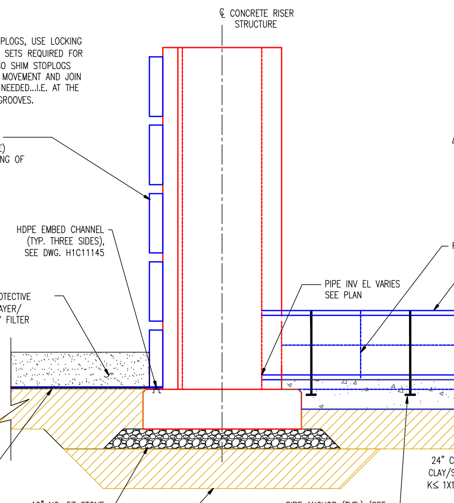

℄ CONCRETE RISER STRUCTURE
TOP/ RISER ELEVATION VARIES (SEE SECTIONS)
3/8" HOLE CENTERED 1½" FROM TOP OF EACH PLANK GROOVE, (TYP.)
3'-0" (TYP.)
6" (TYP.)
LOCKING FLAT BAR STOCK ¼"X1½"X3' LONG BOTH SIDES (SEE LOCKING FLAT BAR STOCK DETAIL, THIS DWG.)
CAST IRON STOPLOG GROOVES NEENAH #R-7500-66 (TYPE E) TO HAVE A HORIZONTAL SPACING OF 4'-0" INSIDE TO INSIDE
25'
PIPE INV EL VARIES SEE PLAN
ADDITIONAL STOPLOGS ADDED AS NEEDED
6"X6" WOODEN STOPLOG
HDPE EMBED CHANNEL (TYP. THREE SIDES), SEE DWG. H1C11145
INV. EL. VARIES, SEE PLAN
CELL BOTTOM ELEVATION VARIES, SEE PLAN
24" PROTECTIVE SAND LAYER/ PRIMARY FILTER
24" COMPACTED CLAY/SILT LAYER K≤ 1X10⁻⁵ CM/S
12" NO. 57 STONE
COMPACTED SUBGRADE
SEE COMPOSITE LINER DETAILS DWG. H1C11144

RISER STRUCTURE SECTION

H1C11125, H1C11127 & H1C11129

N.T.S.

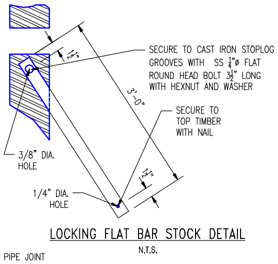
NOTE:
TO PREVENT FLOTATION OF STOPLOGS, USE LOCKING FLAT BAR STOCK AS SHOWN (2 SETS REQUIRED FOR ALTERNATING PLACEMENT). ALSO SHIM STOPLOGS AGAINST GROOVES TO PREVENT MOVEMENT AND JOIN STOPLOGS TO EACH OTHER AS NEEDED...I.E. AT THE 6" GAPS BETWEEN CAST IRON GROOVES.


℄ CONCRETE RISER STRUCTURE
HDPE EMBED CHANNEL (TYP. THREE SIDES), SEE DWG. H1C11145
PIPE INV EL VARIES SEE PLAN
PIPE JOINT
36" DIA. DUAL WALL HDPE OUTLET PIPE, SEE PLAN FOR SLOPE
24" PROTECTIVE SAND LAYER/ PRIMARY FILTER
12" NO. 57 STONE
COMPACTED SUBGRADE
PIPE ANCHOR (TYP.) (SEE DETAILS THIS DWG.)
24" COMPACTED CLAY/SILT LAYER K≤ 1X10⁻⁵ CM/S
1'-6" THICK REINFORCED CONCRETE BASE

RISER STRUCTURE & DECANT PIPE

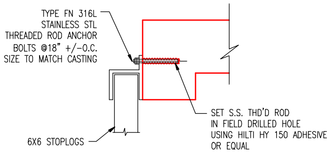
H1C11125, H1C11127, & H1C11129

N.T.S.


SECURE TO CAST IRON STOPLOG GROOVES WITH SS ¼"ø FLAT ROUND HEAD BOLT 3½" LONG WITH HEXNUT AND WASHER
1½"
3'-0"
SECURE TO TOP TIMBER WITH NAIL
3/8" DIA. HOLE
1½"
1/4" DIA. HOLE

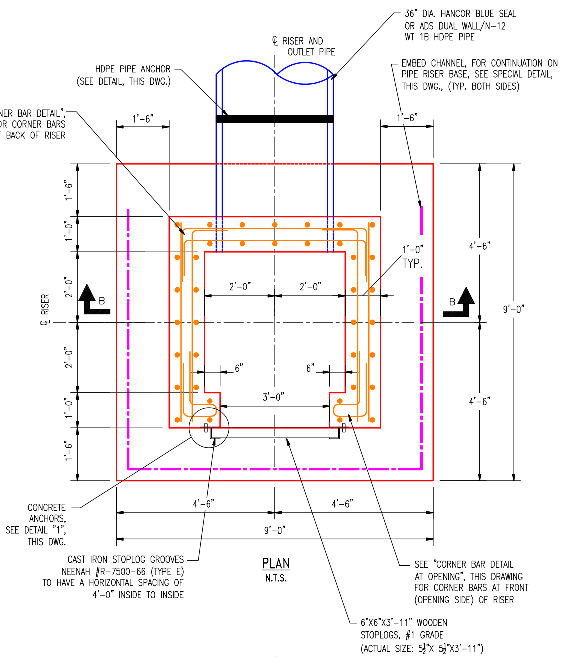
LOCKING FLAT BAR STOCK DETAIL

N.T.S.


TYPE FN 316L STAINLESS STL THREADED ROD ANCHOR BOLTS @18" +/-O.C. SIZE TO MATCH CASTING
SET S.S. THD'D ROD IN FIELD DRILLED HOLE USING HILTI HY 150 ADHESIVE OR EQUAL
6X6 STOPLOGS

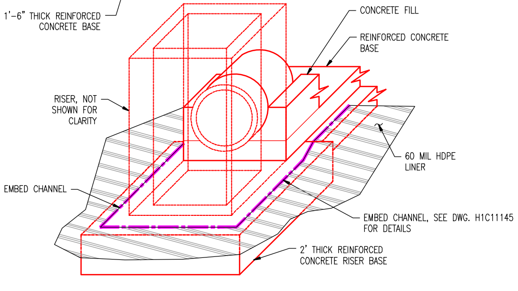
DETAIL "1"

N.T.S.


36" DIA. HANCOR BLUE SEAL OR ADS DUAL WALL/N-12 WT 1B HDPE PIPE
℄ RISER AND OUTLET PIPE
HDPE PIPE ANCHOR (SEE DETAIL, THIS DWG.)
EMBED CHANNEL, FOR CONTINUATION ON PIPE RISER BASE, SEE SPECIAL DETAIL, THIS DWG., (TYP. BOTH SIDES)
SEE "TYP. CORNER BAR DETAIL", THIS DRAWING FOR CORNER BARS AT BACK OF RISER
1'-6"
1'-6"
1'-6"
1'-0"
2'-0"
2'-0"
1'-0"
1'-6"
℄ RISER
B
B
1'-0" TYP.
2'-0"
2'-0"
6"
6"
3'-0"
4'-6"
4'-6"
9'-0"
4'-6"
4'-6"
9'-0"
CONCRETE ANCHORS, SEE DETAIL "1", THIS DWG.
CAST IRON STOPLOG GROOVES NEENAH #R-7500-66 (TYPE E) TO HAVE A HORIZONTAL SPACING OF 4'-0" INSIDE TO INSIDE
SEE "CORNER BAR DETAIL AT OPENING", THIS DRAWING FOR CORNER BARS AT FRONT (OPENING SIDE) OF RISER
6"X6"X3'-11" WOODEN STOPLOGS, #1 GRADE (ACTUAL SIZE: 5½"X 5½"X3'-11")

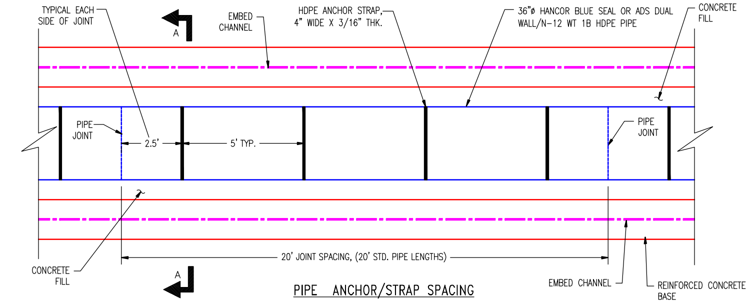
PLAN

N.T.S.


CONCRETE FILL
REINFORCED CONCRETE BASE
RISER, NOT SHOWN FOR CLARITY
60 MIL HDPE LINER
EMBED CHANNEL
EMBED CHANNEL, SEE DWG. H1C11145 FOR DETAILS
2' THICK REINFORCED CONCRETE RISER BASE

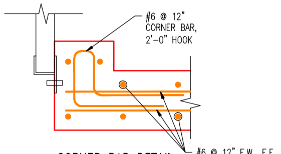
EMBED CHANNEL SPECIAL DETAIL

N.T.S.


TYPICAL EACH SIDE OF JOINT
A
EMBED CHANNEL
HDPE ANCHOR STRAP, 4" WIDE X 3/16" THK.
36"ø HANCOR BLUE SEAL OR ADS DUAL WALL/N-12 WT 1B HDPE PIPE
CONCRETE FILL
PIPE JOINT
2.5'
5' TYP.
PIPE JOINT
20' JOINT SPACING, (20' STD. PIPE LENGTHS)
CONCRETE FILL
A
EMBED CHANNEL
REINFORCED CONCRETE BASE

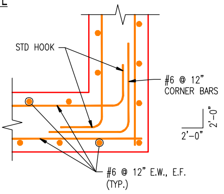
PIPE ANCHOR/STRAP SPACING

N.T.S.


#6 @ 12" CORNER BAR, 2'-0" HOOK
#6 @ 12" E.W., E.F. (TYP.)

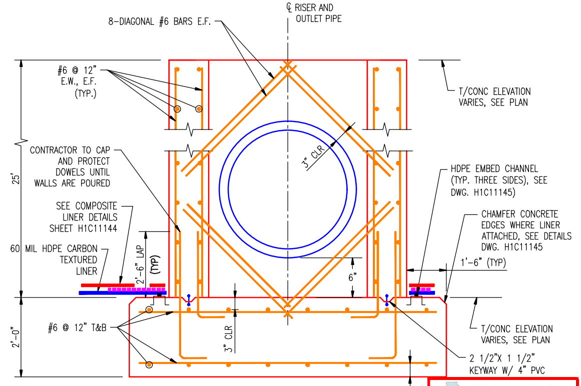
CORNER BAR DETAIL AT OPENING

N.T.S.


STD HOOK
#6 @ 12" CORNER BARS
2'-0"
2'-0"
#6 @ 12" E.W., E.F. (TYP.)

TYP. CORNER BAR DETAIL

N.T.S.


8-DIAGONAL #6 BARS E.F.
℄ RISER AND OUTLET PIPE
#6 @ 12" E.W., E.F. (TYP.)
T/CONC ELEVATION VARIES, SEE PLAN
3" CLR
CONTRACTOR TO CAP AND PROTECT DOWELS UNTIL WALLS ARE POURED
25'
HDPE EMBED CHANNEL (TYP. THREE SIDES), SEE DWG. H1C11145)
SEE COMPOSITE LINER DETAILS SHEET H1C11144
CHAMFER CONCRETE EDGES WHERE LINER ATTACHED, SEE DETAILS DWG. H1C11145
60 MIL HDPE CARBON TEXTURED LINER
2'-6" LAP (TYP)
1'-6" (TYP)
6"
#6 @ 12" T&B
2'-0"
3" CLR
T/CONC ELEVATION VARIES, SEE PLAN
2 1/2"X 1 1/2" KEYWAY W/ 4" PVC
3" CLR

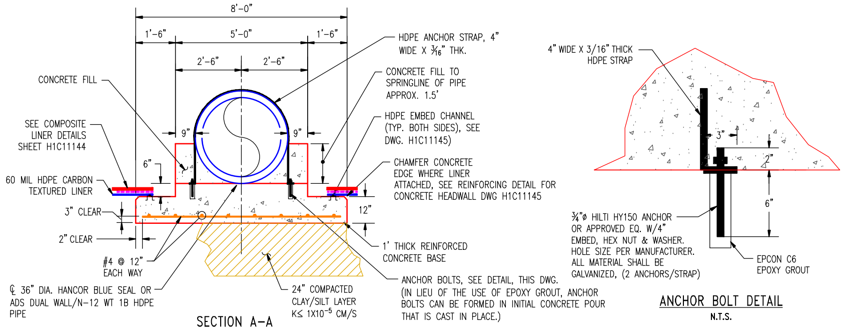
SECTION B-B

N.T.S.

RISER STRUCTURE REINFORCEMENT DETAIL

N.T.S.

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


8'-0"
1'-6"
5'-0"
1'-6"
2'-6"
2'-6"
CONCRETE FILL
HDPE ANCHOR STRAP, 4" WIDE X 3/16" THK.
CONCRETE FILL TO SPRINGLINE OF PIPE APPROX. 1.5'
SEE COMPOSITE LINER DETAILS SHEET H1C11144
HDPE EMBED CHANNEL (TYP. BOTH SIDES), SEE DWG. H1C11145)
9"
9"
6"
CHAMFER CONCRETE EDGE WHERE LINER ATTACHED, SEE REINFORCING DETAIL FOR CONCRETE HEADWALL DWG H1C11145
60 MIL HDPE CARBON TEXTURED LINER
3" CLEAR
12"
2" CLEAR
1' THICK REINFORCED CONCRETE BASE
#4 @ 12" EACH WAY
℄ 36" DIA. HANCOR BLUE SEAL OR ADS DUAL WALL/N-12 WT 1B HDPE PIPE
24" COMPACTED CLAY/SILT LAYER K≤ 1X10⁻⁵ CM/S
ANCHOR BOLTS, SEE DETAIL, THIS DWG. (IN LIEU OF THE USE OF EPOXY GROUT, ANCHOR BOLTS CAN BE FORMED IN INITIAL CONCRETE POUR THAT IS CAST IN PLACE.)
4" WIDE X 3/16" THICK HDPE STRAP
3"
2"
6"
¾"ø HILTI HY150 ANCHOR OR APPROVED EQ. W/4" EMBED, HEX NUT & WASHER. HOLE SIZE PER MANUFACTURER. ALL MATERIAL SHALL BE GALVANIZED, (2 ANCHORS/STRAP)
EPCON C6 EPOXY GROUT

SECTION A-A
N.T.S.

ANCHOR BOLT DETAIL
N.T.S.

PIPE ANCHOR DETAIL

N.T.S.

NOTES:

1. ALL CONCRETE AND METAL THAT WILL BE EXPOSED TO OR IN CONTACT WITH GYPSUM AND/OR GYPSUM SLURRY WATER, UNLESS OTHERWISE NOTED, SHALL BE COATED WITH CHEMPRUF 2410 LINING SYSTEM BY ATLAS MINERALS AND CHEMICALS, INC. OR APPROVED EQUAL. THIS WILL INCLUDE ALL CONCRETE HEADWALLS AT DITCH CULVERT DRAIN PIPES IN CELLS, LINED DITCHES AND LINED PONDS AS WELL AS COLLARS/HEADWALLS AROUND THE GYPSUM SLUICE LINES, LEACHATE COLLECTION PIPES, CONCRETE SURFACES FOR HDPE CHANNEL EMBEDS AT RISER STRUCTURE AND ASSOCIATED DECANT PIPE, CONCRETE RISER STRUCTURES, AND ALL CONCRETE FOUNDATIONS AND EXPOSED CONCRETE WITHIN THE PONDS AND LINED DITCHES.

2. THE LINING SYSTEM MATERIALS SHALL BE STORED, HANDLED AND APPLIED AS PER MANUFACTURER'S GUIDELINES AND INSTRUCTIONS.

3. THE LINING SYSTEM SHALL BE APPLIED BY PAINTING/COATINGS CONTRACTOR KNOWLEDGEABLE AND EXPERIENCED WITH IT'S APPLICATION.

4. FOR CORRESPONDING ELEVATIONS, PIPE LENGTHS AND SLOPES FOR EACH RISER ASSEMBLY FOR CELLS 1, 2 & 3 SEE DRAWINGS:
   H1C11125 – FOR CELL 1
   H1C11131 – FOR CELL 2
   H1C11133 – FOR CELL 3

REFERENCES:

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

NO. 27185 R. BRANT LANE 9/27/22

No. 12007 GARY H. McWHORTER 9/23/22

Southern Company Services, Inc.

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

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
ANR	RBL						AS NOTED	H1C11143	1	FINAL	0

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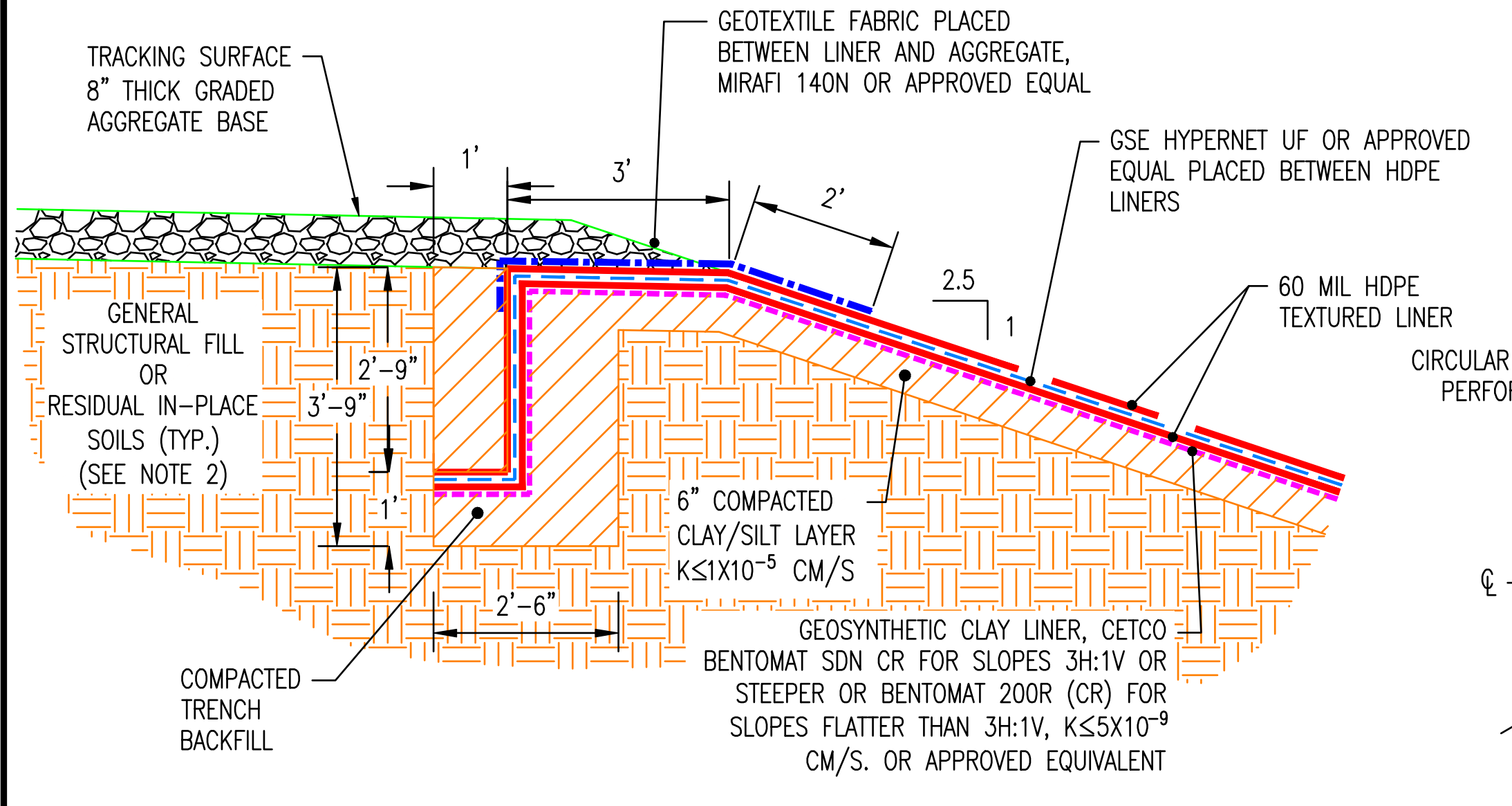

TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
GEOTEXTILE FABRIC PLACED BETWEEN LINER AND AGGREGATE, MIRAFI 140N OR APPROVED EQUAL
GSE HYPERNET UF OR APPROVED EQUAL PLACED BETWEEN HDPE LINERS
60 MIL HDPE TEXTURED LINER
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.) (SEE NOTE 2)
1'
3'
2'
2.5
1
2'-9"
3'-9"
1'
2'-6"
6" COMPACTED CLAY/SILT LAYER K≤1X10⁻⁵ CM/S
COMPACTED TRENCH BACKFILL
GEOSYNTHETIC CLAY LINER, CETCO BENTOMAT SDN CR FOR SLOPES 3H:1V OR STEEPER OR BENTOMAT 200R (CR) FOR SLOPES FLATTER THAN 3H:1V, K≤5X10⁻⁹ CM/S. OR APPROVED EQUIVALENT

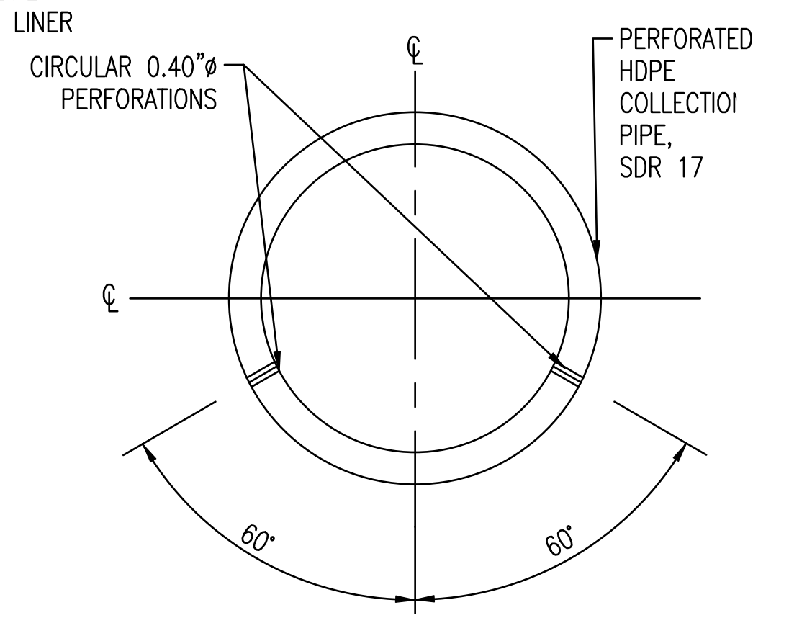
POND ANCHOR TRENCH DETAIL

N.T.S.

2

NOTE(S):
1. ANCHOR TRENCH MAY BE A 2' X 2' ANCHOR TRENCH W/ COMPACTED CLAY BACKFILL.

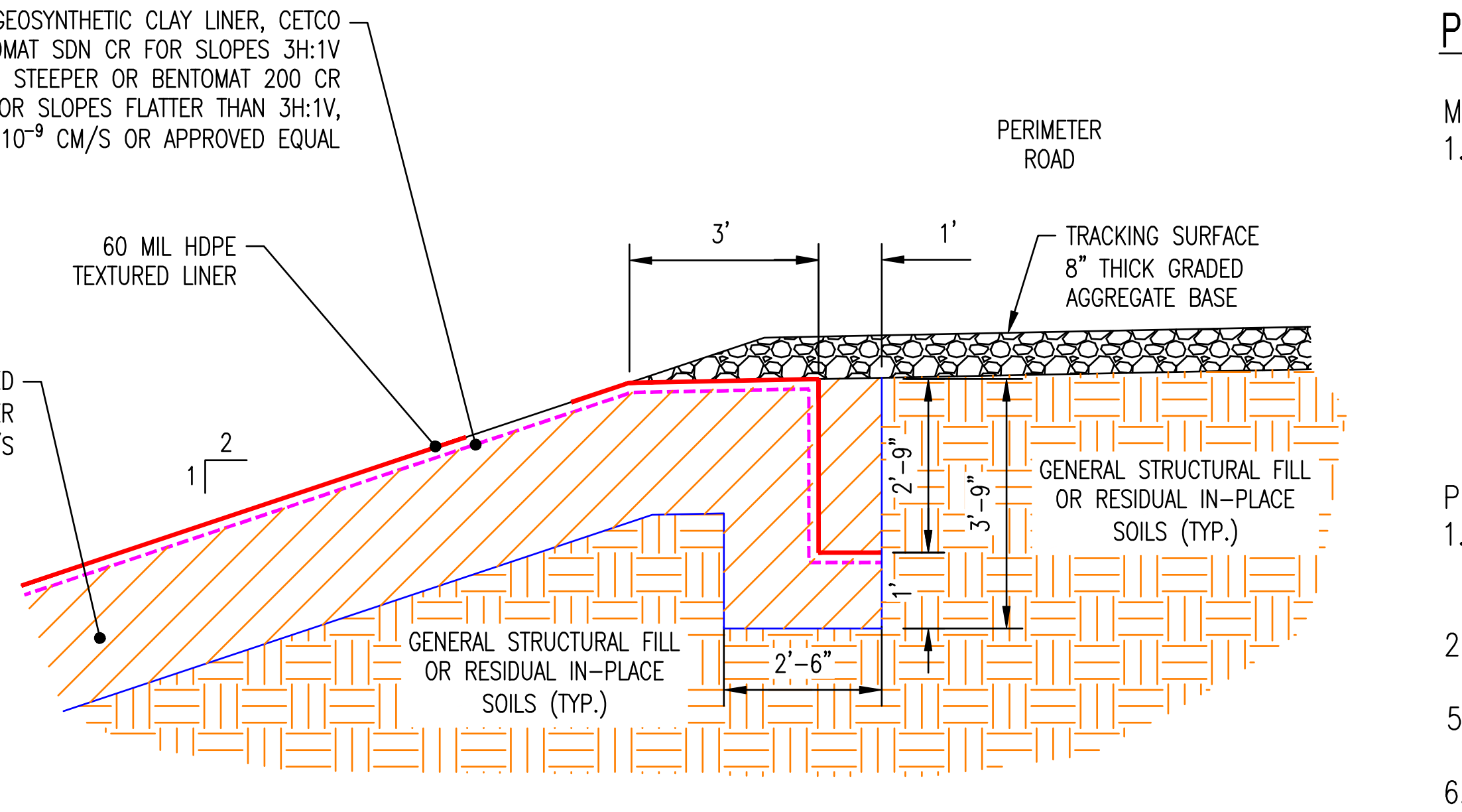
NOTE:
60 MIL HDPE LINER IS NOT TO BE PERMANENTLY ANCHORED AT TOP OF SLOPES UNTIL COVER HAS BEEN TEMPORARILY PLACED ON BOTTOM AND SIDES OF PERIMETER DITCH. LINER TO BE TEMPORARILY ANCHORED WITH SAND BAGS TO PREVENT MOVEMENT.


CIRCULAR 0.40"ø PERFORATIONS
PERFORATED HDPE COLLECTION PIPE, SDR 17
℄
℄
60°
60°

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

PERFORATED PIPE DETAIL FOR POND SUMP

N.T.S.


GEOSYNTHETIC CLAY LINER, CETCO BENTOMAT SDN CR FOR SLOPES 3H:1V OR STEEPER OR BENTOMAT 200 CR FOR SLOPES FLATTER THAN 3H:1V, K≤5X10⁻⁹ CM/S OR APPROVED EQUAL
60 MIL HDPE TEXTURED LINER
24" COMPACTED CLAY/SILT LINER K≤ 1X10⁻⁵CM/S
PERIMETER ROAD
3'
1'
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
2
1
2'-9"
3'-9"
1'
2'-6"
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)

PERIMETER DITCH WITH ANCHOR TRENCH DETAIL

N.T.S.

2

NOTE(S):
1. ANCHOR TRENCH MAY BE A 2' X 2' ANCHOR TRENCH W/ COMPACTED CLAY BACKFILL.

PERIMETER DITCH STONE INSTALLATION NOTES:

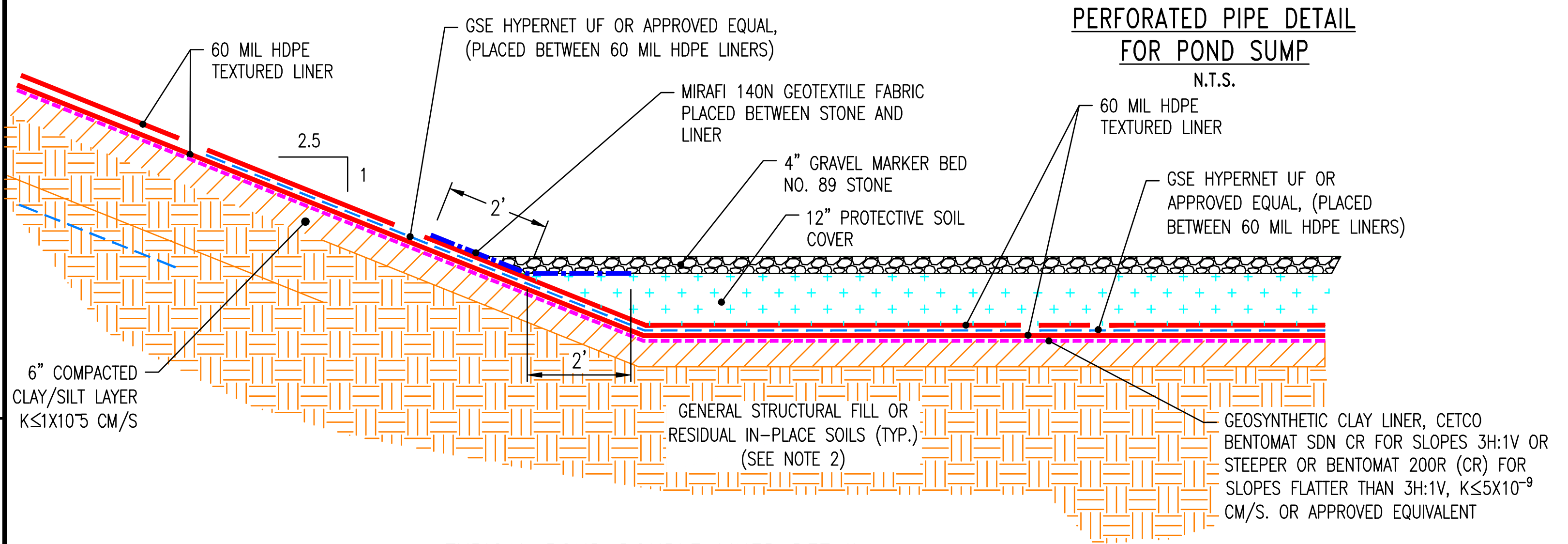
MATERIALS:
1. THE STONE COVER MATERIALS FOR THE EXPOSED HDPE GEOMEMBRANE ON THE BOTTOM OF THE PERIMETER DITCH SHALL CONSIST OF THE FOLLOWING:
    a. A SACRAFICIAL PIECE OF 60 MIL HDPE LINER SHALL BE PLACED IN THE ENTIRE DITCH SECTION FOR THE GYPSUM DISPOSAL CELLS (NOT INCLUDING CONCRETE DROP STRUCTURES).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

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

PERIMETER DITCH STONE COVER SCHEDULE

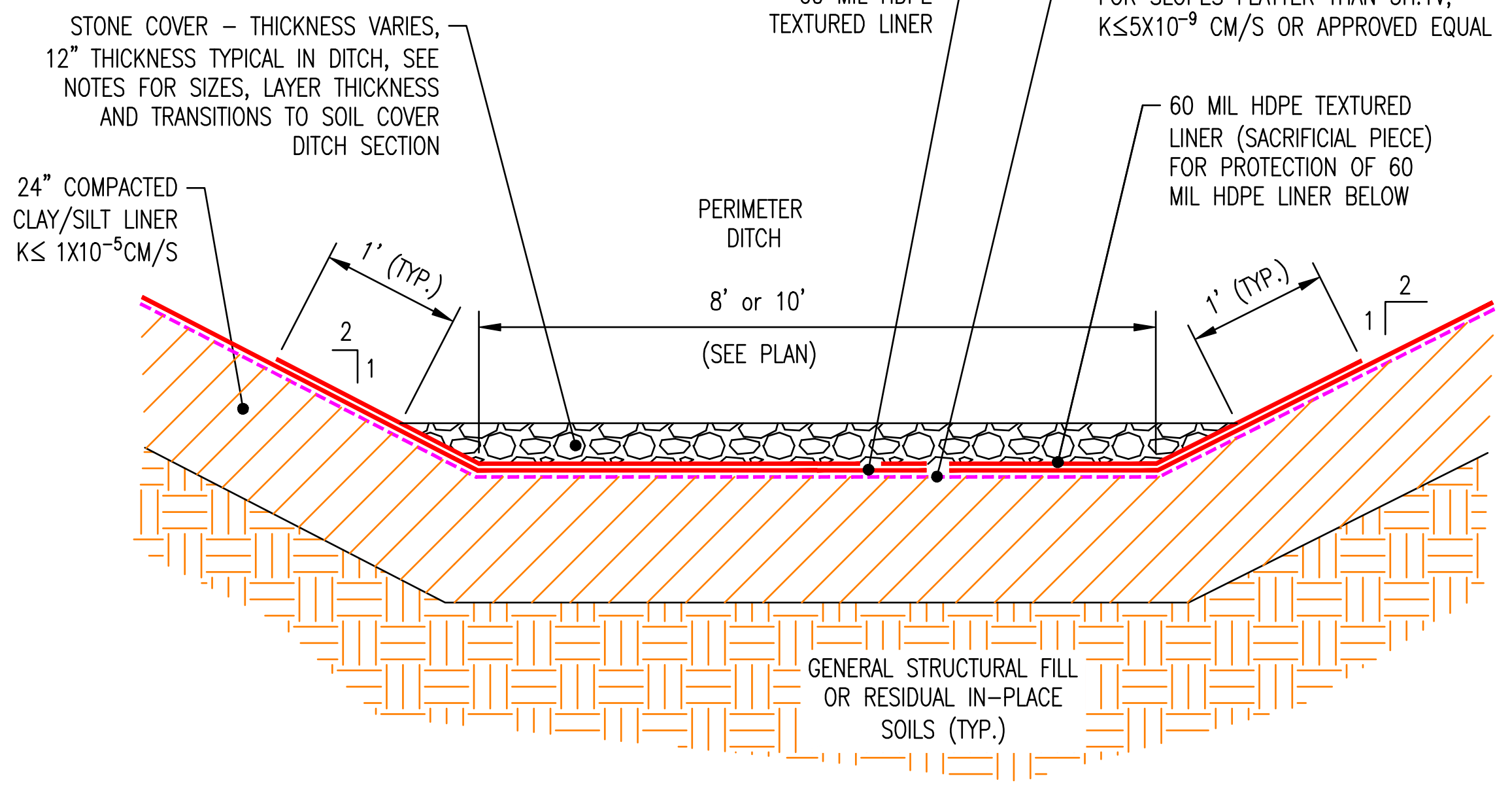
STRUCTURE	LOCATION/LENGTH* ALONG DITCH ℄	STONE SIZE (NSA)		NOTES
		BOTTOM		
CONCRETE DITCH DROP STRUCTURES DOWNSTREAM SECTION	DOWNSTREAM DITCH 25 L.F.	R-4	2'	-PLACE 2 FT. THICK LAYER DOWNSTREAM AND TERMINATE AT 1' STONE DEPTH **
CROSSOVER PIPE @ SE CORNER CELL #3	UPSTREAM DITCH 10 L.F. DOWNSTREAM DITCH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

* DISTANCES ARE MEASURED ALONG THE PERIMETER DITCH CENTERLINE FROM THE CENTERLINE OF PIPE OR PIPES
** TAPER FOR STONE THICKNESS FROM 1 FOOT TO 2 FEET THICK SHOULD OCCUR IN DISTANCE OF APPROX. 10 FEET.


60 MIL HDPE TEXTURED LINER
GSE HYPERNET UF OR APPROVED EQUAL, (PLACED BETWEEN 60 MIL HDPE LINERS)
MIRAFI 140N GEOTEXTILE FABRIC PLACED BETWEEN STONE AND LINER
4" GRAVEL MARKER BED NO. 89 STONE
12" PROTECTIVE SOIL COVER
2.5
1
2'
2'
60 MIL HDPE TEXTURED LINER
GSE HYPERNET UF OR APPROVED EQUAL, (PLACED BETWEEN 60 MIL HDPE LINERS)
6" COMPACTED CLAY/SILT LAYER K≤1X10⁻⁵ CM/S
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.) (SEE NOTE 2)
GEOSYNTHETIC CLAY LINER, CETCO BENTOMAT SDN CR FOR SLOPES 3H:1V OR STEEPER OR BENTOMAT 200R (CR) FOR SLOPES FLATTER THAN 3H:1V, K≤5X10⁻⁹ CM/S. OR APPROVED EQUIVALENT

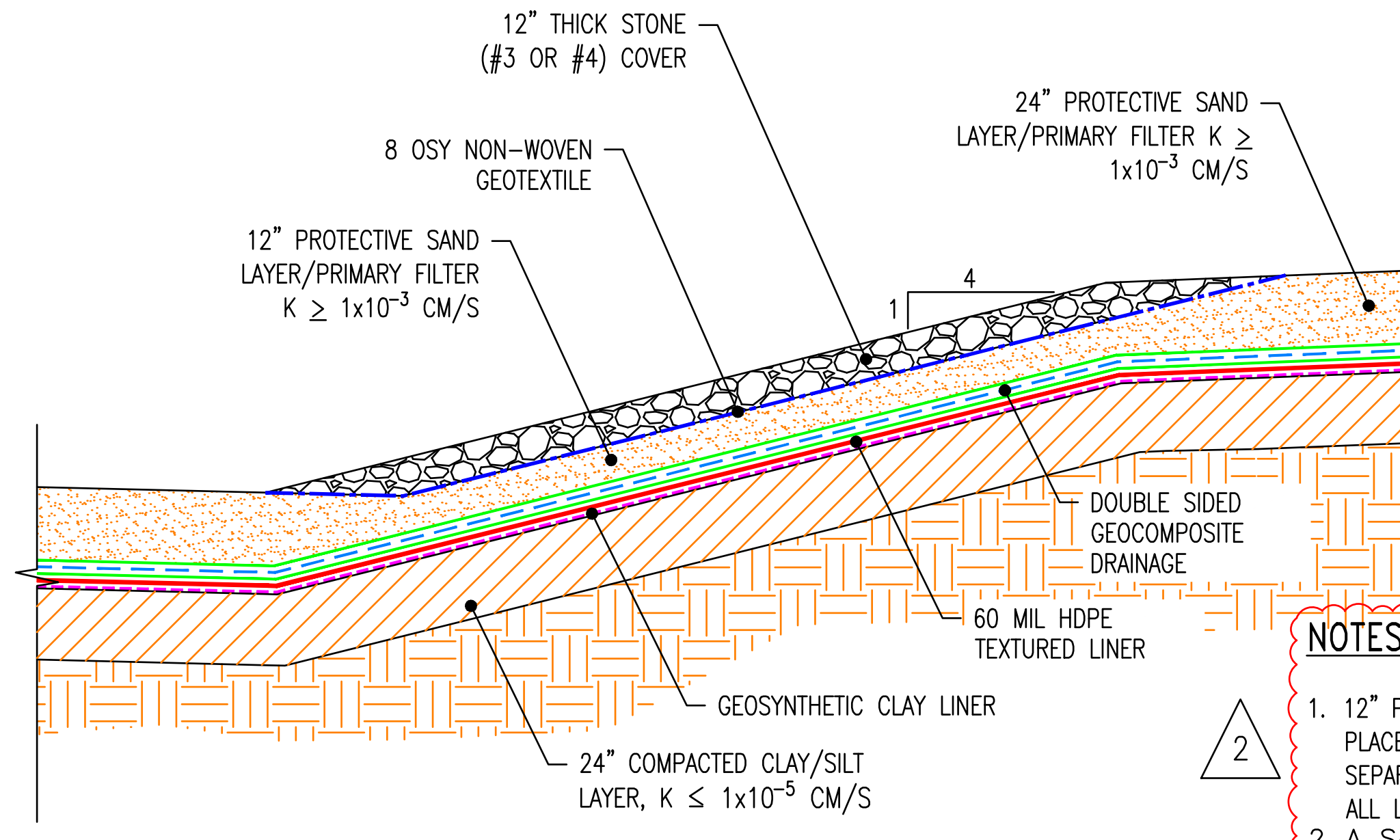
TYPICAL POND DOUBLE LINER DETAIL

N.T.S.


STONE COVER – THICKNESS VARIES, 12" THICKNESS TYPICAL IN DITCH, SEE NOTES FOR SIZES, LAYER THICKNESS AND TRANSITIONS TO SOIL COVER DITCH SECTION
24" COMPACTED CLAY/SILT LINER K≤ 1X10⁻⁵CM/S
PERIMETER DITCH
60 MIL HDPE TEXTURED LINER
LINER, CETCO BENTOMAT SDN CR FOR SLOPES 3H:1V OR STEEPER OR BENTOMAT 200 CR FOR SLOPES FLATTER THAN 3H:1V, K≤5X10⁻⁹ CM/S OR APPROVED EQUAL
60 MIL HDPE TEXTURED LINER (SACRIFICIAL PIECE) FOR PROTECTION OF 60 MIL HDPE LINER BELOW
1' (TYP.)
1' (TYP.)
8' or 10'
(SEE PLAN)
2
1
2
1
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)

TYPICAL PERIMETER DITCH COMPOSITE LINER W/STONE COVER

N.T.S.

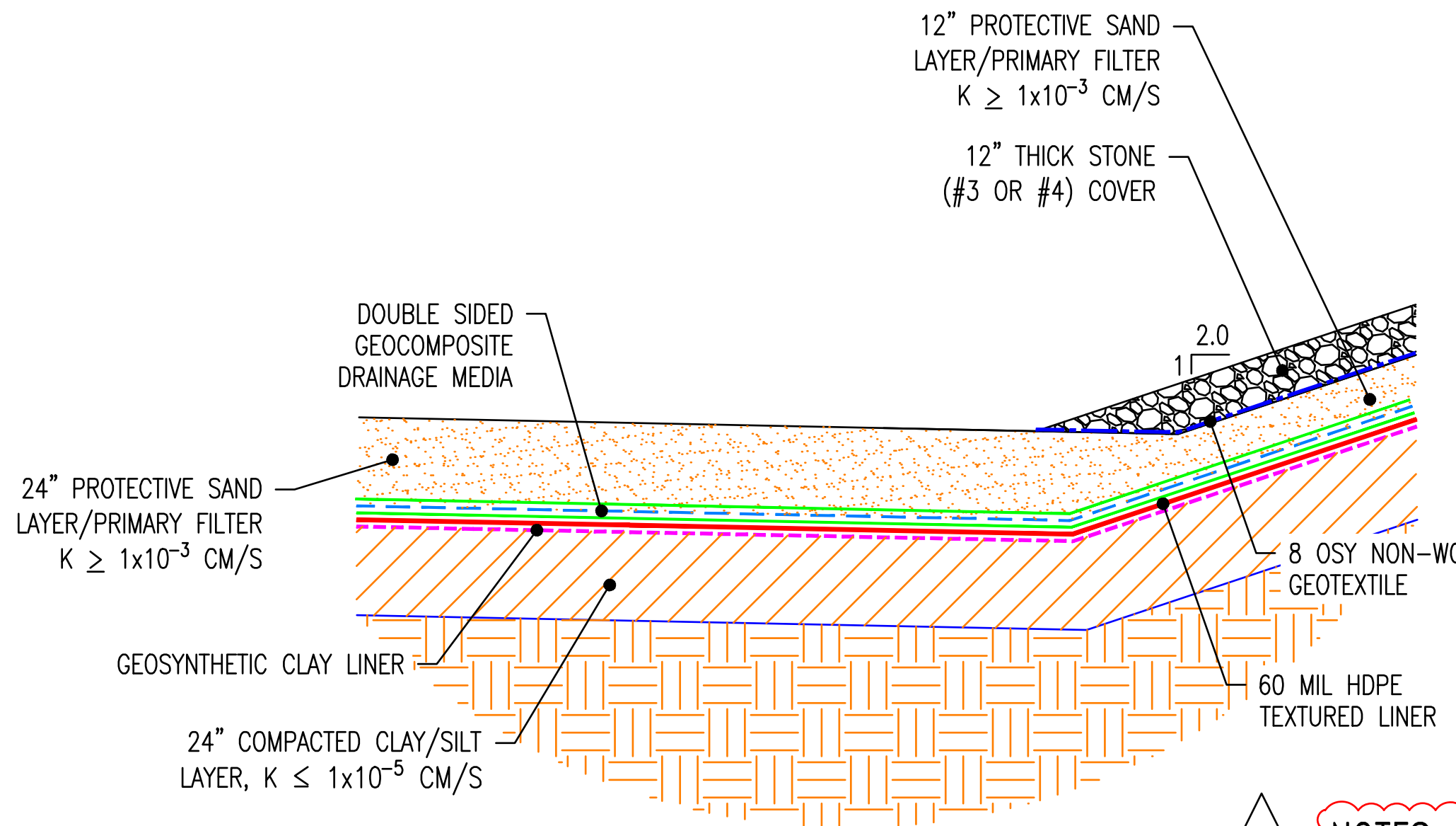

12" THICK STONE (#3 OR #4) COVER
24" PROTECTIVE SAND LAYER/PRIMARY FILTER K ≥ 1x10⁻³ CM/S
8 OSY NON-WOVEN GEOTEXTILE
12" PROTECTIVE SAND LAYER/PRIMARY FILTER K ≥ 1x10⁻³ CM/S
4
1
DOUBLE SIDED GEOCOMPOSITE DRAINAGE
60 MIL HDPE TEXTURED LINER
GEOSYNTHETIC CLAY LINER
24" COMPACTED CLAY/SILT LAYER, K ≤ 1x10⁻⁵ CM/S

2

NOTES:
1. 12" PROTECTIVE SAND LAYER/PRIMARY FILTER MATERIAL MAY BE USED IN PLACE OF THE 12" THICK STONE (#3 OR #4) COVER AND 8 OSY NON-WOVEN SEPARATION GEOTEXTILE AT THE OWNER'S DISCRETION. THIS SHALL APPLY TO ALL LOCATIONS/DETAILS WHERE THE 12" STONE (#3 OR #4) COVER IS SHOWN.
2. A SACRIFICIAL 6 OSY NON-WOVEN GEOTEXTILE MAY BE PLACED OVER THE TOP OF THE PROPOSED GEOTEXTILES FOR UV PROTECTION AS NEEDED.

TYPICAL GRADE BREAK PROTECTIVE COVER / DRAINAGE LAYER

SCALE: N.T.S.

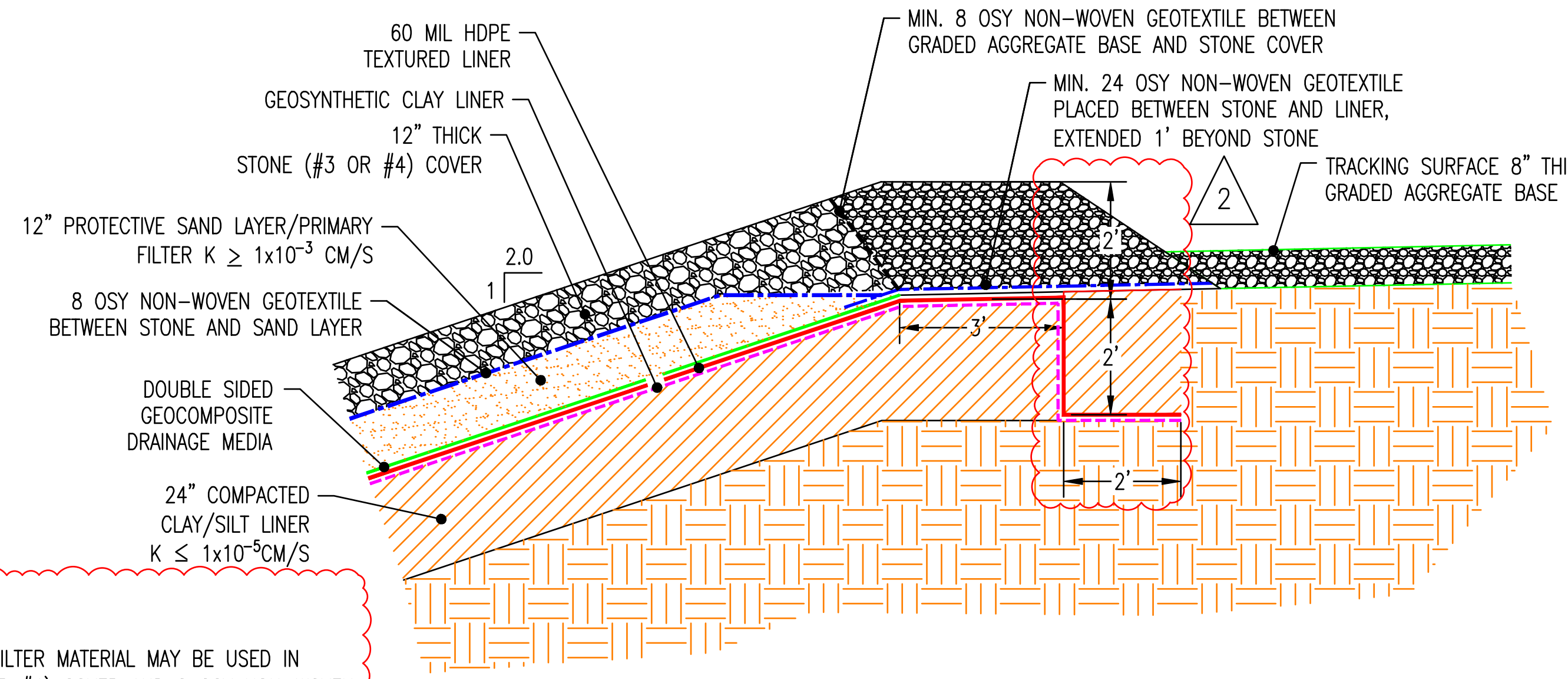

12" PROTECTIVE SAND LAYER/PRIMARY FILTER K ≥ 1x10⁻³ CM/S
12" THICK STONE (#3 OR #4) COVER
DOUBLE SIDED GEOCOMPOSITE DRAINAGE MEDIA
2.0
1
24" PROTECTIVE SAND LAYER/PRIMARY FILTER K ≥ 1x10⁻³ CM/S
8 OSY NON-WOVEN GEOTEXTILE
GEOSYNTHETIC CLAY LINER
60 MIL HDPE TEXTURED LINER
24" COMPACTED CLAY/SILT LAYER, K ≤ 1x10⁻⁵ CM/S

TYPICAL COMPOSITE LINER DETAIL

SCALE: N.T.S.

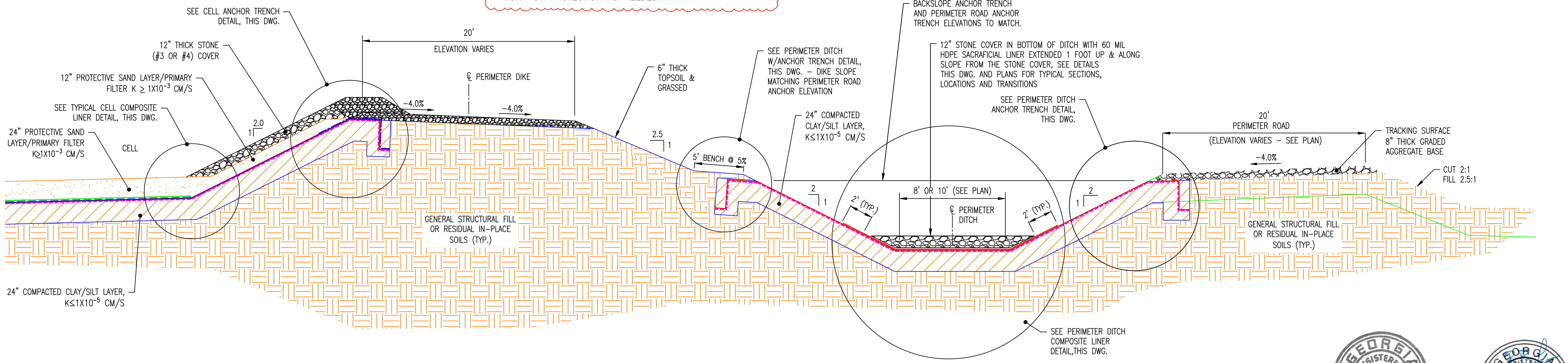
2

NOTES:
1. 12" PROTECTIVE SAND LAYER/PRIMARY FILTER MATERIAL MAY BE USED IN PLACE OF THE 12" THICK STONE (#3 OR #4) COVER AND 8 OSY NON-WOVEN SEPARATION GEOTEXTILE AT THE OWNER'S DISCRETION. THIS SHALL APPLY TO ALL LOCATIONS/DETAILS WHERE THE 12" STONE (#3 OR #4) COVER IS SHOWN.
2. A SACRIFICIAL 6 OSY NON-WOVEN GEOTEXTILE MAY BE PLACED OVER THE TOP OF THE PROPOSED GEOTEXTILES FOR UV PROTECTION AS NEEDED.


60 MIL HDPE TEXTURED LINER
GEOSYNTHETIC CLAY LINER
12" THICK STONE (#3 OR #4) COVER
12" PROTECTIVE SAND LAYER/PRIMARY FILTER K ≥ 1x10⁻³ CM/S
8 OSY NON-WOVEN GEOTEXTILE BETWEEN STONE AND SAND LAYER
DOUBLE SIDED GEOCOMPOSITE DRAINAGE MEDIA
24" COMPACTED CLAY/SILT LINER K ≤ 1x10⁻⁵CM/S
MIN. 8 OSY NON-WOVEN GEOTEXTILE BETWEEN GRADED AGGREGATE BASE AND STONE COVER
MIN. 24 OSY NON-WOVEN GEOTEXTILE PLACED BETWEEN STONE AND LINER, EXTENDED 1' BEYOND STONE
2
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
2.0
1
2'
3'
2'
2'

CELL ANCHOR TRENCH DETAIL

SCALE: N.T.S.


SEE CELL ANCHOR TRENCH DETAIL, THIS DWG.
12" THICK STONE (#3 OR #4) COVER
12" PROTECTIVE SAND LAYER/PRIMARY FILTER K ≥ 1X10⁻³ CM/S
SEE TYPICAL CELL COMPOSITE LINER DETAIL, THIS DWG.
24" PROTECTIVE SAND LAYER/PRIMARY FILTER K≥1X10⁻³ CM/S
CELL
2.0
1
20'
ELEVATION VARIES
℄ PERIMETER DIKE
-4.0%
-4.0%
6" THICK TOPSOIL & GRASSED
2.5
1
5' BENCH @ 5%
SEE PERIMETER DITCH W/ANCHOR TRENCH DETAIL, THIS DWG. – DIKE SLOPE MATCHING PERIMETER ROAD ANCHOR ELEVATION
24" COMPACTED CLAY/SILT LAYER, K≤1X10⁻⁵ CM/S
BACKSLOPE ANCHOR TRENCH AND PERIMETER ROAD ANCHOR TRENCH ELEVATIONS TO MATCH.
12" STONE COVER IN BOTTOM OF DITCH WITH 60 MIL HDPE SACRAFICIAL LINER EXTENDED 1 FOOT UP & ALONG SLOPE FROM THE STONE COVER, SEE DETAILS THIS DWG. AND PLANS FOR TYPICAL SECTIONS, LOCATIONS AND TRANSITIONS
SEE PERIMETER DITCH ANCHOR TRENCH DETAIL, THIS DWG.
2
1
2' (TYP.)
8' OR 10' (SEE PLAN)
℄ PERIMETER DITCH
2' (TYP.)
2
1
20'
PERIMETER ROAD
(ELEVATION VARIES – SEE PLAN)
-4.0%
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
CUT 2:1
FILL 2.5:1
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)
24" COMPACTED CLAY/SILT LAYER, K≤1X10⁻⁵ CM/S
SEE PERIMETER DITCH COMPOSITE LINER DETAIL,THIS DWG.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli
Digitally signed by Tammy Buchli
Date: 2025.10.27 08:45:43 -04'00'

NOTES:

1. SEE H1C11124 FOR GENERAL NOTES AND LEGEND.
2. THE SECTIONS SHOWN ON THIS DRAWING REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCHES, LEACHATE COLLECTION SYSTEM, AND SEDIMENT BASIN. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REFERENCES:

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

No. 12687
GARY H. McWHORTER
Gary H McWhorter 10/21/25

NO. 27185
R. BRANT LANE
10/21/25

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Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE								
REVISION	DATE								
REVISION	DATE								
REVISION	DATE								
REVISION 2	10-21-2025	REVISION TO ANCHOR TRENCH AND ALLOW FOR A FULL 24" THICK PROTECTIVE SAND LAYER/PRIMARY FILTER IN LIEU OF STONE AND GEOTEXTILE ON SIDE SLOPES [BY HHNT, INC.]	RSW	RBL					
REVISION 1	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM [BY HHNT, INC.]	RSW	RBL					
REVISION 0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	**H1C11144**	1	FINAL	2

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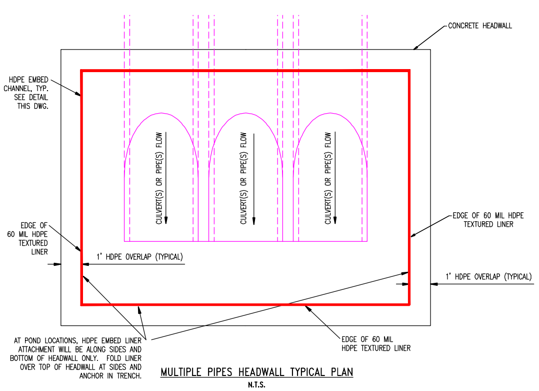
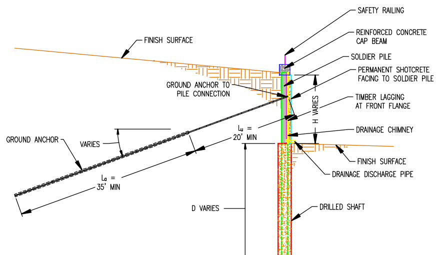

CONCRETE HEADWALL
HDPE EMBED CHANNEL, TYP. SEE DETAIL THIS DWG.
CULVERT(S) OR PIPE(S) FLOW
CULVERT(S) OR PIPE(S) FLOW
CULVERT(S) OR PIPE(S) FLOW
EDGE OF 60 MIL HDPE TEXTURED LINER
EDGE OF 60 MIL HDPE TEXTURED LINER
1' HDPE OVERLAP (TYPICAL)
1' HDPE OVERLAP (TYPICAL)
AT POND LOCATIONS, HDPE EMBED LINER ATTACHMENT WILL BE ALONG SIDES AND BOTTOM OF HEADWALL ONLY. FOLD LINER OVER TOP OF HEADWALL AT SIDES AND ANCHOR IN TRENCH.
EDGE OF 60 MIL HDPE TEXTURED LINER

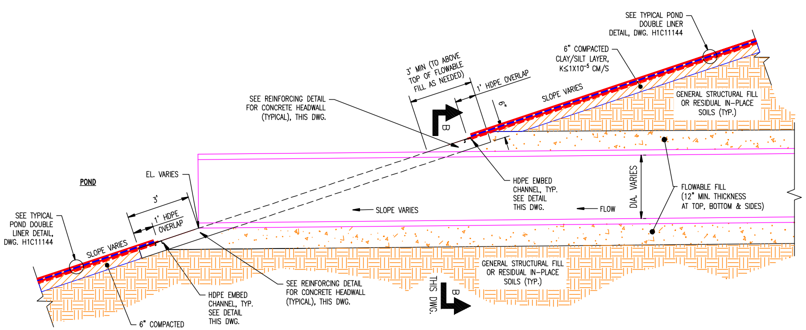
MULTIPLE PIPES HEADWALL TYPICAL PLAN
N.T.S.


SAFETY RAILING
FINISH SURFACE
REINFORCED CONCRETE CAP BEAM
SOLDIER PILE
PERMANENT SHOTCRETE FACING TO SOLDIER PILE
GROUND ANCHOR TO PILE CONNECTION
TIMBER LAGGING AT FRONT FLANGE
H VARIES
GROUND ANCHOR
VARIES
Lu = 20' MIN
DRAINAGE CHIMNEY
FINISH SURFACE
DRAINAGE DISCHARGE PIPE
La = 35' MIN
D VARIES
DRILLED SHAFT
SHAFT DIA. VARIES

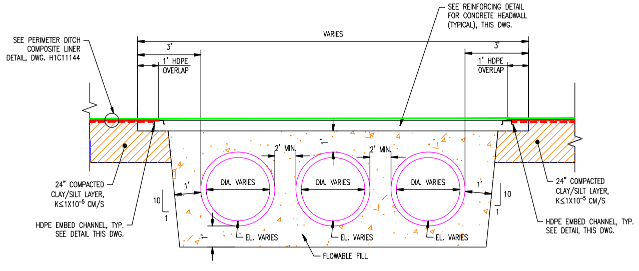
NOTES:

1. THE RETAINING WALL SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA. SEALED DESIGN CALCULATIONS DETERMINING THE HEIGHT, LENGTH, WIDTH, AND DEPTH INTO SOIL SHALL BE PROVIDED FOR INFORMATION PURPOSES UPON COMPLETION OF DESIGN.

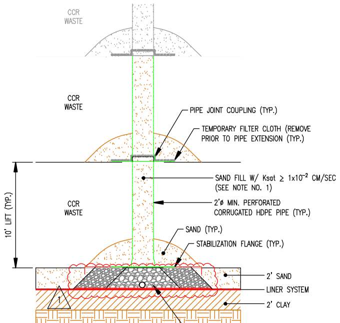
1 RETAINING WALL DETAIL
N.T.S.


SEE TYPICAL POND DOUBLE LINER DETAIL, DWG. H1C11144
6" COMPACTED CLAY/SILT LAYER, K≤1X10^{-5} CM/S
3' MIN (TO ABOVE TOP OF FLOWABLE FILL AS NEEDED)
1' HDPE OVERLAP
SEE REINFORCING DETAIL FOR CONCRETE HEADWALL (TYPICAL), THIS DWG.
B
6"
SLOPE VARIES
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)
POND
EL. VARIES
3'
1' HDPE OVERLAP
HDPE EMBED CHANNEL, TYP. SEE DETAIL THIS DWG.
DIA. VARIES
FLOWABLE FILL (12" MIN. THICKNESS AT TOP, BOTTOM & SIDES)
SEE TYPICAL POND DOUBLE LINER DETAIL, DWG. H1C11144
SLOPE VARIES
FLOW
SLOPE VARIES
HDPE EMBED CHANNEL, TYP. SEE DETAIL THIS DWG.
SEE REINFORCING DETAIL FOR CONCRETE HEADWALL (TYPICAL), THIS DWG.
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)
THIS DWG.
B
6" COMPACTED CLAY/SILT LAYER, K≤1X10^{-5} CM/S

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


SEE REINFORCING DETAIL FOR CONCRETE HEADWALL (TYPICAL), THIS DWG.
SEE PERIMETER DITCH COMPOSITE LINER DETAIL, DWG. H1C11144
VARIES
3'
1' HDPE OVERLAP
3'
1' HDPE OVERLAP
2' MIN.
2' MIN.
DIA. VARIES
DIA. VARIES
DIA. VARIES
24" COMPACTED CLAY/SILT LAYER, K≤1X10^{-5} CM/S
24" COMPACTED CLAY/SILT LAYER, K≤1X10^{-5} CM/S
10
1
1'
1'
10
1
HDPE EMBED CHANNEL, TYP. SEE DETAIL THIS DWG.
HDPE EMBED CHANNEL, TYP. SEE DETAIL THIS DWG.
EL. VARIES
EL. VARIES
EL. VARIES
FLOWABLE FILL

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

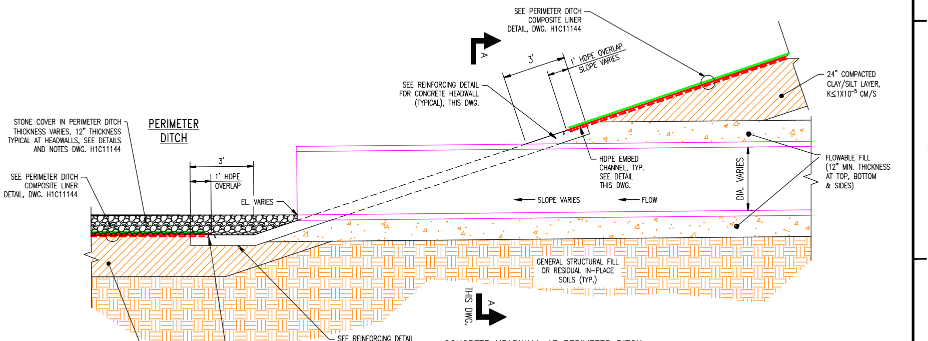

CCR WASTE
CCR WASTE
PIPE JOINT COUPLING (TYP.)
TEMPORARY FILTER CLOTH (REMOVE PRIOR TO PIPE EXTENSION (TYP.)
SAND FILL W/ Ksat ≥ 1x10^{-2} CM/SEC (SEE NOTE NO. 1)
10' LIFT (TYP.)
CCR WASTE
2'ø MIN. PERFORATED CORRUGATED HDPE PIPE (TYP.)
SAND (TYP.)
STABILIZATION FLANGE (TYP.)
2' SAND
LINER SYSTEM
2' CLAY
1
LEACHATE COLLECTION AND REMOVAL SYSTEM

NOTES:

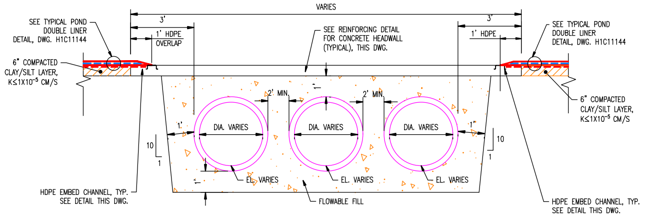
1. SAND WITHIN CHIMNEY DRAIN PIPES MAY BE PURCHASED SAND AND/OR PROCESSED CCR COARSE MATERIAL PROVIDED THAT MATERIAL IS FILTER COMPATIBLE WITH THE SITE CCR MATERIALS AND PROVIDES A PERMEABILITY EQUAL TO OR GREATER THAN THE SPECIFIED PURCHASED SAND MATERIAL.

2. CHIMNEY DRAINS MAY BE INSTALLED FOR CONVENTIONAL CCR WASTE PLACEMENT AT THE OWNER'S DISCRETION. IN THE EVENT CHIMNEY DRAINS ARE INSTALLED TO PRECLUDE HIGH PORE PRESSURES, AN AS-BUILT SURVEY OF THE CHIMNEY DRAIN LOCATIONS WILL BE PROVIDED TO GEORGIA EPD.

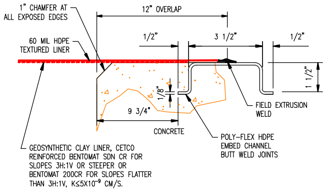
1 CHIMNEY DRAIN DETAIL
N.T.S.


SEE PERIMETER DITCH COMPOSITE LINER DETAIL, DWG. H1C11144
A
3'
1' HDPE OVERLAP
SLOPE VARIES
24" COMPACTED CLAY/SILT LAYER, K≤1X10^{-5} CM/S
SEE REINFORCING DETAIL FOR CONCRETE HEADWALL (TYPICAL), THIS DWG.
STONE COVER IN PERIMETER DITCH THICKNESS VARIES, 12" THICKNESS TYPICAL AT HEADWALLS, SEE DETAILS AND NOTES DWG. H1C11144
PERIMETER DITCH
SEE PERIMETER DITCH COMPOSITE LINER DETAIL, DWG. H1C11144
3'
1' HDPE OVERLAP
EL. VARIES
HDPE EMBED CHANNEL, TYP. SEE DETAIL THIS DWG.
DIA. VARIES
FLOWABLE FILL (12" MIN. THICKNESS AT TOP, BOTTOM & SIDES)
SLOPE VARIES
FLOW
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)
THIS DWG.
A
24" COMPACTED CLAY/SILT LAYER, K≤1X10^{-5} CM/S
HDPE EMBED CHANNEL, TYP. SEE DETAIL THIS DWG.
SEE REINFORCING DETAIL FOR CONCRETE HEADWALL (TYPICAL), THIS DWG.

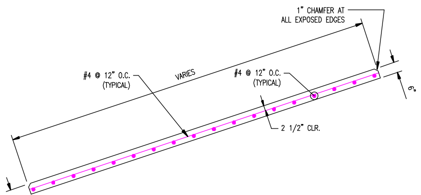
CONCRETE HEADWALL AT PERIMETER DITCH
TYPICAL SECTION
N.T.S.


SEE TYPICAL POND DOUBLE LINER DETAIL, DWG. H1C11144
VARIES
3'
1' HDPE OVERLAP
SEE REINFORCING DETAIL FOR CONCRETE HEADWALL (TYPICAL), THIS DWG.
3'
1' HDPE
SEE TYPICAL POND DOUBLE LINER DETAIL, DWG. H1C11144
6" COMPACTED CLAY/SILT LAYER, K≤1X10^{-5} CM/S
2' MIN.
2' MIN.
DIA. VARIES
DIA. VARIES
DIA. VARIES
6" COMPACTED CLAY/SILT LAYER, K≤1X10^{-5} CM/S
1'
1'
10
1
10
1
EL. VARIES
EL. VARIES
EL. VARIES
HDPE EMBED CHANNEL, TYP. SEE DETAIL THIS DWG.
FLOWABLE FILL
HDPE EMBED CHANNEL, TYP. SEE DETAIL THIS DWG.

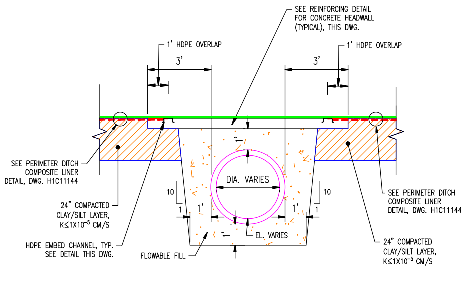
SECTION B–B
TYPICAL MULTIPLE PIPE SECTION AT PONDS
N.T.S.


1" CHAMFER AT ALL EXPOSED EDGES
12" OVERLAP
60 MIL HDPE TEXTURED LINER
1/2"
3 1/2"
1/2"
1 1/2"
1/8"
9 3/4"
FIELD EXTRUSION WELD
CONCRETE
POLY–FLEX HDPE EMBED CHANNEL BUTT WELD JOINTS
GEOSYNTHETIC CLAY LINER, CETCO REINFORCED BENTOMAT SDN CR FOR SLOPES 3H:1V OR STEEPER OR BENTOMAT 200CR FOR SLOPES FLATTER THAN 3H:1V, K≤5X10^{-9} CM/S.

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


1" CHAMFER AT ALL EXPOSED EDGES
#4 @ 12" O.C. (TYPICAL)
VARIES
#4 @ 12" O.C. (TYPICAL)
6"
2 1/2" CLR.
6"

REINFORCING DETAIL FOR CONCRETE HEADWALL
N.T.S.


SEE REINFORCING DETAIL FOR CONCRETE HEADWALL (TYPICAL), THIS DWG.
1' HDPE OVERLAP
1' HDPE OVERLAP
3'
3'
SEE PERIMETER DITCH COMPOSITE LINER DETAIL, DWG. H1C11144
DIA. VARIES
10
1
1'
1'
10
1
SEE PERIMETER DITCH COMPOSITE LINER DETAIL, DWG. H1C11144
24" COMPACTED CLAY/SILT LAYER, K≤1X10^{-5} CM/S
EL. VARIES
24" COMPACTED CLAY/SILT LAYER, K≤1X10^{-5} CM/S
HDPE EMBED CHANNEL, TYP. SEE DETAIL THIS DWG.
FLOWABLE FILL

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

LINER NOTE:

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

REFERENCES:

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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli

R. BRANT LANE No. 27185 10/18/24

GARY H. McWHORTER No. 12687 10/18/24

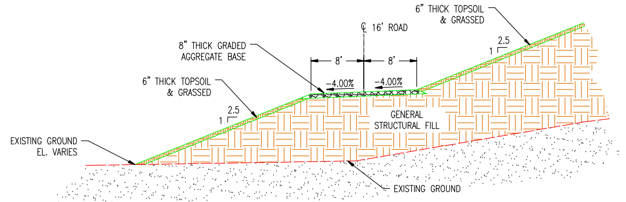
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
1	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM [BY HHNT, INC.]	RSW	RBL					
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	H1C11145	1	FINAL	1

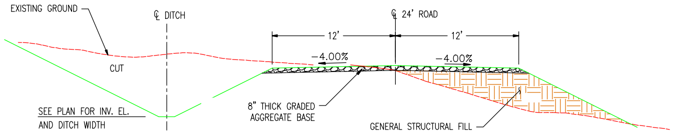
Acad2008 ANSI F: 40x28


6" THICK TOPSOIL & GRASSED
℄ 16' ROAD
8" THICK GRADED AGGREGATE BASE
8'
8'
2.5
1
-4.00%
-4.00%
6" THICK TOPSOIL & GRASSED
2.5
1
GENERAL STRUCTURAL FILL
EXISTING GROUND EL. VARIES
EXISTING GROUND

PUMP ACCESS ROAD TYPICAL SECTION

NOT TO SCALE

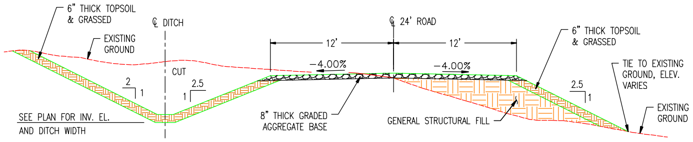
(H1C11125, H1C11126, H1C11131, H1C11132, & H1C11133)


EXISTING GROUND
℄ DITCH
℄ 24' ROAD
CUT
12'
12'
-4.00%
-4.00%
SEE PLAN FOR INV. EL. AND DITCH WIDTH
8" THICK GRADED AGGREGATE BASE
GENERAL STRUCTURAL FILL

ACCESS ROAD TYPICAL SECTION

NOT TO SCALE

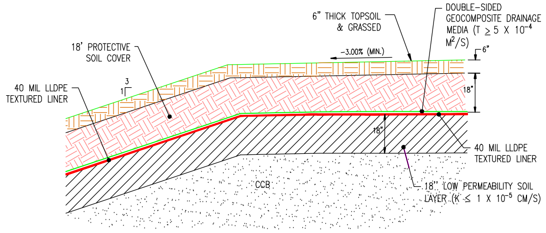
(H1C11125, H1C11126, H1C11131, H1C11132, & H1C11133)


6" THICK TOPSOIL & GRASSED
EXISTING GROUND
℄ DITCH
℄ 24' ROAD
12'
12'
-4.00%
-4.00%
6" THICK TOPSOIL & GRASSED
TIE TO EXISTING GROUND, ELEV. VARIES
CUT
2
1
1
2.5
2.5
1
EXISTING GROUND
SEE PLAN FOR INV. EL. AND DITCH WIDTH
8" THICK GRADED AGGREGATE BASE
GENERAL STRUCTURAL FILL

ENTRANCE ROAD TYPICAL SECTION

NOT TO SCALE

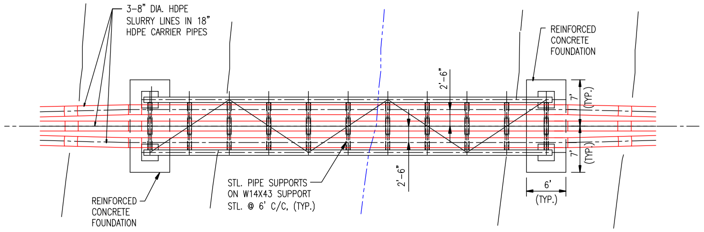
(H1C11125, H1C11126, H1C11131, H1C11132, & H1C11133)


6" THICK TOPSOIL & GRASSED
DOUBLE-SIDED GEOCOMPOSITE DRAINAGE MEDIA (T ≥ 5 X 10⁻⁴ M²/S)
18' PROTECTIVE SOIL COVER
-3.00% (MIN.)
6"
40 MIL LLDPE TEXTURED LINER
3
1
18"
18"
40 MIL LLDPE TEXTURED LINER
CCB
18" LOW PERMEABILITY SOIL LAYER (K ≤ 1 X 10⁻⁵ CM/S)

FINAL COVER DETAIL

NOT TO SCALE

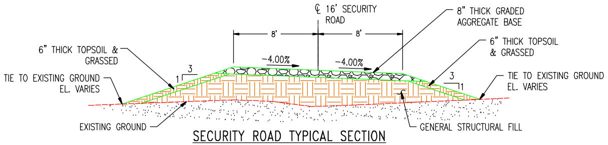
(H1C11130, H1C11132, & H1C11134)


3-8" DIA. HDPE SLURRY LINES IN 18" HDPE CARRIER PIPES
REINFORCED CONCRETE FOUNDATION
2'-6"
7' (TYP.)
7' (TYP.)
2'-6"
6' (TYP.)
STL. PIPE SUPPORTS ON W14X43 SUPPORT STL. @ 6' C/C, (TYP.)
REINFORCED CONCRETE FOUNDATION

GYPSUM SLURRY STREAM CROSSINGS #1 & #2 – PLAN

NOT TO SCALE

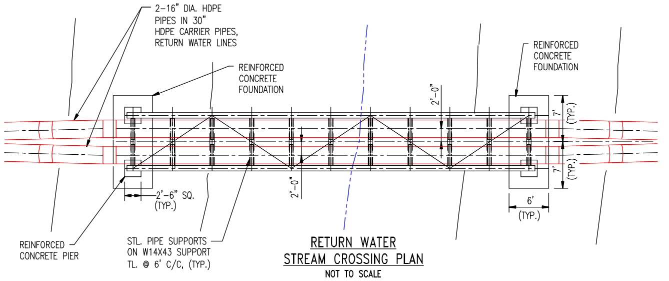
(H1C11124 & H1C11126)


℄ 16' SECURITY ROAD
8" THICK GRADED AGGREGATE BASE
6" THICK TOPSOIL & GRASSED
8'
8'
6" THICK TOPSOIL & GRASSED
-4.00%
-4.00%
TIE TO EXISTING GROUND EL. VARIES
3
1
3
1
TIE TO EXISTING GROUND EL. VARIES
EXISTING GROUND
GENERAL STRUCTURAL FILL

SECURITY ROAD TYPICAL SECTION

NOT TO SCALE

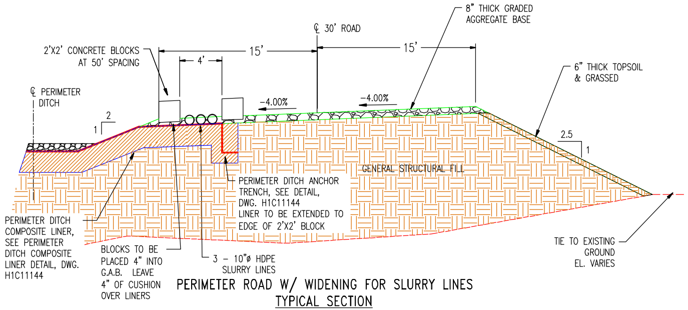
(H1C11125, H1C11126, H1C11127, & H1C11128)


2-16" DIA. HDPE PIPES IN 30" HDPE CARRIER PIPES, RETURN WATER LINES
REINFORCED CONCRETE FOUNDATION
REINFORCED CONCRETE FOUNDATION
2'-0"
7' (TYP.)
7' (TYP.)
2'-0"
2'-6" SQ. (TYP.)
6' (TYP.)
REINFORCED CONCRETE PIER
STL. PIPE SUPPORTS ON W14X43 SUPPORT TL. @ 6' C/C, (TYP.)

RETURN WATER STREAM CROSSING PLAN

NOT TO SCALE

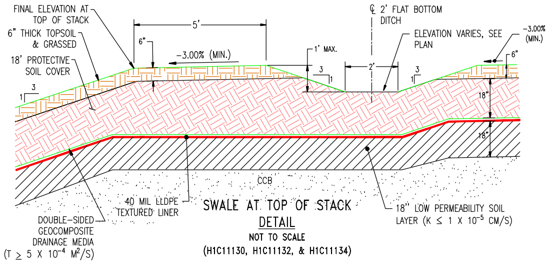
(H1C11124 & H1C11125)


8" THICK GRADED AGGREGATE BASE
℄ 30' ROAD
2'X2' CONCRETE BLOCKS AT 50' SPACING
15'
15'
4'
6" THICK TOPSOIL & GRASSED
℄ PERIMETER DITCH
-4.00%
-4.00%
2
1
2.5
1
GENERAL STRUCTURAL FILL
PERIMETER DITCH ANCHOR TRENCH, SEE DETAIL, DWG. H1C11144 LINER TO BE EXTENDED TO EDGE OF 2'X2' BLOCK
PERIMETER DITCH COMPOSITE LINER, SEE PERIMETER DITCH COMPOSITE LINER DETAIL, DWG. H1C11144
BLOCKS TO BE PLACED 4" INTO G.A.B. LEAVE 4" OF CUSHION OVER LINERS
3 – 10"ø HDPE SLURRY LINES
TIE TO EXISTING GROUND EL. VARIES

PERIMETER ROAD W/ WIDENING FOR SLURRY LINES TYPICAL SECTION

NOT TO SCALE

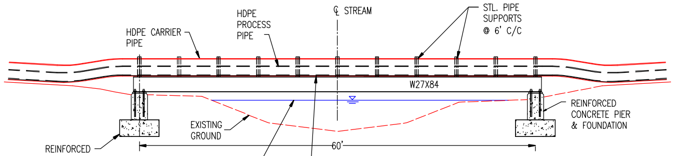
(H1C11125, H1C11126, H1C11131, H1C11132 & H1C11133)


FINAL ELEVATION AT TOP OF STACK
6" THICK TOPSOIL & GRASSED
18' PROTECTIVE SOIL COVER
5'
6"
-3.00% (MIN.)
℄ 2' FLAT BOTTOM DITCH
1' MAX.
ELEVATION VARIES, SEE PLAN
-3.00% (MIN.)
6"
2'
3
1
3
1
3
1
18"
18"
CCB
40 MIL LLDPE TEXTURED LINER
DOUBLE-SIDED GEOCOMPOSITE DRAINAGE MEDIA (T ≥ 5 X 10⁻⁴ M²/S)
18" LOW PERMEABILITY SOIL LAYER (K ≤ 1 X 10⁻⁵ CM/S)

SWALE AT TOP OF STACK DETAIL

NOT TO SCALE

(H1C11130, H1C11132, & H1C11134)


℄ STREAM
STL. PIPE SUPPORTS @ 6' C/C
HDPE PROCESS PIPE
HDPE CARRIER PIPE
W27X84
REINFORCED CONCRETE PIER & FOUNDATION
EXISTING GROUND
REINFORCED CONCRETE PIER & FOUNDATION
60'

CROSSING #1
100 YR. STORM
STREAM EL 700.8
CROSSING #2
100 YR. STORM
STREAM EL. 700.4
CROSSING #3
100 YR. STORM
STREAM EL 687.4

CROSSING #1
SLURRY LINES, 3-8" HDPE PIPES
W/18" HDPE CARRIER PIPES,
TOP STL/BOT. PIPES @ EL 709.46
CROSSING #2
SLURRY LINES, 3-8" HDPE PIPES
W/18" HDPE CARRIER PIPES,
TOP STL/BOT. PIPES @ EL 704.46

CROSSING #3
RETURN WATER LINES,
2-16" HDPE PIPES W/30" HDPE CARRIER
PIPES, TOP STL/BOT.
PIPES @ EL 690.96

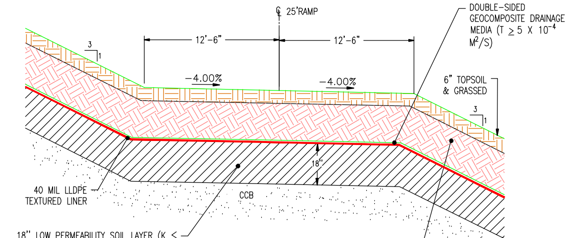
SECTION

NOT TO SCALE

PROCESS PIPING STREAM CROSSING DETAILS

NOT TO SCALE

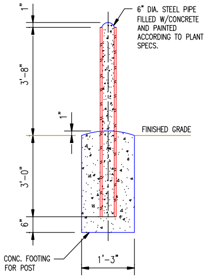
(H1C11124, H1C11125, & H1C11126)


℄ 25'RAMP
DOUBLE-SIDED GEOCOMPOSITE DRAINAGE MEDIA (T ≥ 5 X 10⁻⁴ M²/S)
3
1
12'-6"
12'-6"
-4.00%
-4.00%
6" TOPSOIL & GRASSED
3
1
18"
CCB
40 MIL LLDPE TEXTURED LINER
18" LOW PERMEABILITY SOIL LAYER (K ≤ 1 X 10⁻⁵ CM/S)
18" PROTECTIVE SOIL COVER

RAMP TYPICAL SECTION

NOT TO SCALE

(H1C11130, H1C11132, & H1C11134)


1"
6" DIA. STEEL PIPE FILLED W/CONCRETE AND PAINTED ACCORDING TO PLANT SPECS.
3'-8"
1"
FINISHED GRADE
3'-0"
6"
CONC. FOOTING FOR POST
1'-3"

BOLLARD DETAIL

NOT TO SCALE

REFERENCES:

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

GEORGIA
Department of Natural Resources
Environmental Protection Division
Approved
Solid Waste Management Program
Approved By: Keith Stevens
Digitally signed by Keith Stevens
Date: 2022.10.25 08:59:48 -04'00'

NO. 27185
R. BRANT LANE
9/27/22

GARY H. McWHORTER
9/23/22

REVISION	DATE

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

REVISION	DATE

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

REVISION	DATE

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

REVISION	DATE

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REVISION	DATE

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

REVISION	DATE

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

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

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

Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

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

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

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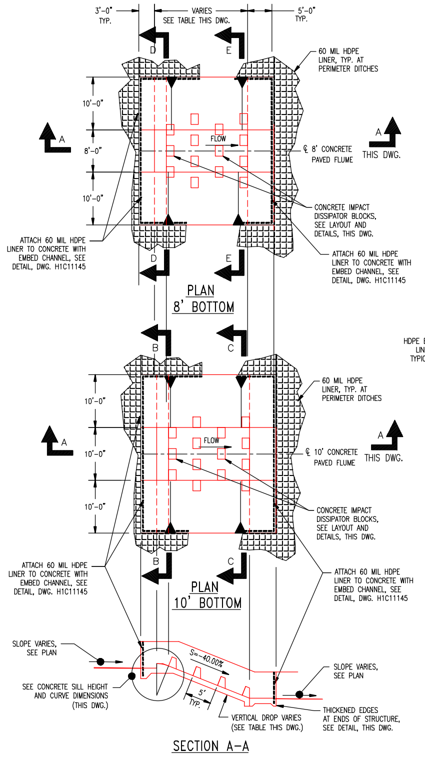
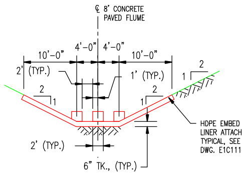
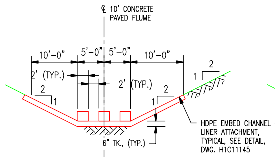

3'-0" TYP.
VARIES SEE TABLE THIS DWG.
5'-0" TYP.
60 MIL HDPE LINER, TYP. AT PERIMETER DITCHES
§ 8' CONCRETE PAVED FLUME
FLOW
THIS DWG.
CONCRETE IMPACT DISSIPATOR BLOCKS, SEE LAYOUT AND DETAILS, THIS DWG.
ATTACH 60 MIL HDPE LINER TO CONCRETE WITH EMBED CHANNEL, SEE DETAIL, DWG. H1C11145
PLAN
8' BOTTOM
§ 10' CONCRETE PAVED FLUME
PLAN
10' BOTTOM
SLOPE VARIES, SEE PLAN
SEE CONCRETE SILL HEIGHT AND CURVE DIMENSIONS (THIS DWG.)
S=-40.00%
VERTICAL DROP VARIES (SEE TABLE THIS DWG.)
THICKENED EDGES AT ENDS OF STRUCTURE, SEE DETAIL, THIS DWG.
SECTION A-A

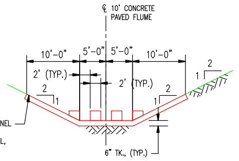
CONCRETE DITCH DROP STRUCTURES
8' AND 10' BOTTOM
(SEE PLANS FOR LOCATIONS)
N.T.S.


§ 8' CONCRETE PAVED FLUME
10'-0" 4'-0" 4'-0" 10'-0"
2' (TYP.)
1' (TYP.)
6" TK., (TYP.)
HDPE EMBED CHANNEL LINER ATTACHMENT, TYPICAL, SEE DETAIL, DWG. E1C11148

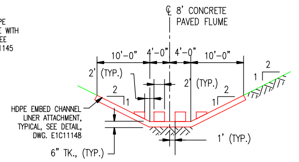
SECTION D-D


§ 10' CONCRETE PAVED FLUME
10'-0" 5'-0" 5'-0" 10'-0"
2' (TYP.)
6" TK., (TYP.)
HDPE EMBED CHANNEL LINER ATTACHMENT, TYPICAL, SEE DETAIL, DWG. H1C11145

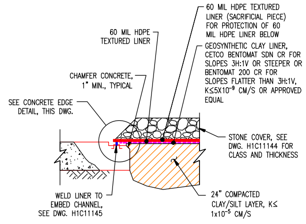
SECTION B-B


§ 10' CONCRETE PAVED FLUME
10'-0" 5'-0" 5'-0" 10'-0"
2' (TYP.)
6" TK., (TYP.)

SECTION C-C


§ 8' CONCRETE PAVED FLUME
10'-0" 4'-0" 4'-0" 10'-0"
2' (TYP.)
1' (TYP.)
HDPE EMBED CHANNEL LINER ATTACHMENT, TYPICAL, SEE DETAIL, DWG. E1C11148
6" TK., (TYP.)

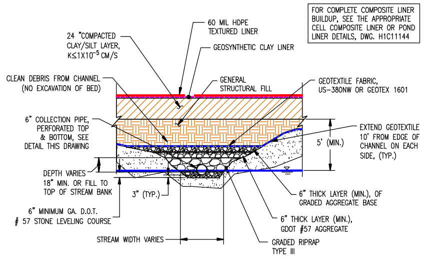
SECTION E-E


60 MIL HDPE TEXTURED LINER (SACRIFICIAL PIECE) FOR PROTECTION OF 60 MIL HDPE LINER BELOW
60 MIL HDPE TEXTURED LINER
GEOSYNTHETIC CLAY LINER, CETCO BENTOMAT SDN CR FOR SLOPES 3H:1V OR STEEPER OR BENTOMAT 200 CR FOR SLOPES FLATTER THAN 3H:1V, K≤5X10⁻⁹ CM/S OR APPROVED EQUAL
CHAMFER CONCRETE, 1" MIN., TYPICAL
SEE CONCRETE EDGE DETAIL, THIS DWG.
STONE COVER, SEE DWG. H1C11144 FOR CLASS AND THICKNESS
WELD LINER TO EMBED CHANNEL, SEE DWG. H1C11145
24" COMPACTED CLAY/SILT LAYER, K≤ 1x10⁻⁵ CM/S

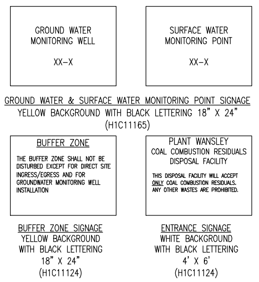
LINER ATTACHMENT
AT CONCRETE EDGES

DROP STRUCTURE TABLE

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


FOR COMPLETE COMPOSITE LINER BUILDUP, SEE THE APPROPRIATE CELL COMPOSITE LINER OR POND LINER DETAILS, DWG. H1C11144
60 MIL HDPE TEXTURED LINER
GEOSYNTHETIC CLAY LINER
24" COMPACTED CLAY/SILT LAYER, K≤1X10⁻⁵ CM/S
CLEAN DEBRIS FROM CHANNEL (NO EXCAVATION OF BED)
GENERAL STRUCTURAL FILL
GEOTEXTILE FABRIC, US-380NW OR GEOTEX 1601
6" COLLECTION PIPE, PERFORATED TOP & BOTTOM, SEE DETAIL THIS DRAWING
EXTEND GEOTEXTILE 10' FROM EDGE OF CHANNEL ON EACH SIDE, (TYP.)
5' (MIN.)
DEPTH VARIES 18" MIN. OR FILL TO TOP OF STREAM BANK
3" (TYP.)
6" MINIMUM GA. D.O.T. # 57 STONE LEVELING COURSE
6" THICK LAYER (MIN.), OF GRADED AGGREGATE BASE
6" THICK LAYER (MIN.), GDOT #57 AGGREGATE
STREAM WIDTH VARIES
GRADED RIPRAP TYPE III

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


GROUND WATER
MONITORING WELL
XX-X

SURFACE WATER
MONITORING POINT
XX-X

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

BUFFER ZONE
THE BUFFER ZONE SHALL NOT BE DISTURBED EXCEPT FOR DIRECT SITE INGRESS/EGRESS AND FOR GROUNDWATER MONITORING WELL INSTALLATION

PLANT WANSLEY
COAL COMBUSTION RESIDUALS
DISPOSAL FACILITY
THIS DISPOSAL FACILITY WILL ACCEPT ONLY COAL COMBUSTION RESIDUALS. ANY OTHER WASTES ARE PROHIBITED.

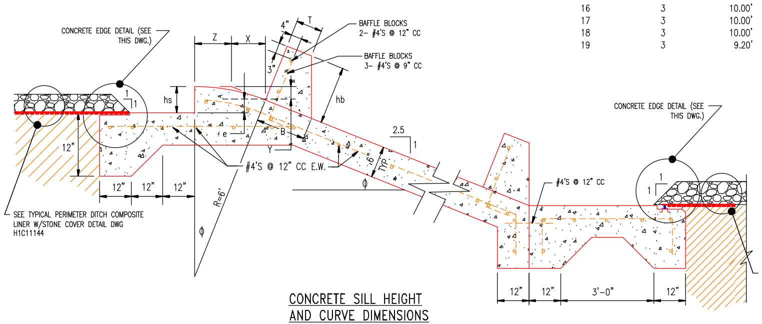
BUFFER ZONE SIGNAGE
YELLOW BACKGROUND
WITH BLACK LETTERING
18" X 24"
(H1C11124)

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

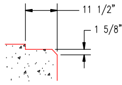
SIGNAGE
N.T.S.
H1C11124

B = 1'-6 ⅔"
e = 4 ⅞"
hs = 10"
hb = 1'-10"
X = 1'-0 ⅞"
Y = 5 5/32"
Z = 1'-1 ⅞"
T = 10"
θ = 21°48'05"

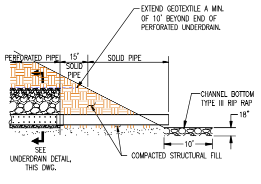
DIMENSION TABLE


CONCRETE EDGE DETAIL (SEE THIS DWG.)
BAFFLE BLOCKS 2- #4'S @ 12" CC
BAFFLE BLOCKS 3- #4'S @ 9" CC
Z
X
T
hs
hb
e
B
Y
12"
#4'S @ 12" CC E.W.
2.5
1
R=6'
SEE TYPICAL PERIMETER DITCH COMPOSITE LINER W/STONE COVER DETAIL DWG H1C11144
CONCRETE EDGE DETAIL (SEE THIS DWG.)
#4'S @ 12" CC
12" 12" 3'-0" 12"

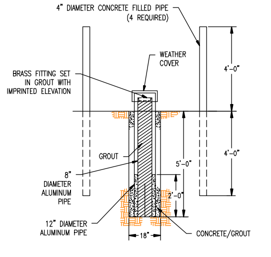
CONCRETE SILL HEIGHT
AND CURVE DIMENSIONS



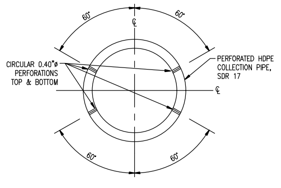
CONCRETE EDGE
DETAIL


EXTEND GEOTEXTILE A MIN. OF 10' BEYOND END OF PERFORATED UNDERDRAIN.
PERFORATED PIPE
15'
SOLID PIPE
CHANNEL BOTTOM TYPE III RIP RAP
18"
SEE UNDERDRAIN DETAIL, THIS DWG.
COMPACTED STRUCTURAL FILL
10'

UNDERDRAIN OUTLET DETAIL
N.T.S.

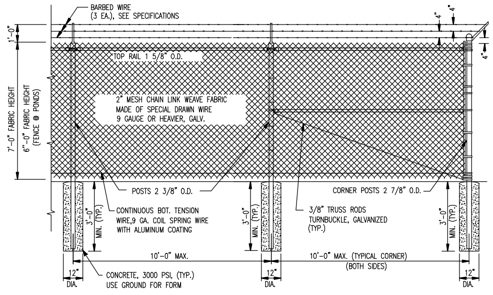

4" DIAMETER CONCRETE FILLED PIPE (4 REQUIRED)
WEATHER COVER
BRASS FITTING SET IN GROUT WITH IMPRINTED ELEVATION
GROUT
8" DIAMETER ALUMINUM PIPE
12" DIAMETER ALUMINUM PIPE
CONCRETE/GROUT
4'-0"
5'-0"
18"

SURVEY CONTROL MONUMENT
N.T.S.
H1C11124


60°
CIRCULAR 0.40"ø PERFORATIONS TOP & BOTTOM
PERFORATED HDPE COLLECTION PIPE, SDR 17

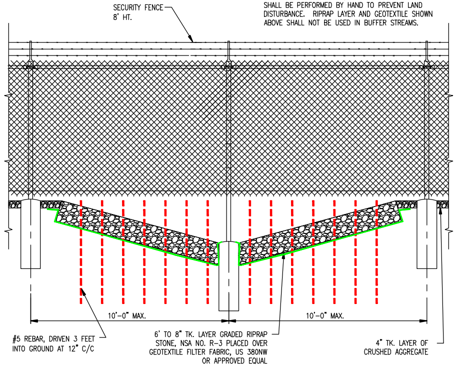
NOTE: 6" DIA. PERFORATED PIPE TO HAVE AASHTO CLASS I PERFORATIONS-6 ROWS OF PERFORATIONS REQ'D PER FT-OF-PIPE (24 PER LF OF PIPE OR 48 TOTAL FOR 2' LONG PERFORATED SECTION)

PERFORATED PIPE DETAIL
FOR UNDERDRAIN
N.T.S.

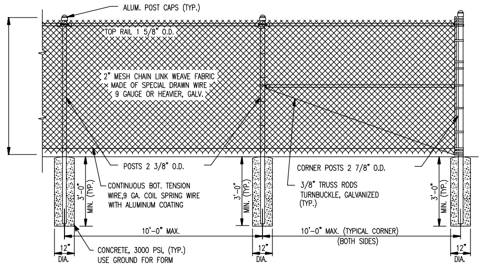

BARBED WIRE (3 EA.), SEE SPECIFICATIONS
TOP RAIL 1 5/8" O.D.
2" MESH CHAIN LINK WEAVE FABRIC MADE OF SPECIAL DRAWN WIRE 9 GAUGE OR HEAVIER, GALV.
7'-0" FABRIC HEIGHT
6'-0" FABRIC HEIGHT (FENCE @ PONDS)
POSTS 2 3/8" O.D.
CORNER POSTS 2 7/8" O.D.
CONTINUOUS BOT. TENSION WIRE,9 GA. COIL SPRING WIRE WITH ALUMINUM COATING
3/8" TRUSS RODS TURNBUCKLE, GALVANIZED (TYP.)
3'-0" MIN. (TYP.)
10'-0" MAX.
10'-0" MAX. (TYPICAL CORNER) (BOTH SIDES)
12" DIA.
CONCRETE, 3000 PSI (TYP.) USE GROUND FOR FORM

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

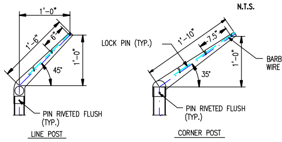
NOTE:
IN STREAM BUFFER AREAS, FENCE CONSTRUCTION SHALL BE PERFORMED BY HAND TO PREVENT LAND DISTURBANCE. RIPRAP LAYER AND GEOTEXTILE SHOWN ABOVE SHALL NOT BE USED IN BUFFER STREAMS.


SECURITY FENCE 8' HT.
10'-0" MAX.
10'-0" MAX.
#5 REBAR, DRIVEN 3 FEET INTO GROUND AT 12" C/C
6" TO 8" TK. LAYER GRADED RIPRAP STONE, NSA NO. R-3 PLACED OVER GEOTEXTILE FILTER FABRIC, US 380NW OR APPROVED EQUAL
4" TK. LAYER OF CRUSHED AGGREGATE

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


ALUM. POST CAPS (TYP.)
TOP RAIL 1 5/8" O.D.
2" MESH CHAIN LINK WEAVE FABRIC MADE OF SPECIAL DRAWN WIRE 9 GAUGE OR HEAVIER, GALV.
POSTS 2 3/8" O.D.
CORNER POSTS 2 7/8" O.D.
CONTINUOUS BOT. TENSION WIRE,9 GA. COIL SPRING WIRE WITH ALUMINUM COATING
3/8" TRUSS RODS TURNBUCKLE, GALVANIZED (TYP.)
3'-0" MIN. (TYP.)
10'-0" MAX.
10'-0" MAX. (TYPICAL CORNER) (BOTH SIDES)
12" DIA.
CONCRETE, 3000 PSI (TYP.) USE GROUND FOR FORM

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


1'-0"
45°
LOCK PIN (TYP.)
35°
BARBED WIRE (TYP.)
PIN RIVETED FLUSH (TYP.)
LINE POST
CORNER POST

EXTENSION ARM DETAILS

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

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

No. 12607 PROFESSIONAL ENGINEER
GARY H. McWHORTER
9/23/22

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

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

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

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
N.T.S.	**H1C11147**	1	FINAL	0

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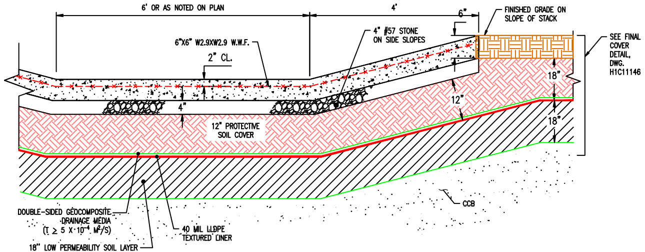
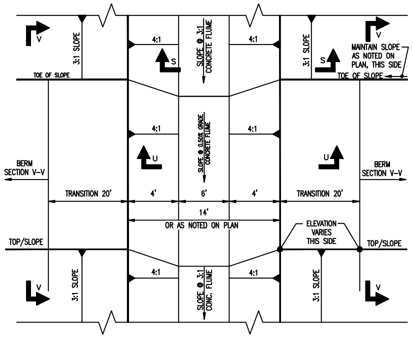

6' OR AS NOTED ON PLAN
4'
6"
FINISHED GRADE ON SLOPE OF STACK
4" #57 STONE ON SIDE SLOPES
6"X6" W2.9XW2.9 W.W.F.
2" CL.
SEE FINAL COVER DETAIL, DWG. H1C11146
18"
12"
4"
12" PROTECTIVE SOIL COVER
DOUBLE-SIDED GEOCOMPOSITE DRAINAGE MEDIA (T ≥ 5 X 10-4 M²/S)
40 MIL LLDPE TEXTURED LINER
18" LOW PERMEABILITY SOIL LAYER (K ≤ 1 X 10-5 CM/S)
CCB

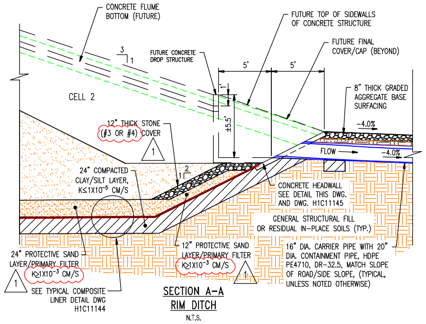
CONCRETE FLUME SECTION S-S
3:1 SIDE SLOPE AREA

N.T.S.
(THIS DWG.)


V
S
TOE OF SLOPE
3:1 SLOPE
4:1
SLOPE @ 3:1 CONCRETE FLUME
MAINTAIN SLOPE AS NOTED ON PLAN, THIS SIDE
TOE OF SLOPE
SLOPE @ 0.50% GRADE CONCRETE FLUME
U
BERM SECTION V-V
TRANSITION 20'
4'
6'
14'
OR AS NOTED ON PLAN
ELEVATION VARIES THIS SIDE
TOP/SLOPE
SLOPE @ 3:1 CONC. FLUME

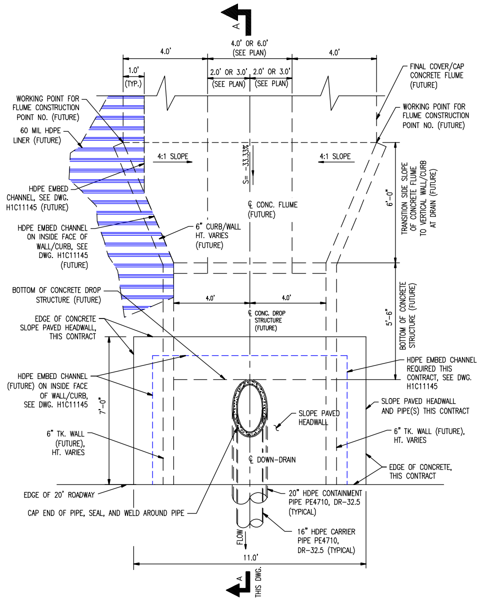
BERM TRANSITION AT FLUME DETAIL
PLAN VIEW

N.T.S.
(H1C11132 & H1C11134)


CONCRETE FLUME BOTTOM (FUTURE)
FUTURE TOP OF SIDEWALLS OF CONCRETE STRUCTURE
FUTURE CONCRETE DROP STRUCTURE
FUTURE FINAL COVER/CAP (BEYOND)
5'
5'
8" THICK GRADED AGGREGATE BASE SURFACING
CELL 2
3
1
±5.5'
12" THICK STONE (#3 OR #4) COVER
-4.0%
-4.0%
FLOW
24" COMPACTED CLAY/SILT LAYER, K≤1X10-5 CM/S
CONCRETE HEADWALL SEE DETAIL THIS DWG. AND DWG. H1C11145
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)
2
1
24" PROTECTIVE SAND LAYER/PRIMARY FILTER K≥1X10-3 CM/S
SEE TYPICAL COMPOSITE LINER DETAIL DWG H1C11144
12" PROTECTIVE SAND LAYER/PRIMARY FILTER K≥1X10-3 CM/S
16" DIA. CARRIER PIPE WITH 20" DIA. CONTAINMENT PIPE, HDPE PE4710, DR-32.5, MATCH SLOPE OF ROAD/SIDE SLOPE, (TYPICAL, UNLESS NOTED OTHERWISE)
1

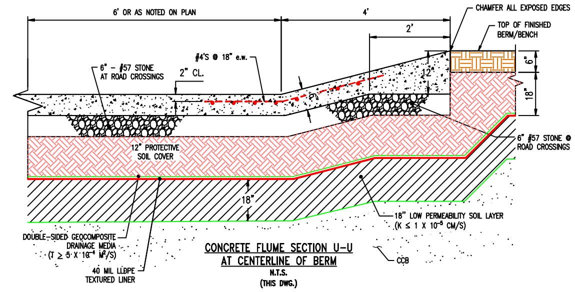
SECTION A-A
RIM DITCH

N.T.S.


A
4.0'
4.0' OR 6.0' (SEE PLAN)
4.0'
1.0' (TYP.)
2.0' OR 3.0' (SEE PLAN)
2.0' OR 3.0' (SEE PLAN)
FINAL COVER/CAP CONCRETE FLUME (FUTURE)
WORKING POINT FOR FLUME CONSTRUCTION POINT NO. (FUTURE)
WORKING POINT FOR FLUME CONSTRUCTION POINT NO. (FUTURE)
60 MIL HDPE LINER (FUTURE)
4:1 SLOPE
4:1 SLOPE
S= -33.33%
HDPE EMBED CHANNEL, SEE DWG. H1C11145 (FUTURE)
℄ CONC. FLUME (FUTURE)
TRANSITION SIDE SLOPE OF CONCRETE FLUME TO VERTICAL WALL/CURB AT DRAIN (FUTURE)
6'-0"
HDPE EMBED CHANNEL ON INSIDE FACE OF WALL/CURB, SEE DWG. H1C11145 (FUTURE)
6" CURB/WALL HT. VARIES (FUTURE)
BOTTOM OF CONCRETE DROP STRUCTURE (FUTURE)
4.0'
4.0'
℄ CONC. DROP STRUCTURE (FUTURE)
EDGE OF CONCRETE SLOPE PAVED HEADWALL, THIS CONTRACT
5'-6"
BOTTOM OF CONCRETE STRUCTURE (FUTURE)
HDPE EMBED CHANNEL (FUTURE) ON INSIDE FACE OF WALL/CURB, SEE DWG. H1C11145
HDPE EMBED CHANNEL REQUIRED THIS CONTRACT, SEE DWG. H1C11145
SLOPE PAVED HEADWALL
SLOPE PAVED HEADWALL AND PIPE(S) THIS CONTRACT
7'-0"
6" TK. WALL (FUTURE), HT. VARIES
℄ DOWN-DRAIN
6" TK. WALL (FUTURE), HT. VARIES
EDGE OF CONCRETE, THIS CONTRACT
EDGE OF 20' ROADWAY
CAP END OF PIPE, SEAL, AND WELD AROUND PIPE
20" HDPE CONTAINMENT PIPE PE4710, DR-32.5 (TYPICAL)
16" HDPE CARRIER PIPE PE4710, DR-32.5 (TYPICAL)
FLOW
11.0'
A
THIS DWG.

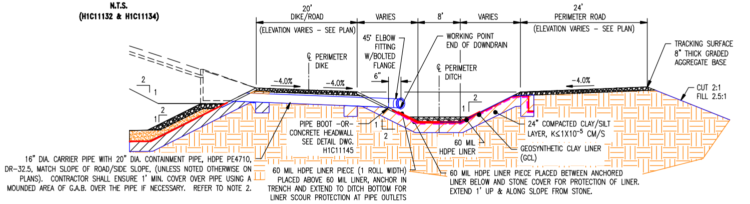
PLAN
INLET WITH HEADWALL

N.T.S.


CHAMFER ALL EXPOSED EDGES
6' OR AS NOTED ON PLAN
4'
TOP OF FINISHED BERM/BENCH
2'
6" - #57 STONE AT ROAD CROSSINGS
#4'S @ 18" e.w.
2" CL.
12"
6"
18"
12" PROTECTIVE SOIL COVER
6" #57 STONE @ ROAD CROSSINGS
18"
18" LOW PERMEABILITY SOIL LAYER (K ≤ 1 X 10-5 CM/S)
DOUBLE-SIDED GEOCOMPOSITE DRAINAGE MEDIA (T ≥ 5 X 10-4 M²/S)
40 MIL LLDPE TEXTURED LINER
CCB

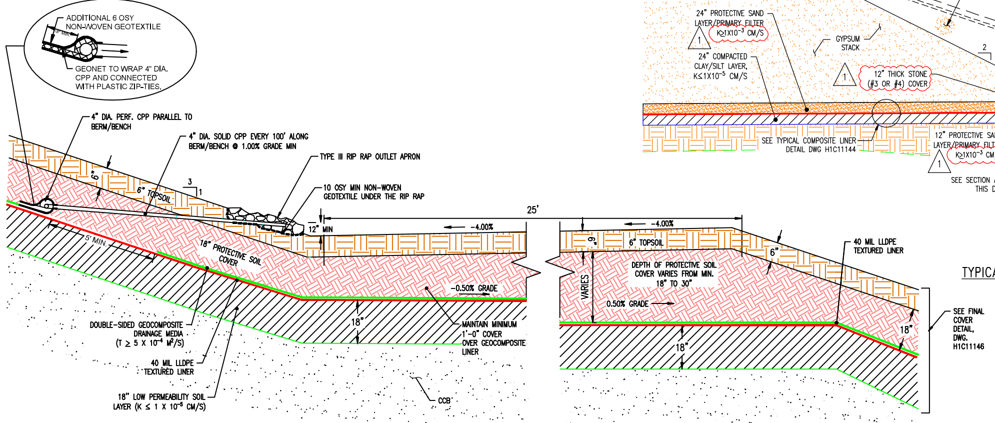
CONCRETE FLUME SECTION U-U
AT CENTERLINE OF BERM

N.T.S.
(THIS DWG.)


20' DIKE/ROAD (ELEVATION VARIES - SEE PLAN)
VARIES
8'
VARIES
24' PERIMETER ROAD (ELEVATION VARIES - SEE PLAN)
45° ELBOW FITTING W/BOLTED FLANGE
WORKING POINT END OF DOWNDRAIN
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
℄ PERIMETER DIKE
6"
℄ PERIMETER DITCH
-4.0%
-4.0%
-4.0%
2
1
CUT 2:1 FILL 2.5:1
PIPE BOOT -OR- CONCRETE HEADWALL SEE DETAIL DWG. H1C11145
60 MIL HDPE LINER
24" COMPACTED CLAY/SILT LAYER, K≤1X10-5 CM/S
GEOSYNTHETIC CLAY LINER (GCL)
16" DIA. CARRIER PIPE WITH 20" DIA. CONTAINMENT PIPE, HDPE PE4710, DR-32.5, MATCH SLOPE OF ROAD/SIDE SLOPE, (UNLESS NOTED OTHERWISE ON PLANS). CONTRACTOR SHALL ENSURE 1' MIN. COVER OVER PIPE USING A MOUNDED AREA OF G.A.B. OVER THE PIPE IF NECESSARY. REFER TO NOTE 2.
60 MIL HDPE LINER PIECE (1 ROLL WIDTH) PLACED ABOVE 60 MIL LINER, ANCHOR IN TRENCH AND EXTEND TO DITCH BOTTOM FOR LINER SCOUR PROTECTION AT PIPE OUTLETS
60 MIL HDPE LINER PIECE PLACED BETWEEN ANCHORED LINER BELOW AND STONE COVER FOR PROTECTION OF LINER. EXTEND 1' UP & ALONG SLOPE FROM STONE.

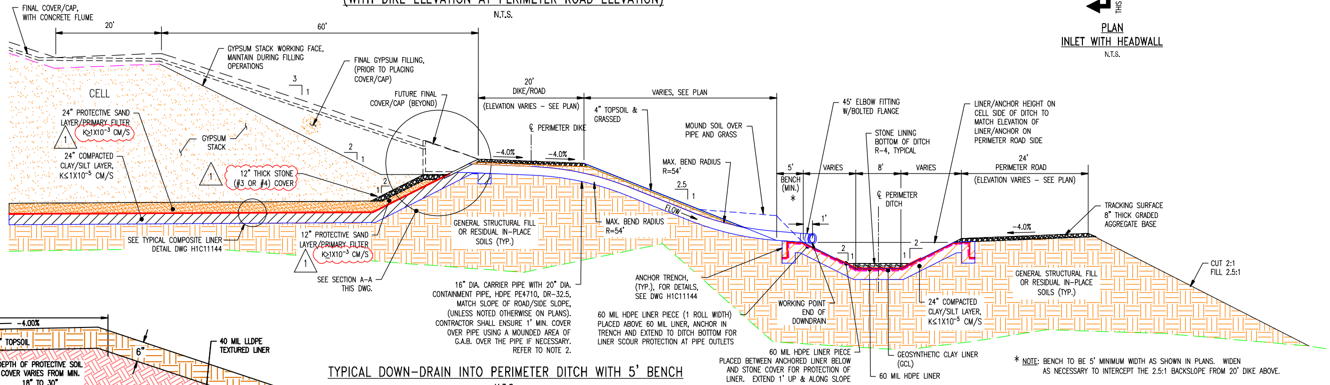
TYPICAL DOWN-DRAIN INTO PERIMETER DITCH
(WITH DIKE ELEVATION AT PERIMETER ROAD ELEVATION)

N.T.S.


ADDITIONAL 6 OSY NON-WOVEN GEOTEXTILE
GEONET TO WRAP 4" DIA. CPP AND CONNECTED WITH PLASTIC ZIP-TIES.
4" DIA. PERF. CPP PARALLEL TO BERM/BENCH
4" DIA. SOLID CPP EVERY 100' ALONG BERM/BENCH @ 1.00% GRADE MIN
TYPE III RIP RAP OUTLET APRON
10 OSY MIN NON-WOVEN GEOTEXTILE UNDER THE RIP RAP
6"
6" TOPSOIL
3
1
12" MIN
25'
-4.00%
-4.00%
6' MIN
18" PROTECTIVE SOIL COVER
-0.50% GRADE
0.50% GRADE
6" TOPSOIL
DEPTH OF PROTECTIVE SOIL COVER VARIES FROM MIN. 18" TO 30"
VARIES
6"
40 MIL LLDPE TEXTURED LINER
DOUBLE-SIDED GEOCOMPOSITE DRAINAGE MEDIA (T ≥ 5 X 10-4 M²/S)
MAINTAIN MINIMUM 1'-0" COVER OVER GEOCOMPOSITE LINER
40 MIL LLDPE TEXTURED LINER
18"
18"
18"
SEE FINAL COVER DETAIL, DWG. H1C11146
18" LOW PERMEABILITY SOIL LAYER (K ≤ 1 X 10-5 CM/S)
CCB

TYPICAL FINAL COVER SECTION V-V AT OUTLET LOCATIONS

N.T.S.
(THIS DWG.)


FINAL COVER/CAP, WITH CONCRETE FLUME
20'
60'
GYPSUM STACK WORKING FACE, MAINTAIN DURING FILLING OPERATIONS
FINAL GYPSUM FILLING, (PRIOR TO PLACING COVER/CAP)
3
1
CELL
FUTURE FINAL COVER/CAP (BEYOND)
20' DIKE/ROAD (ELEVATION VARIES - SEE PLAN)
VARIES, SEE PLAN
4" TOPSOIL & GRASSED
45° ELBOW FITTING W/BOLTED FLANGE
LINER/ANCHOR HEIGHT ON CELL SIDE OF DITCH TO MATCH ELEVATION OF LINER/ANCHOR ON PERIMETER ROAD SIDE
24" PROTECTIVE SAND LAYER/PRIMARY FILTER K≥1X10-3 CM/S
GYPSUM STACK
℄ PERIMETER DIKE
MOUND SOIL OVER PIPE AND GRASS
STONE LINING BOTTOM OF DITCH R-4, TYPICAL
24" COMPACTED CLAY/SILT LAYER, K≤1X10-5 CM/S
2
1
-4.0%
-4.0%
MAX. BEND RADIUS R=54'
2.5
1
5' BENCH (MIN.) *
VARIES
8'
VARIES
24' PERIMETER ROAD (ELEVATION VARIES - SEE PLAN)
12" THICK STONE (#3 OR #4) COVER
FLOW
1'
℄ PERIMETER DITCH
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
-4.0%
SEE TYPICAL COMPOSITE LINER DETAIL DWG H1C11144
12" PROTECTIVE SAND LAYER/PRIMARY FILTER K≥1X10-3 CM/S
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)
MAX. BEND RADIUS R=54'
CUT 2:1 FILL 2.5:1
SEE SECTION A-A THIS DWG.
ANCHOR TRENCH, (TYP.), FOR DETAILS, SEE DWG H1C11144
2
1
GENERAL STRUCTURAL FILL OR RESIDUAL IN-PLACE SOILS (TYP.)
16" DIA. CARRIER PIPE WITH 20" DIA. CONTAINMENT PIPE, HDPE PE4710, DR-32.5, MATCH SLOPE OF ROAD/SIDE SLOPE, (UNLESS NOTED OTHERWISE ON PLANS). CONTRACTOR SHALL ENSURE 1' MIN. COVER OVER PIPE USING A MOUNDED AREA OF G.A.B. OVER THE PIPE IF NECESSARY. REFER TO NOTE 2.
60 MIL HDPE LINER PIECE (1 ROLL WIDTH) PLACED ABOVE 60 MIL LINER, ANCHOR IN TRENCH AND EXTEND TO DITCH BOTTOM FOR LINER SCOUR PROTECTION AT PIPE OUTLETS
WORKING POINT END OF DOWNDRAIN
24" COMPACTED CLAY/SILT LAYER, K≤1X10-5 CM/S
60 MIL HDPE LINER PIECE PLACED BETWEEN ANCHORED LINER BELOW AND STONE COVER FOR PROTECTION OF LINER. EXTEND 1' UP & ALONG SLOPE FROM STONE.
GEOSYNTHETIC CLAY LINER (GCL)
60 MIL HDPE LINER

TYPICAL DOWN-DRAIN INTO PERIMETER DITCH WITH 5' BENCH

N.T.S.
(H1C11125, H1C11131 & H1C11153)

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

NOTES:

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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli

REFERENCES:

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

NO. 27185 R. BRANT LANE 10/17/24
No. 12687 GARY H. McWHORTER 10/18/24

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

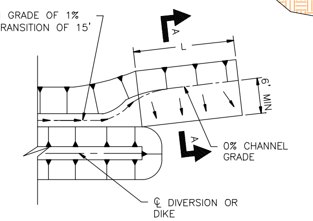
PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 THROUGH CELL NO. 3
MISCELLANOUS SECTIONS AND DETAILS
SHEET 3

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
1	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

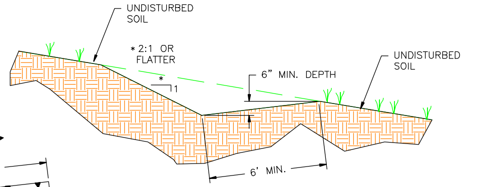
SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
N.T.S.	H1C11148	1	FINAL	1

Acad2004 ANSI F: 40x28

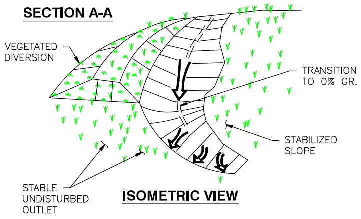
DESIGNED Q10/24 (CFS)	MINIMUM LENGTH "L" (FEET)
UP TO 10	10
11 TO 20	20
21 TO 30	30
31 TO 40	40
41 TO 50	50


MAXIMUM GRADE OF 1% FOR A TRANSITION OF 15' MINIMUM
A
L
6' MIN
A
0% CHANNEL GRADE
℄ DIVERSION OR DIKE

PLAN


UNDISTURBED SOIL
* 2:1 OR FLATTER
*
1
6" MIN. DEPTH
UNDISTURBED SOIL
6' MIN.

SECTION A-A


VEGETATED DIVERSION
TRANSITION TO 0% GR.
STABILIZED SLOPE
STABLE UNDISTURBED OUTLET

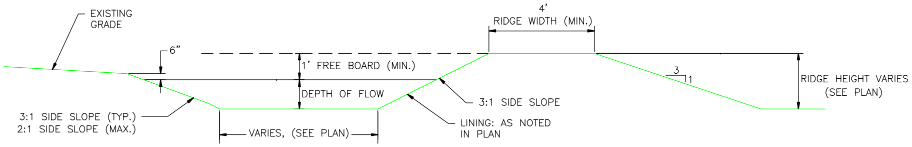
ISOMETRIC VIEW

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

TYPICAL LEVEL SPREADER DETAIL

(Lv)

N.T.S.

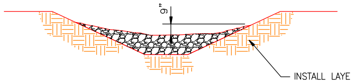

EXISTING GRADE
6"
4'
RIDGE WIDTH (MIN.)
1' FREE BOARD (MIN.)
DEPTH OF FLOW
3
1
RIDGE HEIGHT VARIES (SEE PLAN)
3:1 SIDE SLOPE
3:1 SIDE SLOPE (TYP.)
2:1 SIDE SLOPE (MAX.)
VARIES, (SEE PLAN)
LINING: AS NOTED IN PLAN

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

DIVERSION DETAIL (EXCAVATION PHASE)

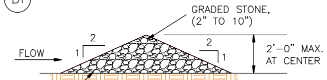
(Di)

N.T.S.



DITCH ELEVATION

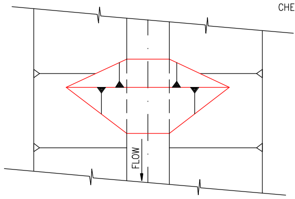
N.T.S.


GRADED STONE, (2" TO 10")
FLOW
1
2
2
1
5'
2'-0" MAX. AT CENTER

END ELEVATION

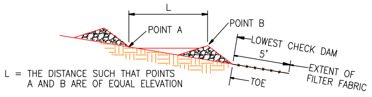
N.T.S.

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



PLAN

N.T.S.


L
POINT A
POINT B
LOWEST CHECK DAM
5'
EXTENT OF FILTER FABRIC
TOE

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

SPACING BETWEEN CHECK DAMS

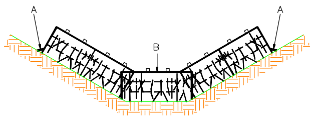
N.T.S.

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

TYPICAL STONE CHECK DAM

(Cd-S)

N.T.S.

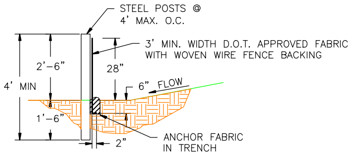


NOTES:
1. POINTS "A" SHOULD BE HIGHER THAN POINT "B".
2. EMBED HAY BALES A MINIMUM OF 4 INCHES.
3. HAY BALES ARE TO BE BOUND WITH WIRE OR NYLON.
4. EACH BALE SHALL BE CONSTRAINED BY TWO 2"x 2" WOODEN STAKES OR TWO 1/2" ø STEEL REINFORCING BARS EMBEDDED 2 FT. IN THE GROUND.
5. HAY BALE CHECK DAMS SHALL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

PLACEMENT OF HAY BALE BARRIER IN DRAINAGE WAY

(Sd1-Hb)

N.T.S.


STEEL POSTS @ 4' MAX. O.C.
3' MIN. WIDTH D.O.T. APPROVED FABRIC WITH WOVEN WIRE FENCE BACKING
2'-6"
28"
4' MIN
6"
FLOW
1'-6"
2"
ANCHOR FABRIC IN TRENCH

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

TYPICAL SILT FENCE DETAIL TYPE "C"

(Sd1-C)

N.T.S.

EROSION CONTROL NOTES:

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

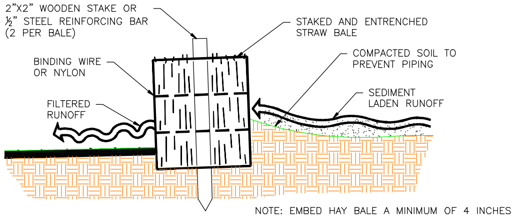
GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

REFERENCES:

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

NO. 27185
R. BRANT LANE
9/27/22

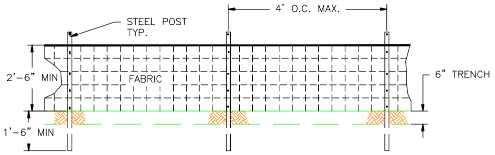
No. 12867
GARY H. McWHORTER
9/23/22


2"X2" WOODEN STAKE OR ½" STEEL REINFORCING BAR (2 PER BALE)
STAKED AND ENTRENCHED STRAW BALE
BINDING WIRE OR NYLON
COMPACTED SOIL TO PREVENT PIPING
SEDIMENT LADEN RUNOFF
FILTERED RUNOFF
NOTE: EMBED HAY BALE A MINIMUM OF 4 INCHES

CROSS SECTION OF INSTALLED HAY BALE

(Sd1-Hb)

N.T.S.

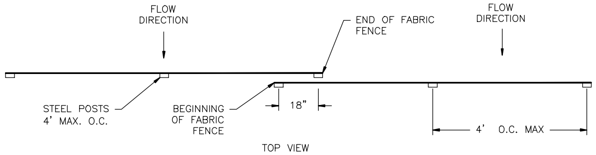

4' O.C. MAX.
STEEL POST TYP.
2'-6" MIN
FABRIC
6" TRENCH
1'-6" MIN

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

TYPICAL SILT FENCE FRONT VIEW

(Sd1-C)

SCALE: 1"=2'


FLOW DIRECTION
END OF FABRIC FENCE
FLOW DIRECTION
STEEL POSTS 4' MAX. O.C.
BEGINNING OF FABRIC FENCE
18"
4' O.C. MAX
TOP VIEW

TYPICAL SILT FENCE TYPE C- OVERLAP DETAIL

(Sd1-C)

N.T.S.

SILT FENCE/HAY BALE BARRIER NOTES:

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

CRITERIA FOR SILT FENCE PLACEMENT

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

CRITERIA FOR HAY BALE PLACEMENT

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

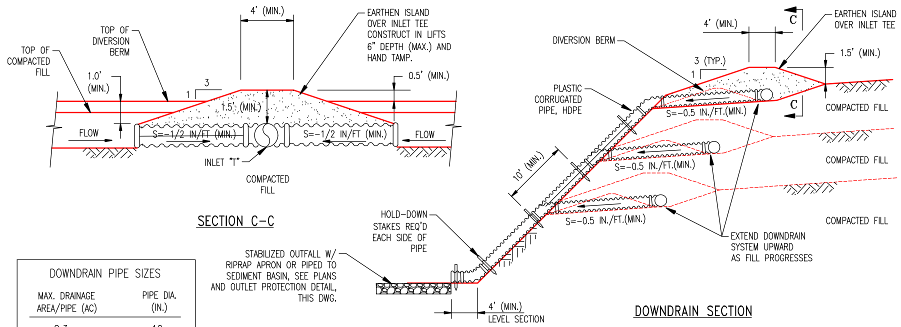
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

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

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

ANSI F: 40x28 Acad2004


TOP OF COMPACTED FILL
TOP OF DIVERSION BERM
4' (MIN.)
EARTHEN ISLAND OVER INLET TEE CONSTRUCT IN LIFTS 6" DEPTH (MAX.) AND HAND TAMP.
1.0' (MIN.)
0.5' (MIN.)
3
1
1.5' (MIN.)
FLOW
S=-1/2 IN/FT (MIN.)
S=-1/2 IN/FT (MIN.)
FLOW
INLET "T"
COMPACTED FILL
DIVERSION BERM
4' (MIN.)
C
EARTHEN ISLAND OVER INLET TEE
1.5' (MIN.)
3 (TYP.)
1
PLASTIC CORRUGATED PIPE, HDPE
S=-0.5 IN./FT.(MIN.)
C
COMPACTED FILL
10' (MIN.)
S=-0.5 IN./FT.(MIN.)
COMPACTED FILL
S=-0.5 IN./FT.(MIN.)
COMPACTED FILL
HOLD-DOWN STAKES REQ'D EACH SIDE OF PIPE
EXTEND DOWNDRAIN SYSTEM UPWARD AS FILL PROGRESSES
STABILIZED OUTFALL W/ RIPRAP APRON OR PIPED TO SEDIMENT BASIN, SEE PLANS AND OUTLET PROTECTION DETAIL, THIS DWG.
4' (MIN.)
LEVEL SECTION

SECTION C-C

DOWNDRAIN SECTION

DOWNDRAIN PIPE SIZES

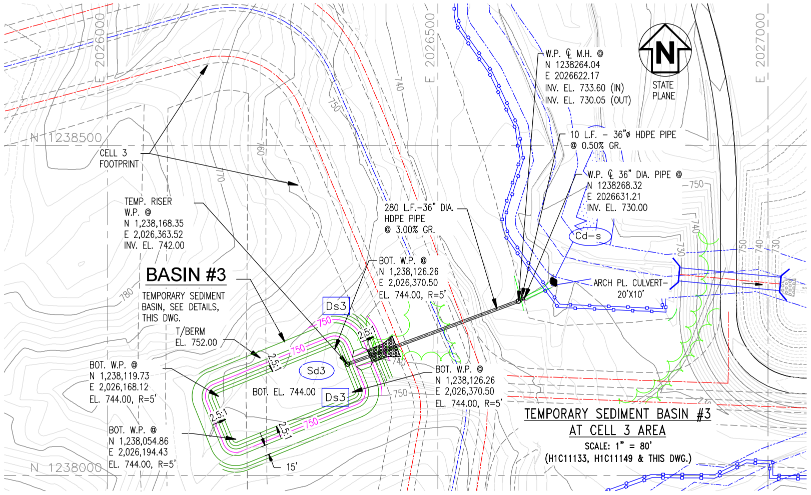
MAX. DRAINAGE AREA/PIPE (AC)	PIPE DIA. (IN.)
0.3	10
0.5	12
1.0	18

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

TEMPORARY SLOPE DRAIN

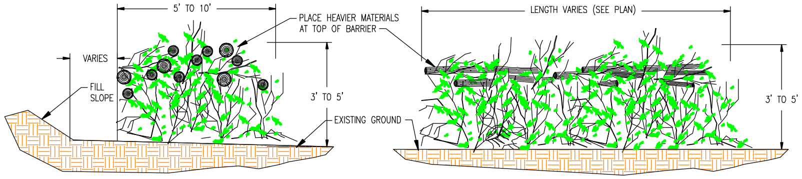
N.T.S.

Dn1


E 2026000
E 2026500
E 2027000
N 1238500
N 1238000
CELL 3 FOOTPRINT
TEMP. RISER W.P. @ N 1,238,168.35 E 2,026,363.52 INV. EL. 742.00
BASIN #3
TEMPORARY SEDIMENT BASIN, SEE DETAILS, THIS DWG.
T/BERM EL. 752.00
BOT. W.P. @ N 1,238,119.73 E 2,026,168.12 EL. 744.00, R=5'
BOT. W.P. @ N 1,238,054.86 E 2,026,194.43 EL. 744.00, R=5'
BOT. EL. 744.00
Ds3
Sd3
Ds3
2.5:1
2.5:1
2.5:1
2.5:1
15'
750
740
760
770
780
730
280 L.F.-36" DIA. HDPE PIPE @ 3.00% GR.
BOT. W.P. @ N 1,238,126.26 E 2,026,370.50 EL. 744.00, R=5'
BOT. W.P. @ N 1,238,126.26 E 2,026,370.50 EL. 744.00, R=5'
W.P. ℄ M.H. @ N 1238264.04 E 2026622.17 INV. EL. 733.60 (IN) INV. EL. 730.05 (OUT)
N
STATE PLANE
10 L.F. - 36"ø HDPE PIPE @ 0.50% GR.
W.P. ℄ 36" DIA. PIPE @ N 1238268.32 E 2026631.21 INV. EL. 730.00
Cd-s
ARCH PL. CULVERT- 20'X10'

TEMPORARY SEDIMENT BASIN #3 AT CELL 3 AREA

SCALE: 1" = 80'
(H1C11133, H1C11149 & THIS DWG.)


5' TO 10'
PLACE HEAVIER MATERIALS AT TOP OF BARRIER
VARIES
FILL SLOPE
3' TO 5'
EXISTING GROUND
LENGTH VARIES (SEE PLAN)
3' TO 5'

SECTION
N.T.S.

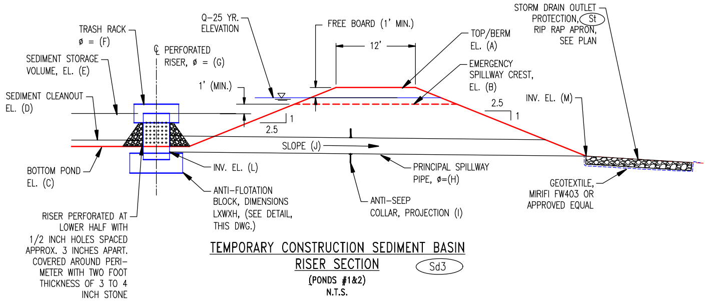
FRONT VIEW
N.T.S.

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

BRUSH BARRIER DETAIL

N.T.S.

Sd1-Bb

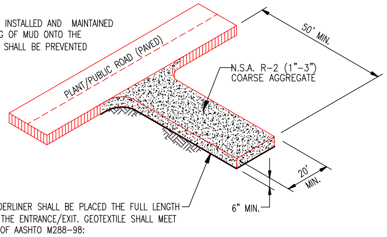

TRASH RACK ø = (F)
Q-25 YR. ELEVATION
℄ PERFORATED RISER, ø = (G)
SEDIMENT STORAGE VOLUME, EL. (E)
1' (MIN.)
SEDIMENT CLEANOUT EL. (D)
FREE BOARD (1' MIN.)
12'
TOP/BERM EL. (A)
EMERGENCY SPILLWAY CREST, EL. (B)
STORM DRAIN OUTLET PROTECTION, St RIP RAP APRON, SEE PLAN
INV. EL. (M)
2.5
1
1
2.5
SLOPE (J)
BOTTOM POND EL. (C)
INV. EL. (L)
PRINCIPAL SPILLWAY PIPE, ø=(H)
ANTI-FLOTATION BLOCK, DIMENSIONS LXWXH, (SEE DETAIL, THIS DWG.)
ANTI-SEEP COLLAR, PROJECTION (I)
GEOTEXTILE, MIRIFI FW403 OR APPROVED EQUAL
RISER PERFORATED AT LOWER HALF WITH 1/2 INCH HOLES SPACED APPROX. 3 INCHES APART. COVERED AROUND PERIMETER WITH TWO FOOT THICKNESS OF 3 TO 4 INCH STONE

TEMPORARY CONSTRUCTION SEDIMENT BASIN RISER SECTION

Sd3

(PONDS #1&2)
N.T.S.

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


PLANT/PUBLIC ROAD (PAVED)
50' MIN.
N.S.A. R-2 (1"-3") COARSE AGGREGATE
20' MIN.
6" MIN.

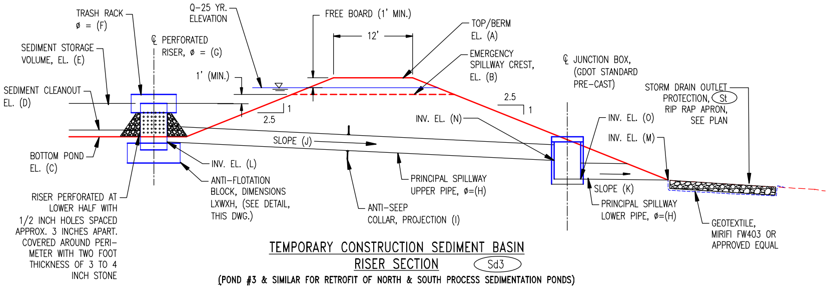
GEOTEXTILE UNDERLINER SHALL BE PLACED THE FULL LENGTH AND WIDTH OF THE ENTRANCE/EXIT. GEOTEXTILE SHALL MEET REQUIREMENTS OF AASHTO M288-98:

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

GRAVEL CONSTRUCTION ENTRANCE/EXIT

N.T.S.

Co


TRASH RACK ø = (F)
Q-25 YR. ELEVATION
FREE BOARD (1' MIN.)
12'
TOP/BERM EL. (A)
℄ PERFORATED RISER, ø = (G)
SEDIMENT STORAGE VOLUME, EL. (E)
EMERGENCY SPILLWAY CREST, EL. (B)
1' (MIN.)
℄ JUNCTION BOX, (GDOT STANDARD PRE-CAST)
SEDIMENT CLEANOUT EL. (D)
STORM DRAIN OUTLET PROTECTION, St RIP RAP APRON, SEE PLAN
2.5
1
1
2.5
INV. EL. (N)
INV. EL. (O)
INV. EL. (M)
SLOPE (J)
BOTTOM POND EL. (C)
INV. EL. (L)
PRINCIPAL SPILLWAY UPPER PIPE, ø=(H)
SLOPE (K)
PRINCIPAL SPILLWAY LOWER PIPE, ø=(H)
ANTI-FLOTATION BLOCK, DIMENSIONS LXWXH, (SEE DETAIL, THIS DWG.)
ANTI-SEEP COLLAR, PROJECTION (I)
GEOTEXTILE, MIRIFI FW403 OR APPROVED EQUAL
RISER PERFORATED AT LOWER HALF WITH 1/2 INCH HOLES SPACED APPROX. 3 INCHES APART. COVERED AROUND PERIMETER WITH TWO FOOT THICKNESS OF 3 TO 4 INCH STONE

TEMPORARY CONSTRUCTION SEDIMENT BASIN RISER SECTION

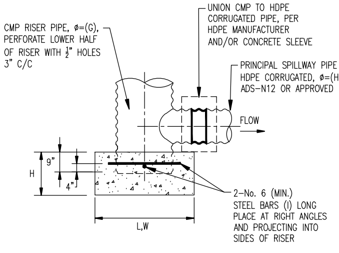
Sd3

(POND #3 & SIMILAR FOR RETROFIT OF NORTH & SOUTH PROCESS SEDIMENTATION PONDS)
N.T.S.

TEMPORARY SEDIMENT BASIN
SECTION DATA

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

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


CMP RISER PIPE, ø=(G), PERFORATE LOWER HALF OF RISER WITH ½" HOLES 3" C/C
UNION CMP TO HDPE CORRUGATED PIPE, PER HDPE MANUFACTURER AND/OR CONCRETE SLEEVE
PRINCIPAL SPILLWAY PIPE HDPE CORRUGATED, ø=(H), ADS-N12 OR APPROVED EQUAL
FLOW
9"
H
4"
2-No. 6 (MIN.) STEEL BARS (I) LONG PLACE AT RIGHT ANGLES AND PROJECTING INTO SIDES OF RISER
L,W

CONCRETE RISER BASE DETAIL

NOT TO SCALE

REFERENCES:

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

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

R. BRANT LANE No. 27185 9/27/22

GARY H. McWHORTER 9/23/22

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE

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

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

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

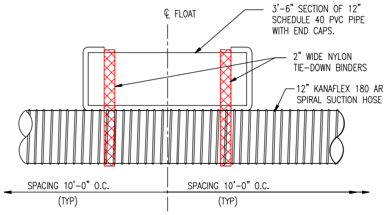
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

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

Acad2004 ANSI F: 40x28

target ZERO Every day, every job, safely.

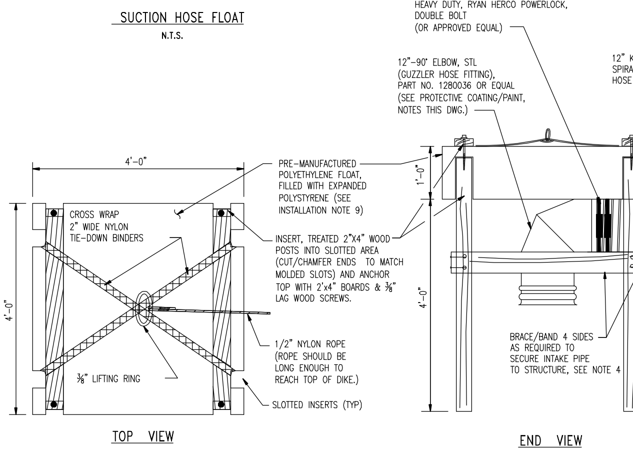

℄ FLOAT
3'–6" SECTION OF 12" SCHEDULE 40 PVC PIPE WITH END CAPS.
2" WIDE NYLON TIE–DOWN BINDERS
12" KANAFLEX 180 AR SPIRAL SUCTION HOSE
SPACING 10'–0" O.C. (TYP)
SPACING 10'–0" O.C. (TYP)

SUCTION HOSE FLOAT

N.T.S.

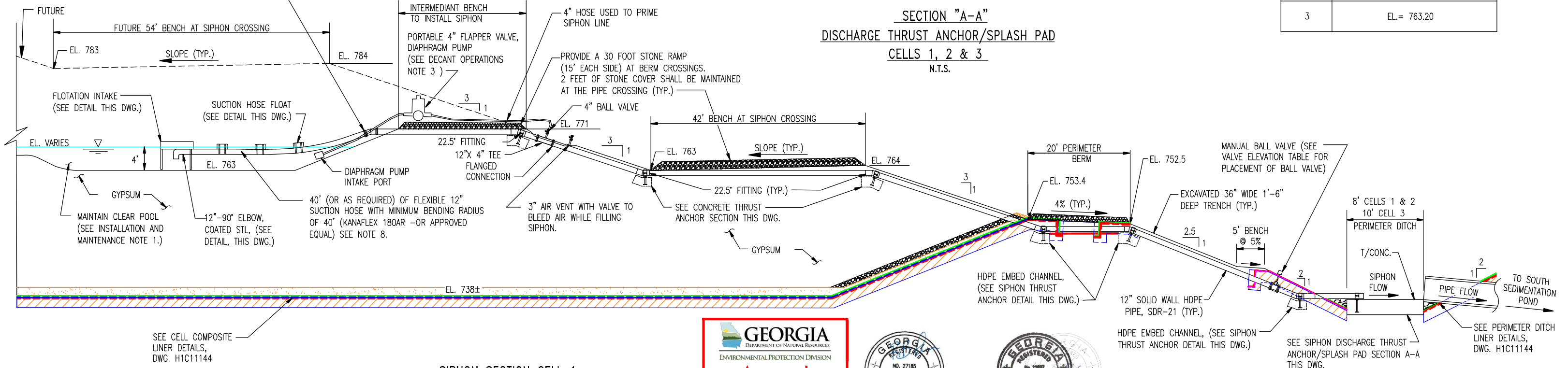
SIPHON WORK POINT TABLE

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


SPIRAL HOSE CLAMPS, HEAVY DUTY, RYAN HERCO POWERLOCK, DOUBLE BOLT (OR APPROVED EQUAL)
12"–90° ELBOW, STL (GUZZLER HOSE FITTING), PART NO. 1280036 OR EQUAL (SEE PROTECTIVE COATING/PAINT, NOTES THIS DWG.)
12" KANAFLEX 180 AR SPIRAL REINFORCED HOSE
4'–0"
4'–0"
CROSS WRAP 2" WIDE NYLON TIE–DOWN BINDERS
PRE–MANUFACTURED POLYETHYLENE FLOAT, FILLED WITH EXPANDED POLYSTYRENE (SEE INSTALLATION NOTE 9)
INSERT, TREATED 2"X4" WOOD POSTS INTO SLOTTED AREA (CUT/CHAMFER ENDS TO MATCH MOLDED SLOTS) AND ANCHOR TOP WITH 2'x4" BOARDS & ⅜" LAG WOOD SCREWS.
1/2" NYLON ROPE (ROPE SHOULD BE LONG ENOUGH TO REACH TOP OF DIKE.)
⅜" LIFTING RING
SLOTTED INSERTS (TYP)
1'–0"
4'–0"
BRACE/BAND 4 SIDES AS REQUIRED TO SECURE INTAKE PIPE TO STRUCTURE, SEE NOTE 4
TOP VIEW
END VIEW

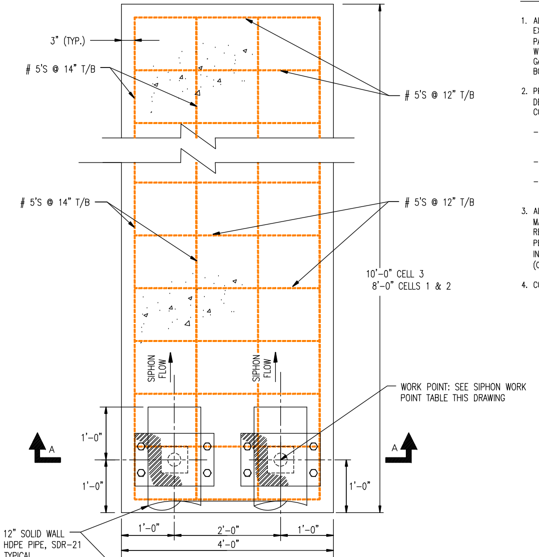
POLYETHYLENE 4'X4'X1' FLOTATION INTAKE

N.T.S.

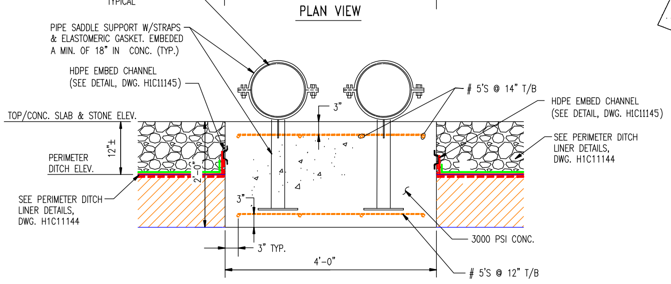

BOLTED FLANGE CONNECTION W/HDPE FLANGE & BACKUP RING, 150 LB STL WN FLANGE, WELD–ON MALE HOSE COUPLER (GUZZLER PART NO. 43370, OR EQUAL), SPIRAL HOSE CLAMPS, HEAVY DUTY, RYAN HERCO POWERLOCK, DBL. BOLT (OR EQUAL)
FUTURE
FUTURE 54' BENCH AT SIPHON CROSSING
EL. 783
SLOPE (TYP.)
EL. 784
25'
INTERMEDIANT BENCH TO INSTALL SIPHON
PORTABLE 4" FLAPPER VALVE, DIAPHRAGM PUMP (SEE DECANT OPERATIONS NOTE 3)
4" HOSE USED TO PRIME SIPHON LINE
PROVIDE A 30 FOOT STONE RAMP (15' EACH SIDE) AT BERM CROSSINGS. 2 FEET OF STONE COVER SHALL BE MAINTAINED AT THE PIPE CROSSING (TYP.)
4" BALL VALVE
EL. 771
3
1
FLOTATION INTAKE (SEE DETAIL THIS DWG.)
SUCTION HOSE FLOAT (SEE DETAIL THIS DWG.)
EL. VARIES
4'
EL. 763
22.5° FITTING
12"X 4" TEE FLANGED CONNECTION
DIAPHRAGM PUMP INTAKE PORT
GYPSUM
MAINTAIN CLEAR POOL (SEE INSTALLATION AND MAINTENANCE NOTE 1.)
12"–90° ELBOW, COATED STL, (SEE DETAIL, THIS DWG.)
40' (OR AS REQUIRED) OF FLEXIBLE 12" SUCTION HOSE WITH MINIMUM BENDING RADIUS OF 40' (KANAFLEX 180AR –OR APPROVED EQUAL) SEE NOTE 8.
3" AIR VENT WITH VALVE TO BLEED AIR WHILE FILLING SIPHON.
42' BENCH AT SIPHON CROSSING
EL. 763
SLOPE (TYP.)
EL. 764
22.5° FITTING (TYP.)
SEE CONCRETE THRUST ANCHOR SECTION THIS DWG.
GYPSUM
20' PERIMETER BERM
EL. 752.5
EL. 753.4
4% (TYP.)
EXCAVATED 36" WIDE 1'–6" DEEP TRENCH (TYP.)
2.5
5' BENCH @ 5%
MANUAL BALL VALVE (SEE VALVE ELEVATION TABLE FOR PLACEMENT OF BALL VALVE)
8' CELLS 1 & 2
10' CELL 3
PERIMETER DITCH
T/CONC.
SIPHON FLOW
PIPE FLOW
TO SOUTH SEDIMENTATION POND
2
1
EL. 738±
HDPE EMBED CHANNEL, (SEE SIPHON THRUST ANCHOR DETAIL THIS DWG.)
12" SOLID WALL HDPE PIPE, SDR–21 (TYP.)
HDPE EMBED CHANNEL, (SEE SIPHON THRUST ANCHOR DETAIL THIS DWG.)
SEE SIPHON DISCHARGE THRUST ANCHOR/SPLASH PAD SECTION A–A THIS DWG.
SEE PERIMETER DITCH LINER DETAILS, DWG. H1C11144
SEE CELL COMPOSITE LINER DETAILS, DWG. H1C11144

SIPHON SECTION CELL 1

SCALE: 1" = 10'


3" (TYP.)
# 5'S @ 14" T/B
# 5'S @ 12" T/B
# 5'S @ 14" T/B
# 5'S @ 12" T/B
10'–0" CELL 3
8'–0" CELLS 1 & 2
SIPHON FLOW
SIPHON FLOW
WORK POINT: SEE SIPHON WORK POINT TABLE THIS DRAWING
A
A
1'–0"
1'–0"
1'–0"
1'–0"
2'–0"
1'–0"
4'–0"
12" SOLID WALL HDPE PIPE, SDR–21 TYPICAL

PLAN VIEW


PIPE SADDLE SUPPORT W/STRAPS & ELASTOMERIC GASKET. EMBEDED A MIN. OF 18" IN CONC. (TYP.)
HDPE EMBED CHANNEL (SEE DETAIL, DWG. H1C11145)
TOP/CONC. SLAB & STONE ELEV.
12"±
PERIMETER DITCH ELEV.
2'–0"
3"
3"
3" TYP.
4'–0"
# 5'S @ 14" T/B
HDPE EMBED CHANNEL (SEE DETAIL, DWG. H1C11145)
SEE PERIMETER DITCH LINER DETAILS, DWG. H1C11144
SEE PERIMETER DITCH LINER DETAILS, DWG. H1C11144
3000 PSI CONC.
# 5'S @ 12" T/B

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

N.T.S.

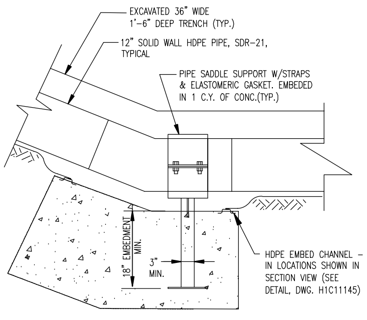
METAL AND CONCRETE SURFACE COATINGS/PAINT:

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

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

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

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


EXCAVATED 36" WIDE 1'–6" DEEP TRENCH (TYP.)
12" SOLID WALL HDPE PIPE, SDR–21, TYPICAL
PIPE SADDLE SUPPORT W/STRAPS & ELASTOMERIC GASKET. EMBEDED IN 1 C.Y. OF CONC.(TYP.)
18" EMBEDMENT MIN.
3" MIN.
HDPE EMBED CHANNEL – IN LOCATIONS SHOWN IN SECTION VIEW (SEE DETAIL, DWG. H1C11145)

SECTION
SIPHON THRUST ANCHOR

N.T.S.

ELEVATION TABLE
FOR PLACEMENT OF BALL VALVE

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

SIPHON INSTALLATION AND OPERATION NOTES:

INSTALLATION AND MAINTENANCE:

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

DECANT OPERATIONS:

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

STORM FLOW DISCHARGE OPERATIONS:

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

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

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R. BRANT LANE
9/27/22

No. 12807
GARY H. McWHORTER
9/23/22

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

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

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

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

Acad2004 ANSI F: 40x28

CELL 1 AND CELL 2

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FLUME P			
POINT NO.	NORTHING	EASTING	ELEVATION
P1	1237374.99	2028435.92	904.15
P2	1237373.40	2028422.04	904.15
P3	1237018.77	2028469.26	844.00
P4	1237016.37	2028455.39	844.00
P5	1236910.00	2028476.76	823.00
P6	1236908.16	2028462.86	823.00
P7	1236771.70	2028486.30	803.00
P8	1236771.84	2028472.26	803.00
P9	1236739.48	2028488.52	804.30
P10	1236736.81	2028474.68	804.39
P11	1236655.93	2028515.52	783.00
P12	1236653.97	2028501.45	783.00
P13	1236564.70	2028545.01	768.00
P14	1236562.82	2028530.90	768.70
P15	1237306.39	2028443.80	883.00
P16	1237304.80	2028429.92	883.00
P17	1237183.95	2028457.87	863.00
P18	1237183.19	2028443.89	863.00
P19	1237034.75	2028472.38	843.00
P20	1237034.87	2028454.12	843.00

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

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

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

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

CELL 3

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

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

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

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

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

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

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

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

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

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

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

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

No. 27185
R. BRANT LANE
9/27/22

GARY H. McWHORTER
9/23/22

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

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

Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

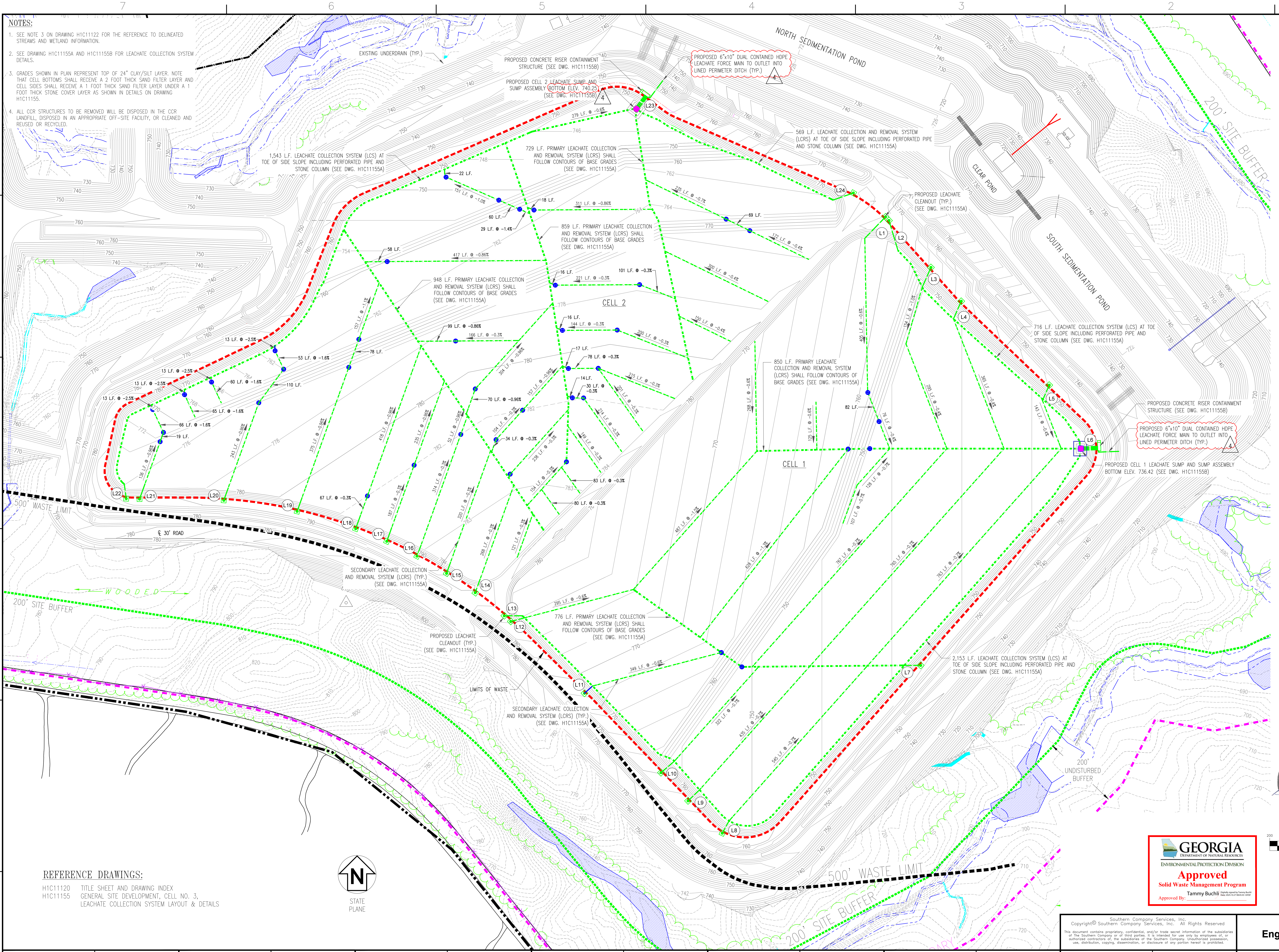
PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO.1 THROUGH CELL 3
FLUME DATA SHEET

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

Acad2008 ANSI F: 40x28

NOTES:

1. SEE NOTE 3 ON DRAWING H1C11122 FOR THE REFERENCE TO DELINEATED STREAMS AND WETLAND INFORMATION.
2. SEE DRAWING H1C11155A AND H1C11155B FOR LEACHATE COLLECTION SYSTEM DETAILS.
3. GRADES SHOWN IN PLAN REPRESENT TOP OF 24" CLAY/SILT LAYER. NOTE THAT CELL BOTTOMS SHALL RECEIVE A 2 FOOT THICK SAND FILTER LAYER AND CELL SIDES SHALL RECEIVE A 1 FOOT THICK SAND FILTER LAYER UNDER A 1 FOOT THICK STONE COVER LAYER AS SHOWN IN DETAILS ON DRAWING H1C11155.
4. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF-SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.


NORTH SEDIMENTATION POND
SOUTH SEDIMENTATION POND
CLEAR POND
CELL 1
CELL 2
EXISTING UNDERDRAIN (TYP.)
PROPOSED CONCRETE RISER CONTAINMENT STRUCTURE (SEE DWG. H1C11155B)
PROPOSED CELL 2 LEACHATE SUMP AND SUMP ASSEMBLY BOTTOM ELEV. 740.25 (SEE DWG. H1C11155B)
PROPOSED 6"x10" DUAL CONTAINED HDPE LEACHATE FORCE MAIN TO OUTLET INTO LINED PERIMETER DITCH (TYP.)
4
569 L.F. LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) AT TOE OF SIDE SLOPE INCLUDING PERFORATED PIPE AND STONE COLUMN (SEE DWG. H1C11155A)
729 L.F. PRIMARY LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) SHALL FOLLOW CONTOURS OF BASE GRADES (SEE DWG. H1C11155A)
1,543 L.F. LEACHATE COLLECTION SYSTEM (LCS) AT TOE OF SIDE SLOPE INCLUDING PERFORATED PIPE AND STONE COLUMN (SEE DWG. H1C11155A)
859 L.F. PRIMARY LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) SHALL FOLLOW CONTOURS OF BASE GRADES (SEE DWG. H1C11155A)
948 L.F. PRIMARY LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) SHALL FOLLOW CONTOURS OF BASE GRADES (SEE DWG. H1C11155A)
850 L.F. PRIMARY LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) SHALL FOLLOW CONTOURS OF BASE GRADES (SEE DWG. H1C11155A)
PROPOSED LEACHATE CLEANOUT (TYP.) (SEE DWG. H1C11155A)
716 L.F. LEACHATE COLLECTION SYSTEM (LCS) AT TOE OF SIDE SLOPE INCLUDING PERFORATED PIPE AND STONE COLUMN (SEE DWG. H1C11155A)
PROPOSED CELL 1 LEACHATE SUMP AND SUMP ASSEMBLY BOTTOM ELEV. 736.42 (SEE DWG. H1C11155B)
776 L.F. PRIMARY LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) SHALL FOLLOW CONTOURS OF BASE GRADES (SEE DWG. H1C11155A)
SECONDARY LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) (TYP.) (SEE DWG. H1C11155A)
LIMITS OF WASTE
2,153 L.F. LEACHATE COLLECTION SYSTEM (LCS) AT TOE OF SIDE SLOPE INCLUDING PERFORATED PIPE AND STONE COLUMN (SEE DWG. H1C11155A)
200' UNDISTURBED BUFFER
200' SITE BUFFER
500' WASTE LIMIT
℄ 30' ROAD
WOODED
279 L.F. @ -0.6%
22 L.F.
151 L.F. @ -1.0%
18 L.F.
60 L.F.
29 L.F. @ -1.4%
311 L.F. @ -0.86%
235 L.F. @ -0.7%
69 L.F.
172 L.F. @ -0.4%
58 L.F.
417 L.F. @ -0.86%
16 L.F.
221 L.F. @ -0.3%
101 L.F. @ -0.3%
16 L.F.
144 L.F. @ -0.3%
200 L.F. @ -0.3%
150 L.F. @ -0.4%
99 L.F. @ -0.86%
166 L.F. @ -0.3%
157 L.F. @ -1.1%
53 L.F. @ -1.6%
78 L.F.
13 L.F. @ -2.5%
60 L.F. @ -1.6%
110 L.F.
65 L.F. @ -1.6%
66 L.F. @ -1.6%
19 L.F.
17 L.F.
78 L.F. @ -0.3%
215 L.F. @ -0.3%
14 L.F.
30 L.F. @ -0.3%
70 L.F. @ -0.96%
34 L.F. @ -0.3%
83 L.F. @ -0.3%
80 L.F. @ -0.3%
67 L.F. @ -0.3%
82 L.F.
154 L.F. @ -1.0%
295 L.F. @ -0.4%
365 L.F. @ -0.4%
143 L.F. @ -0.4%
76 L.F. @ -0.4%
295 L.F. @ -0.6%
349 L.F. @ -0.6%
487 L.F. @ -1.5%
628 L.F. @ -1.3%
767 L.F. @ -0.7%
765 L.F. @ -0.7%
763 L.F. @ -0.7%
322 L.F. @ -0.7%
435 L.F. @ -0.7%
545 L.F. @ -0.7%
268 L.F. @ -0.3%
121 L.F. @ -0.3%
187 L.F. @ -0.3%
320 L.F. @ -0.3%
L1
L2
L3
L4
L5
L6
L7
L8
L9
L10
L11
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N
STATE PLANE

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2025.10.27 08:45:43 -04'00'

REFERENCE DRAWINGS:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11155	GENERAL SITE DEVELOPMENT, CELL NO. 3, LEACHATE COLLECTION SYSTEM LAYOUT & DETAILS

LEGEND:

▬ ▪ ▪ ▬ ▪ ▪	PROPERTY LINE
▬ ▬ ▬	SITE BOUNDARY
▪▪▪▪▪▪	200' SITE BUFFER
▬ ▬ ▬	500' WASTE LIMIT
— ··· — ···	PERENNIAL/INTERMITTENT STREAMS
—··· —···	EPHEMERAL STREAMS
— - — -	25' STREAM BUFFER
▨	WETLANDS
- - - 700 - - -	EXISTING GROUND CONTOURS
—— 700 ——	EXISTING BASE GRADES
▬ ▬ ▬	LIMITS OF WASTE
▪ ▪L▪ ▪L	PRIMARY LEACHATE COLLECTION AND REMOVAL S
▬L▬L▬	SECONDARY LEACHATE COLLECTION AND REMOVA
——L——L——	SOLID LEACHATE CLEANOUT PIPE
——FM——FM——	LEACHATE FORCE MAIN
▣	LEACHATE CLEANOUT
●	LEACHATE SUMP
⊕	GRADE BREAK

LEACHATE COLLECTION AND REMOVAL SYSTEM

PIPE NO.	LEACHATE PIPE			
	SOLID PIPE DIAMETER			PERFORATED PIPE DIA.
	3"	8"	24"	24"
L1	–	78'	–	–
L2	–	82'	–	–
L3	–	57'	–	–
L4	–	51'	–	–
L5	–	44'	–	–
L6	(2) 47'	(3) 38'	(2) 38'	(2) 9'
L7	–	43'	–	–
L8	–	37'	–	–
L9	–	42'	–	–
L10	–	46'	–	–
L11	–	28'	–	–
L12	–	37'	–	–
L13	–	47'	–	–
L14	–	32'	–	–
L15	–	23'	–	–
L16	–	25'	–	–
L17	–	25'	–	–
L18	–	25'	–	–
L19	–	26'	–	–
L20	–	29'	–	–
L21	–	31'	–	–
L22	–	38'	–	–
L23	(2) 47'	(3) 38'	(2) 38'	*(2) 9'
L24	–	56'	–	–

GARY H. McWHORTER
No. 12687
Gary H McWhorter 10/21/25

R. BRANT LANE
NO. 27185
10/21/25

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

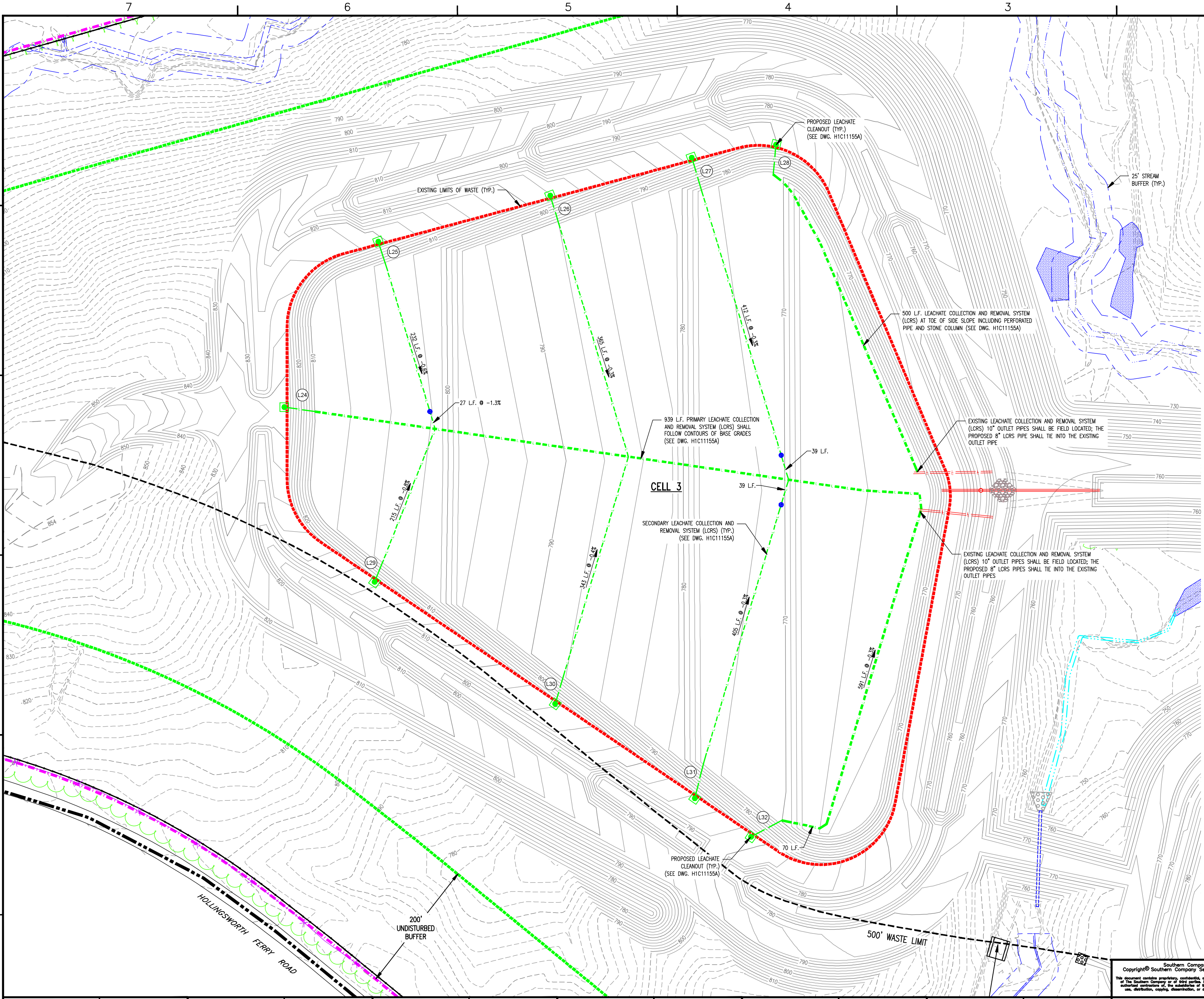
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
GENERAL SITE DEVELOPMENT
CELL NO. 1 AND CELL NO. 2
LEACHATE COLLECTION SYSTEM LAYOUT

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
4	10-21-2025	REVISION TO DUAL CONTAINED FORCE MAIN SIZE AND OUTLET LOCATION [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
3	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM AND UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
2	01-08-2024	ADD LEACHATE SUMP AND CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
1	8-30-2023	REVISED PROPERTY BUFFER AND BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	01-08-2024	OPTIONAL CCR PASTE OPERATIONOS [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=200'	H1C11153	1	FINAL	4

Acad2008 ANSI F: 40x28


PROPOSED LEACHATE CLEANOUT (TYP.) (SEE DWG. H1C11155A)
EXISTING LIMITS OF WASTE (TYP.)
25' STREAM BUFFER (TYP.)
L24
L25
L26
L27
L28
L29
L30
L31
L32
232 L.F. @ -0.6%
365 L.F. @ -0.3%
412 L.F. @ -0.3%
27 L.F. @ -1.3%
215 L.F. @ -0.8%
343 L.F. @ -0.4%
405 L.F. @ -0.3%
591 L.F. @ -0.3%
39 L.F.
39 L.F.
70 L.F.
500 L.F. LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) AT TOE OF SIDE SLOPE INCLUDING PERFORATED PIPE AND STONE COLUMN (SEE DWG. H1C11155A)
939 L.F. PRIMARY LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) SHALL FOLLOW CONTOURS OF BASE GRADES (SEE DWG. H1C11155A)
CELL 3
SECONDARY LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) (TYP.) (SEE DWG. H1C11155A)
EXISTING LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) 10" OUTLET PIPES SHALL BE FIELD LOCATED; THE PROPOSED 8" LCRS PIPE SHALL TIE INTO THE EXISTING OUTLET PIPE
EXISTING LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) 10" OUTLET PIPES SHALL BE FIELD LOCATED; THE PROPOSED 8" LCRS PIPES SHALL TIE INTO THE EXISTING OUTLET PIPES
PROPOSED LEACHATE CLEANOUT (TYP.) (SEE DWG. H1C11155A)
200' UNDISTURBED BUFFER
HOLLINGSWORTH FERRY ROAD
500' WASTE LIMIT

LEGND:

▬ ▬ ▬	PROPERTY LINE
▬ · ▬ · ▬	SITE BOUNDARY
▬▬▬▬	200' SITE BUFFER
▬ ▬ ▬ ▬	500' WASTE LIMIT
—··—··—	PERENNIAL/INTERMITTENT STREAMS
—·-·—·-·—	EPHEMERAL STREAMS
— — —	25' STREAM BUFFER
▨	WETLANDS
— — 700 — —	EXISTING GROUND CONTOURS
—— 700 ——	EXISTING BASE GRADES
🟥 🟥 🟥	LIMITS OF WASTE
▬ ▬ L ▬ ▬ L ▬	PRIMARY LEACHATE COLLECTION AND REMOVAL SYSTEM
— — L — — L —	SECONDARY LEACHATE COLLECTION AND REMOVAL SYSTEM
—— L —— L ——	SOLID LEACHATE CLEANOUT PIPE
🟩	LEACHATE CLEANOUT
●	GRADE BREAK

LEACHATE COLLECTION AND REMOVAL SYSTEM

LEACHATE PIPE	
PIPE NO.	SOLID PIPE DIAMETER
	8"
L24	47'
L25	34'
L26	45'
L27	54'
L28	45'
L29	32'
L30	44'
L31	55'
L32	53'

NOTES:

1. SEE NOTE 3 ON DRAWING H1C11122 FOR THE REFERENCE TO DELINEATED STREAMS AND WETLAND INFORMATION.
2. SEE DRAWING H1C11155A AND H1C11155B FOR LEACHATE COLLECTION SYSTEM DETAILS.
3. GRADES SHOWN IN PLAN REPRESENT TOP OF 24" CLAY/SILT LAYER. NOTE THAT CELL BOTTOMS SHALL RECEIVE A 2 FOOT THICK SAND FILTER LAYER AND CELL SIDES SHALL RECEIVE A 1 FOOT THICK SAND FILTER LAYER UNDER A 1 FOOT THICK STONE COVER LAYER AS SHOWN IN DETAILS ON DRAWING H1C11155.
4. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF-SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.

REFERENCE DRAWINGS:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11133	CELL NO. 3, BASE GRADING PLAN
H1C11140	CELL 1 THROUGH 3, MISCELLANEOUS SECTIONS
H1C11144	CELL 1 THROUGH 3, MISCELLANEOUS DETAILS
H1C11145	CELL 1 THROUGH 3, MISCELLANEOUS DETAILS
H1C11153	CELL NO. 1 AND CELL NO. 2, LEACHATE COLLECTION SYSTEM LAYOUT
H1C11155A	CELL 1 THROUGH CELL 3, LEACHATE COLLECTION SYSTEM DETAILS

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli

STATE PLANE

NO. 27185
R. BRANT LANE
10/18/24

No. 12687
GARY H. McWHORTER
10/18/24

GRAPHIC SCALE
60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

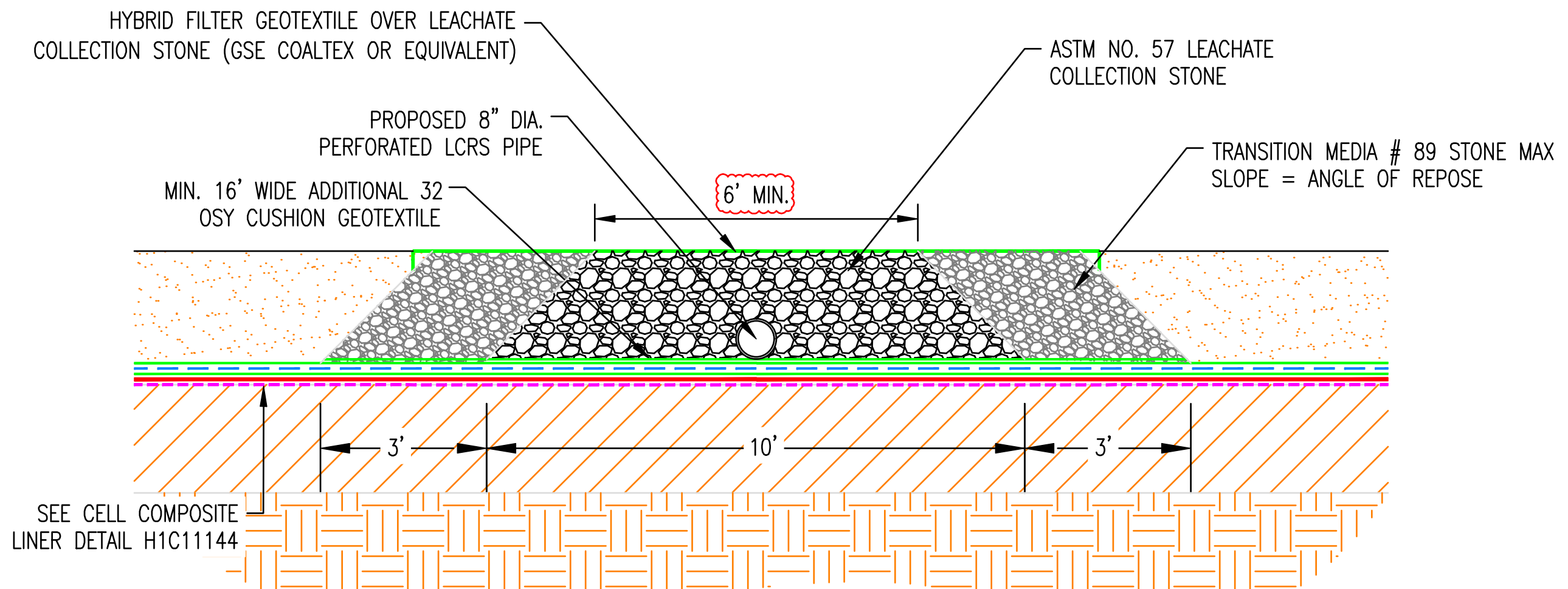
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
GENERAL SITE DEVELOPMENT
3
CELL NO. 3
LEACHATE COLLECTION SYSTEM LAYOUT

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=60'	H1C11155	1	FINAL	3

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
3	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM AND UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
2	01-08-2024	CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
1	10-10-2023	REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

Acad2008 ANSI F: 40x28

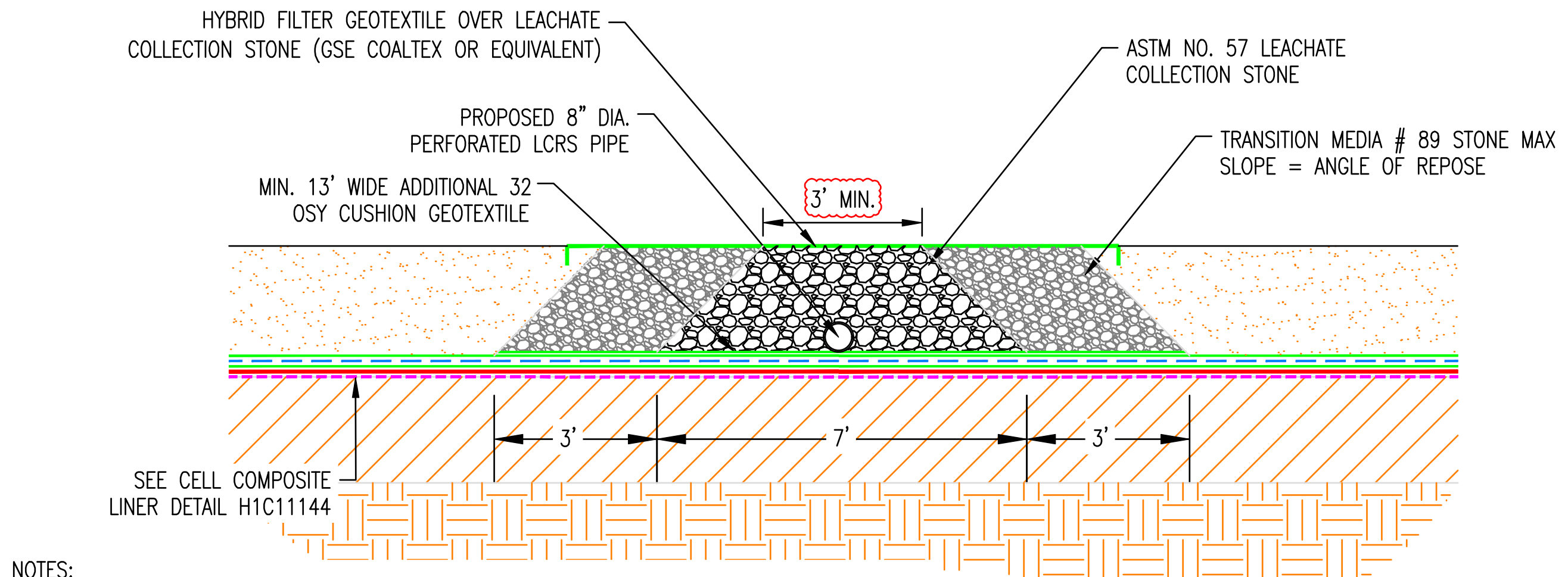

HYBRID FILTER GEOTEXTILE OVER LEACHATE COLLECTION STONE (GSE COALTEX OR EQUIVALENT)
ASTM NO. 57 LEACHATE COLLECTION STONE
PROPOSED 8" DIA. PERFORATED LCRS PIPE
TRANSITION MEDIA # 89 STONE MAX SLOPE = ANGLE OF REPOSE
MIN. 16' WIDE ADDITIONAL 32 OSY CUSHION GEOTEXTILE
6' MIN.
3'
10'
3'
SEE CELL COMPOSITE LINER DETAIL H1C11144

NOTES:

1. THE SPECIFIC TRANSITION MEDIA SOILS TO BE UTILIZED WILL PREVENT FINES AND SAND FROM MIGRATING INTO THE ASTM NO. 57 LEACHATE COLLECTION STONE.
2. THE ASTM NO. 57 LEACHATE COLLECTION STONE AND TRANSITION MEDIA #89 STONE ANGLE OF REPOSE MAY BE INVERTED AT OWNER'S DISCRETION.
3. A SACRIFICIAL 6 OSY NON–WOVEN GEOTEXTILE MAY BE PLACED OVER THE TOP OF THE PROPOSED GEOTEXTILES FOR UV PROTECTION AS NEEDED.

PRIMARY LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS)

N.T.S.

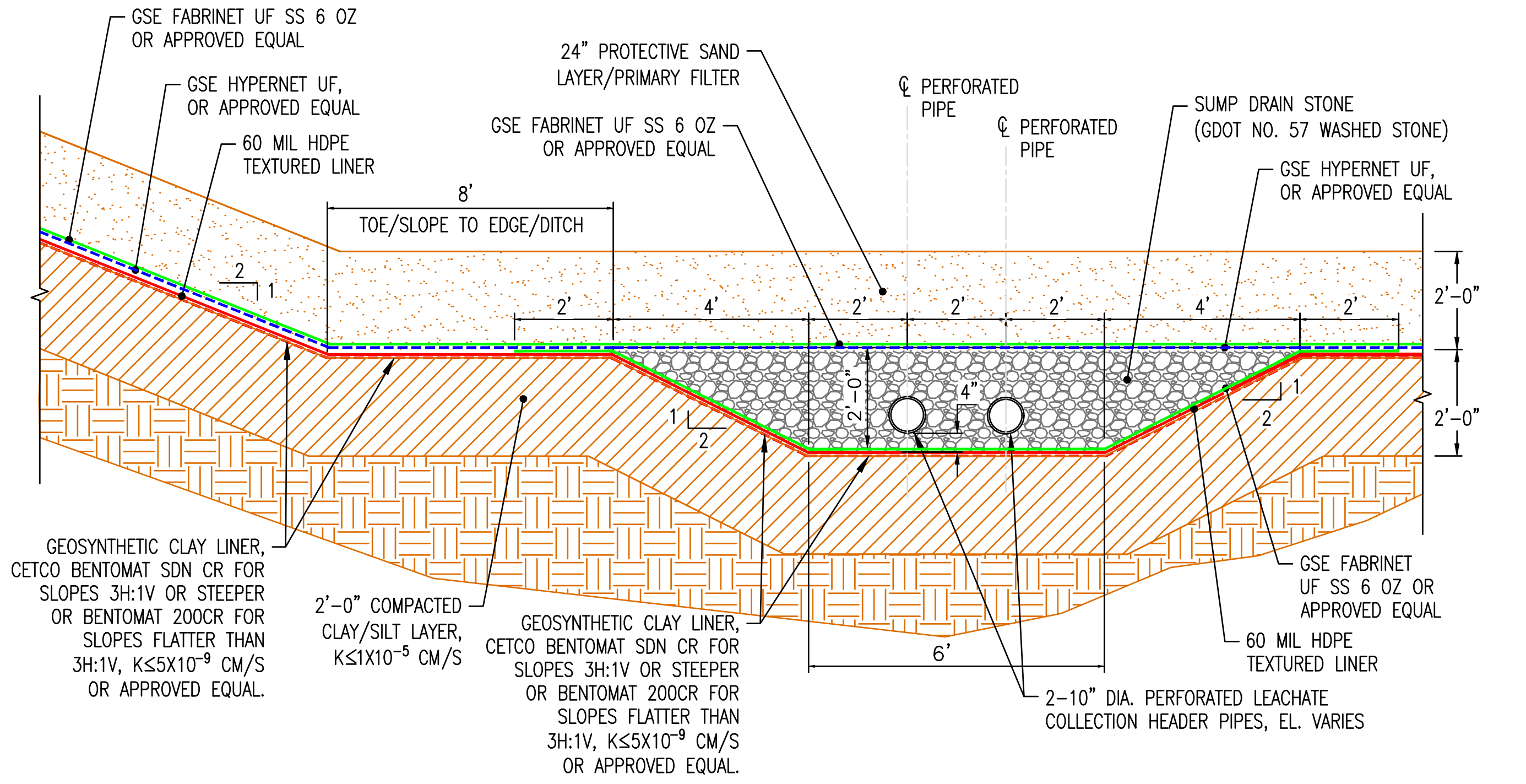

HYBRID FILTER GEOTEXTILE OVER LEACHATE COLLECTION STONE (GSE COALTEX OR EQUIVALENT)
ASTM NO. 57 LEACHATE COLLECTION STONE
PROPOSED 8" DIA. PERFORATED LCRS PIPE
TRANSITION MEDIA # 89 STONE MAX SLOPE = ANGLE OF REPOSE
MIN. 13' WIDE ADDITIONAL 32 OSY CUSHION GEOTEXTILE
3' MIN.
3'
7'
3'
SEE CELL COMPOSITE LINER DETAIL H1C11144

NOTES:

1. THE SPECIFIC TRANSITION MEDIA SOILS TO BE UTILIZED WILL PREVENT FINES AND SAND FROM MIGRATING INTO THE ASTM NO. 57 LEACHATE COLLECTION STONE.
2. THE ASTM NO. 57 LEACHATE COLLECTION STONE AND TRANSITION MEDIA #89 STONE ANGLE OF REPOSE MAY BE INVERTED AT OWNER'S DISCRETION.
2. A SACRIFICIAL 6 OSY NON–WOVEN GEOTEXTILE MAY BE PLACED OVER THE TOP OF THE PROPOSED GEOTEXTILES FOR UV PROTECTION AS NEEDED.

SECONDARY LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS)

N.T.S.

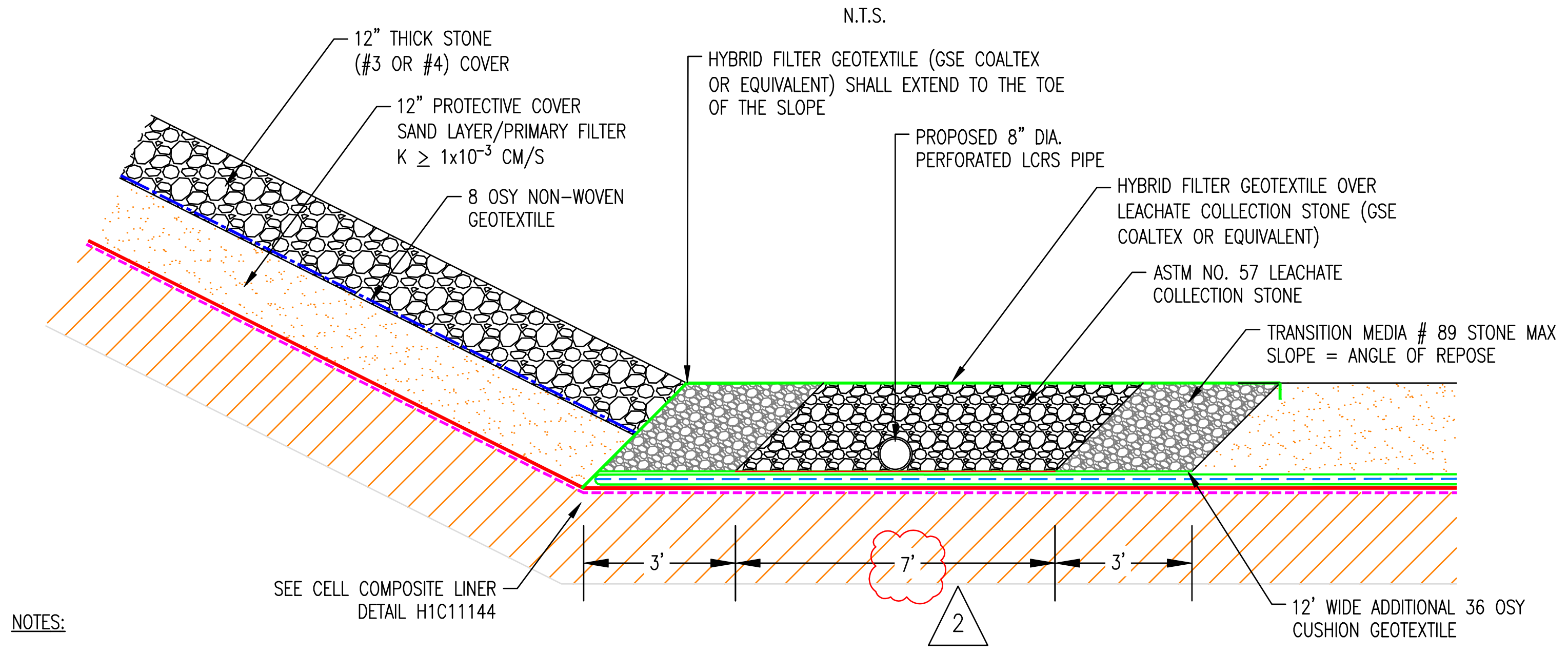

GSE FABRINET UF SS 6 OZ OR APPROVED EQUAL
GSE HYPERNET UF, OR APPROVED EQUAL
60 MIL HDPE TEXTURED LINER
24" PROTECTIVE SAND LAYER/PRIMARY FILTER
GSE FABRINET UF SS 6 OZ OR APPROVED EQUAL
℄ PERFORATED PIPE
℄ PERFORATED PIPE
SUMP DRAIN STONE (GDOT NO. 57 WASHED STONE)
GSE HYPERNET UF, OR APPROVED EQUAL
8'
TOE/SLOPE TO EDGE/DITCH
2
1
2'
4'
2'
2'
2'
4'
2'
2'–0"
2'–0"
2'–0"
4"
1
2
1
2
6'
GEOSYNTHETIC CLAY LINER, CETCO BENTOMAT SDN CR FOR SLOPES 3H:1V OR STEEPER OR BENTOMAT 200CR FOR SLOPES FLATTER THAN 3H:1V, K≤5X10^{-9} CM/S OR APPROVED EQUAL.
2'–0" COMPACTED CLAY/SILT LAYER, K≤1X10^{-5} CM/S
GEOSYNTHETIC CLAY LINER, CETCO BENTOMAT SDN CR FOR SLOPES 3H:1V OR STEEPER OR BENTOMAT 200CR FOR SLOPES FLATTER THAN 3H:1V, K≤5X10^{-9} CM/S OR APPROVED EQUAL.
GSE FABRINET UF SS 6 OZ OR APPROVED EQUAL
60 MIL HDPE TEXTURED LINER
2–10" DIA. PERFORATED LEACHATE COLLECTION HEADER PIPES, EL. VARIES

NOTE(S):

1. ALL EXISTING LINER COMPONENTS ABOVE THE COMPACTED CLAY/SILT LAYER SHALL BE REMOVED AND APPROPRIATELY DISPOSED.
2. ALL LEACHATE COLLECTION AND REMOVAL SYSTEM COMPONENTS SHALL BE REMOVED AND APPROPRIATELY DISPOSED.
3. EXISTING TRENCHES WILL BE BACKFILLED IN LIFTS WITH COMPACTED CLAY/SILT LAYER, $K < 1X10^{-5}$ CM/S. EACH LIFT SHALL BE BENCHED INTO THE TRENCH SIDEWALL A MINIMUM DISTANCE OF 12".
4. THESE NOTES APPLY TO ALL EXISTING LEACHATE COLLECTION AND REMOVAL SYSTEM TRENCHES, BOTH SINGLE PIPE AND DOUBLE PIPE.

LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER – DOUBLE PIPE DETAIL

N.T.S.

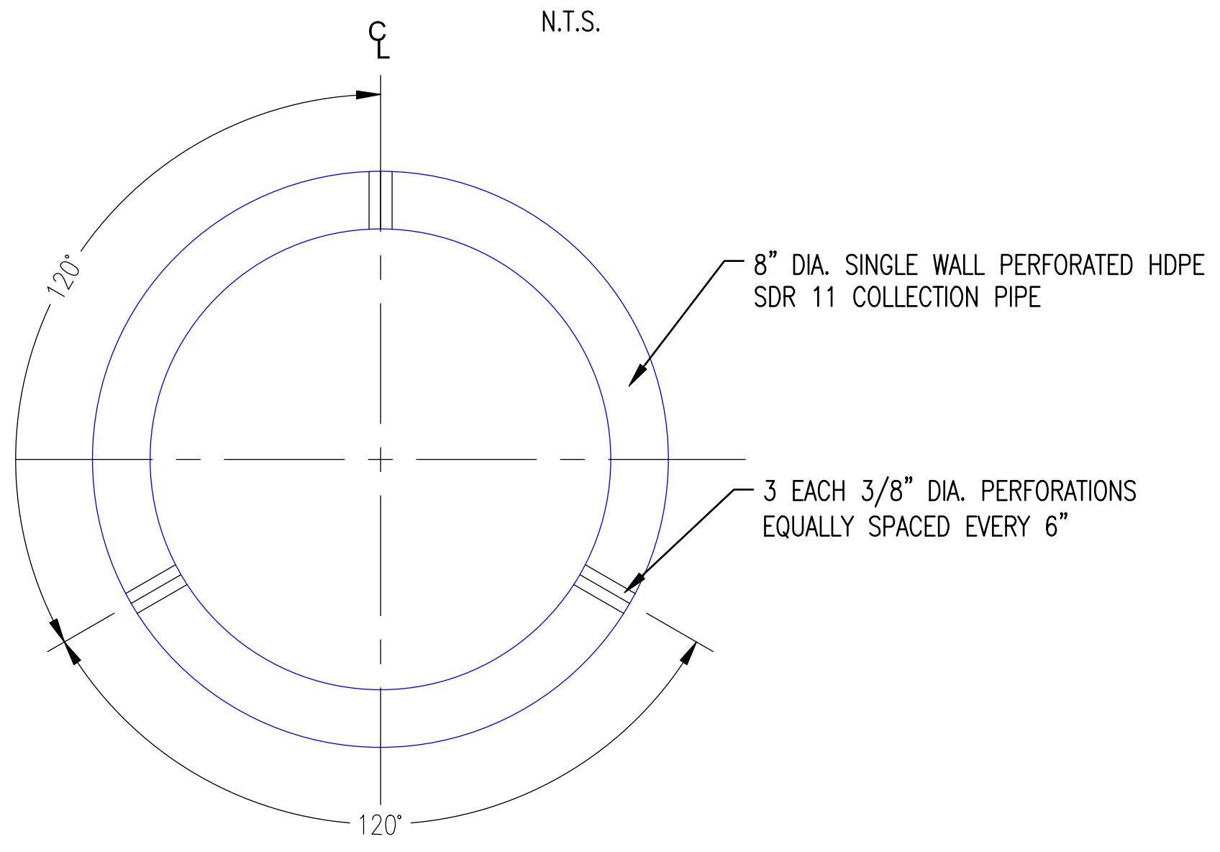

12" THICK STONE (#3 OR #4) COVER
12" PROTECTIVE COVER SAND LAYER/PRIMARY FILTER K ≥ 1x10^{-3} CM/S
8 OSY NON–WOVEN GEOTEXTILE
HYBRID FILTER GEOTEXTILE (GSE COALTEX OR EQUIVALENT) SHALL EXTEND TO THE TOE OF THE SLOPE
PROPOSED 8" DIA. PERFORATED LCRS PIPE
HYBRID FILTER GEOTEXTILE OVER LEACHATE COLLECTION STONE (GSE COALTEX OR EQUIVALENT)
ASTM NO. 57 LEACHATE COLLECTION STONE
TRANSITION MEDIA # 89 STONE MAX SLOPE = ANGLE OF REPOSE
3'
7'
3'
2
SEE CELL COMPOSITE LINER DETAIL H1C11144
12' WIDE ADDITIONAL 36 OSY CUSHION GEOTEXTILE

NOTES:

1. THE SPECIFIC TRANSITION MEDIA SOILS TO BE UTILIZED WILL PREVENT FINES AND SAND FROM MIGRATING INTO THE ASTM NO. 57 LEACHATE COLLECTION STONE.
2. THE ASTM NO. 57 LEACHATE COLLECTION STONE AND TRANSITION MEDIA #89 STONE ANGLE OF REPOSE MAY BE INVERTED AT OWNER'S DISCRETION.
2. A SACRIFICIAL 6 OSY NON–WOVEN GEOTEXTILE MAY BE PLACED OVER THE TOP OF THE PROPOSED GEOTEXTILES FOR UV PROTECTION AS NEEDED.

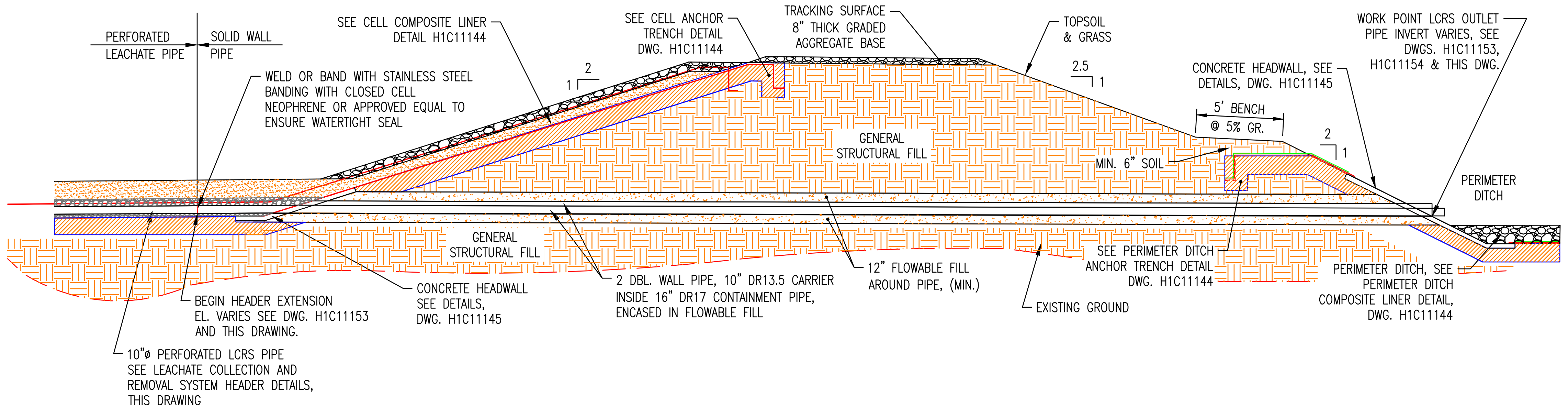
LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) LOCATED AT TOE OF SIDE SLOPE

N.T.S.


℄
120°
120°
8" DIA. SINGLE WALL PERFORATED HDPE SDR 11 COLLECTION PIPE
3 EACH 3/8" DIA. PERFORATIONS EQUALLY SPACED EVERY 6"

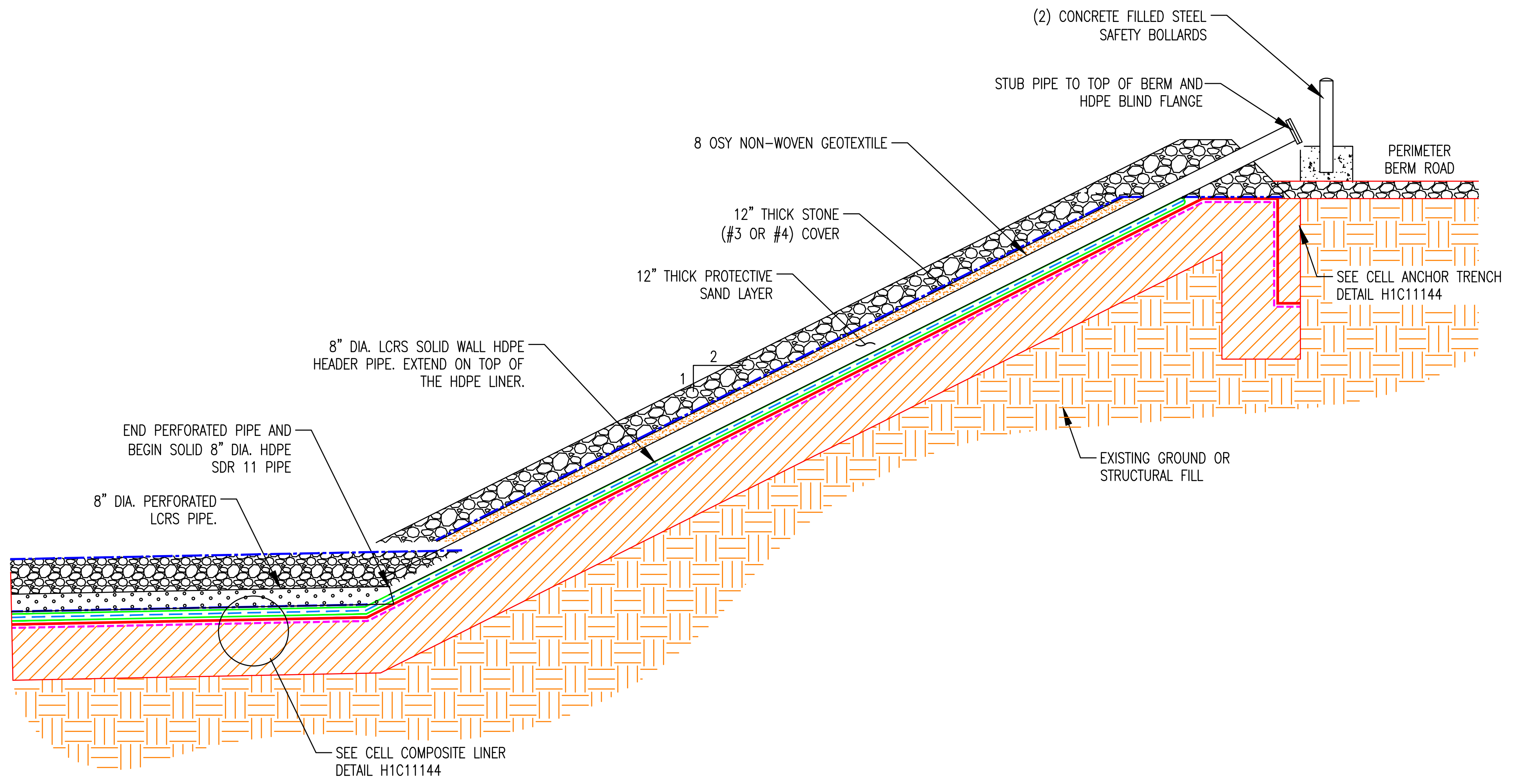
8" DIA. HDPE SDR 11 PERFORATED PIPE DETAIL

N.T.S.


PERFORATED LEACHATE PIPE
SOLID WALL PIPE
SEE CELL COMPOSITE LINER DETAIL H1C11144
SEE CELL ANCHOR TRENCH DETAIL DWG. H1C11144
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
TOPSOIL & GRASS
WORK POINT LCRS OUTLET PIPE INVERT VARIES, SEE DWGS. H1C11153, H1C11154 & THIS DWG.
CONCRETE HEADWALL, SEE DETAILS, DWG. H1C11145
WELD OR BAND WITH STAINLESS STEEL BANDING WITH CLOSED CELL NEOPHRENE OR APPROVED EQUAL TO ENSURE WATERTIGHT SEAL
2
1
2.5
1
5' BENCH @ 5% GR.
2
1
GENERAL STRUCTURAL FILL
MIN. 6" SOIL
PERIMETER DITCH
GENERAL STRUCTURAL FILL
SEE PERIMETER DITCH ANCHOR TRENCH DETAIL DWG. H1C11144
PERIMETER DITCH, SEE PERIMETER DITCH COMPOSITE LINER DETAIL, DWG. H1C11144
BEGIN HEADER EXTENSION EL. VARIES SEE DWG. H1C11153 AND THIS DRAWING.
CONCRETE HEADWALL SEE DETAILS, DWG. H1C11145
2 DBL. WALL PIPE, 10" DR13.5 CARRIER INSIDE 16" DR17 CONTAINMENT PIPE, ENCASED IN FLOWABLE FILL
12" FLOWABLE FILL AROUND PIPE, (MIN.)
EXISTING GROUND
10"ø PERFORATED LCRS PIPE SEE LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER DETAILS, THIS DRAWING

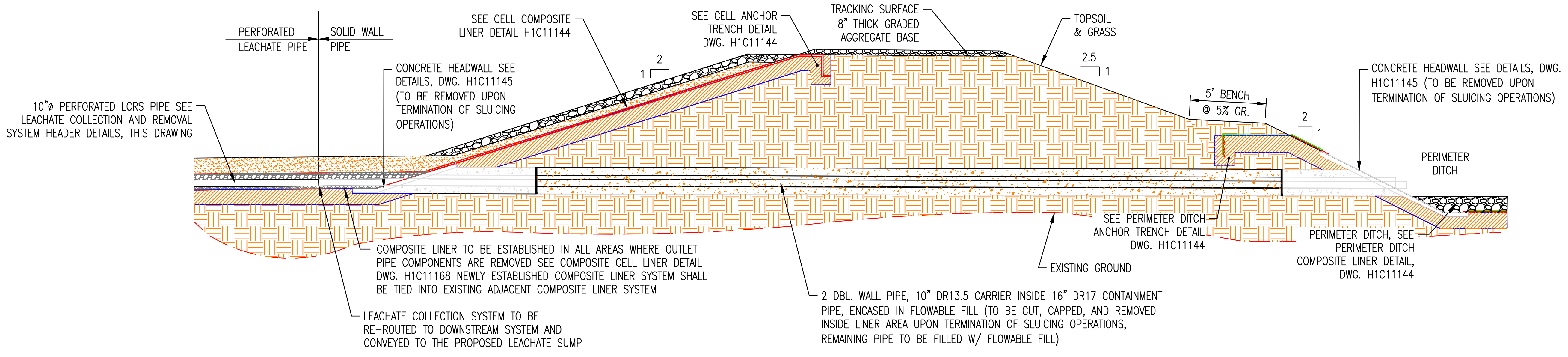
LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) OUTLET PIPE SECTION (CELL 3)

N.T.S.


(2) CONCRETE FILLED STEEL SAFETY BOLLARDS
STUB PIPE TO TOP OF BERM AND HDPE BLIND FLANGE
8 OSY NON–WOVEN GEOTEXTILE
PERIMETER BERM ROAD
12" THICK STONE (#3 OR #4) COVER
SEE CELL ANCHOR TRENCH DETAIL H1C11144
12" THICK PROTECTIVE SAND LAYER
8" DIA. LCRS SOLID WALL HDPE HEADER PIPE. EXTEND ON TOP OF THE HDPE LINER.
2
1
END PERFORATED PIPE AND BEGIN SOLID 8" DIA. HDPE SDR 11 PIPE
EXISTING GROUND OR STRUCTURAL FILL
8" DIA. PERFORATED LCRS PIPE.
SEE CELL COMPOSITE LINER DETAIL H1C11144

LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) PIPE CLEANOUT

N.T.S.


PERFORATED LEACHATE PIPE
SOLID WALL PIPE
SEE CELL COMPOSITE LINER DETAIL H1C11144
SEE CELL ANCHOR TRENCH DETAIL DWG. H1C11144
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
TOPSOIL & GRASS
2
1
2.5
1
CONCRETE HEADWALL SEE DETAILS, DWG. H1C11145 (TO BE REMOVED UPON TERMINATION OF SLUICING OPERATIONS)
10"ø PERFORATED LCRS PIPE SEE LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER DETAILS, THIS DRAWING
5' BENCH @ 5% GR.
2
1
CONCRETE HEADWALL SEE DETAILS, DWG. H1C11145 (TO BE REMOVED UPON TERMINATION OF SLUICING OPERATIONS)
PERIMETER DITCH
SEE PERIMETER DITCH ANCHOR TRENCH DETAIL DWG. H1C11144
PERIMETER DITCH, SEE PERIMETER DITCH COMPOSITE LINER DETAIL, DWG. H1C11144
EXISTING GROUND
COMPOSITE LINER TO BE ESTABLISHED IN ALL AREAS WHERE OUTLET PIPE COMPONENTS ARE REMOVED SEE COMPOSITE CELL LINER DETAIL DWG. H1C11168 NEWLY ESTABLISHED COMPOSITE LINER SYSTEM SHALL BE TIED INTO EXISTING ADJACENT COMPOSITE LINER SYSTEM
LEACHATE COLLECTION SYSTEM TO BE RE–ROUTED TO DOWNSTREAM SYSTEM AND CONVEYED TO THE PROPOSED LEACHATE SUMP
2 DBL. WALL PIPE, 10" DR13.5 CARRIER INSIDE 16" DR17 CONTAINMENT PIPE, ENCASED IN FLOWABLE FILL (TO BE CUT, CAPPED, AND REMOVED INSIDE LINER AREA UPON TERMINATION OF SLUICING OPERATIONS, REMAINING PIPE TO BE FILLED W/ FLOWABLE FILL)

NOTES:

1. ALL CCR STRUCTURES TO BE REMOVED WILL BE DISPOSED IN THE CCR LANDFILL, DISPOSED IN AN APPROPRIATE OFF–SITE FACILITY, OR CLEANED AND REUSED OR RECYCLED.
2. OUTLET PIPES MAY BE COMPLETELY REMOVED AT OWNER'S DISCRETION.

LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) OUTLET PIPE SECTION (CELLS 1 AND 2)

N.T.S.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli
Digitally signed by Tammy Buchli Date: 2025.10.27 08:45:43 -04'00'

REFERENCES:

H1C11120	TITLE SHEET AND DRAWING INDEX
H1C11153	GENERAL SITE DEVELOPMENT, CELL NO. 1 AND CELL NO. 2, LEACHATE COLLECTION SYSTEM LAYOUT
H1C11155	GENERAL SITE DEVELOPMENT, CELL NO. 3, LEACHATE COLLECTION SYSTEM LAYOUT
H1C11155B	GENERAL SITE DEVELOPMENT, CELL 1 AND CELL 2, LEACHATE COLLECTION SYSTEM DETAILS
H1C11168	GENERAL SITE DEVELOPMENT, PROPOSED LINER IMPROVEMENT PLAN

GARY H. McWHORTER No. 12687
Gary H McWhorter 10/21/25

R. BRANT LANE NO. 27185
10/21/25

Southern Company Services, Inc.

Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL 1 THROUGH CELL 3
LEACHATE COLLECTION SYSTEM DETAILS

REVISION	DATE		BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
2	10–21–2025	ALLOW FOR COMPLETE REMOVAL OF LEACHATE OUTLET PIPES AND INVERSION OF LCRS STONE CORRIDOR [BY HHNT, INC.]	RSW	RBL					
1	10–18–2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM [BY HHNT, INC.]	RSW	RBL					
0	01–08–2024	CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	**H1C11155A**	1	FINAL	2

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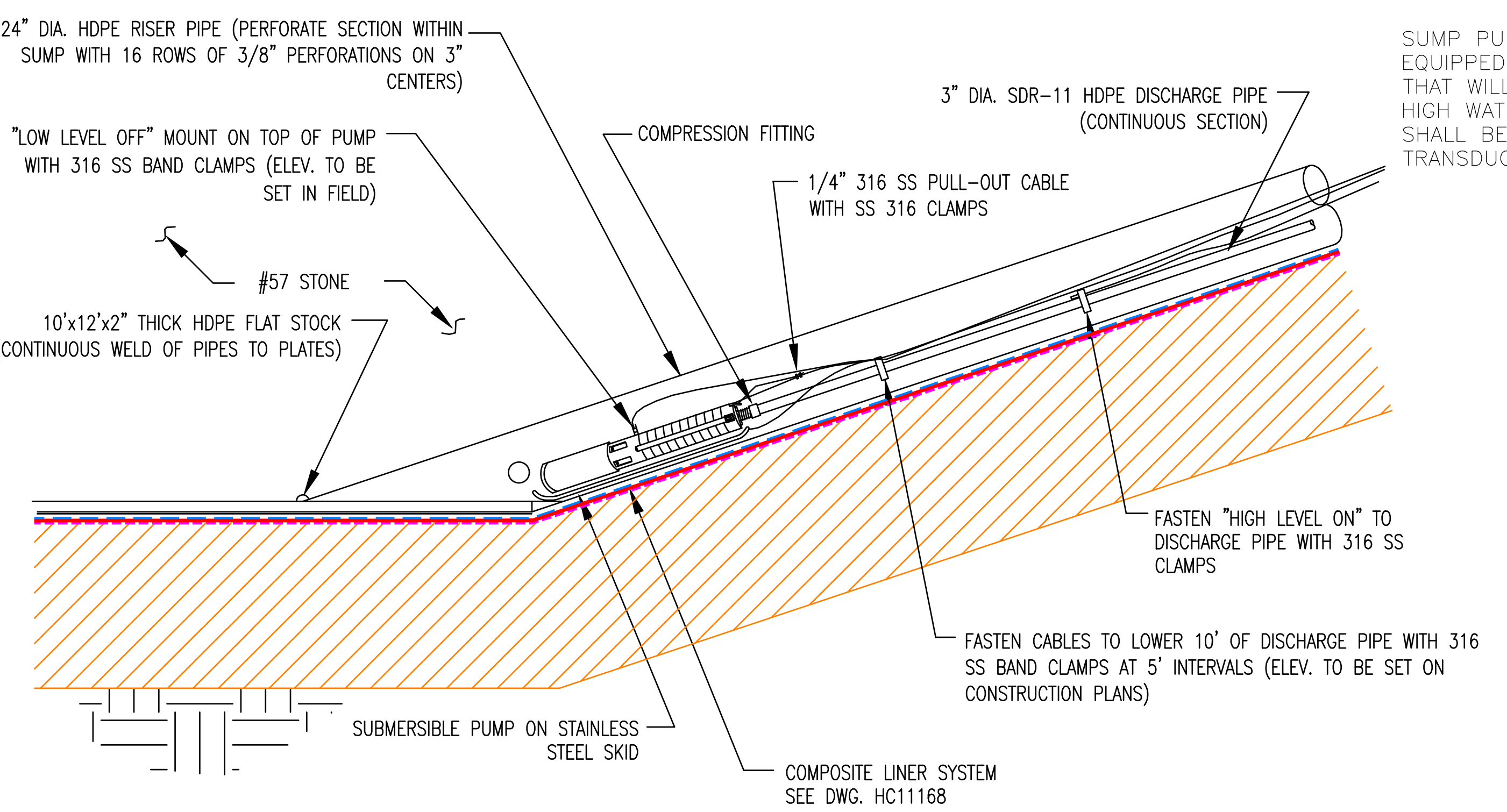
target ZERO Every day, every job, safely.

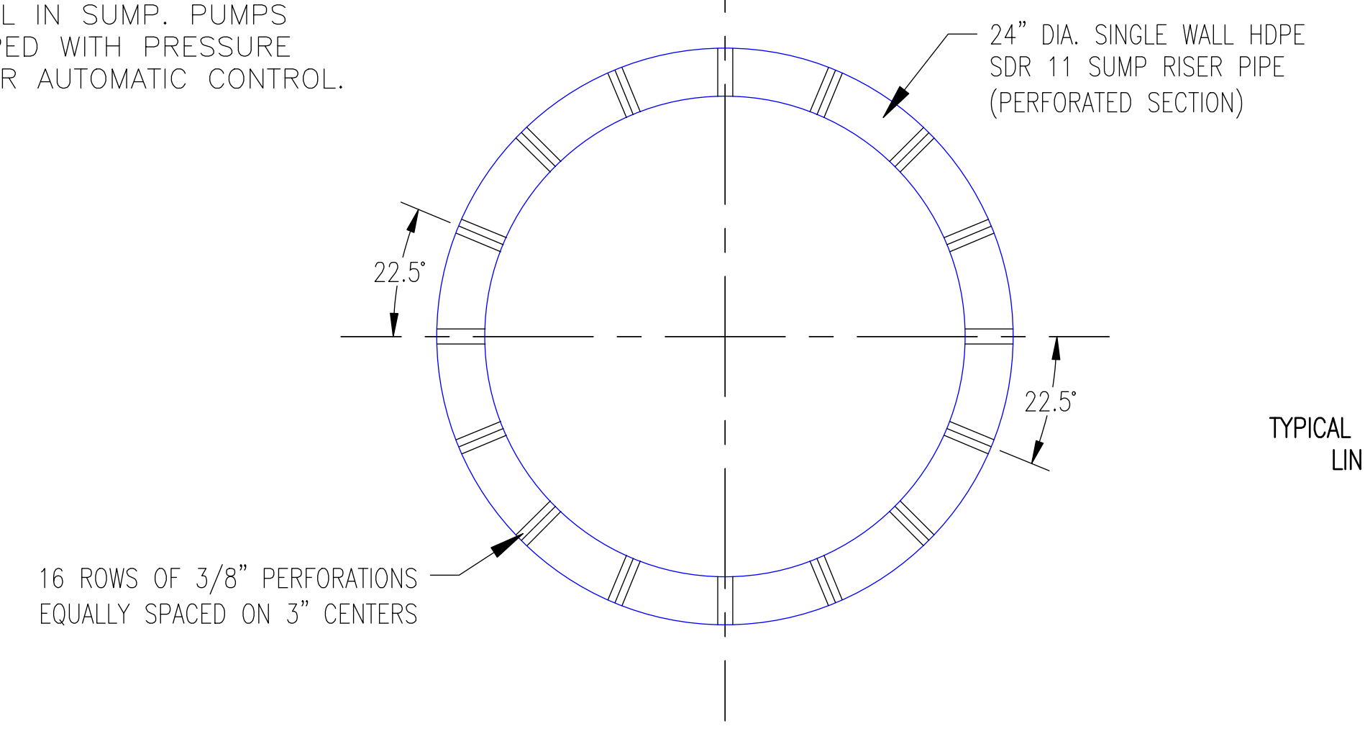

24" DIA. HDPE RISER PIPE (PERFORATE SECTION WITHIN SUMP WITH 16 ROWS OF 3/8" PERFORATIONS ON 3" CENTERS)
"LOW LEVEL OFF" MOUNT ON TOP OF PUMP WITH 316 SS BAND CLAMPS (ELEV. TO BE SET IN FIELD)
COMPRESSION FITTING
3" DIA. SDR-11 HDPE DISCHARGE PIPE (CONTINUOUS SECTION)
1/4" 316 SS PULL-OUT CABLE WITH SS 316 CLAMPS
#57 STONE
10'x12'x2" THICK HDPE FLAT STOCK (CONTINUOUS WELD OF PIPES TO PLATES)
FASTEN "HIGH LEVEL ON" TO DISCHARGE PIPE WITH 316 SS CLAMPS
FASTEN CABLES TO LOWER 10' OF DISCHARGE PIPE WITH 316 SS BAND CLAMPS AT 5' INTERVALS (ELEV. TO BE SET ON CONSTRUCTION PLANS)
SUBMERSIBLE PUMP ON STAINLESS STEEL SKID
COMPOSITE LINER SYSTEM SEE DWG. HC11168

LEACHATE SUMP PUMP

SCALE: N.T.S.

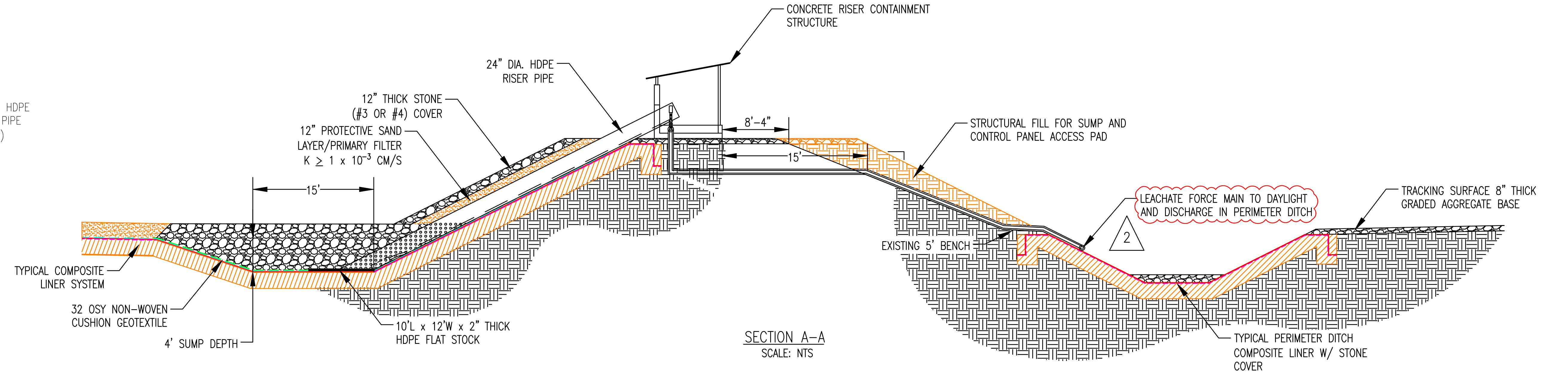
PUMP CONTROLS:

SUMP PUMP SYSTEM SHALL BE EQUIPPED WITH A HIGH WATER ALARM THAT WILL ALERT ONSITE PERSONNEL TO HIGH WATER LEVEL IN SUMP. PUMPS SHALL BE EQUIPPED WITH PRESSURE TRANSDUCERS FOR AUTOMATIC CONTROL.


24" DIA. SINGLE WALL HDPE SDR 11 SUMP RISER PIPE (PERFORATED SECTION)
22.5°
22.5°
16 ROWS OF 3/8" PERFORATIONS EQUALLY SPACED ON 3" CENTERS

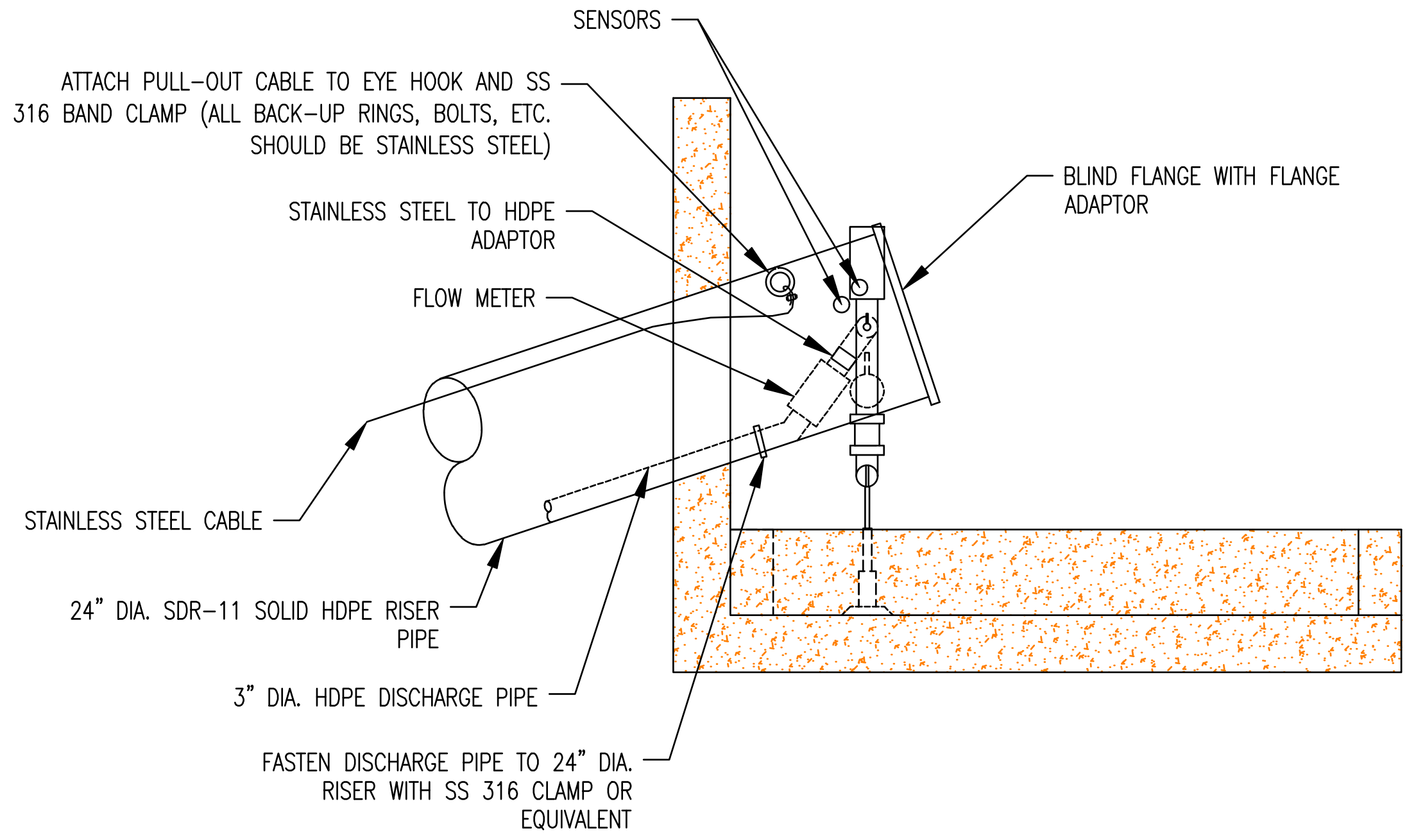
24" DIA. HDPE SDR 11 PERFORATED PIPE DETAIL

SCALE: N.T.S.


CONCRETE RISER CONTAINMENT STRUCTURE
24" DIA. HDPE RISER PIPE
12" THICK STONE (#3 OR #4) COVER
12" PROTECTIVE SAND LAYER/PRIMARY FILTER K ≥ 1 x 10⁻³ CM/S
8'-4"
15'
15'
STRUCTURAL FILL FOR SUMP AND CONTROL PANEL ACCESS PAD
LEACHATE FORCE MAIN TO DAYLIGHT AND DISCHARGE IN PERIMETER DITCH
2
TRACKING SURFACE 8" THICK GRADED AGGREGATE BASE
EXISTING 5' BENCH
TYPICAL COMPOSITE LINER SYSTEM
32 OSY NON-WOVEN CUSHION GEOTEXTILE
4' SUMP DEPTH
10'L x 12'W x 2" THICK HDPE FLAT STOCK
TYPICAL PERIMETER DITCH COMPOSITE LINER W/ STONE COVER

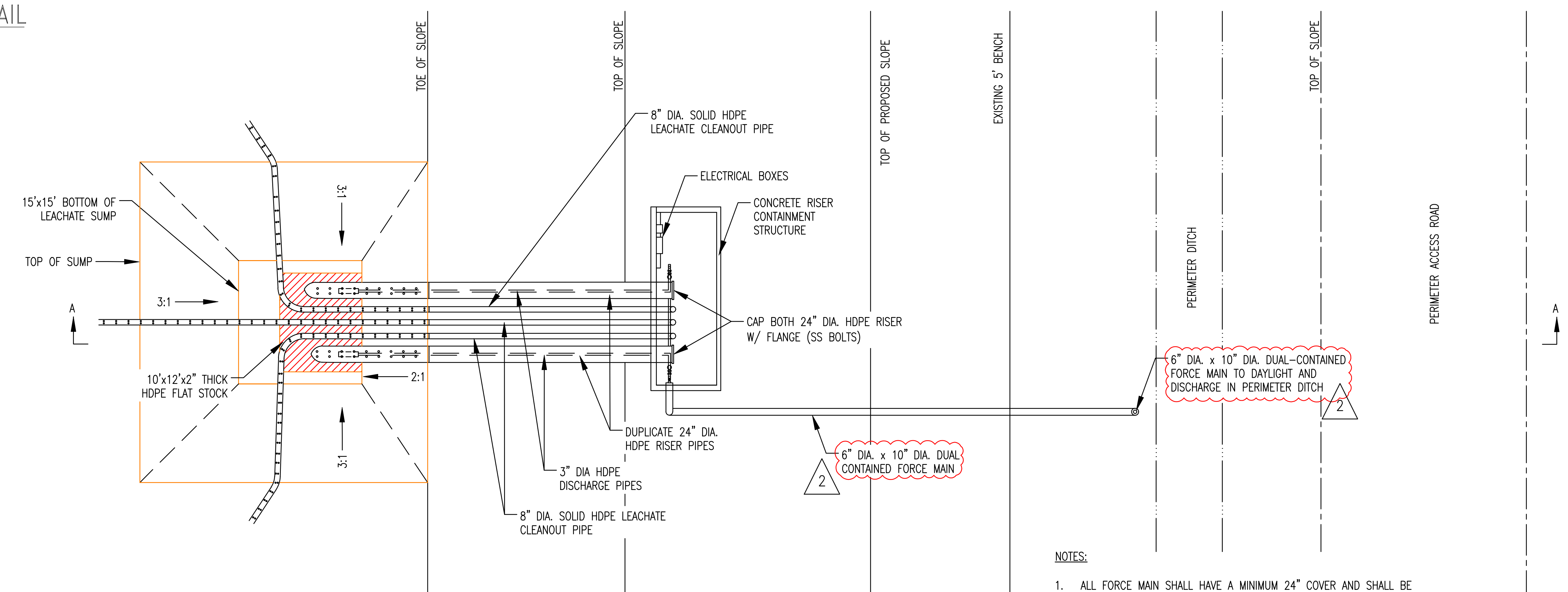
SECTION A-A

SCALE: NTS


SENSORS
ATTACH PULL-OUT CABLE TO EYE HOOK AND SS 316 BAND CLAMP (ALL BACK-UP RINGS, BOLTS, ETC. SHOULD BE STAINLESS STEEL)
BLIND FLANGE WITH FLANGE ADAPTOR
STAINLESS STEEL TO HDPE ADAPTOR
FLOW METER
STAINLESS STEEL CABLE
24" DIA. SDR-11 SOLID HDPE RISER PIPE
3" DIA. HDPE DISCHARGE PIPE
FASTEN DISCHARGE PIPE TO 24" DIA. RISER WITH SS 316 CLAMP OR EQUIVALENT

FORCE MAIN FITTINGS WITH FREEZE PROTECTION

SCALE: N.T.S.


TOE OF SLOPE
TOP OF SLOPE
TOP OF PROPOSED SLOPE
EXISTING 5' BENCH
PERIMETER DITCH
TOP OF SLOPE
PERIMETER ACCESS ROAD
8" DIA. SOLID HDPE LEACHATE CLEANOUT PIPE
ELECTRICAL BOXES
CONCRETE RISER CONTAINMENT STRUCTURE
15'x15' BOTTOM OF LEACHATE SUMP
TOP OF SUMP
3:1
3:1
3:1
2:1
A
A
CAP BOTH 24" DIA. HDPE RISER W/ FLANGE (SS BOLTS)
10'x12'x2" THICK HDPE FLAT STOCK
DUPLICATE 24" DIA. HDPE RISER PIPES
3" DIA HDPE DISCHARGE PIPES
8" DIA. SOLID HDPE LEACHATE CLEANOUT PIPE
6" DIA. x 10" DIA. DUAL CONTAINED FORCE MAIN
2
6" DIA. x 10" DIA. DUAL-CONTAINED FORCE MAIN TO DAYLIGHT AND DISCHARGE IN PERIMETER DITCH
2

CELL / SUMP NO.	TOP ELEV.	BOTTOM ELEV.
1	740.42	736.42
2	744.25	740.25

2

PLAN VIEW

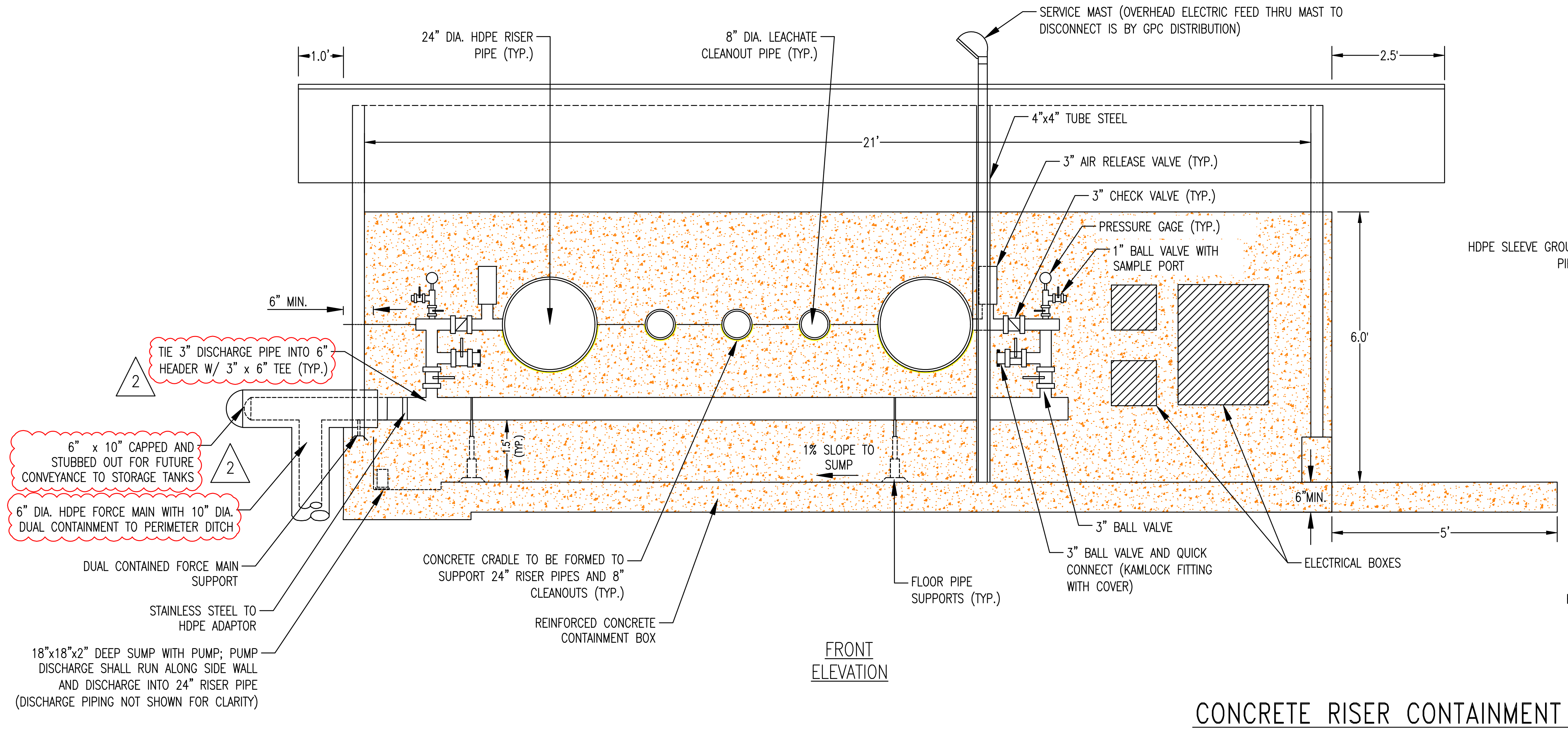
SCALE: NTS

LEACHATE SUMP ASSEMBLY

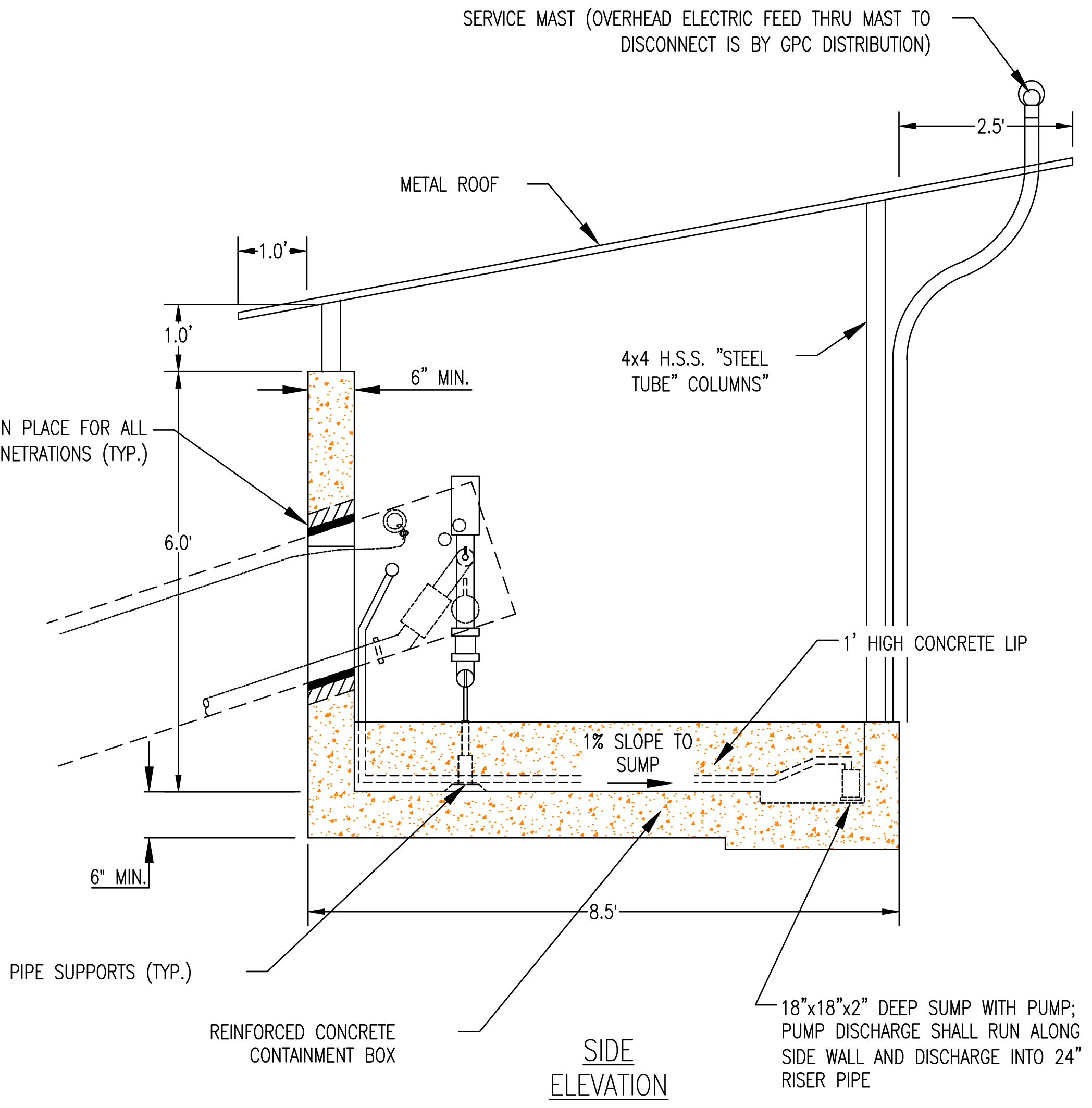
SCALE: NTS

NOTES:

1. ALL FORCE MAIN SHALL HAVE A MINIMUM 24" COVER AND SHALL BE DUAL-CONTAINED.
2. TRACE TAPE SHALL BE PLACED IN ALL LEACHATE FORCE MAIN TRENCHES, 12" BELOW GROUND SURFACE AND DIRECTLY ABOVE PIPE.
3. ENTIRE SUMP SHALL BE FILLED WITH ASTM #57 GRAVEL.
4. A 32 OSY NON-WOVEN CUSHION GEOTEXTILE SHALL BE INSTALLED BELOW ALL NO. 57 STONE WITHIN THE SUMP AREA.


24" DIA. HDPE RISER PIPE (TYP.)
8" DIA. LEACHATE CLEANOUT PIPE (TYP.)
SERVICE MAST (OVERHEAD ELECTRIC FEED THRU MAST TO DISCONNECT IS BY GPC DISTRIBUTION)
1.0'
2.5'
21'
4"x4" TUBE STEEL
3" AIR RELEASE VALVE (TYP.)
3" CHECK VALVE (TYP.)
PRESSURE GAGE (TYP.)
1" BALL VALVE WITH SAMPLE PORT
6" MIN.
6.0'
TIE 3" DISCHARGE PIPE INTO 6" HEADER W/ 3" x 6" TEE (TYP.)
2
6" x 10" CAPPED AND STUBBED OUT FOR FUTURE CONVEYANCE TO STORAGE TANKS
2
6" DIA. HDPE FORCE MAIN WITH 10" DIA. DUAL CONTAINMENT TO PERIMETER DITCH
1.5' (TYP.)
1% SLOPE TO SUMP
6"MIN.
5'
3" BALL VALVE
3" BALL VALVE AND QUICK CONNECT (KAMLOCK FITTING WITH COVER)
ELECTRICAL BOXES
DUAL CONTAINED FORCE MAIN SUPPORT
STAINLESS STEEL TO HDPE ADAPTOR
18"x18"x2" DEEP SUMP WITH PUMP; PUMP DISCHARGE SHALL RUN ALONG SIDE WALL AND DISCHARGE INTO 24" RISER PIPE (DISCHARGE PIPING NOT SHOWN FOR CLARITY)
CONCRETE CRADLE TO BE FORMED TO SUPPORT 24" RISER PIPES AND 8" CLEANOUTS (TYP.)
REINFORCED CONCRETE CONTAINMENT BOX
FLOOR PIPE SUPPORTS (TYP.)

FRONT ELEVATION


SERVICE MAST (OVERHEAD ELECTRIC FEED THRU MAST TO DISCONNECT IS BY GPC DISTRIBUTION)
2.5'
METAL ROOF
1.0'
1.0'
6" MIN.
4x4 H.S.S. "STEEL TUBE" COLUMNS"
HDPE SLEEVE GROUTED IN PLACE FOR ALL PIPE PENETRATIONS (TYP.)
6.0'
1' HIGH CONCRETE LIP
1% SLOPE TO SUMP
6" MIN.
8.5'
FLOOR PIPE SUPPORTS (TYP.)
REINFORCED CONCRETE CONTAINMENT BOX
18"x18"x2" DEEP SUMP WITH PUMP; PUMP DISCHARGE SHALL RUN ALONG SIDE WALL AND DISCHARGE INTO 24" RISER PIPE

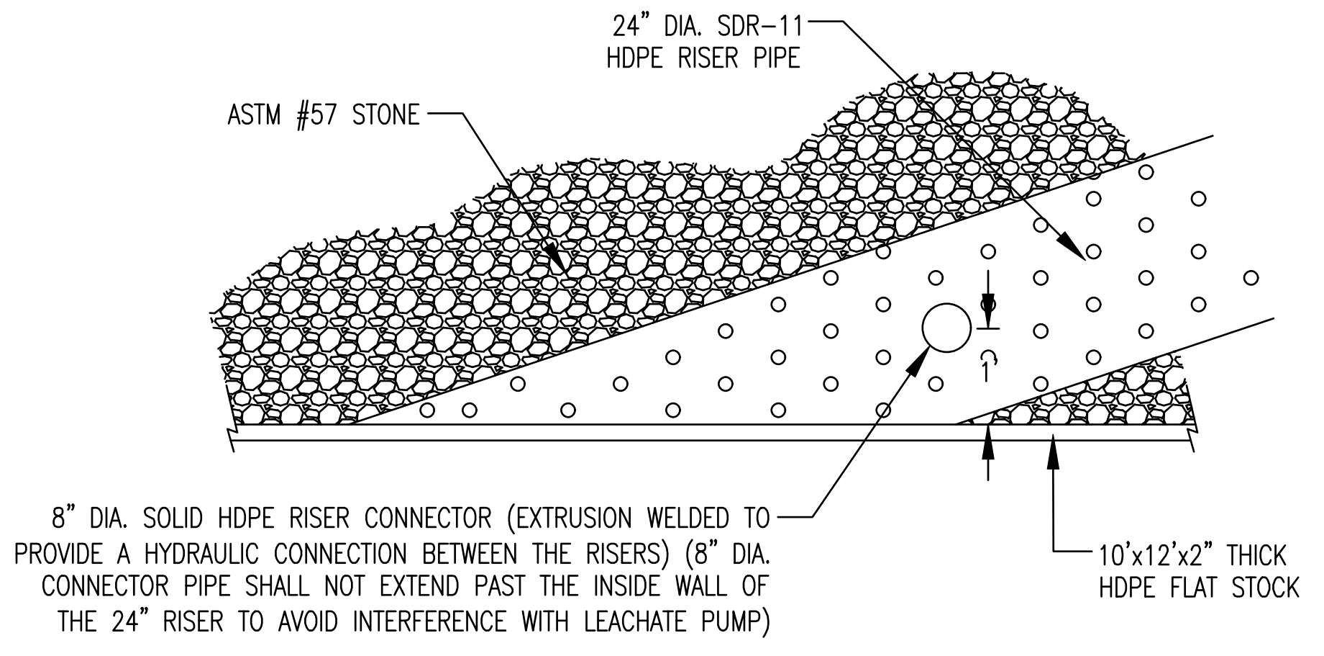
SIDE ELEVATION

CONCRETE RISER CONTAINMENT STRUCTURE

SCALE: 1" = 2'

NOTES:

1. THE 24" & 8" HDPE ARE TO HAVE BOLTED BLIND FLANGES AT ALL ABOVE GROUND ENDS.
2. SUPPORT POLE NEAR THE CENTER SHALL BE POSITIONED TO ALLOW UNRESTRICTED ACCESS TO RISERS AND CLEANOUT.
3. THE RISER SIDE EXIT FITTING FOR CONTAINMENT SUMP DISCHARGE SHALL BE A STAINLESS STEEL PITLESS ADAPTER WITH EXTENDED THREADED SHANK TO EXTEND THROUGH THE RISER SIDE WALL.
4. 3/4" HOSE CONNECTING SUMP PUMP TO RISER SHALL BE ANCHORED TO SIDE WALL OF CONTAINMENT STRUCTURE.
5. ALL FORCE MAIN PIPING AND APPURTENANCES INTERNAL TO THE CONCRETE RISER STRUCTURE SHALL BE ASTM A312 GRADE TP304L SEAMLESS SCHEDULE 40 STAINLESS STEEL UP TO STAINLESS STEEL TO HDPE ADAPTER UNLESS OTHERWISE NOTED.
6. ALL STAINLESS STEEL PIPING SHALL BE WELDED IN ACCORDANCE WITH ASME B31.3.
7. ALL ABOVE GROUND PIPING SHALL HAVE HEAT TRACE AND INSULATION.
8. HEAT TRACE SYSTEM SHALL BE FOR WET ENVIRONMENTS, SELF REGULATING, AND SIZED TO HANDLE A MINIMUM AMBIENT TEMPERATURE OF -20° F.


24" DIA. SDR-11 HDPE RISER PIPE
ASTM #57 STONE
8" DIA. SOLID HDPE RISER CONNECTOR (EXTRUSION WELDED TO PROVIDE A HYDRAULIC CONNECTION BETWEEN THE RISERS) (8" DIA. CONNECTOR PIPE SHALL NOT EXTEND PAST THE INSIDE WALL OF THE 24" RISER TO AVOID INTERFERENCE WITH LEACHATE PUMP)
1'
10'x12'x2" THICK HDPE FLAT STOCK

8" DIA. SOLID HDPE RISER CONNECTOR

SCALE: N.T.S

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli
Digitally signed by Tammy Buchli
Date: 2025.10.27 08:45:43 -04'00'

REFERENCES:

H1C11120 TITLE SHEET AND DRAWING INDEX
H1C11153 GENERAL SITE DEVELOPMENT, CELL NO. 1 AND CELL NO. 2, LEACHATE COLLECTION SYSTEM LAYOUT
H1C11155A GENERAL SITE DEVELOPMENT, CELL 1 THROUGH CELL 3, LEACHATE COLLECTION SYSTEM DETAILS

No. 12687 GARY H. McWHORTER 10/21/25

NO. 27185 R. BRANT LANE 10/21/25

Southern Company Services, Inc.

Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL 1 AND CELL 2
LEACHATE COLLECTION SYSTEM DETAILS

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
2	10-21-2025	MODIFICATION TO LEACHATE FORCE MAIN SIZE, DISCHARGE LOCATION AND SUMP NO. 2 ELEVATION [BY HHNT, INC.]	RSW	RBL					
1	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM [BY HHNT, INC.]	RSW	RBL					
0	01-08-2024	CONVENTIONAL CCR PLACEMENT MODIFICATIONS [BY HHNT, INC.]	RSW	RBL					

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	**H1C11155B**	1	FINAL	2

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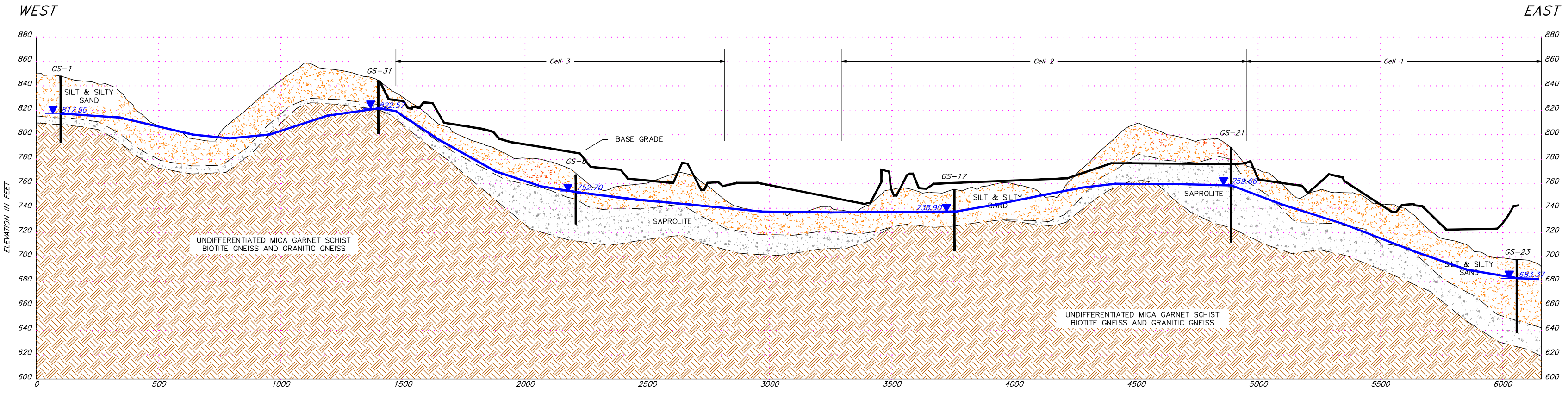
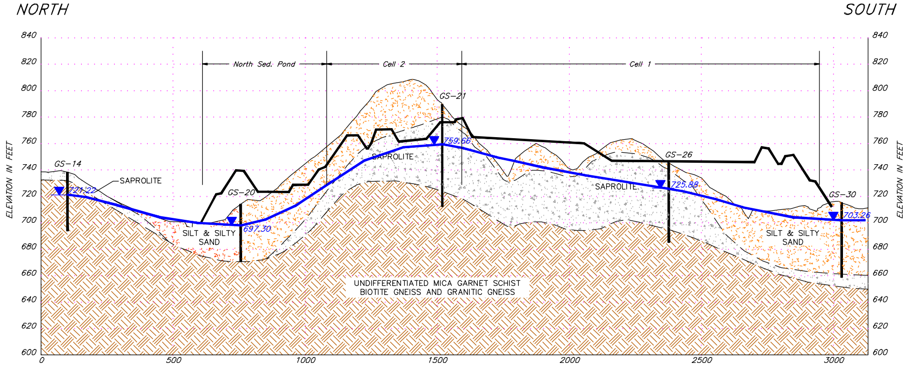

WEST
EAST
ELEVATION IN FEET
880
860
840
820
800
780
760
740
720
700
680
660
640
620
600
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
Cell 3
Cell 2
Cell 1
GS-1
GS-31
GS-6
GS-17
GS-21
GS-23
817.50
822.57
752.70
738.90
759.66
683.37
SILT & SILTY SAND
BASE GRADE
SAPROLITE
UNDIFFERENTIATED MICA GARNET SCHIST BIOTITE GNEISS AND GRANITIC GNEISS

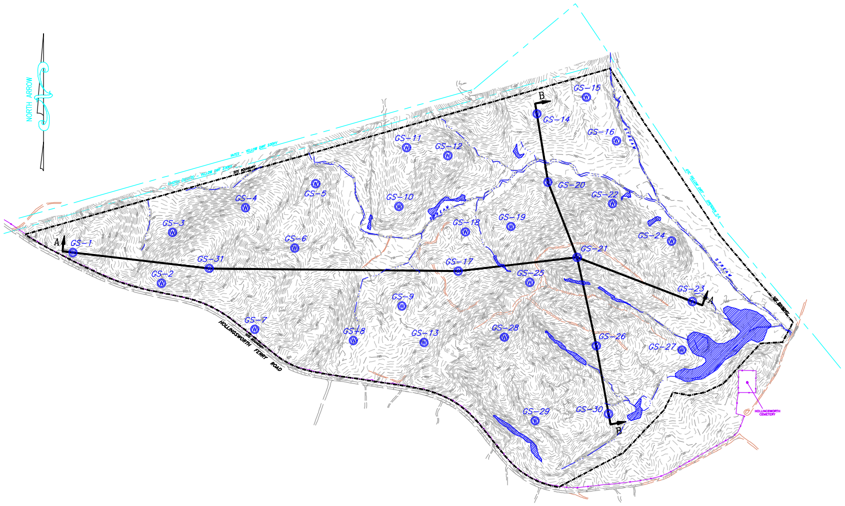
GEOLOGIC CROSS-SECTION A-A

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


NORTH
SOUTH
ELEVATION IN FEET
840
820
800
780
760
740
720
700
680
660
640
620
600
0
500
1000
1500
2000
2500
3000
North Sed. Pond
Cell 2
Cell 1
GS-14
GS-20
GS-21
GS-26
GS-30
721.22
697.30
759.66
725.88
703.26
SAPROLITE
SILT & SILTY SAND
UNDIFFERENTIATED MICA GARNET SCHIST BIOTITE GNEISS AND GRANITIC GNEISS

GEOLOGIC CROSS-SECTION B-B

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


NORTH ARROW
A
A
B
B
GS-1
GS-2
GS-3
GS-4
GS-5
GS-6
GS-7
GS-8
GS-9
GS-10
GS-11
GS-12
GS-13
GS-14
GS-15
GS-16
GS-17
GS-18
GS-19
GS-20
GS-21
GS-22
GS-23
GS-24
GS-25
GS-26
GS-27
GS-28
GS-29
GS-30
GS-31
SITE BOUNDARY
STREAM
HOLLINGSWORTH FERRY ROAD
HOLLINGSWORTH CEMETERY

KEY PLAN

SCALE : 1"=500'

LEGEND:

▼ HIGH GROUNDWATER ELEVATION FROM NOVEMBER 17, 2006

GS-1 | PIEZOMETER

— BASE GRADE

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

ANDREW W. ALEXANDER No.1485

R. BRANT LANE NO. 27185

9/27/22

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

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

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

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

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

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

ANSI F: 40x28 Acad2008

7
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A
N 1240000
N 1239000
N 1238000
N 1237000
N 1236000
E 2024000
E 2025000
E 2026000
E 2027000
E 2028000
E 2029000
E 2030000
NORTH ARROW
APPROXIMATE AREA OF TEMPORARY BUFFER IMPACT (SEE PLAN SHEET H1C11124)
YATES – YELLOW DIRT 230KV
SITE BOUNDARY
BUFFER BOUNDARY
200' SITE BUFFER
WOODED
STREAM
HIGH UNDER BRUSH
HOLLINGSWORTH FERRY ROAD
GPC P/L
GPCO P/L
HOLLINGSWORTH CEMETERY
INV. EL.=670.3
84"CMP'S
GS–1 817.5
GS–2 803.75
GS–3 777.07
GS–4 791.8
GS–5 749.44
GS–6 750.16
GS–7 756.78
GS–8 750.85
GS–9 749.6
GS–10 729.18
GS–11 734.02
GS–12 727.52
GS–13 765.27
GS–14 719.55
GS–15 707.1
GS–16 692.67
GS–17 736.12
GS–18 718.38
GS–19 DRY
GS–20 697.03
GS–21 757.08
GS–22
GS–23 DRY
GS–24 686.03
GS–25 770.42
GS–26 719.25
GS–27 689.06
GS–28 773.49
GS–29 729.86
GS–30 702.62
800
790
780
770
760
750
740
730
720
710
700
PLANT WANSLEY
SITE
GA. POWER RD.
HOLLINGSWORTH FERRY RD.
S. BRIDGE RD.
FIVE NOTCH RD.
HEARD CO.
COWETA CO.
CHATTAHOOCHEE RIVER
LOCATION MAP

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

* ERRONEOUS READING – NOT USED ON PREPARATION ON MAP.

LINE LEGEND

▬ ▬ ▬	Property Line
▬ · ▬ · ▬	Site Boundary
━━	Buffer Boundary
▨	Wetland
—×—×—	Fence
– –840– –	Existing Contours
–810–	Groundwater Contour
⟶	Flow Direction
GS–1 817.3 Ⓦ	Piezometer/ Groundwater Elevation

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

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

ANDREW W. ALEXANDER
No.1485

R. BRANT LANE
NO. 27185
9/1/23

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2024.01.08 16:46:51 -05'00'

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

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
1 REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	8–30–2023	RSW	RBL		☒	☒	☒	☒
0 CCR LF PERMIT APPLICATION [BY HHNT, INC.]	09–23–2022	ANR	RBL		☒	☒	☒	☒

Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

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

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

ANSI F: 40x28 Acad2008

7
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2
1
F
E
D
C
B
A
NORTH ARROW
N 1240000
N 1239000
N 1238000
N 1237000
N 1236000
E 2028000
E 2029000
E 2030000
APPROXIMATE AREA OF TEMPORARY BUFFER IMPACT (SEE PLAN SHEET H1C11124)
YATES – YELLOW DIRT 230KV
GASTON (SEGCO) – YELLOW DIRT 230KV
SITE BOUNDARY
BUFFER BOUNDARY
200' SITE BUFFER
W O O D E D
S T R E A M
HIGH UNDER-BRUSH
GPC YELLOW DIRT – PRESON P/L
GPC P/L
GPCO P/L
HOLLINGSWORTH FERRY ROAD
HOLLINGSWORTH CEMETERY
INV. EL.=670.3
INV. EL.=671.2
INV. EL.=669.1
INV. EL.=670.7
INV. EL.=671.4
84"CMP'S
GS-1 812.26
GS-2 807.63
GS-3 779.35
GS-4 793.33
GS-5 750.44
GS-6 749.03
GS-7 747.06
GS-8 752.21
GS-9 751.15
GS-10 731.81
GS-11 735.04
GS-12 728.85
GS-13 766.58
GS-14 721.22
GS-15 712.47
GS-16 694.18
GS-17 736.23
GS-18 718.64
GS-19 729.57
GS-20 697.29
GS-21 753.73
GS-22 695.44
GS-23 683.37
GS-24 686.62
GS-25 768.15
GS-26 719.58
GS-27 689.65
GS-28 764.50
GS-29 730.36
GS-30 702.46
GS-31 822.45
810
800
790
780
770
760
750
740
730
720
710
700
690
PLANT WANSLEY
SITE
GA. POWER RD.
HOLLINGSWORTH FERRY RD.
S. BRIDGE RD.
FIVE NOTCH RD.
HEARD CO.
COWETA CO.
CHATTAHOOCHEE RIVER
LOCATION MAP
GRAPHIC SCALE
200
0
100
200
400
800
(IN FEET)
1 inch = 200 ft.

Well #	Gnd Elev.	Top of Casing	NORTHING	EASTING	Depth to GW	GW Elev.
GS-1	847.7	850.30	1238147.82	2023921.75	38.04	812.26
GS-2	834.2	837.07	1237856.24	2024760.49	29.44	807.63
GS-3	803.2	806.32	1238337.09	2024864.70	26.97	779.35
GS-4	805.9	808.99	1238570.93	2025555.30	15.66	793.33
GS-5	773.1	775.97	1238796.98	2026220.07	25.53	750.44
GS-6	767.1	769.71	1238189.42	2026022.55	20.68	749.03
GS-7	794.7	797.43	1237419.63	2025643.03	50.37	747.06
GS-8	766.5	769.40	1237314.15	2026576.30	17.19	752.21
GS-9	772.7	776.44	1237640.58	2027036.93	25.29	751.15
GS-10	761.4	764.18	1238583.63	2027008.55	32.37	731.81
GS-11	773.9	776.63	1239140.54	2027081.81	41.59	735.04
GS-12	773.2	775.70	1239064.20	2027471.39	46.85	728.85
GS-13	780.6	783.96	1237294.99	2027246.44	17.38	766.58
GS-14	737.7	740.82	1239460.61	2028315.26	19.6	721.22
GS-15	719.7	722.61	1239617.30	2028782.90	10.14	712.47
GS-16	710.5	713.11	1239205.24	2029067.91	18.93	694.18
GS-17	756.1	758.78	1237971.68	2027569.49	22.55	736.23
GS-18	731.6	733.45	1238342.79	2027638.32	14.81	718.64
GS-19	750	752.89	1238392.87	2028069.80	23.32	729.57
GS-20	713.8	716.61	1238812.87	2028418.95	19.32	697.29
GS-21	789.4	792.11	1238101.43	2028695.23	38.38	753.73
GS-22	729.3	732.71	1238610.81	2029031.16	37.27	695.44
GS-23	697.9	700.73	1237682.91	2029786.70	17.36	683.37
GS-24	725	728.21	1238255.48	2029589.09	41.59	686.62
GS-25	785.7	788.47	1237863.92	2028247.05	20.32	768.15
GS-26	744.7	748.14	1237263.35	2028877.97	28.56	719.58
GS-27	699.7	702.67	1237224.47	2029687.47	13.02	689.65
GS-28	813.4	816.37	1237344.85	2028006.96	51.87	764.50
GS-29	746.7	749.67	1236553.98	2028298.21	19.31	730.36
GS-30	714.6	717.54	1236619.15	2028993.81	15.08	702.46
GS-31	843.5	846.39	1237996.60	2025212.76	23.94	822.45

LINE LEGEND

— — —	Property Line
— · — · —	Site Boundary
——	Buffer Boundary
▨	Wetland
—×—×—	Fence
– –840– –	Existing Contours
—810—	Groundwater Contour
➔	Flow Direction
GS–1 817.3 Ⓦ	Piezometer/ Groundwater Elevation

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

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ANDREW W. ALEXANDER No.1485

R. BRANT LANE NO. 27185 9/1/23

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Tammy Buchli Digitally signed by Tammy Buchli Date: 2024.01.08 16:46:51 -05'00'

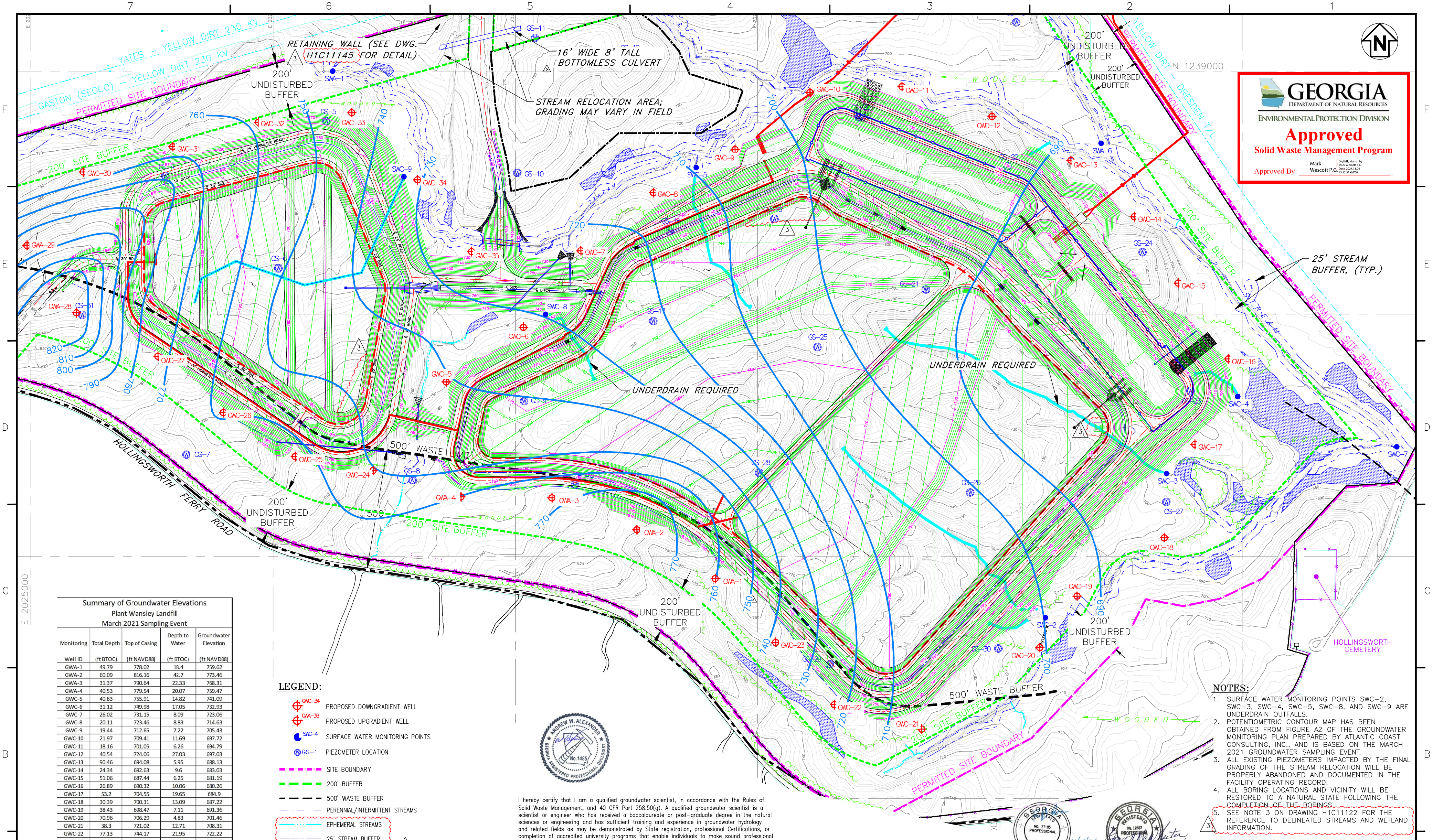
Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

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

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
1	8–30–2023	REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09–23–2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

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

ANSI F: 40x28 Acad2008


7
6
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F
E
D
C
B
A
N
N 1239000
E 2025000
YATES – YELLOW DIRT 230 KV
GASTON (SEGCO) – YELLOW DIRT 230 KV
PERMITTED SITE BOUNDARY
RETAINING WALL (SEE DWG. H1C11145 FOR DETAIL)
16' WIDE 8' TALL BOTTOMLESS CULVERT
STREAM RELOCATION AREA; GRADING MAY VARY IN FIELD
200' UNDISTURBED BUFFER
200' SITE BUFFER
500' WASTE BUFFER
25' STREAM BUFFER, (TYP.)
UNDERDRAIN REQUIRED
WOODED
YELLOW DIRT – DRESDEN T/L
HOLLINGSWORTH FERRY ROAD
HOLLINGSWORTH CEMETERY
GWA-1
GWA-2
GWA-3
GWA-4
GWC-5
GWC-6
GWC-7
GWC-8
GWC-9
GWC-10
GWC-11
GWC-12
GWC-13
GWC-14
GWC-15
GWC-16
GWC-17
GWC-18
GWC-19
GWC-20
GWC-21
GWC-22
GWC-23
GWC-24
GWC-25
GWC-26
GWC-27
GWA-28
GWA-29
GWC-30
GWC-31
GWC-32
GWC-33
GWC-34
GWC-35
SWA-1
SWA-6
SWC-2
SWC-3
SWC-4
SWC-5
SWC-7
SWC-8
SWC-9
GS-5
GS-6
GS-7
GS-8
GS-9
GS-10
GS-11
GS-17
GS-21
GS-24
GS-25
GS-26
GS-27
GS-28
GS-30
GS-31
700
710
720
730
740
750
760
770
780
790
800
810
820
24' PERIMETER ROAD
30' RD
10' DITCH
3

Summary of Groundwater Elevations
Plant Wansley Landfill
March 2021 Sampling Event

Monitoring Well ID	Total Depth (ft BTOC)	Top of Casing (ft NAVD88)	Depth to Water (ft BTOC)	Groundwater Elevation (ft NAVD88)
GWA-1	49.79	778.02	18.4	759.62
GWA-2	60.09	816.16	42.7	773.46
GWA-3	31.37	790.64	22.33	768.31
GWA-4	40.53	779.54	20.07	759.47
GWC-5	40.83	755.91	14.82	741.09
GWC-6	31.12	749.98	17.05	732.93
GWC-7	26.02	731.15	8.09	723.06
GWC-8	20.11	723.46	8.83	714.63
GWC-9	19.44	712.65	7.22	705.43
GWC-10	21.97	709.41	11.69	697.72
GWC-11	18.16	701.05	6.26	694.79
GWC-12	40.54	724.06	27.03	697.03
GWC-13	90.46	694.08	5.95	688.13
GWC-14	24.34	692.63	9.6	683.03
GWC-15	51.06	687.44	6.25	681.19
GWC-16	26.89	690.32	10.06	680.26
GWC-17	53.2	704.55	19.65	684.9
GWC-18	30.39	700.31	13.09	687.22
GWC-19	38.43	698.47	7.11	691.36
GWC-20	70.96	706.29	4.83	701.46
GWC-21	38.3	721.02	12.71	708.31
GWC-22	77.13	744.17	21.95	722.22
GWC-23	67.95	773.41	34.64	738.77
GWC-24	51.09	790.37	38.8	751.57
GWC-25	61.29	812.36	50.13	762.23
GWC-26	59.54	785.6	27.4	758.2
GWC-27	70.94	814.32	41.7	772.62
GWA-28	45.83	849.16	24.58	824.58
GWA-29	57.07	834.67	42.27	792.4
GWC-30	49.64	791.1	25	766.1
GWC-31	38.03	797.5	30.3	767.2
GWC-32	31.21	785.38	25.01	760.37
GWC-33	24.03	760.05	13.44	746.61
GWC-34	50.91	735.4	4.21	731.19
GWC-35	40.53	730.64	7.95	722.69
Notes:	Depths to water measured on March 8, 2021.			
	ft NAVD88 = feet North American Vertical Datum of 1988.			
	ft BTOC = feet below top of casing.			

LEGEND:

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

3

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Mark Wescott P.G.
Digitally signed by Mark Wescott P.G.
Date: 2024.11.04 15:15:57 -05'00'

ANDREW W. ALEXANDER
No. 1485

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

Signature: AW Alexander
Date: 2024-10-21

GRAPHIC SCALE
150 0 75 150 300 600
(IN FEET)
1 inch = 150 ft.

No. 27185
R. BRANT LANE
10/18/24

No. 12687
GARY H. McWHORTER
10/18/24

NOTES:
1. SURFACE WATER MONITORING POINTS SWC-2, SWC-3, SWC-4, SWC-5, SWC-8, AND SWC-9 ARE UNDERDRAIN OUTFALLS.
2. POTENTIOMETRIC CONTOUR MAP HAS BEEN OBTAINED FROM FIGURE A2 OF THE GROUNDWATER MONITORING PLAN PREPARED BY ATLANTIC COAST CONSULTING, INC., AND IS BASED ON THE MARCH 2021 GROUNDWATER SAMPLING EVENT.
3. ALL EXISTING PIEZOMETERS IMPACTED BY THE FINAL GRADING OF THE STREAM RELOCATION WILL BE PROPERLY ABANDONED AND DOCUMENTED IN THE FACILITY OPERATING RECORD.
4. ALL BORING LOCATIONS AND VICINITY WILL BE RESTORED TO A NATURAL STATE FOLLOWING THE COMPLETION OF THE BORINGS.
5. SEE NOTE 3 ON DRAWING H1C11122 FOR THE REFERENCE TO DELINEATED STREAMS AND WETLAND INFORMATION. 3

REFERENCES:
1. FOR A COMPLETE DRAWING LIST SEE H1C11120

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
3	10-18-2024	MODIFICATION TO COMPOSITE LINER SYSTEM AND LEACHATE COLLECTION AND REMOVAL SYSTEM AND UPDATED DELINEATED WETLANDS AND STREAMS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
2	05-03-2024	STREAM RELOCATION GRADING MODIFICATION TO INCLUDE RETAINING WALL [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
1	10-10-2023	REVISED PROPERTY BUFFER AND NORTHERN BUFFER IMPACTS [BY HHNT, INC.]	RSW	RBL		☒	☒	☒	☒
0	09-23-2022	CCR LF PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL		☒	☒	☒	☒

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT WANSLEY
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
COMPLIANCE NETWORK

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	**H1C11165**	1	FINAL	3

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