

# GEORGIA POWER COMPANY

## PLANT WANSLEY

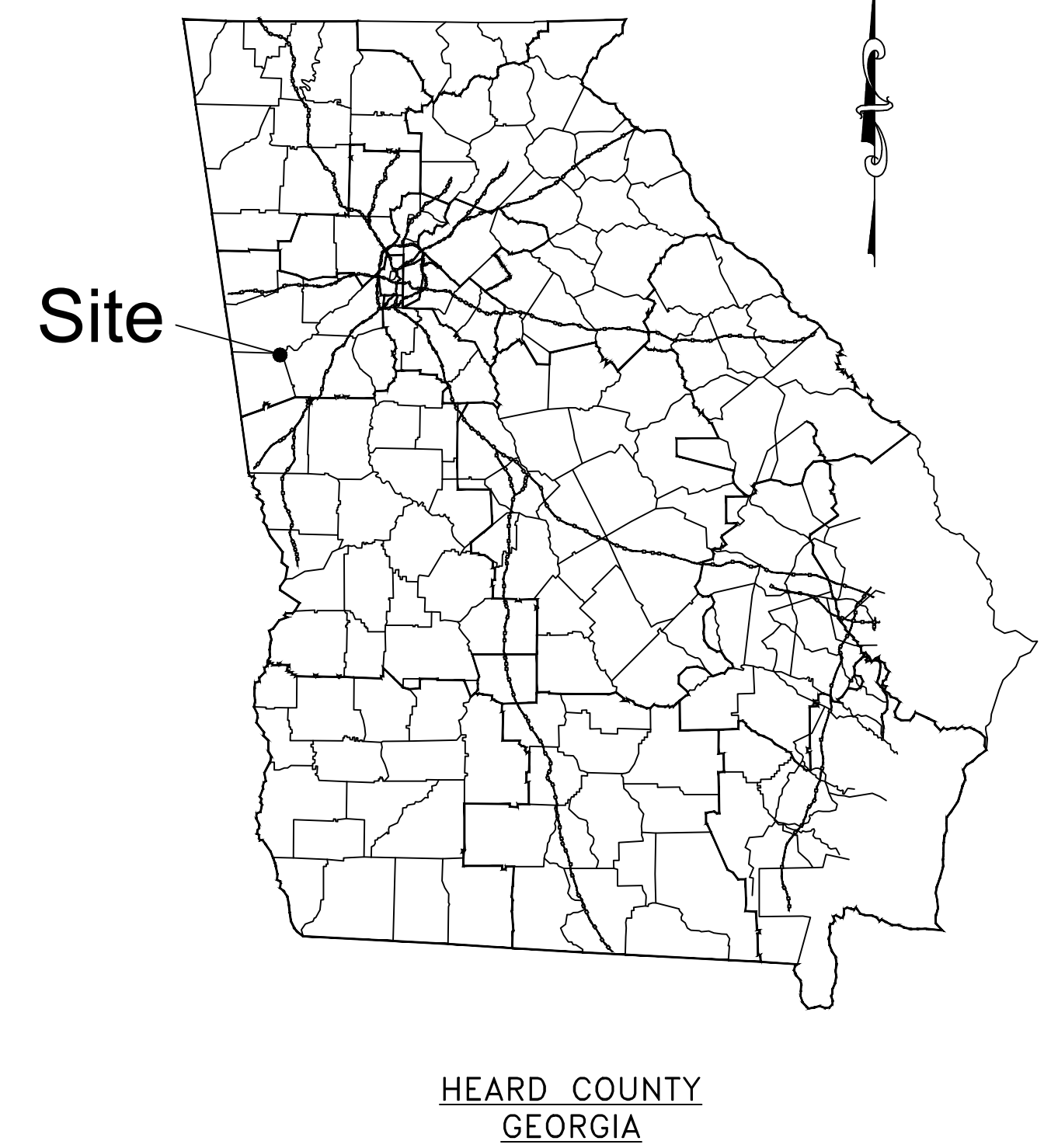
### COAL COMBUSTION RESIDUALS (CCR) LANDFILL

#### PERMIT DRAWINGS

#### HEARD COUNTY, GEORGIA

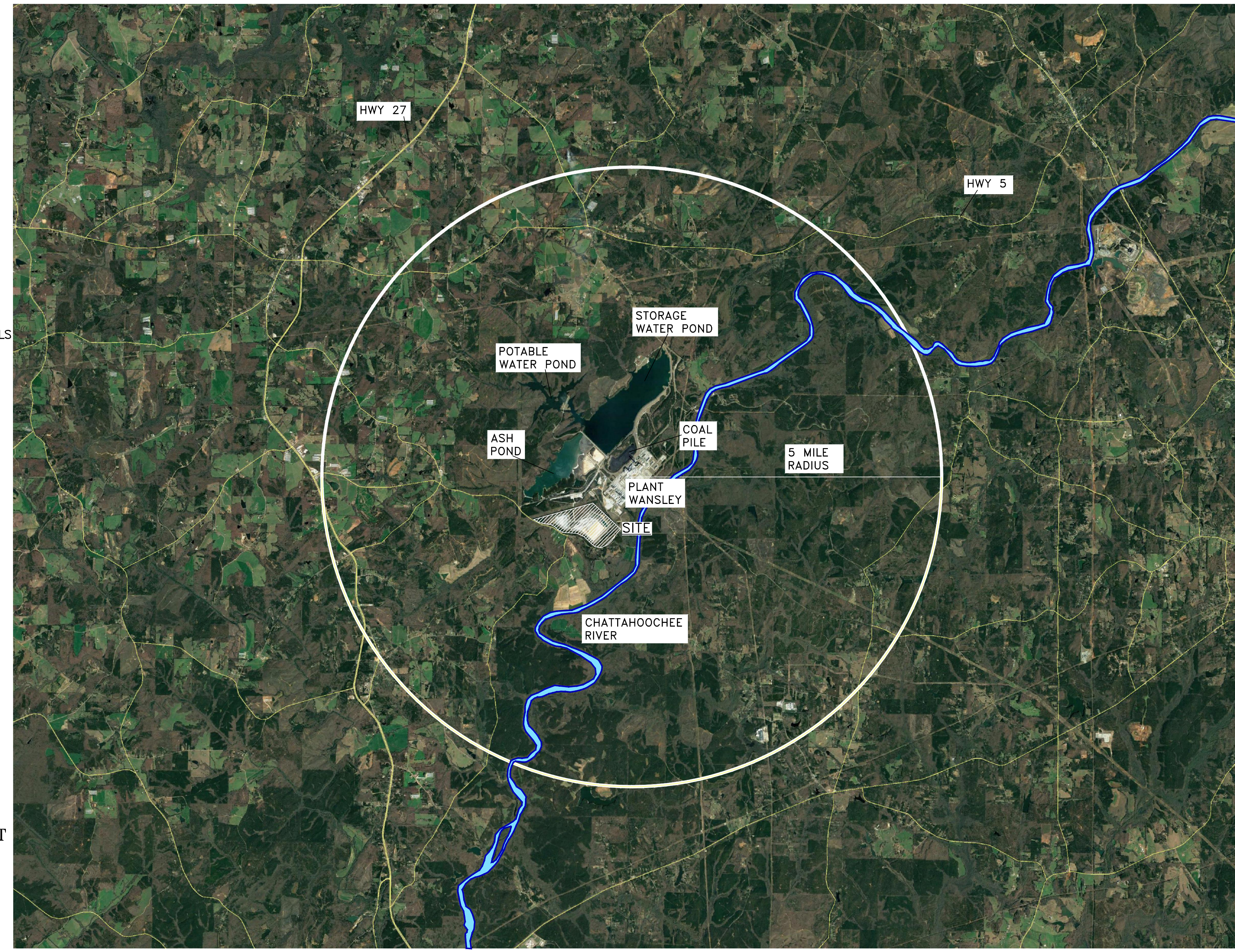
#### SEPTEMBER 2022

LOCATION MAP  
SCALE AS SHOWN



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**LEGEND:**

COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY AREA

**RESPONSIBLE OFFICIAL**

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

**ADDRESS**

PLANT WANSLEY  
1371 LIBERTY CHURCH ROAD  
CARROLTON, GA 30116

**PROPERTY OWNER**

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

**CCR LANDFILL PERMIT APPLICATION CONSULTANT**

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

**CONSULTANT**

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

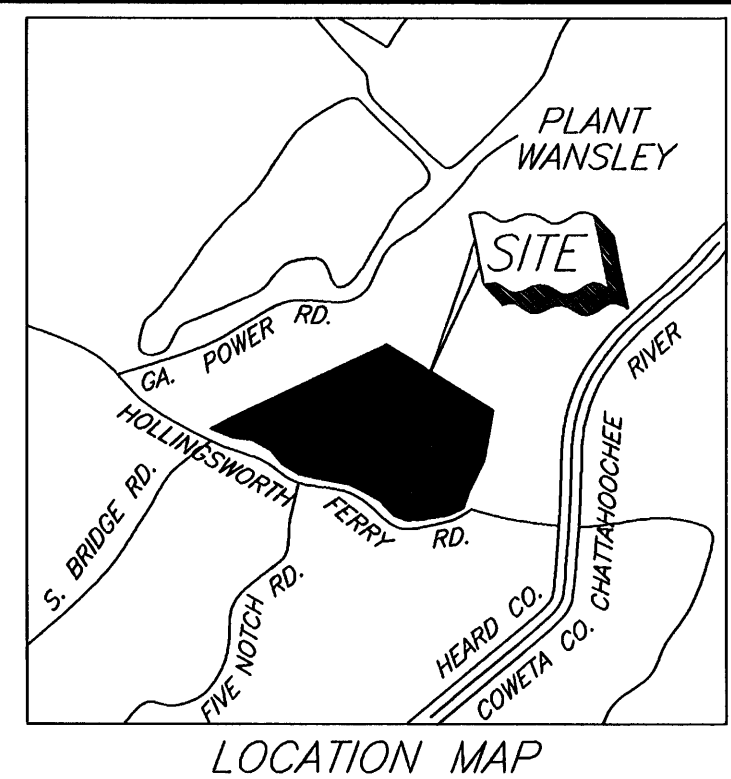
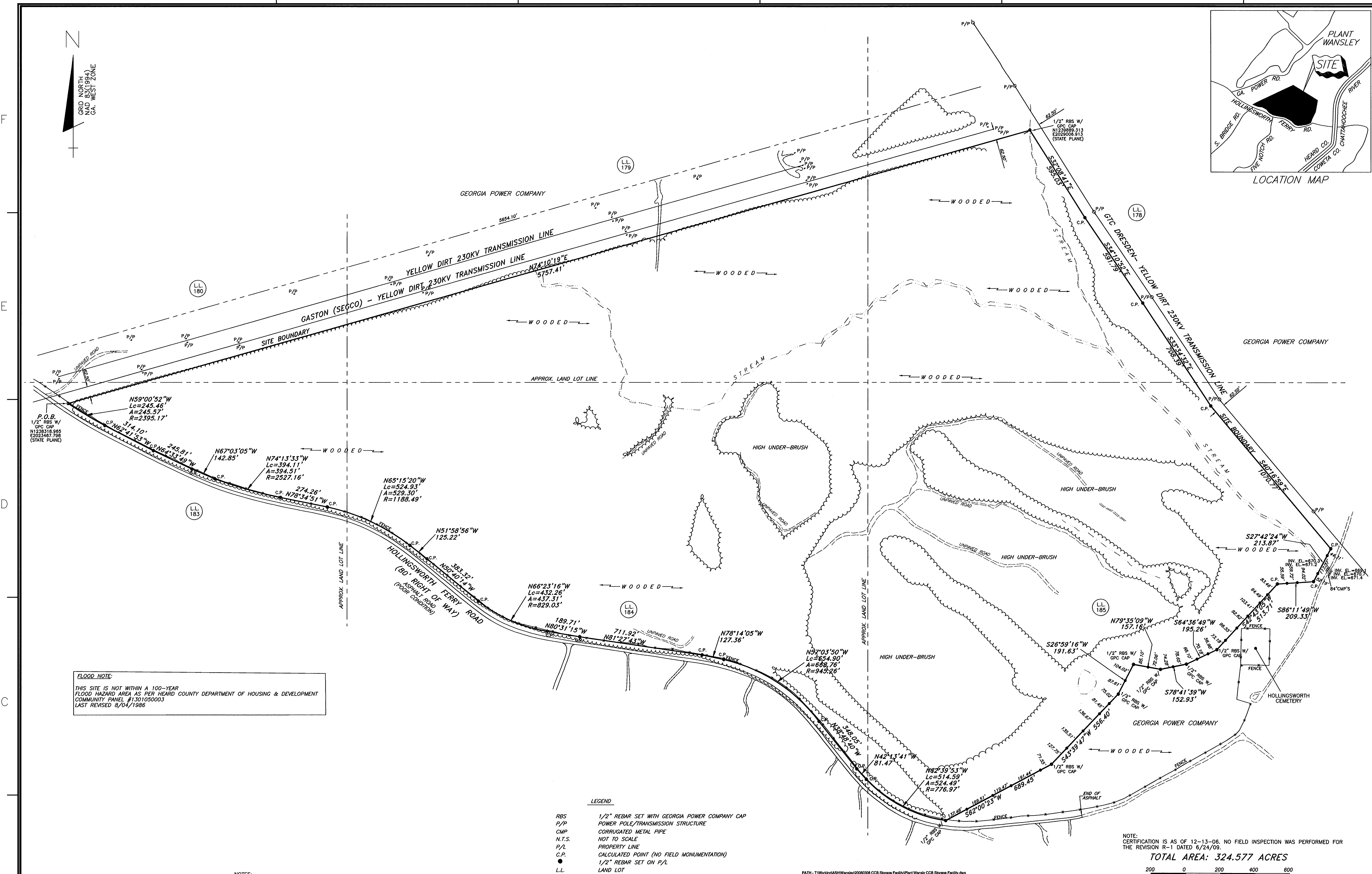


PERMIT REVISION HISTORY: THE ORIGINAL PERMIT DRAWINGS FOR THE PLANT WANSLEY CCR LANDFILL WERE PREPARED BY SOUTHERN COMPANY GENERATION ENGINEERING AND CONSTRUCTION SERVICES (SCGES). THESE PERMIT DRAWINGS WERE REVIEWED BY GEORGIA EPD AND APPROVED ON JUNE 15, 2010 AS PART OF THE FACILITY'S SOLID WASTE HANDLING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

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

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

REVISION 0		DATE 09-23-2022																									
Copyright © Southern Company Services, Inc. All Rights Reserved																											
Southern Company Generation Engineering and Construction Services FOR																											
Georgia Power Company																											
PLANT WANSLEY COAL COMBUSTION RESIDUALS (CCR) LANDFILL TITLE SHEET AND DRAWING INDEX																											
BY	CHKD	CIVL APPR	ELECT APPR	IC APPR	MECH APPR	DISC MGR	BY	CHKD	CIVL APPR	ELECT APPR	IC APPR	MECH APPR	DISC MGR	BY	CHKD	CIVL APPR	ELECT APPR	IC APPR	MECH APPR	DISC MGR	SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONTD	REV	
ANR	RBL																					AS SHOWN	010209	H1C11120	1	FINAL	0



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  $74^{\circ}10'19''$  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  $32^{\circ}08'41''$  East along said westerly right of way for a distance of 595.03 feet; thence South  $34^{\circ}10'52''$  East along said westerly right of way for a distance of 591.79 feet; thence South  $33^{\circ}34'32''$  East along said westerly right of way for a distance of 708.39 feet; thence South  $40^{\circ}16'59''$  East along said westerly right of way for a distance of 1070.77 feet; thence South  $27^{\circ}42'24''$  West for a distance of 213.87 feet; thence South  $86^{\circ}11'49''$  West for a distance of 209.33 feet; thence South  $42^{\circ}43'05''$  West for a distance of 513.71 feet to a set 1/2"rebar with a GPC cap; thence South  $64^{\circ}36'49''$  West for a distance of 195.26 feet to a set 1/2"rebar with a GPC cap; thence South  $78^{\circ}41'39''$  West for a distance of 152.93 feet to a set 1/2"rebar with a GPC cap; thence North  $79^{\circ}35'09''$  West for a distance of 157.16 feet to a set 1/2"rebar with a GPC cap; thence South  $26^{\circ}59'16''$  West for a distance of 191.63 feet to a set 1/2"rebar with a GPC cap; thence South  $43^{\circ}39'47''$  West for a distance of 556.40 feet to a set 1/2"rebar with a GPC cap; thence South  $62^{\circ}00'23''$  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  $62^{\circ}39'53''$  West and an arc length of 524.49 feet; thence North  $42^{\circ}13'41''$  West along a non tangent line and being coincident with said right of way for a distance of 81.47 feet; thence North  $38^{\circ}48'40''$  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  $57^{\circ}03'50''$  West and an arc length of 668.76 feet; thence North  $78^{\circ}14'05''$  West along a non tangent line and being coincident with said right of way for a distance of 127.36 feet; thence North  $81^{\circ}27'43''$  West along said right of way for a distance of 711.92 feet; thence North  $80^{\circ}31'15''$  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  $66^{\circ}23'16''$  West and an arc length of 437.31 feet; thence North  $50^{\circ}40'14''$  West along a non tangent line and being coincident with said right of way for a distance of 383.32 feet; thence North  $51^{\circ}58'56''$  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  $65^{\circ}15'20''$  West and an arc length of 529.30 feet; thence North  $78^{\circ}34'51''$  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  $74^{\circ}13'33''$  West and an arc length of 394.51 feet; thence North  $67^{\circ}03'05''$  West along a non tangent line and being coincident with said right of way for a distance of 142.85 feet; thence North  $64^{\circ}33'49''$  West along said right of way for a distance of 245.81 feet; thence North  $62^{\circ}41'53''$  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  $59^{\circ}00'52''$  West and an arc length of 245.57 feet to the point of beginning and containing 324.577 acres, more or less.

**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  
 LL LAND LOT  
 APPROX. APPROXIMATE

**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 SERVING 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.

The field data upon which this plot 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 plot 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.

NOTE: CERTIFICATION IS AS OF 12-13-06. NO FIELD INSPECTION WAS PERFORMED FOR THE REVISION R-1 DATED 8/24/09.  
**TOTAL AREA: 324.577 ACRES**  
 SCALE IN FEET: 1" = 200'

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

**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

REVISIONS

NO.	DATE	DESCRIPTION
0	07/24/06	ISSUED FOR PERMIT
1	09/29/09	REVISION R-1

DATE: 12-13-06 SCALE: 1"=200'



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

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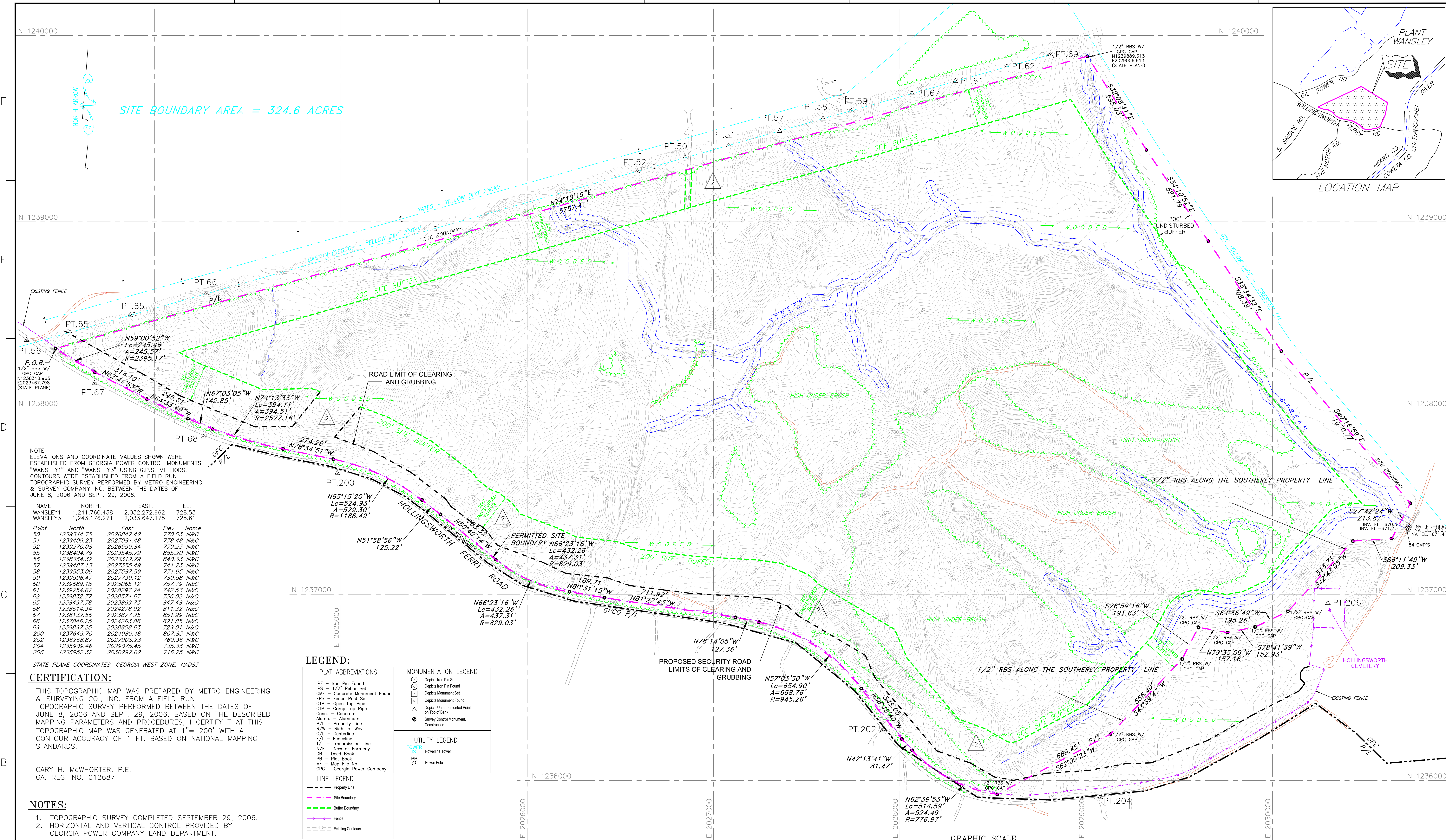
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REVISION 0 DATE 09-23-2022

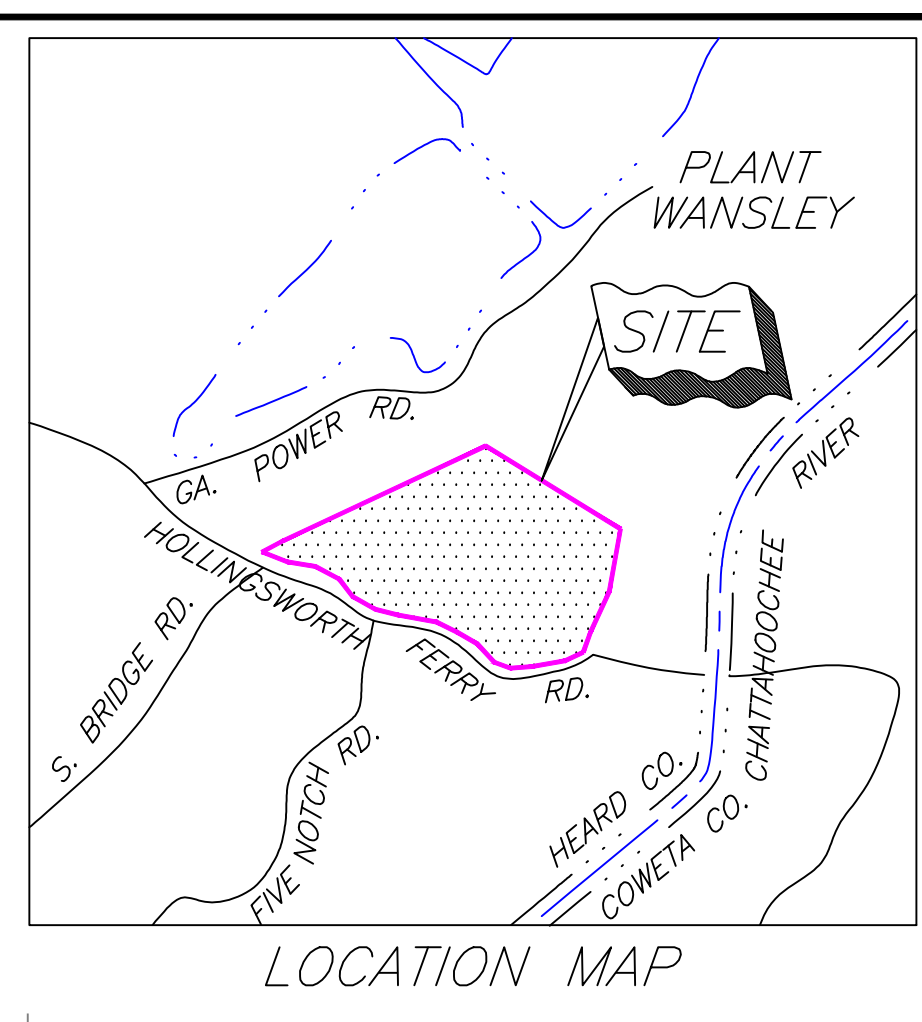
CCR LF PERMIT APPLICATION [BY HHNT, INC.]

**Southern Company Generation Engineering and Construction Services**  
 FOR  
**Georgia Power Company**  
 PLANT WANSLEY  
 COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY  
 PERMITTED SITE BOUNDARY  
 PLAT AND LEGAL DESCRIPTION

SCALE: AS SHOWN PROJ. ID: 010209 DRAWING NUMBER: **H1C11121** SHEET: 1 CONTD: 0 REV: 0



SITE BOUNDARY AREA = 324.6 ACRES



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	1239598.47	2027739.12	780.58	N&C
60	1239889.18	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	1236286.87	2027908.23	760.36	N&C
204	1235909.46	2029075.45	735.36	N&C
206	1236952.32	2030297.62	716.25	N&C

CERTIFICATE PLANE COORDINATES, GEORGIA WEST ZONE, NAD83

**CERTIFICATION:**

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

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

**NOTES:**

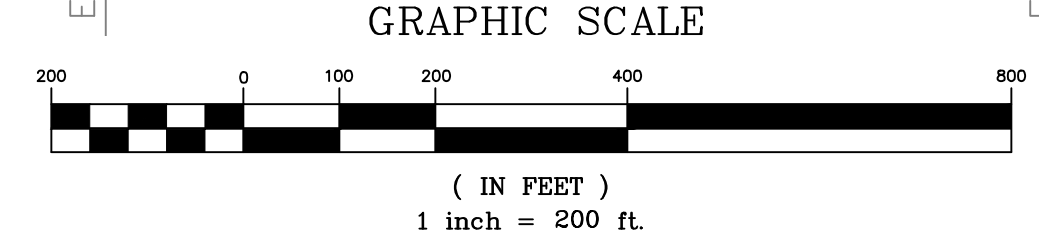
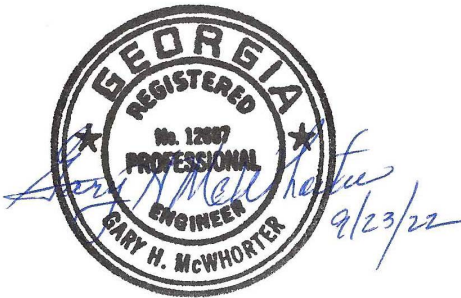
1. TOPOGRAPHIC SURVEY COMPLETED SEPTEMBER 29, 2006.
2. HORIZONTAL AND VERTICAL CONTROL PROVIDED BY GEORGIA POWER COMPANY LAND DEPARTMENT.

**REFERENCE DRAWINGS:**

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

**LEGEND:**

<p><b>PLAT ABBREVIATIONS</b></p> <p>IPF - Iron Pin Found          IPS - 1/2" Rebar Set          CMF - Concrete Monument Found          FPS - Fence Post Set          OPS - Open Top Pipe          CTP - Crimp Top Pipe          Conc. - Concrete          Alum. - 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 - Dead Book          PB - Plat Book          MF - Map File No.          GPC - Georgia Power Company</p>	<p><b>MONUMENTATION LEGEND</b></p> <p>○ Depicts Iron Pin Set          ○ Depicts Rebar Set          □ Depicts Monument Found          □ Depicts Monument Found on Top of Bank          △ Depicts Unmonumented Point          ● Survey Control Monument          ⊕ Construction</p>
<p><b>UTILITY LEGEND</b></p> <p>TOWER          P Powerline Tower          PP Power Pole</p>	<p><b>LINE LEGEND</b></p> <p>--- Property Line          --- Site Boundary          --- Buffer Boundary          --- Fence          --- Existing Contours</p>



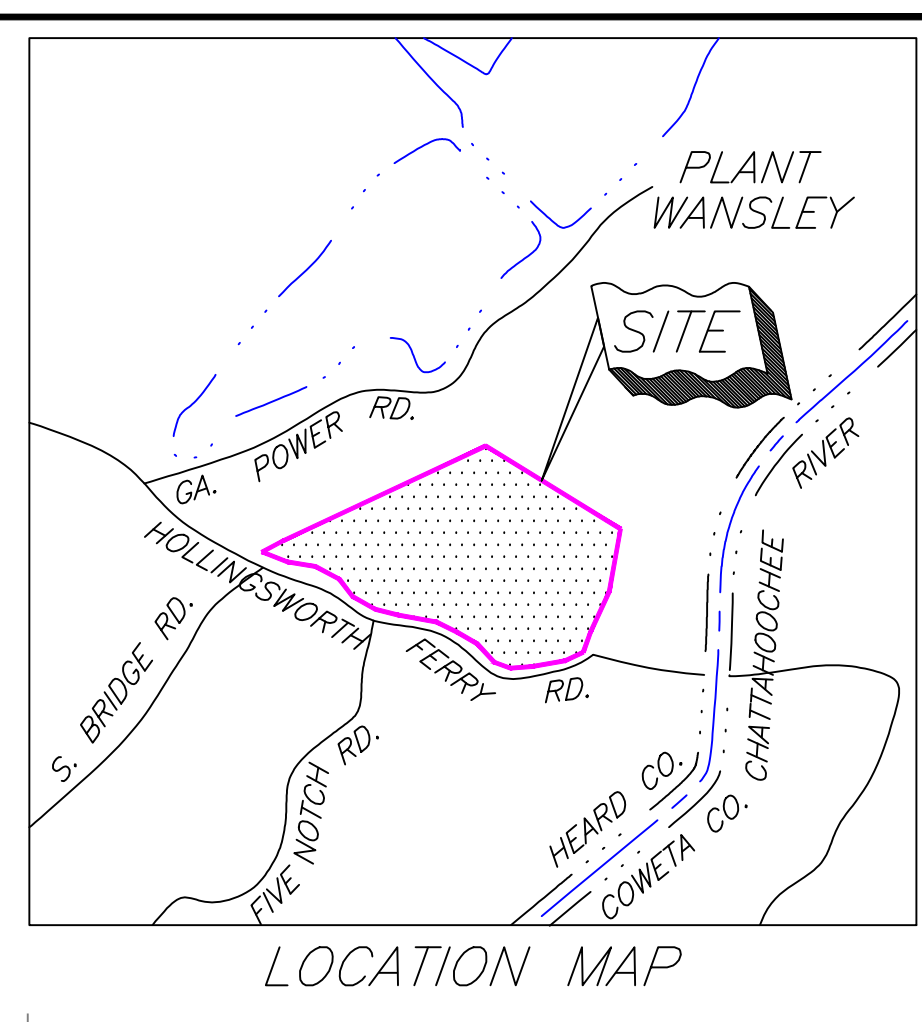
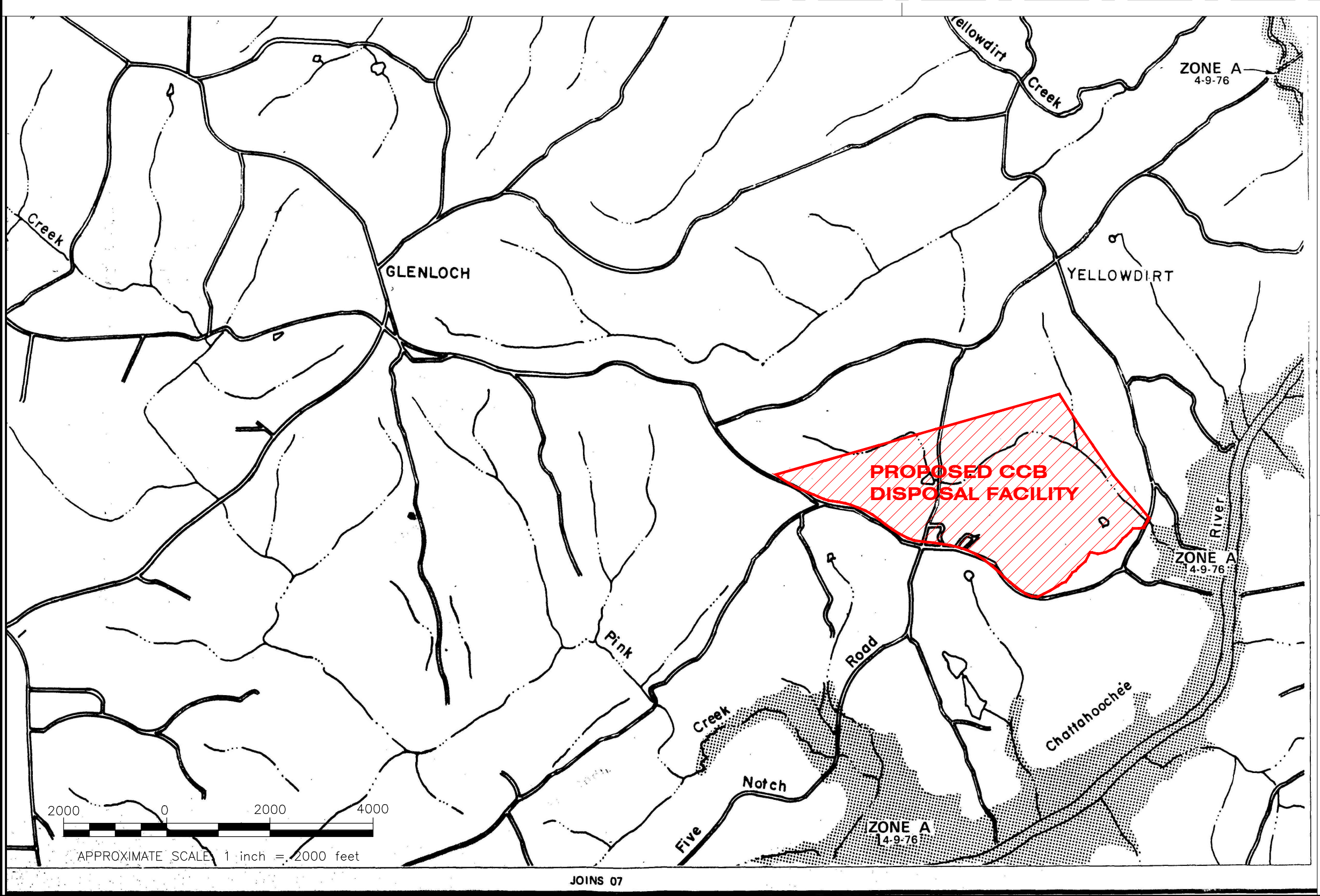
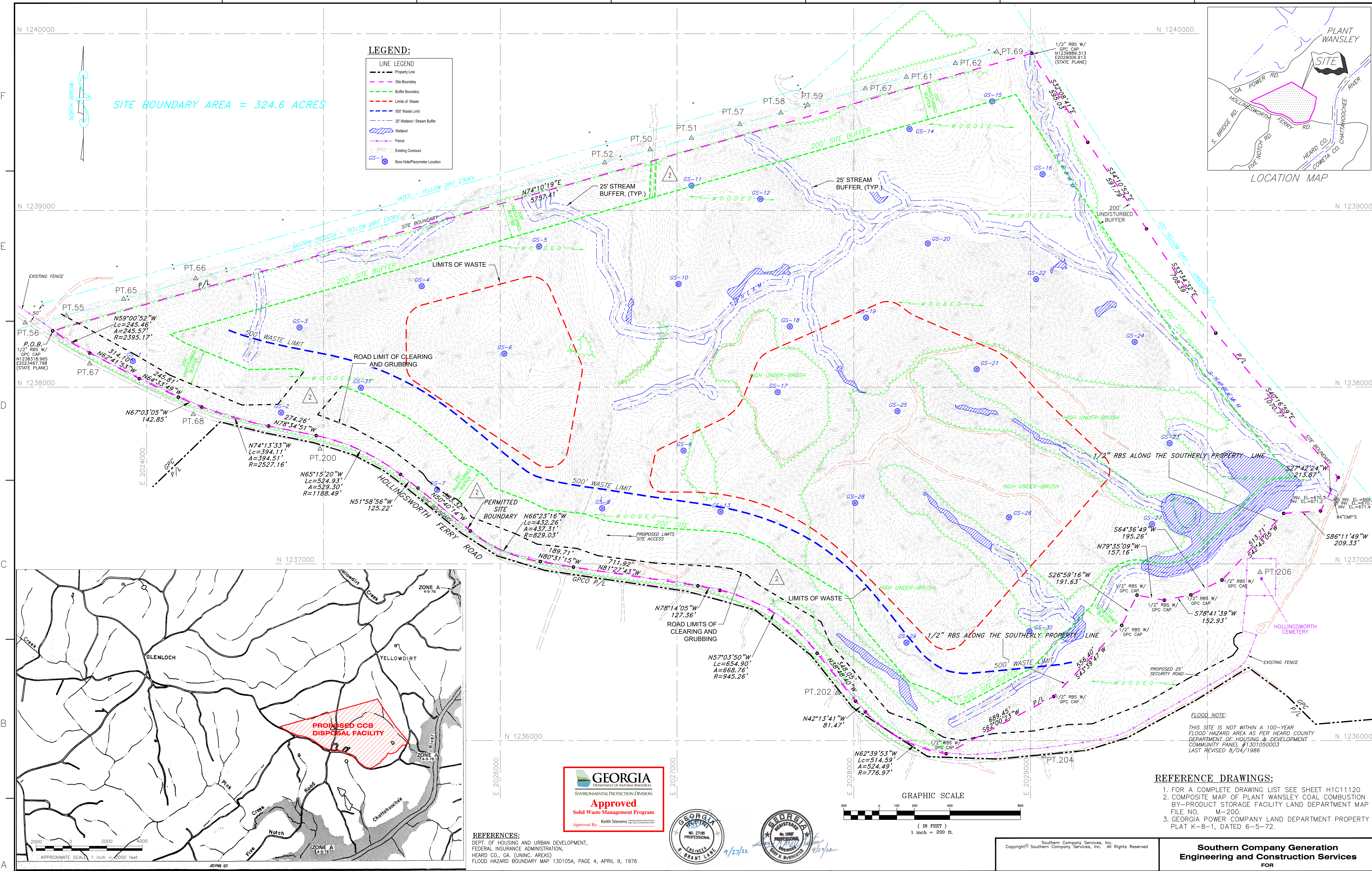
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 CCR LF PERMIT APPLICATION [BY HHNT, INC.]

**Southern Company Generation Engineering and Construction Services**  
 FOR  
**Georgia Power Company**  
 PLANT WANSLEY  
 COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY  
 SITE TOPOGRAPHIC SURVEY

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

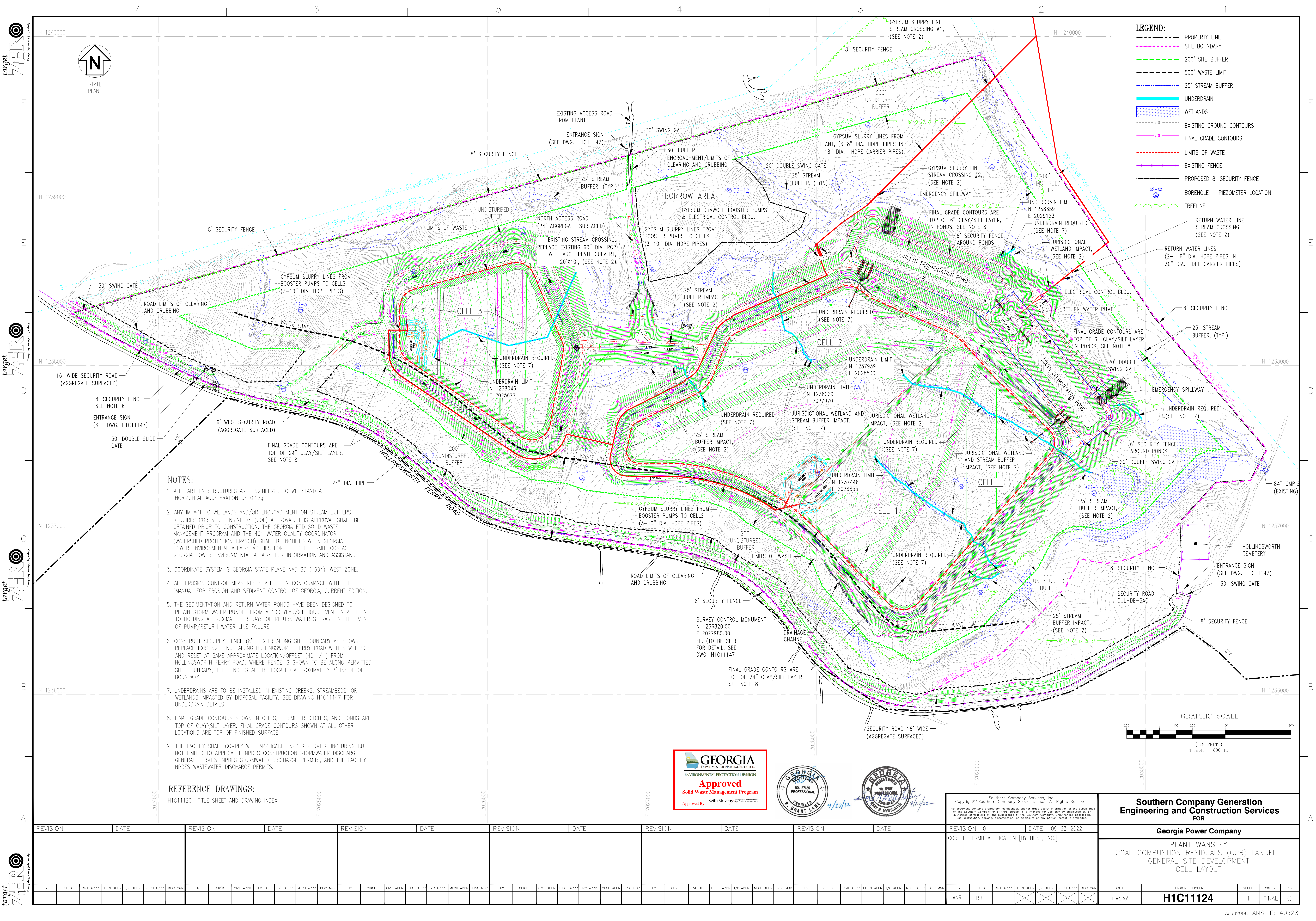
  

BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	SCALE	PROJ. ID.	DRAWING NUMBER	SHEET	CONTD.	REV.
																												AS SHOWN	010209	<b>H1C11122</b>	1	FINAL	0



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
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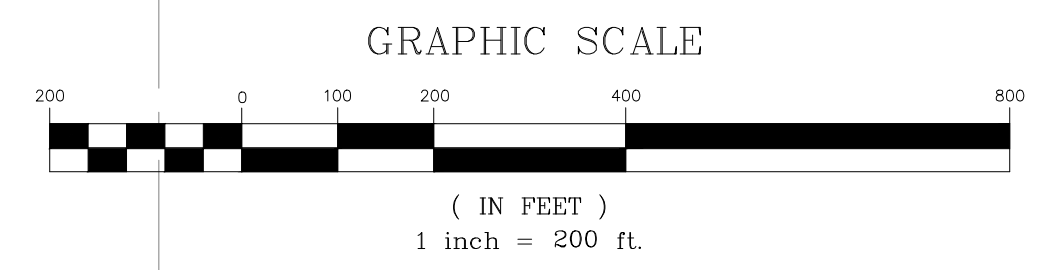
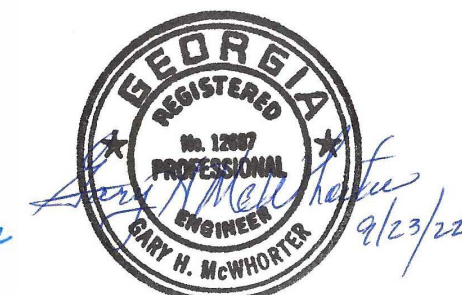
REVISION	0	DATE	09-23-2022
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Southern Company Generation Engineering and Construction Services FOR Georgia Power Company			
PLANT WANSLEY COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY SITE STREAM BUFFERS AND WETLANDS, 100 YEAR FLOOD PLAN AND BORING LOCATIONS			
SCALE	PROJ. LD.	DRAWING NUMBER	SHEET CONTD. REV.
AS SHOWN	010209	<b>H1C11123</b>	1 FINAL 0



- LEGEND:**
- PROPERTY LINE
  - - - SITE BOUNDARY
  - - - 200' SITE BUFFER
  - - - 500' WASTE LIMIT
  - - - 25' STREAM BUFFER
  - UNDERDRAIN
  - WETLANDS
  - EXISTING GROUND CONTOURS
  - 700
  - 700
  - - - LIMITS OF WASTE
  - - - EXISTING FENCE
  - - - PROPOSED 8' SECURITY FENCE
  - GS-XX BOREHOLE - PIEZOMETER LOCATION
  - TREELINE

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

**REFERENCE DRAWINGS:**  
H1C11120 TITLE SHEET AND DRAWING INDEX



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

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

**Georgia Power Company**

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

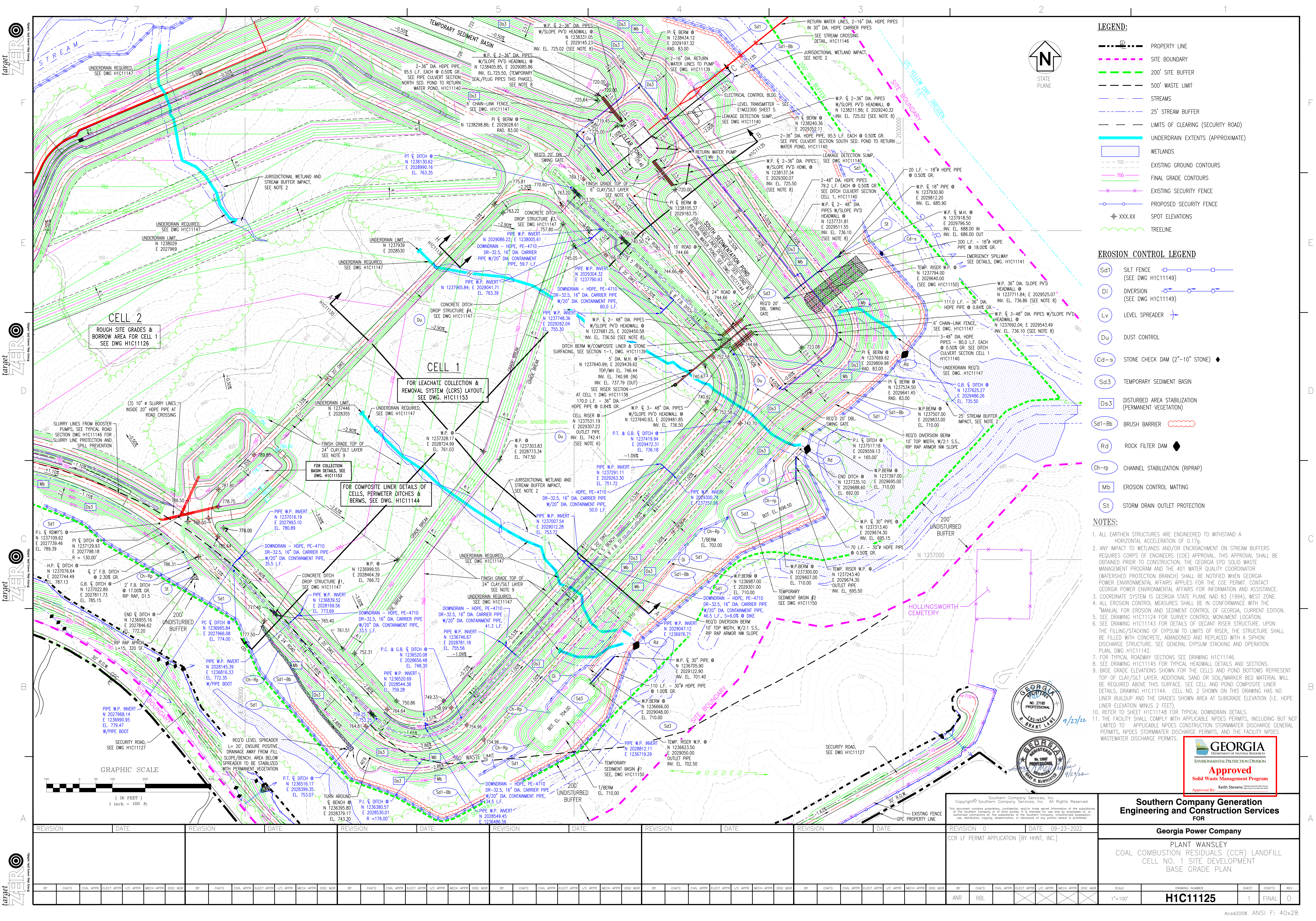
SCALE: 1"=200'

DRAWING NUMBER: **H1C11124**

SHEET: 1

CONT'D: 0

REV: 0



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

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

- NOTES:**
- ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.1g.
  - 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.
  - COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
  - ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION."
  - SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
  - 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.
  - FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11146.
  - SEE DRAWING H1C11145 FOR TYPICAL HEADWALL DETAILS AND SECTIONS.
  - BASE GRADE ELEVATIONS SHOWN FOR THE CELLS AND POND BOTTOMS REPRESENT TOP OF CLAY/SILT LAYER. ADDITIONAL SAND OR SOIL/MARKER BED MATERIAL WILL BE REQUIRED ABOVE THIS SURFACE. SEE CELL AND POND COMPOSITE LINER DETAILS, DRAWING H1C11144. CELL NO. 2 SHOWN ON THIS DRAWING HAS NO LINER BUILDUP AND THE GRADES SHOWN AREA AT SUBGRADE ELEVATION (I.E. HDPE LINER ELEVATION MINUS 2 FEET).
  - REFER TO SHEET H1C11148 FOR TYPICAL DOWNDRAIN DETAILS.
  - 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.



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

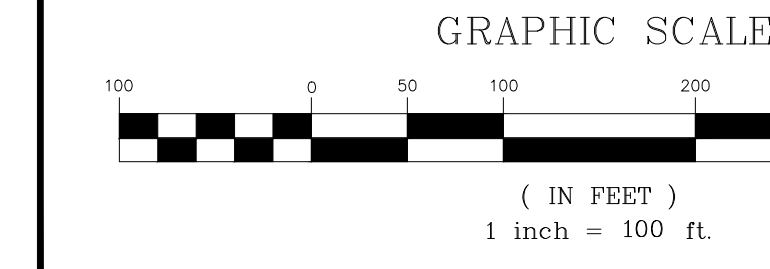
**Georgia Power Company**

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

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

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

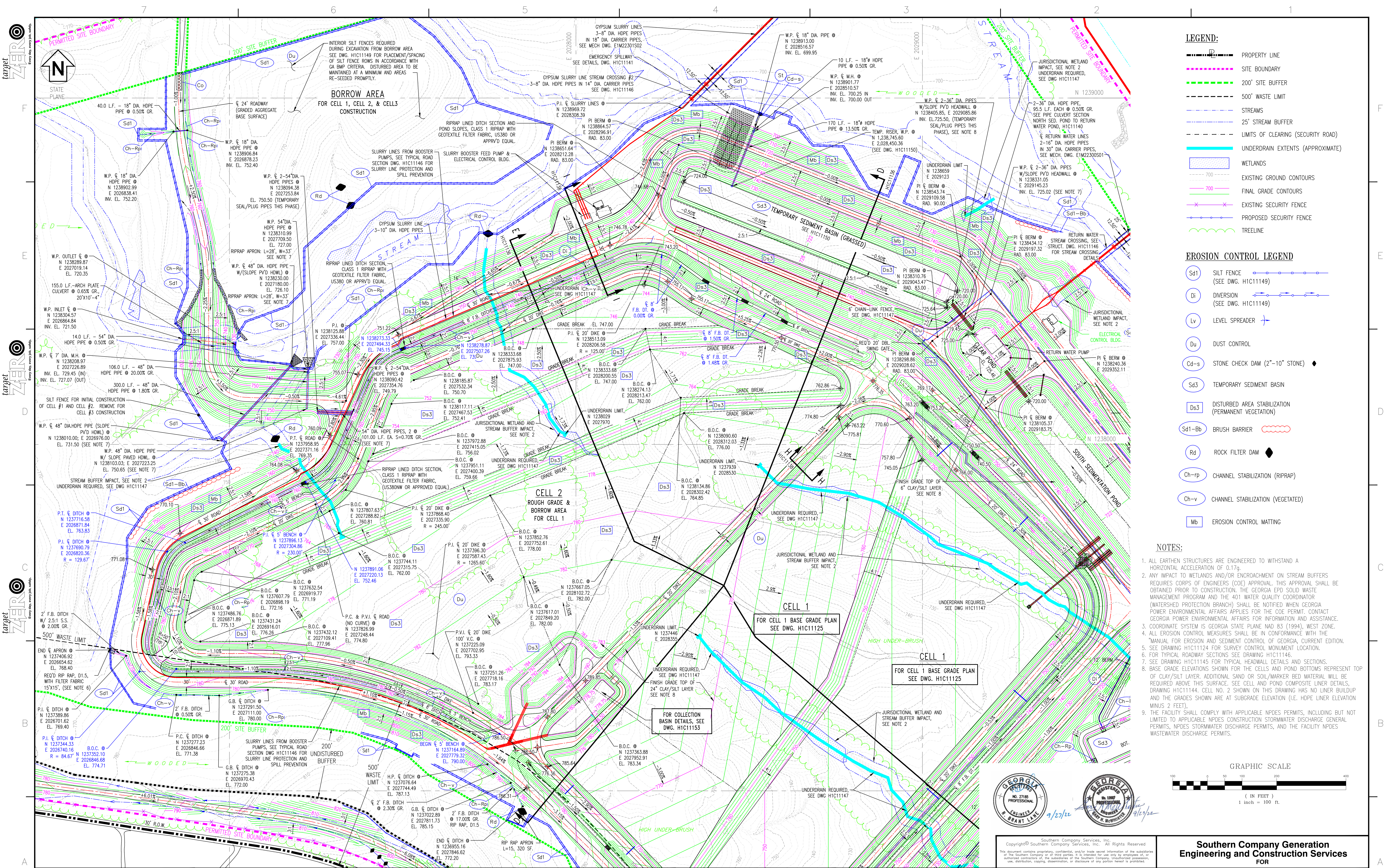
REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE



**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

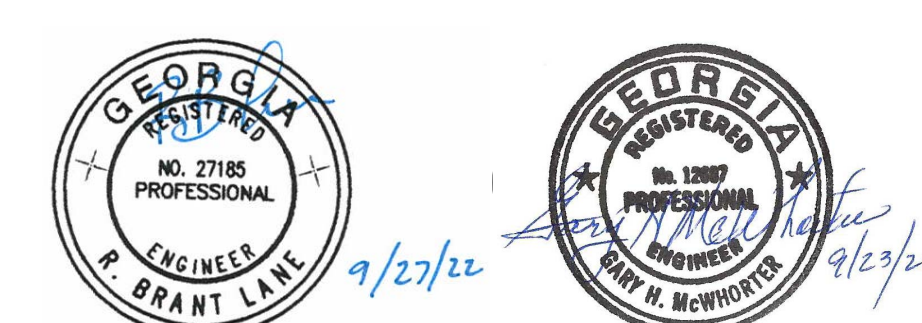
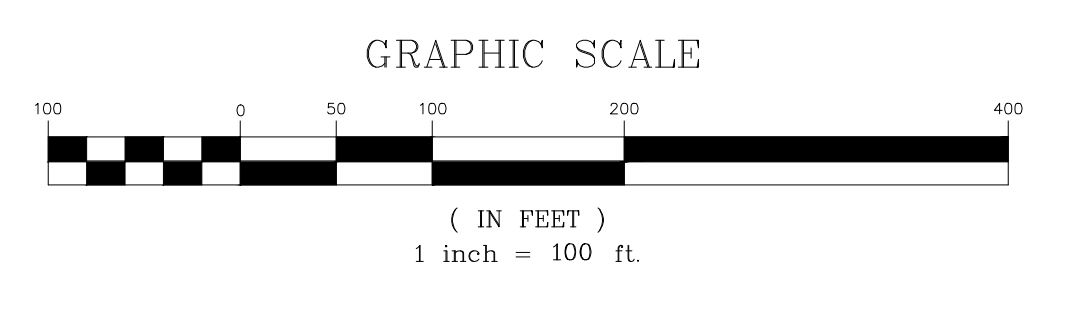
FOR COMPOSITE LINER DETAILS OF CELLS, PERIMETER DITCHES & BERMS, SEE DWG. H1C11144



- LEGEND:**
- PROPERTY LINE
  - SITE BOUNDARY
  - 200' SITE BUFFER
  - 500' WASTE LIMIT
  - STREAMS
  - 25' STREAM BUFFER
  - LIMITS OF CLEARING (SECURITY ROAD)
  - UNDERDRAIN EXTENTS (APPROXIMATE)
  - WETLANDS
  - EXISTING GROUND CONTOURS
  - FINAL GRADE CONTOURS
  - EXISTING SECURITY FENCE
  - PROPOSED SECURITY FENCE
  - 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

- NOTES:**
1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
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  3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
  4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
  5. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
  6. FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11145.
  7. SEE DRAWING H1C11145 FOR TYPICAL HEADWALL DETAILS AND SECTIONS.
  8. 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 LAYER DETAILS, DRAWING H1C11144. CELL NO. 2 SHOWN ON THIS DRAWING HAS NO LINER BUILDUP AND THE GRADES SHOWN ARE AT SUBGRADE ELEVATION (I.E. HDPE LINER ELEVATION MINUS 2 FEET).
  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.

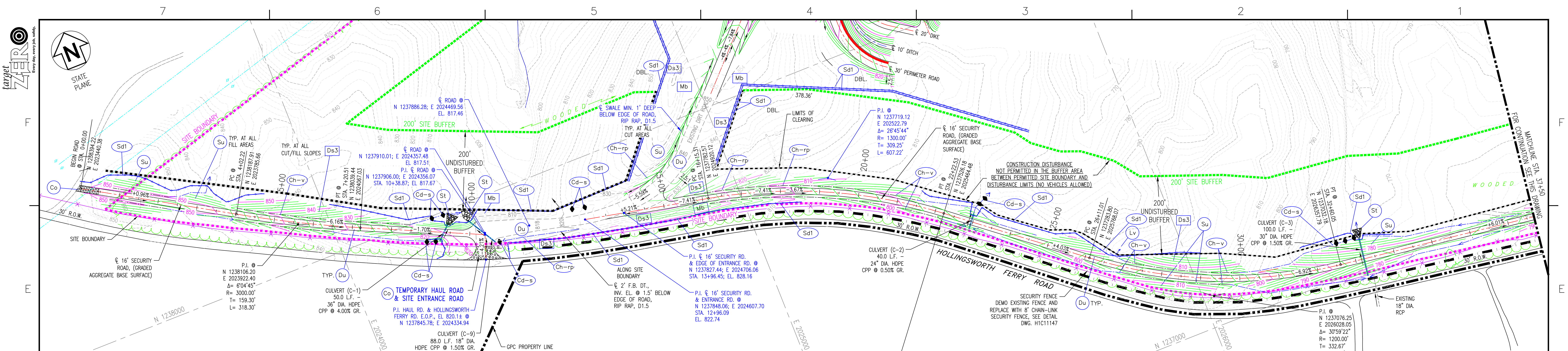


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**Southern Company Generation Engineering and Construction Services FOR**  
**Georgia Power Company**  
 PLANT WANSLEY  
 COAL COMBUSTION RESIDUALS (CCR) LANDFILL  
 CELL NO. 2 SITE DEVELOPMENT  
 ROUGH GRADE/BORROW PLAN



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE																
BY	CHK'D	CIVL APPR	ELECT APPR	V/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	V/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	V/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	V/C APPR	MECH APPR	DISC MGR



**CULVERT TABLE**

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

**LEGEND:**

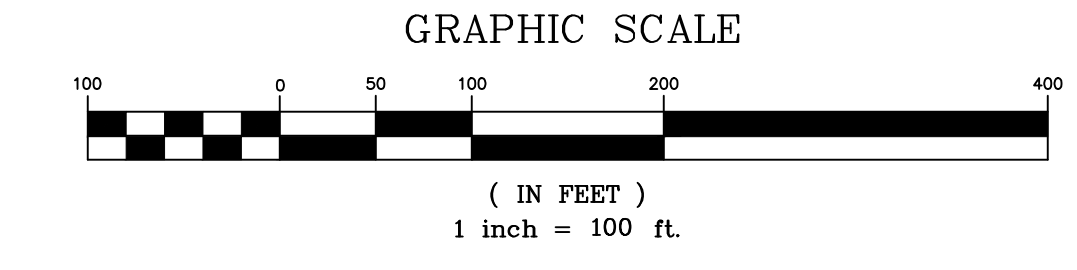
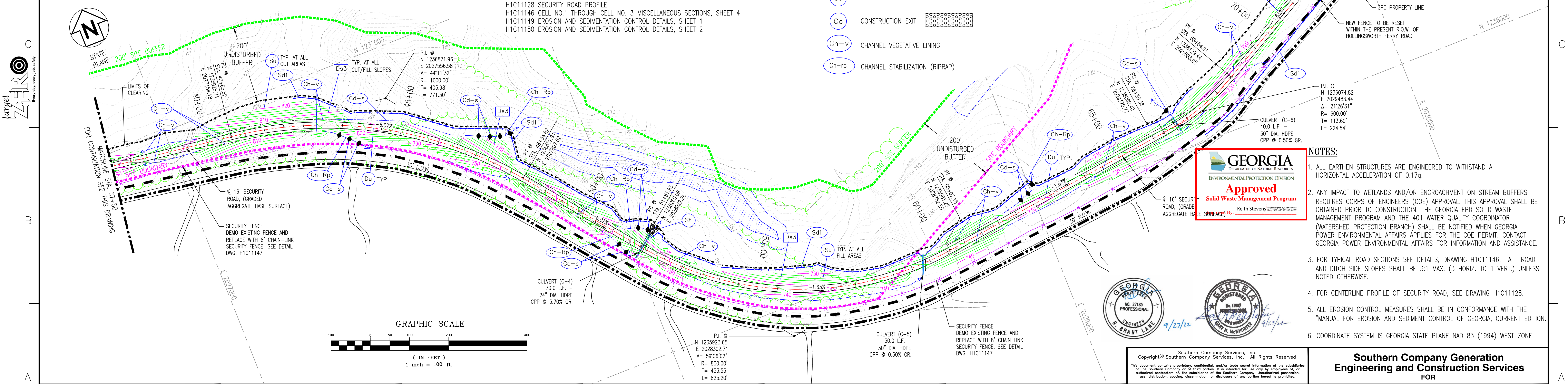
- PROPERTY LINE
- SITE BOUNDARY
- 200' UNDISTURBED BUFFER
- 500' WASTE BUFFER
- STREAMS
- 25' STREAM AND WETLAND BUFFER
- LIMITS OF CLEARING (SECURITY ROAD)
- WETLANDS
- EXISTING GROUND CONTOURS
- FINAL GRADE CONTOURS
- EXISTING SECURITY FENCE
- PROPOSED SECURITY FENCE
- TREELINE

**EROSION CONTROL LEGEND**

- SILT FENCE (SEE H1C11149)
- DIVERSION (SEE H1C11149)
- LEVEL SPREADER
- DUST CONTROL
- STONE CHECK DAM (2"-10" STONE)
- TEMPORARY SEDIMENT BASIN
- DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)
- STORMDRAIN OUTLET PROTECTION
- SURFACE ROUGHENING
- CONSTRUCTION EXIT
- CHANNEL VEGETATIVE LINING
- CHANNEL STABILIZATION (RIPRAP)

**REFERENCES:**

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



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

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

**GEORGIA**  
REGISTERED PROFESSIONAL ENGINEER  
NO. 27185  
BRANT LINE  
9/27/22

**GEORGIA**  
REGISTERED PROFESSIONAL ENGINEER  
NO. 19897  
BRANT LINE  
9/26/22

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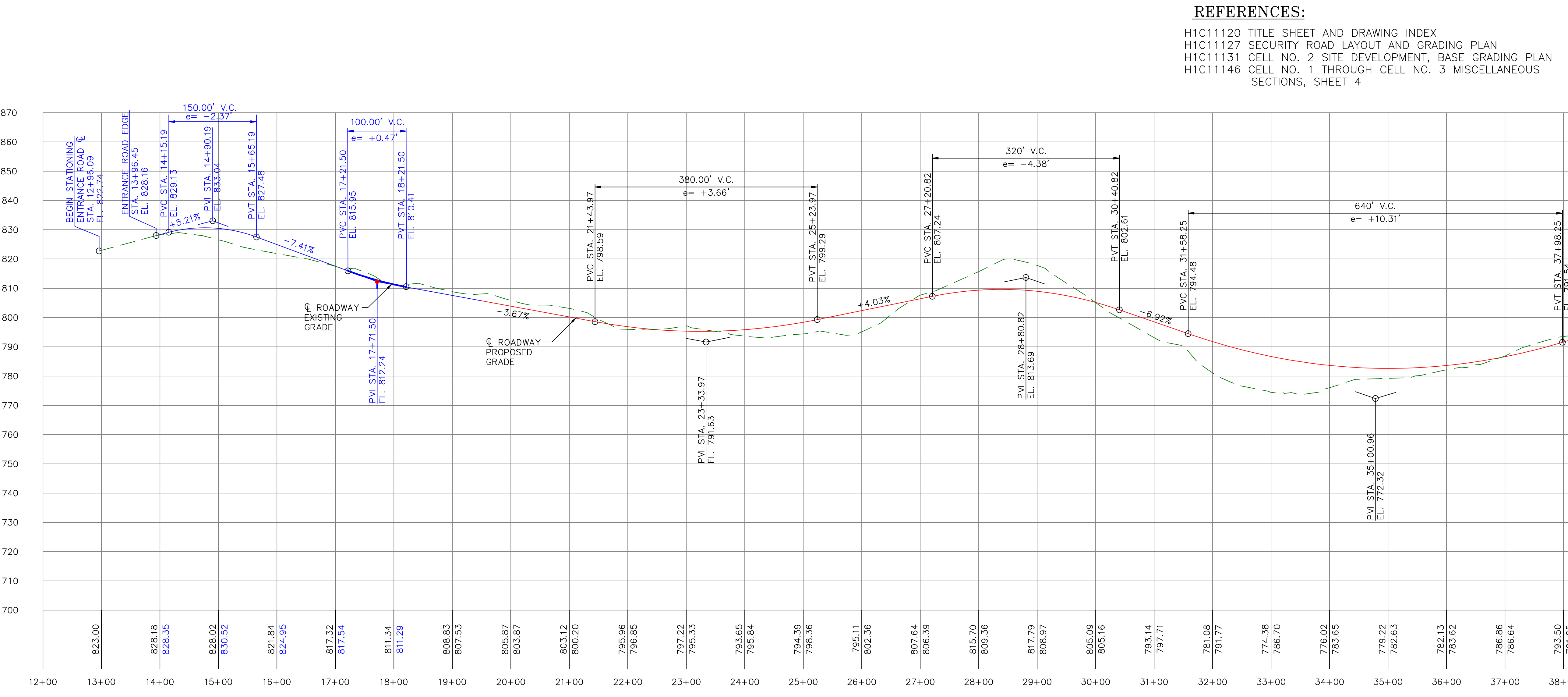
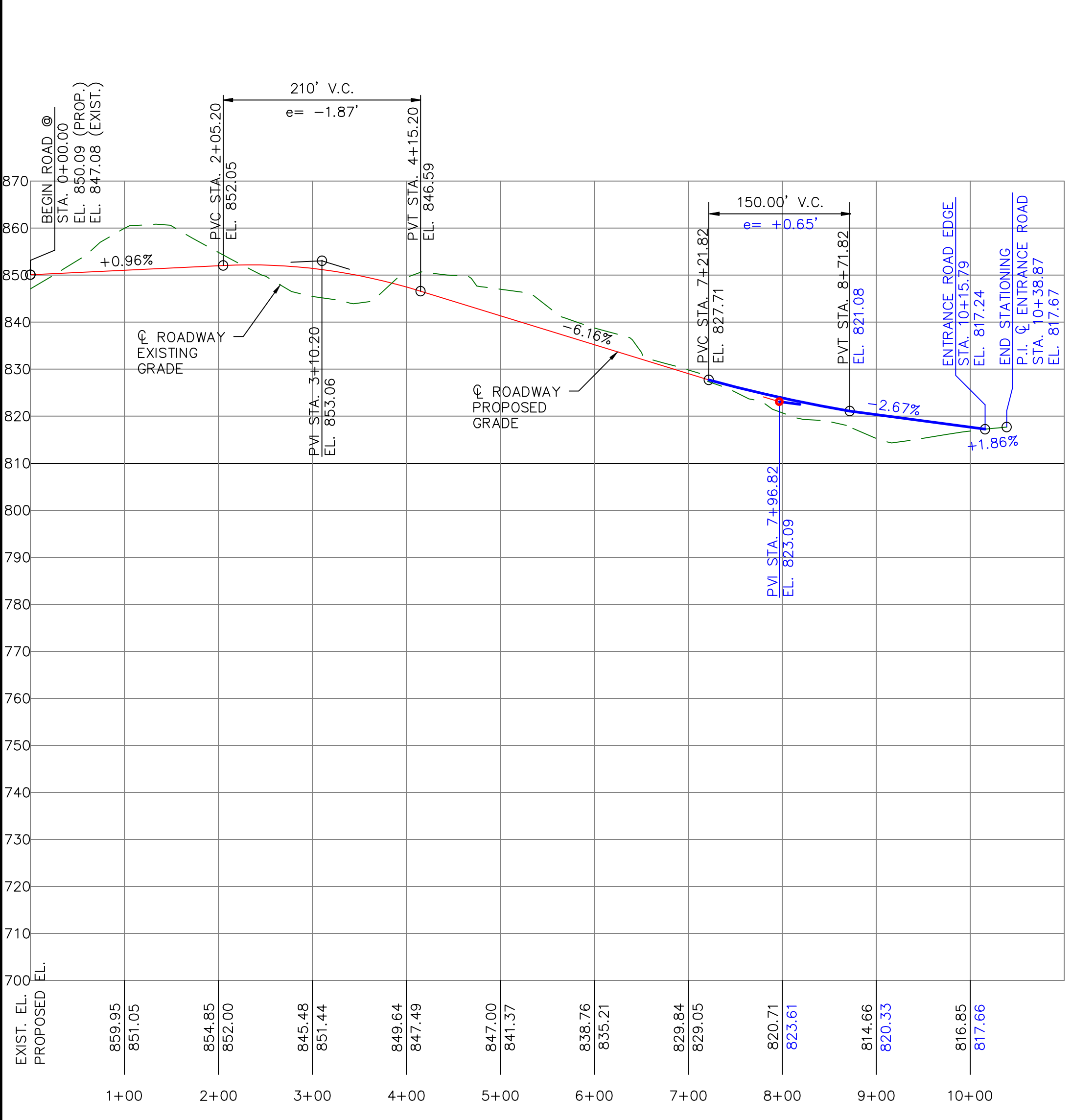
**Southern Company Generation Engineering and Construction Services FOR**  
**Georgia Power Company**  
PLANT WANSLEY  
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY  
SITE DEVELOPMENT  
SECURITY ROAD PLAN

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	
0	09-23-2022																			

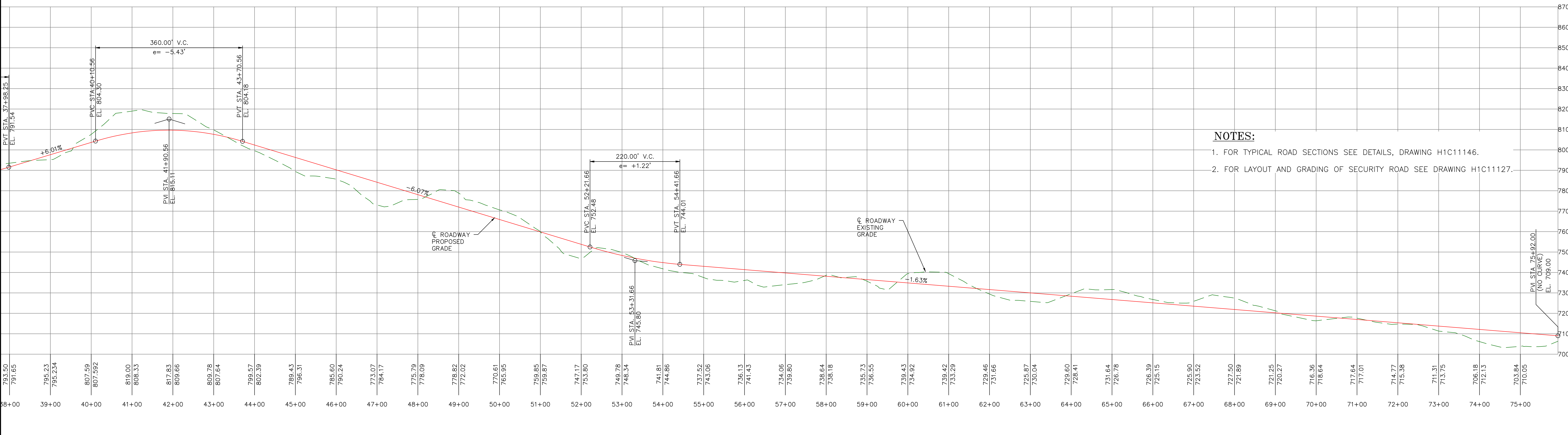
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ANR	RBL																																	1"=100'	H1C11127	1	FINAL	O	



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

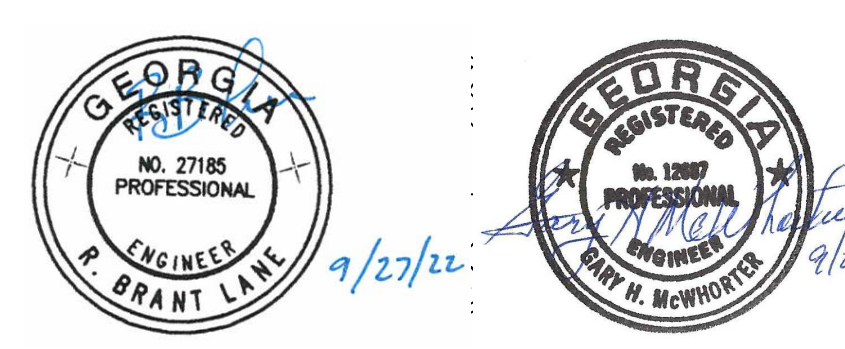


**SECURITY ROAD PROFILE**  
 SCALE H: 1"=100', V: 1"=10'



**SECURITY ROAD PROFILE**  
 SCALE H: 1"=100', V: 1"=10'

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



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

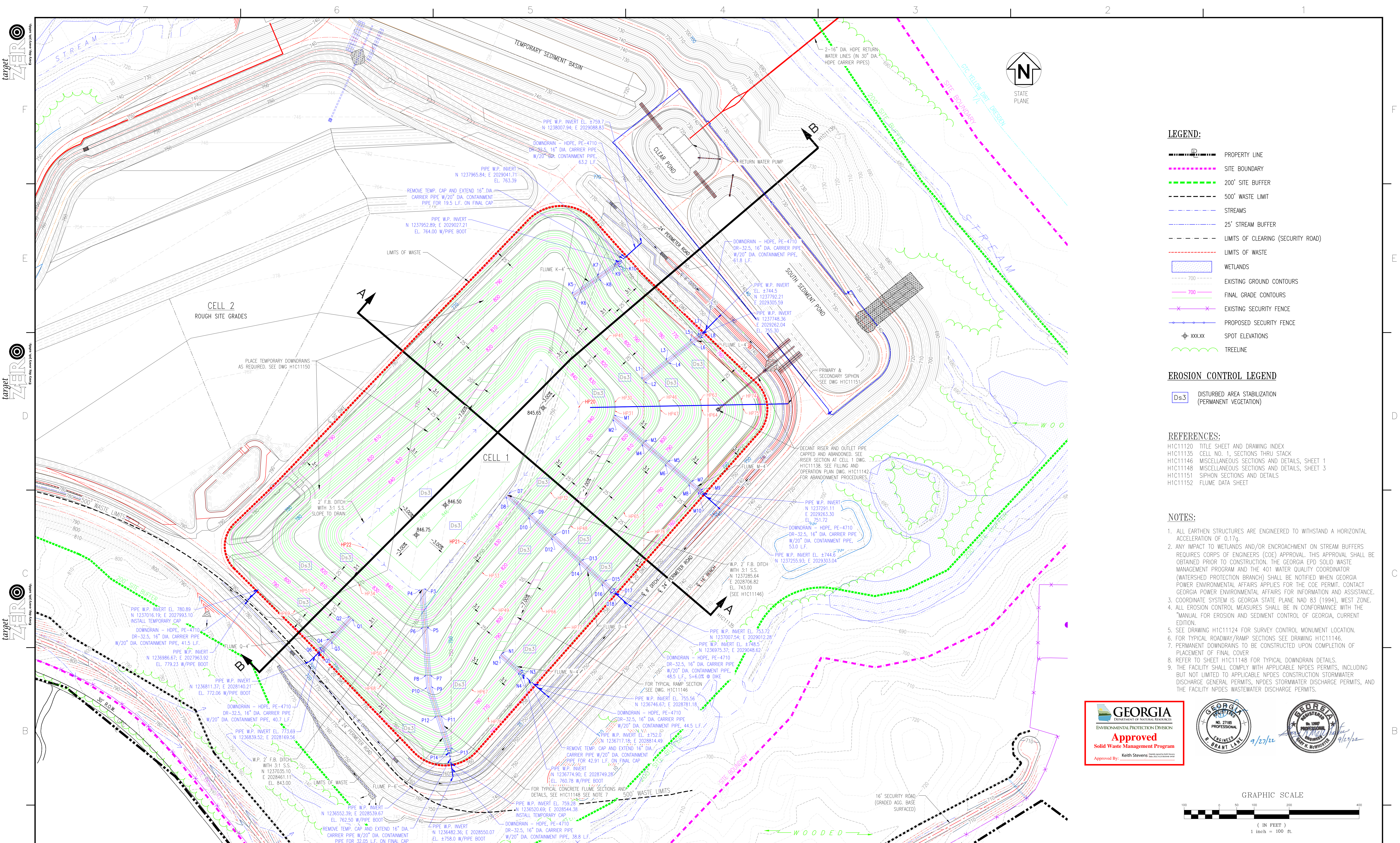
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REVISION 0	DATE 09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

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

**Georgia Power Company**

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

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	<b>H1C11128</b>	1	FINAL	0

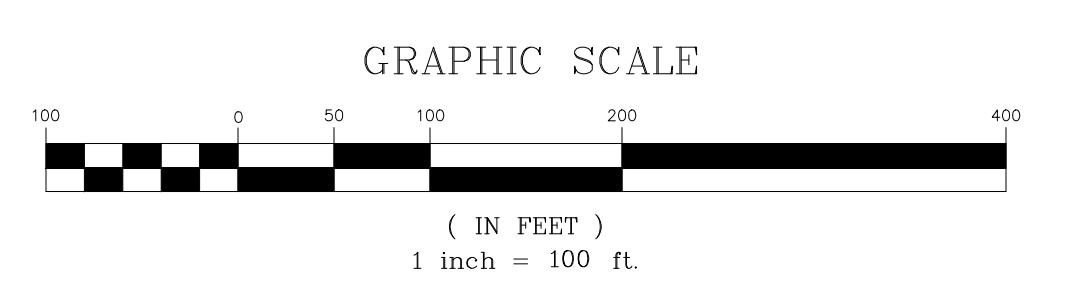


- LEGEND:**
- PROPERTY LINE
  - SITE BOUNDARY
  - 200' SITE BUFFER
  - 500' WASTE LIMIT
  - STREAMS
  - 25' STREAM BUFFER
  - LIMITS OF CLEARING (SECURITY ROAD)
  - LIMITS OF WASTE
  - WETLANDS
  - EXISTING GROUND CONTOURS
  - FINAL GRADE CONTOURS
  - EXISTING SECURITY FENCE
  - PROPOSED SECURITY FENCE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

- EROSION CONTROL LEGEND**
- Ds3 DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)

- REFERENCES:**
- H1C1120 TITLE SHEET AND DRAWING INDEX
  - H1C1135 CELL NO. 1, SECTIONS THRU STACK
  - H1C1146 MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1
  - H1C1148 MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
  - H1C1151 SIPHON SECTIONS AND DETAILS
  - H1C1152 FLUME DATA SHEET

- NOTES:**
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  3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
  4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
  5. SEE DRAWING H1C1124 FOR SURVEY CONTROL MONUMENT LOCATION.
  6. FOR TYPICAL ROADWAY/RAMP SECTIONS SEE DRAWING H1C1146.
  7. PERMANENT DOWNDRAINS TO BE CONSTRUCTED UPON COMPLETION OF PLACEMENT OF FINAL COVER.
  8. REFER TO SHEET H1C1148 FOR TYPICAL DOWNDRAIN DETAILS.
  9. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.



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

**Georgia Power Company**

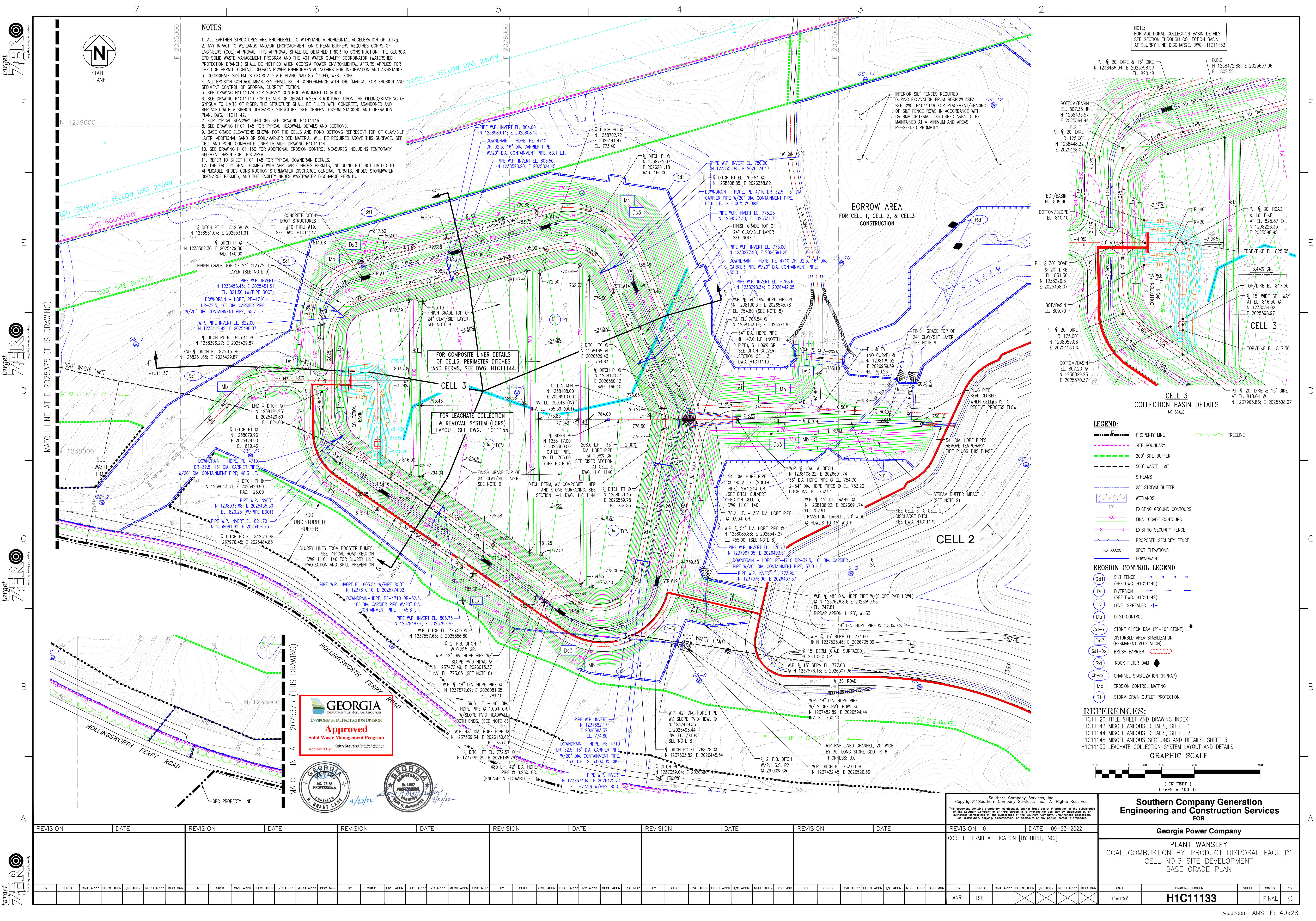
PLANT WANSLEY  
 COAL COMBUSTION RESIDUALS (CCR) LANDFILL  
 CELL NO. 1 SITE DEVELOPMENT  
 FINAL STACKING PLAN

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

REVISION	0	DATE	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]			
SCALE	1"=100'	DRAWING NUMBER	H1C1130
SHEET	1	CONT'D	0
REV	0	BY	ANR







- NOTES:**
1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
  2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPO SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
  3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
  4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
  5. SEE DRAWING H1C11124 FOR SURVEY CONTROL MONUMENT LOCATION.
  6. SEE DRAWING H1C11143 FOR DETAILS OF DECANT RISER STRUCTURE. UPON THE FILLING/STACKING OF OPIUM TO LIMITS OF RISER, THE STRUCTURE SHALL BE FILLED WITH CONCRETE, ABANDONED AND REPLACED WITH A SIPHON DISCHARGE STRUCTURE. SEE GENERAL GSSUM STACKING AND OPERATION PLAN, DWG. H1C11142.
  7. FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C11146.
  8. SEE DRAWING H1C11145 FOR TYPICAL HEADWALL DETAILS AND SECTIONS.
  9. BASE GRADE ELEVATIONS SHOWN FOR THE CELLS AND POND BOTTOMS REPRESENT TOP OF CLAY/SILT LAYER. ADDITIONAL SAND OR SOIL/MARKER BED MATERIAL WILL BE REQUIRED ABOVE THIS SURFACE. SEE CELL AND POND COMPOSITE LINER DETAILS, DRAWING H1C11144.
  10. SEE DRAWING H1C11150 FOR ADDITIONAL EROSION CONTROL MEASURES INCLUDING TEMPORARY SEDIMENT BASIN FOR THIS AREA.
  11. REFER TO SHEET H1C11148 FOR TYPICAL DOWNDRAIN DETAILS.
  12. THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.

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

- LEGEND:**
- PROPERTY LINE
  - SITE BOUNDARY
  - 200' SITE BUFFER
  - 500' WASTE LIMIT
  - STREAMS
  - 25' STREAM BUFFER
  - WETLANDS
  - EXISTING GROUND CONTOURS
  - FINAL GRADE CONTOURS
  - EXISTING SECURITY FENCE
  - PROPOSED SECURITY FENCE
  - 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)
  - Disturbed Area Stabilization (PERMANENT VEGETATION)
  - Brush Barrier
  - Sd1-Bb BRUSH BARRIER
  - Rd ROCK FILTER DAM
  - Ch-rp CHANNEL STABILIZATION (RIPRAP)
  - Mb EROSION CONTROL MATTING
  - St STORM DRAIN OUTLET PROTECTION

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

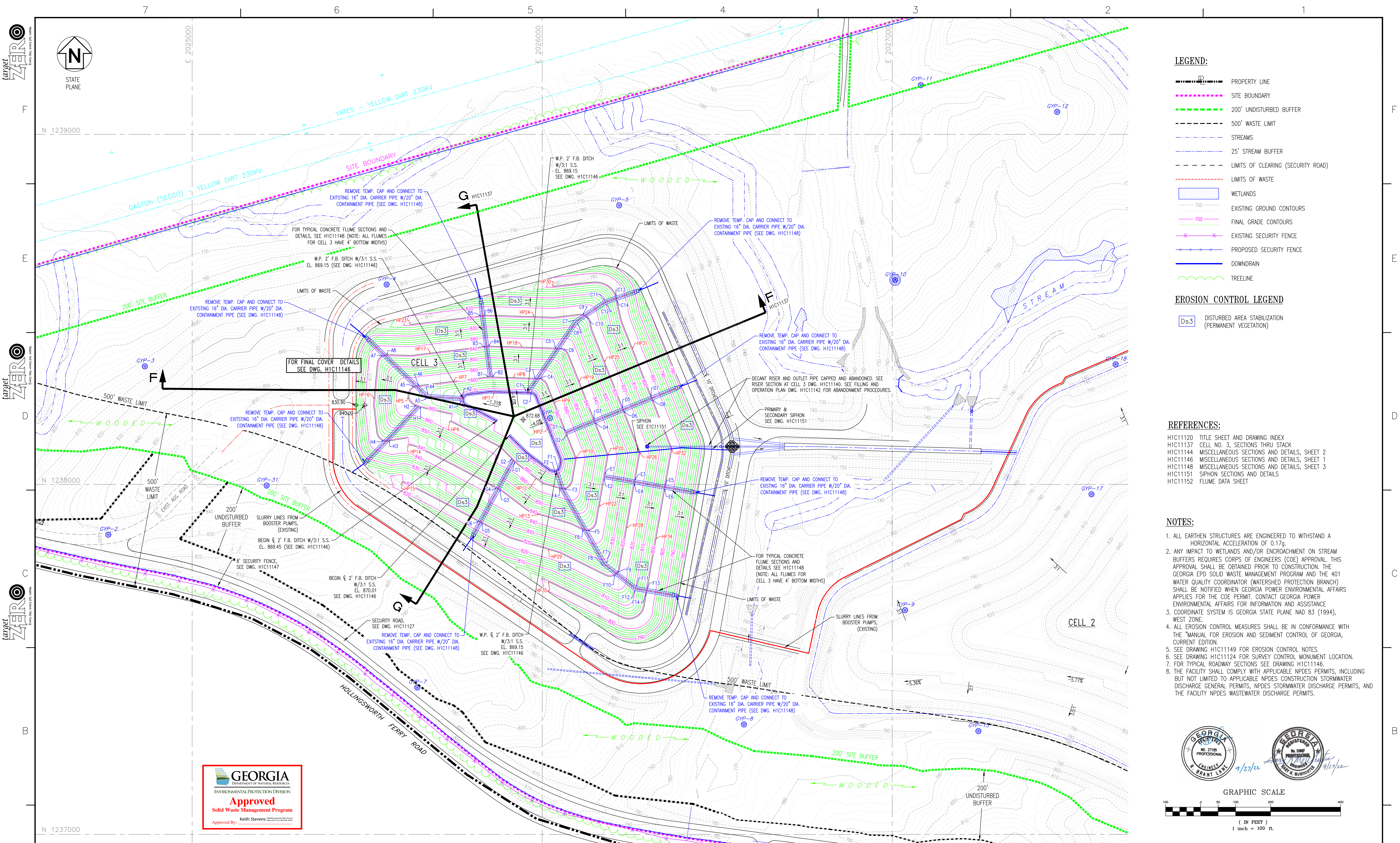
**GRAPHIC SCALE**  
(IN FEET)  
1 inch = 100 ft

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

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

**GEORGIA**  
REGISTERED PROFESSIONAL ENGINEER  
No. 18907  
DANN M. McINTOSH  
9/23/22

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
0		0		0		0		0		0		0	
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<b>Southern Company Generation Engineering and Construction Services FOR</b> <b>Georgia Power Company</b> PLANT WANSLEY COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY CELL NO.3 SITE DEVELOPMENT BASE GRADE PLAN													
BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL						BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
SCALE: 1"=100' DRAWING NUMBER: <b>H1C11133</b> SHEET: 1 CONT'D: 0 REV: 0													



- LEGEND:**
- PROPERTY LINE
  - SITE BOUNDARY
  - 200' UNDISTURBED BUFFER
  - 500' WASTE LIMIT
  - STREAMS
  - 25' STREAM BUFFER
  - LIMITS OF CLEARING (SECURITY ROAD)
  - LIMITS OF WASTE
  - WETLANDS
  - EXISTING GROUND CONTOURS
  - FINAL GRADE CONTOURS
  - EXISTING SECURITY FENCE
  - PROPOSED SECURITY FENCE
  - DOWNDRAIN
  - TREELINE
- EROSION CONTROL LEGEND**
- Ds3 DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)

- REFERENCES:**
- H1C1120 TITLE SHEET AND DRAWING INDEX
  - H1C1137 CELL NO. 3, SECTIONS THRU STACK
  - H1C1144 MISCELLANEOUS SECTIONS AND DETAILS, SHEET 2
  - H1C1146 MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1
  - H1C1148 MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
  - H1C1151 SIPHON SECTIONS AND DETAILS
  - H1C1152 FLUME DATA SHEET

- NOTES:**
- ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
  - 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 WEST ZONE.
  - COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
  - ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
  - SEE DRAWING H1C1149 FOR EROSION CONTROL NOTES.
  - SEE DRAWING H1C1124 FOR SURVEY CONTROL MONUMENT LOCATION.
  - FOR TYPICAL ROADWAY SECTIONS SEE DRAWING H1C1146.
  - THE FACILITY SHALL COMPLY WITH APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES STORMWATER DISCHARGE PERMITS, AND THE FACILITY NPDES WASTEWATER DISCHARGE PERMITS.



GEORGIA REGISTERED PROFESSIONAL ENGINEER  
R. GRANT LANE  
9/27/22

GEORGIA REGISTERED PROFESSIONAL ENGINEER  
DAVE H. McWORTHY  
9/26/22

GRAPHIC SCALE  
1 inch = 100 ft.

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

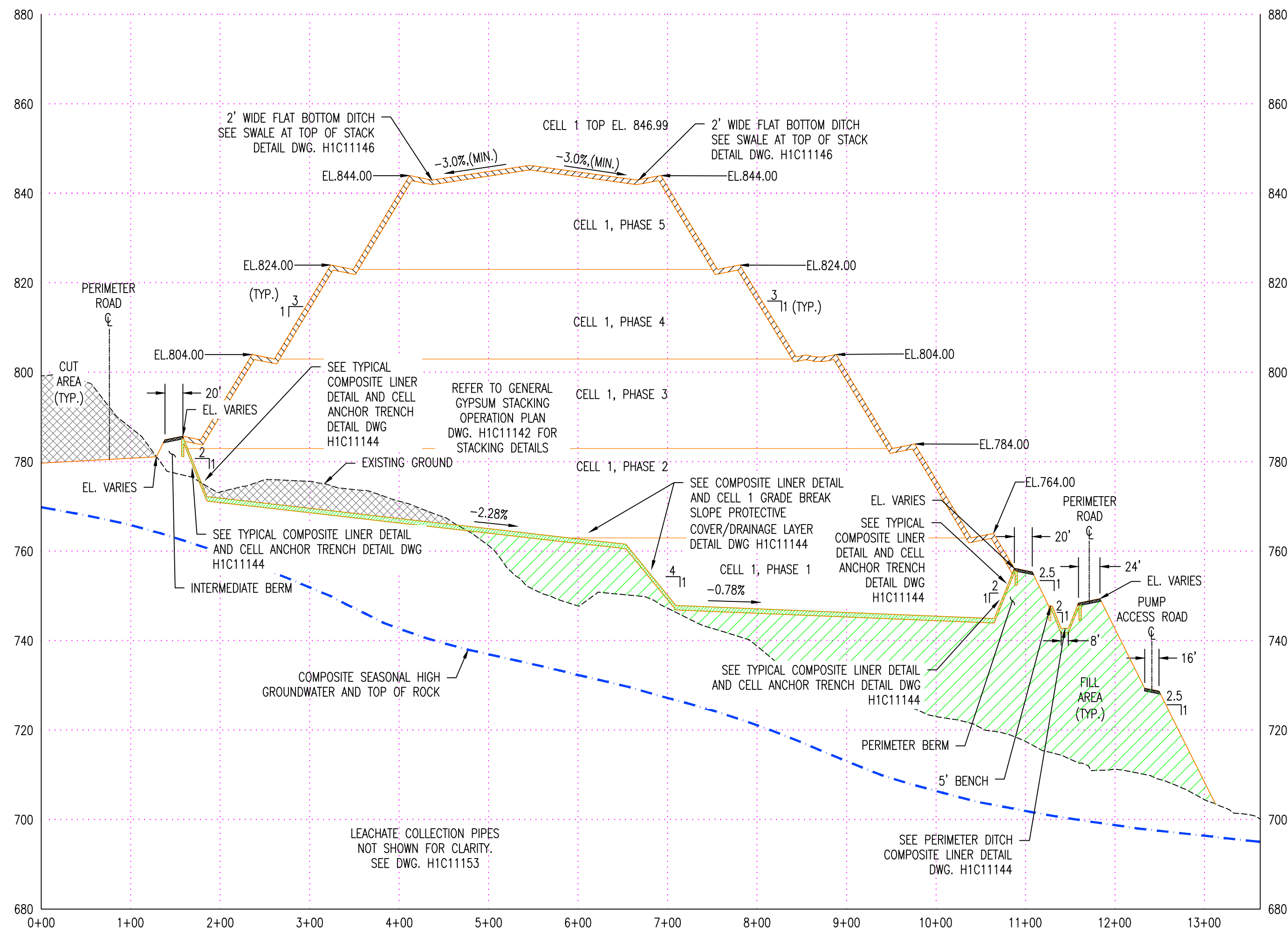
**Georgia Power Company**

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

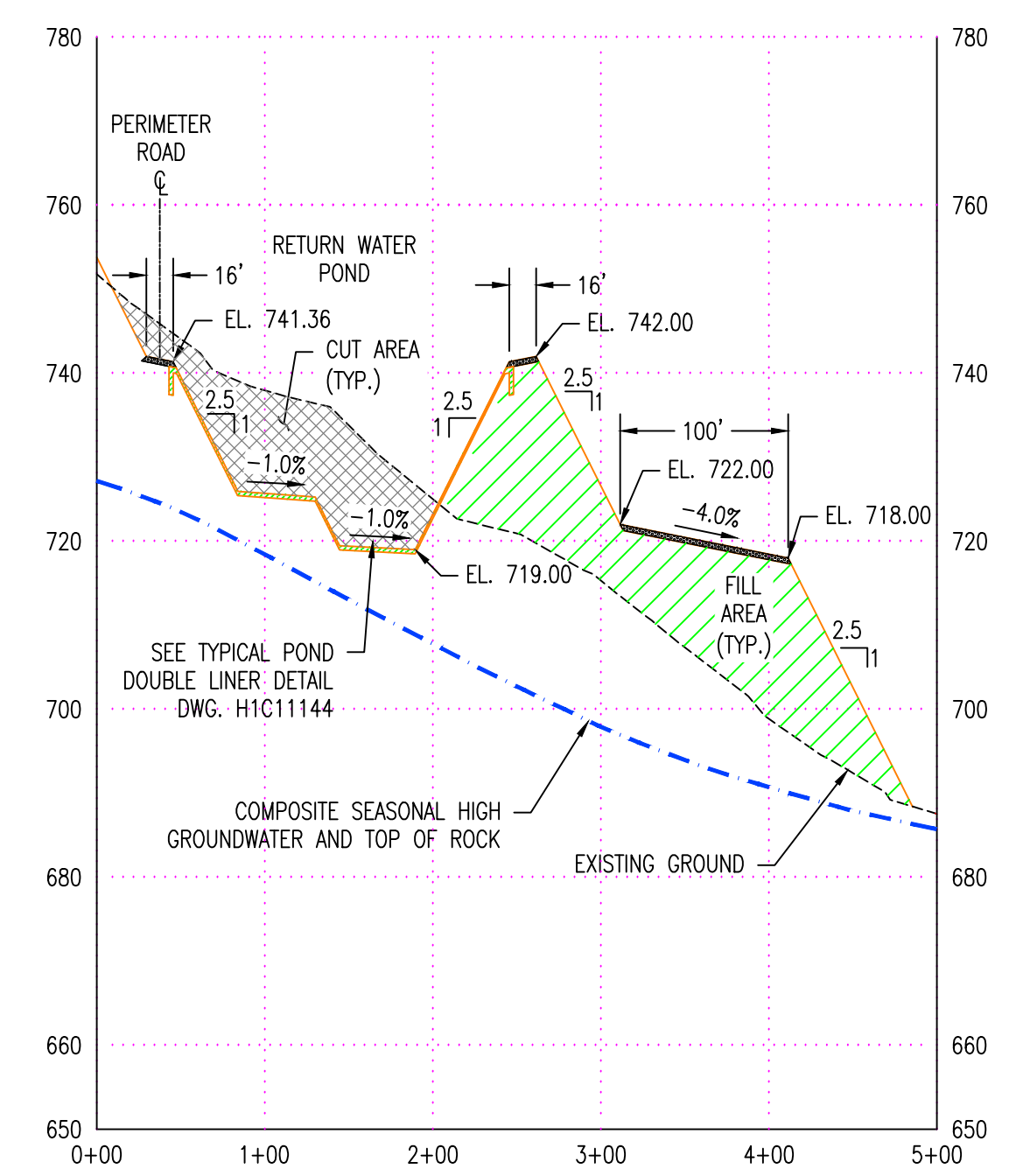
REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE

REVISION 0	DATE 09-23-2022	SCALE 1"=100'	DRAWING NUMBER H1C1134	SHEET 1	CONT'D	REV 0
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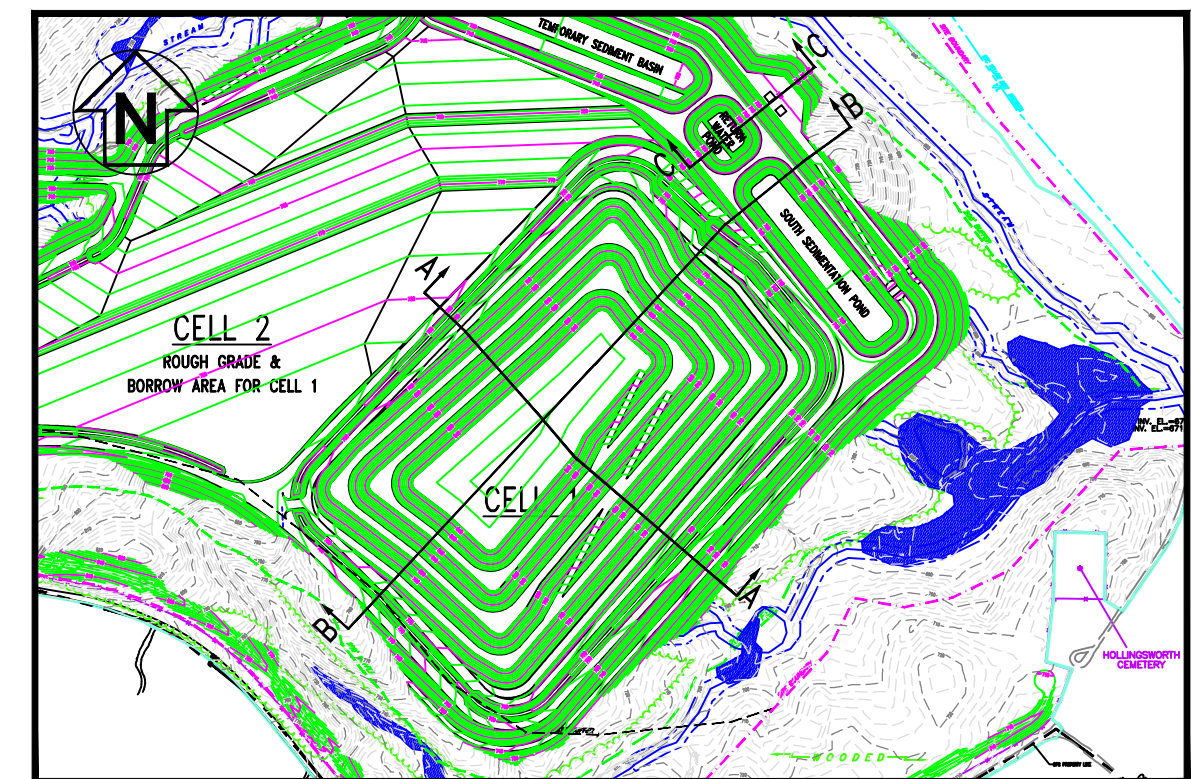
target ZER Energy. Every day. Every year. Every way.



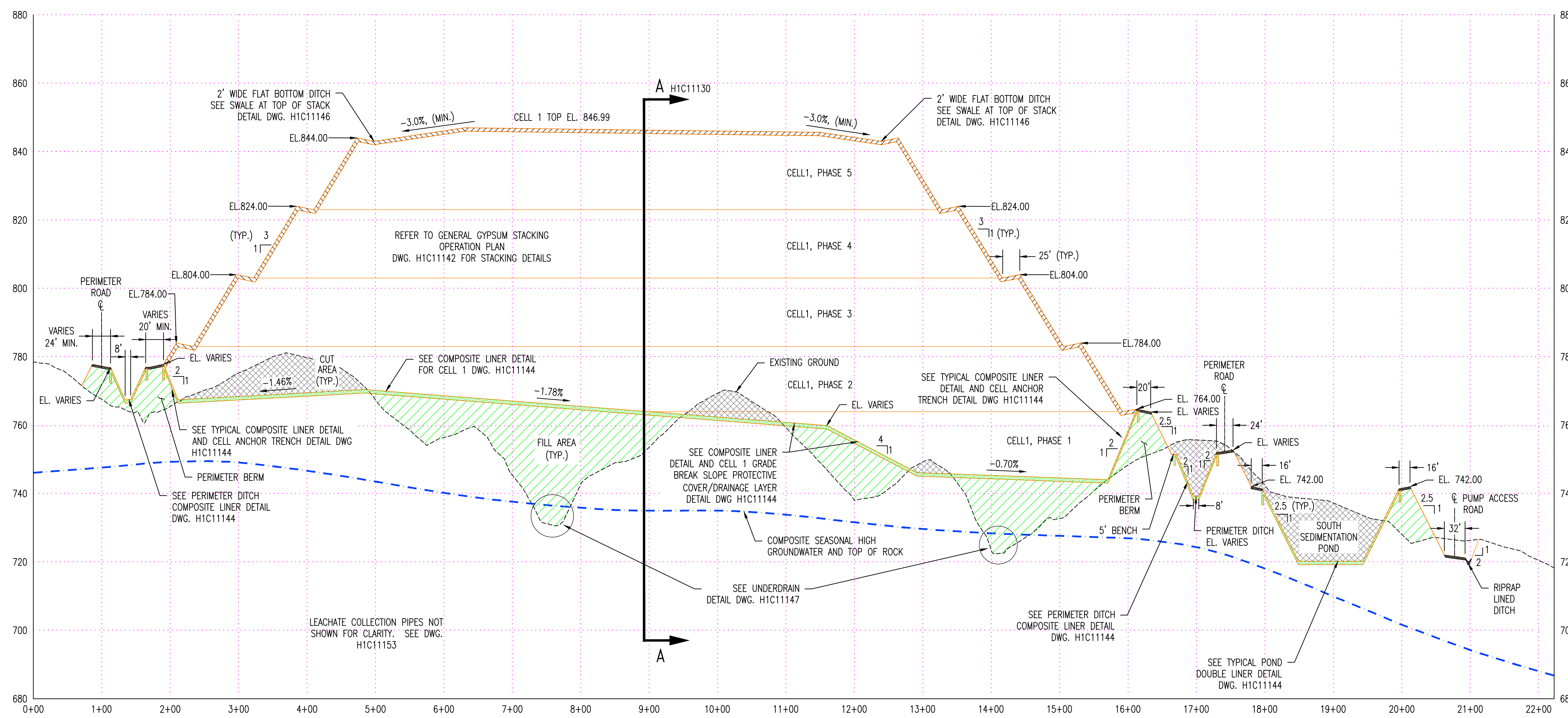
SECTION A-A  
SCALE H: 1"=100' V 1"=20'



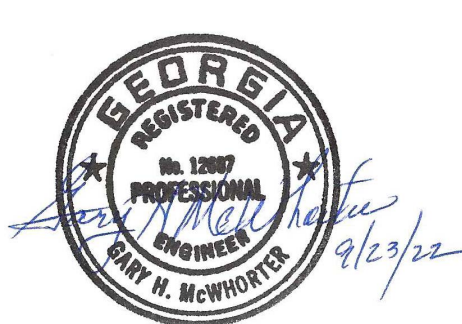
CELL 1 SECTION C-C  
SCALE H: 1"=100' V 1"=20'



KEY PLAN  
N.T.S.



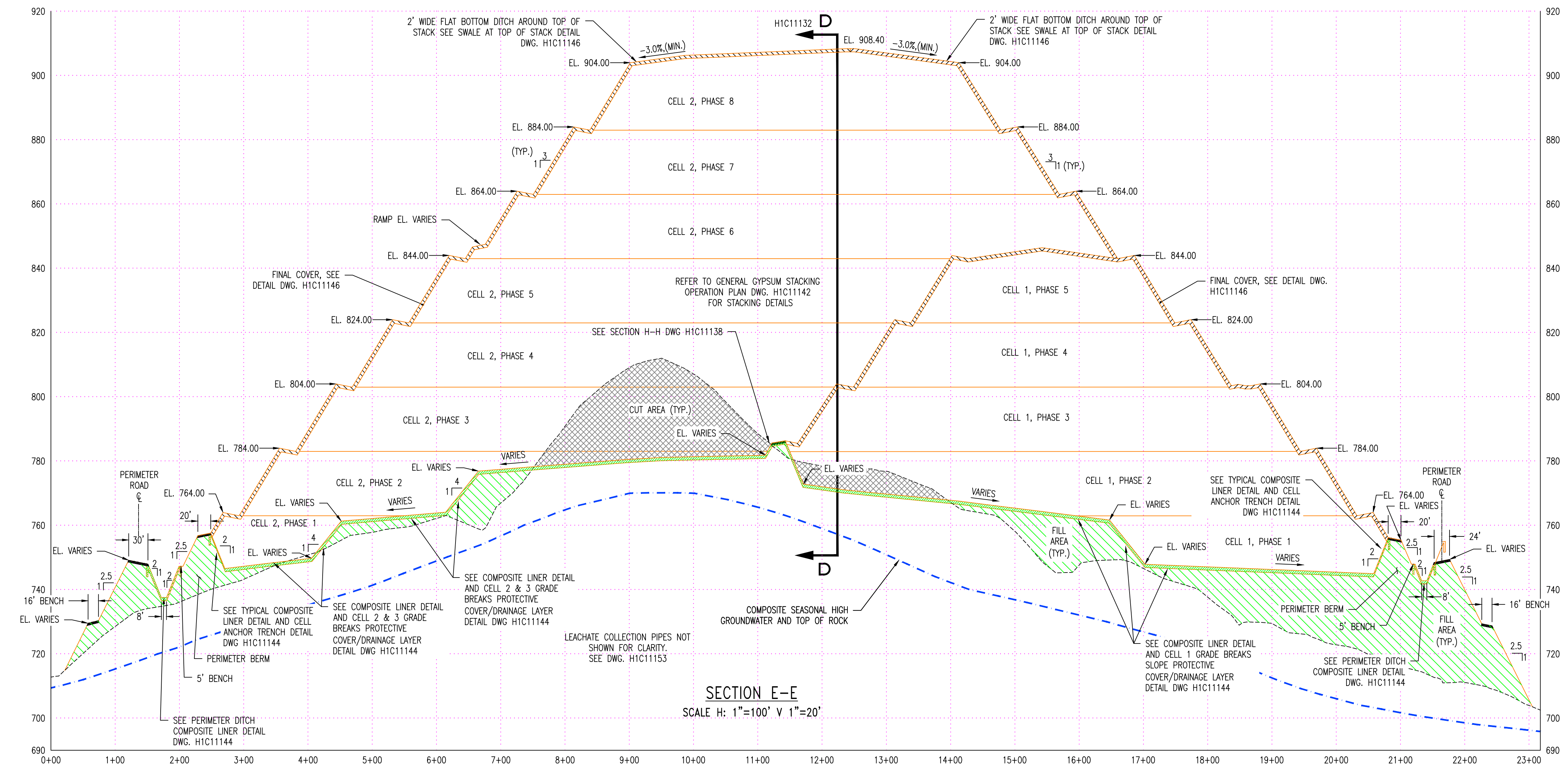
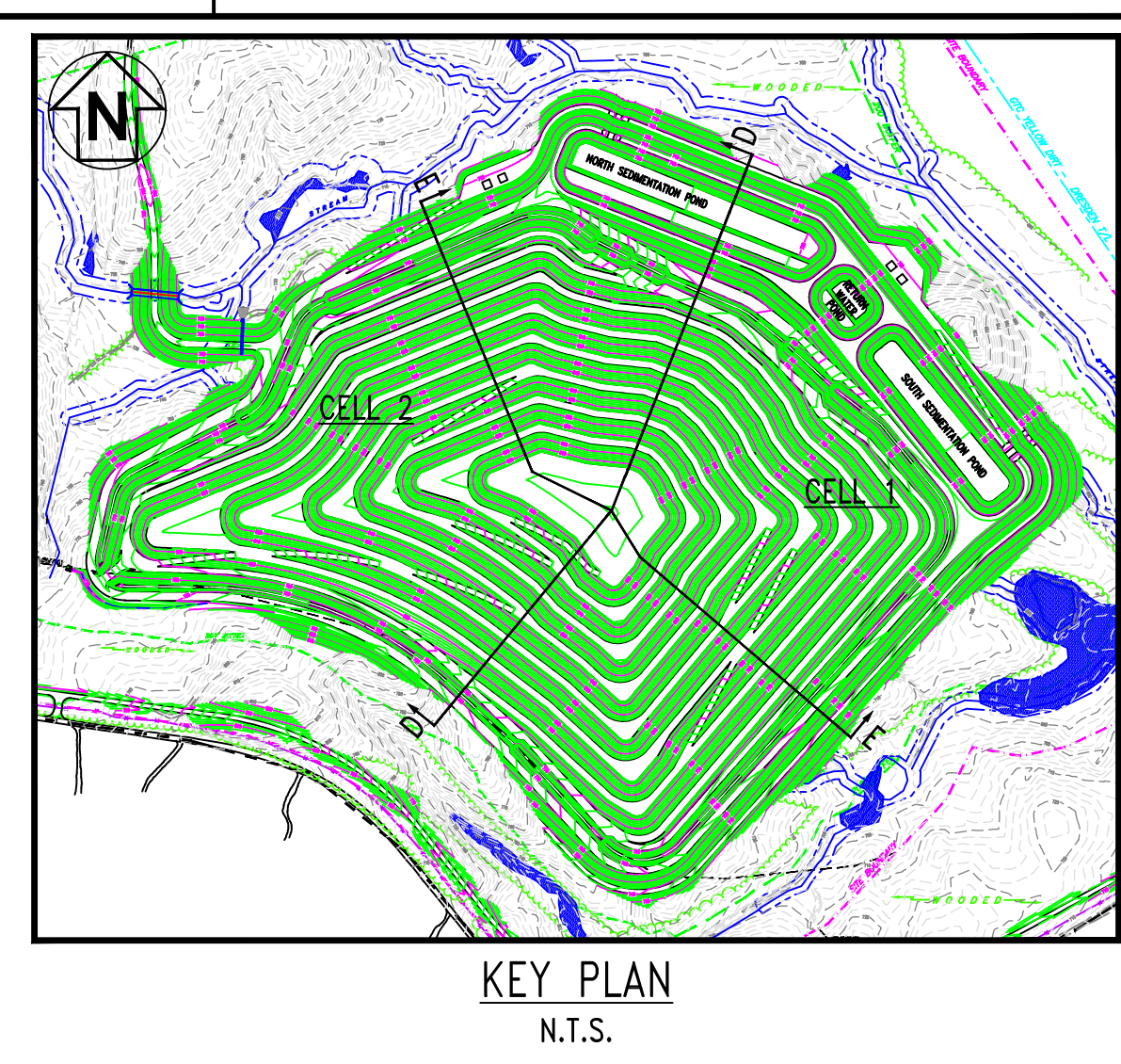
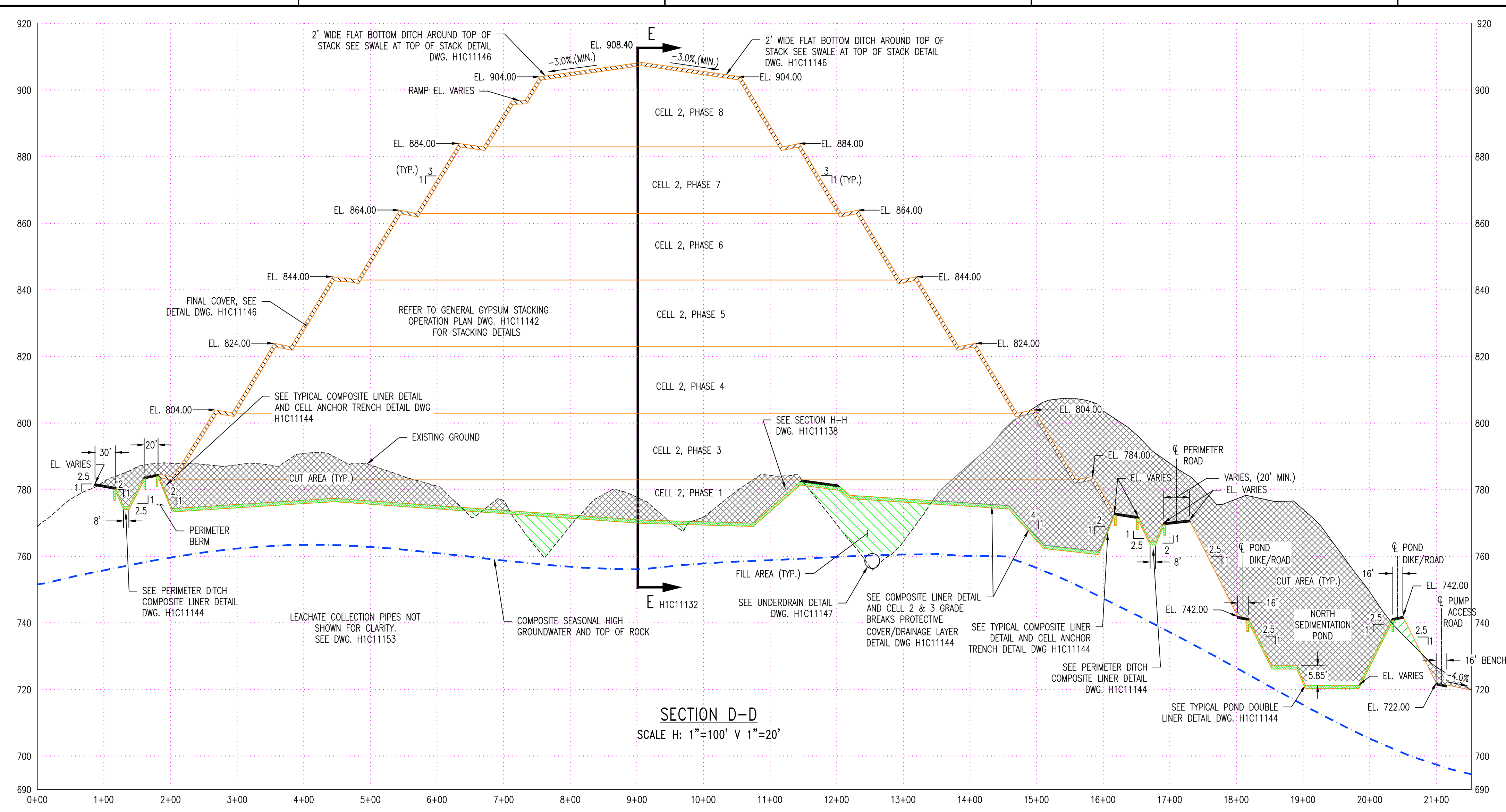
SECTION B-B  
SCALE H: 1"=100' V 1"=20'



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

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

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE										
				3	3-20-12					0	09-23-2022														
GENERAL REVISION												Southern Company Generation Engineering and Construction Services FOR Georgia Power Company													
MWD: ECS774												PLANT WANSLEY COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY CELL NO. 1 SECTIONS THRU STACK													
BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
							JWM	OSM	MHL	RCB					ANR	RBL					AS NOTED	H1C11135	1	FINAL	0



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

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

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

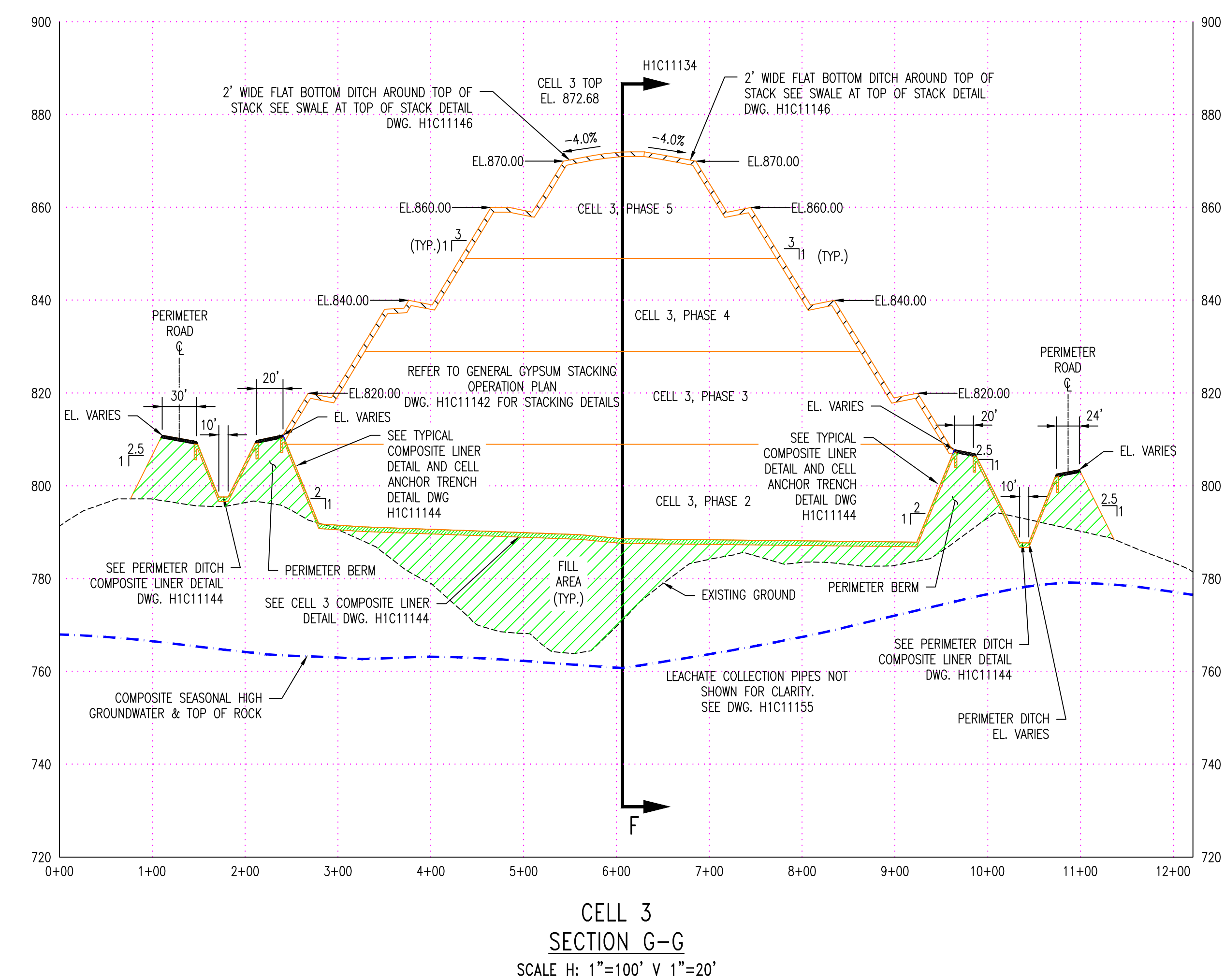
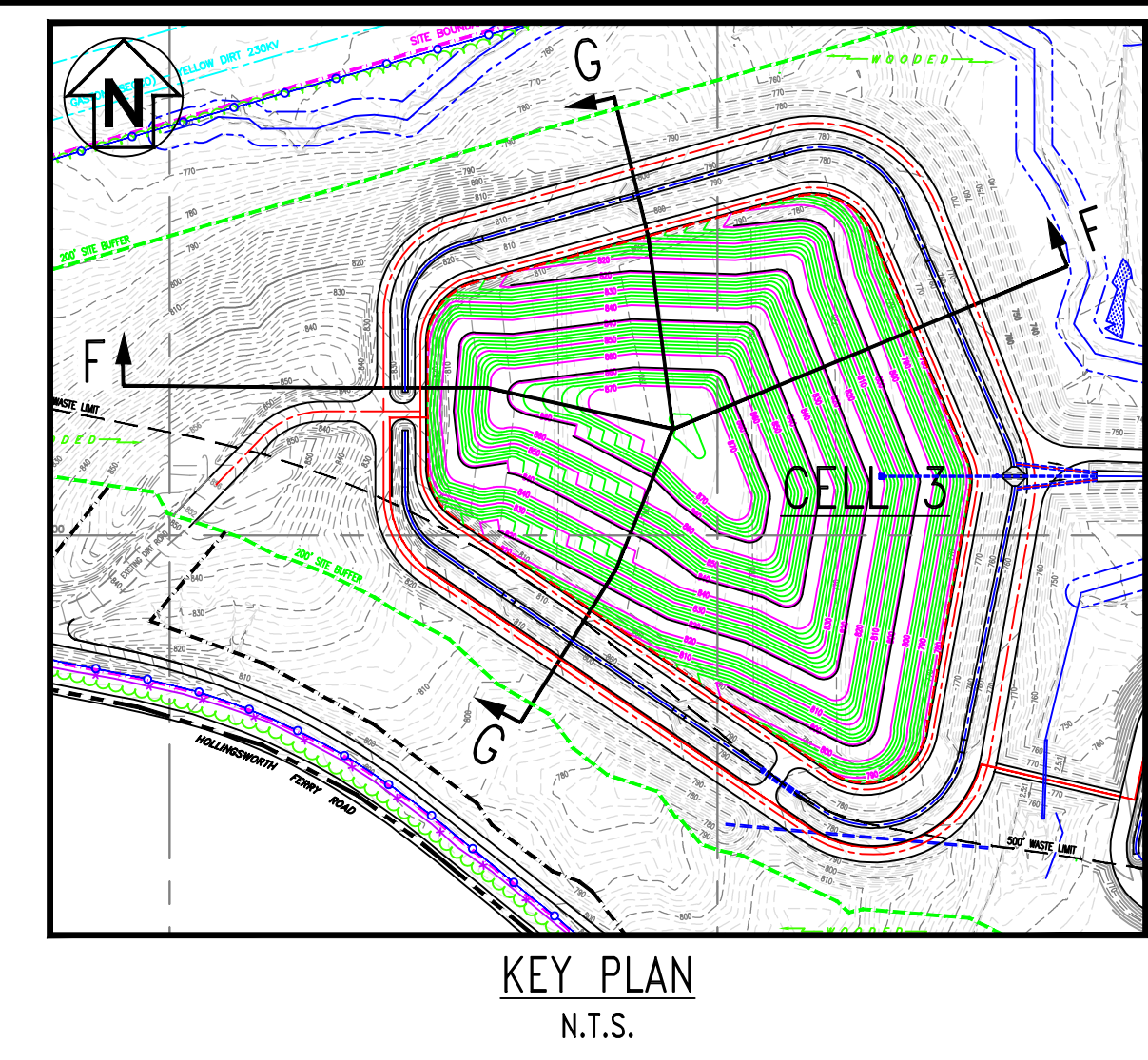
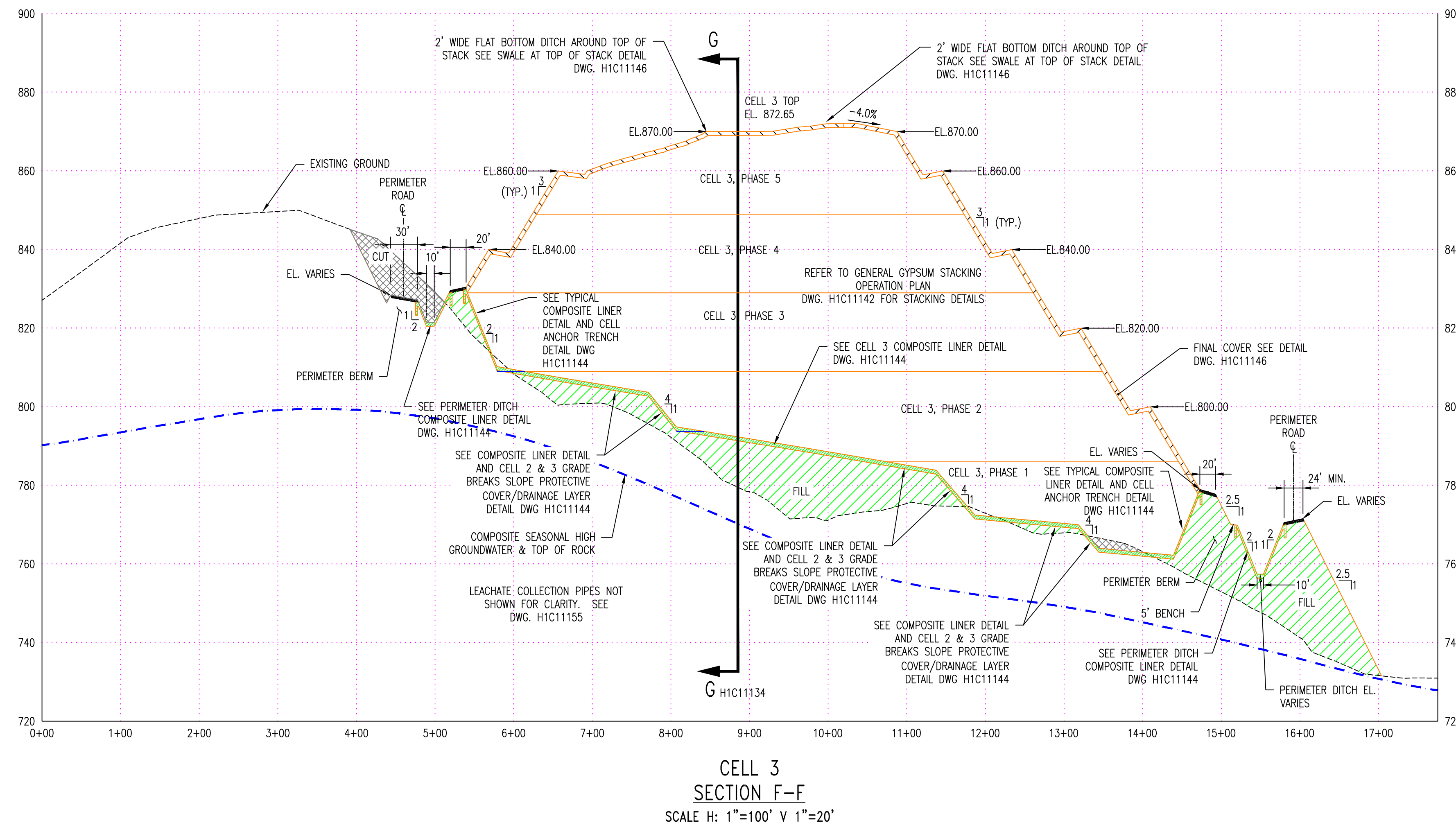
**Southern Company Generation Engineering and Construction Services FOR**

**Georgia Power Company**

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

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	<b>H1C11136</b>	1	FINAL	0



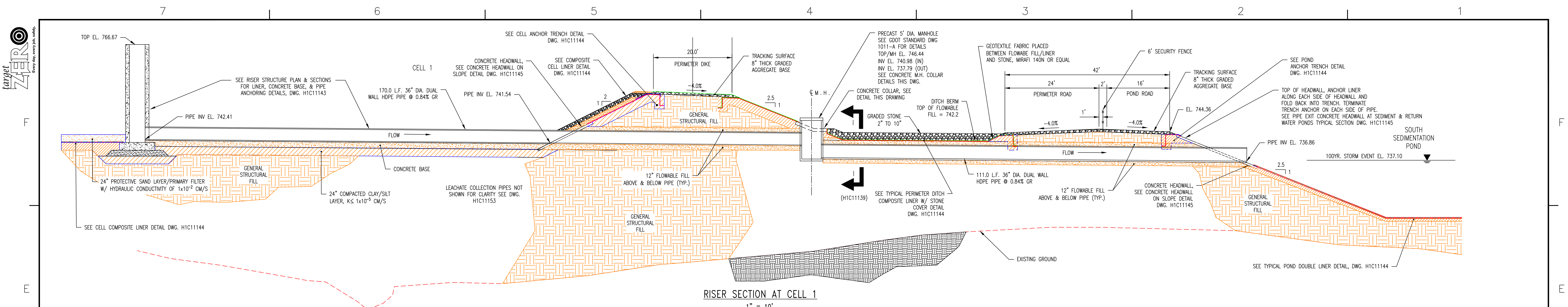


- NOTES:**
1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.17g.
  2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
  3. COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994) WEST ZONE.
  4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA," CURRENT EDITION.
  5. BASE GRADE ELEVATIONS SHOWN FOR THE CELL REPRESENT TOP OF CLAY/SILT LAYER. ADDITIONAL SAND WILL BE REQUIRED ABOVE THIS SURFACE. SEE CELL COMPOSITE LINER DETAILS, DRAWING H1C1144.

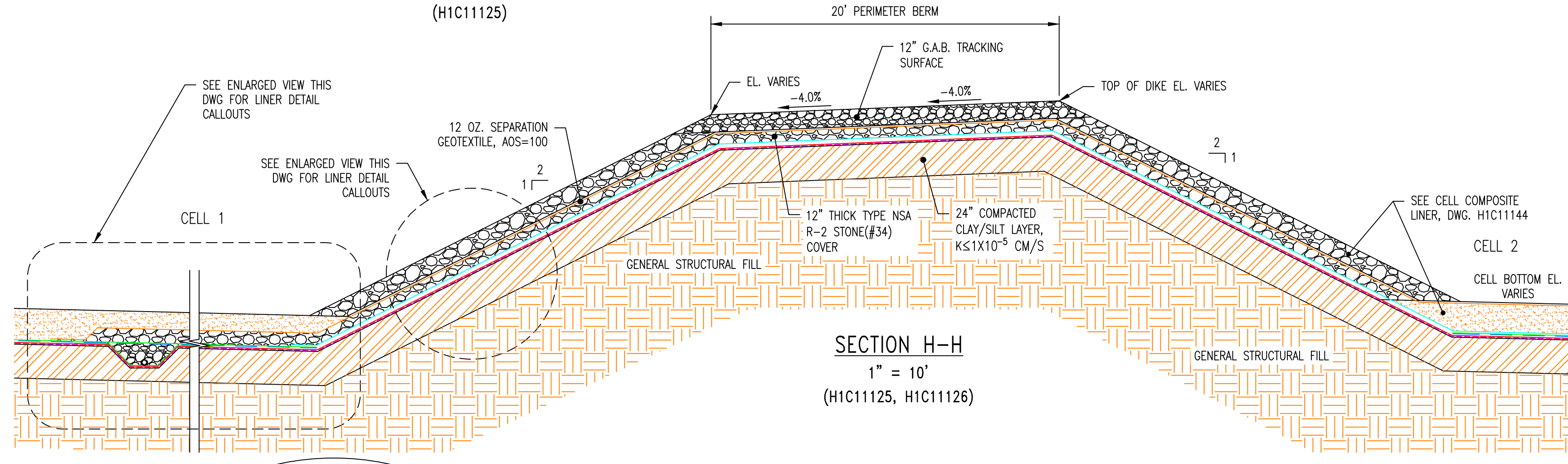
- REFERENCES:**
- H1C1134 CELL NO. 3 FINAL STACKING PLAN
  - H1C1142 GENERAL GYPSUM STACKING, OPERATION PLAN
  - H1C1144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2
  - H1C1146 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1
  - H1C1147 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 2
  - H1C1155 CELL NO. 3 LEACHATE COLLECTION SYSTEM LAYOUT & DETAILS



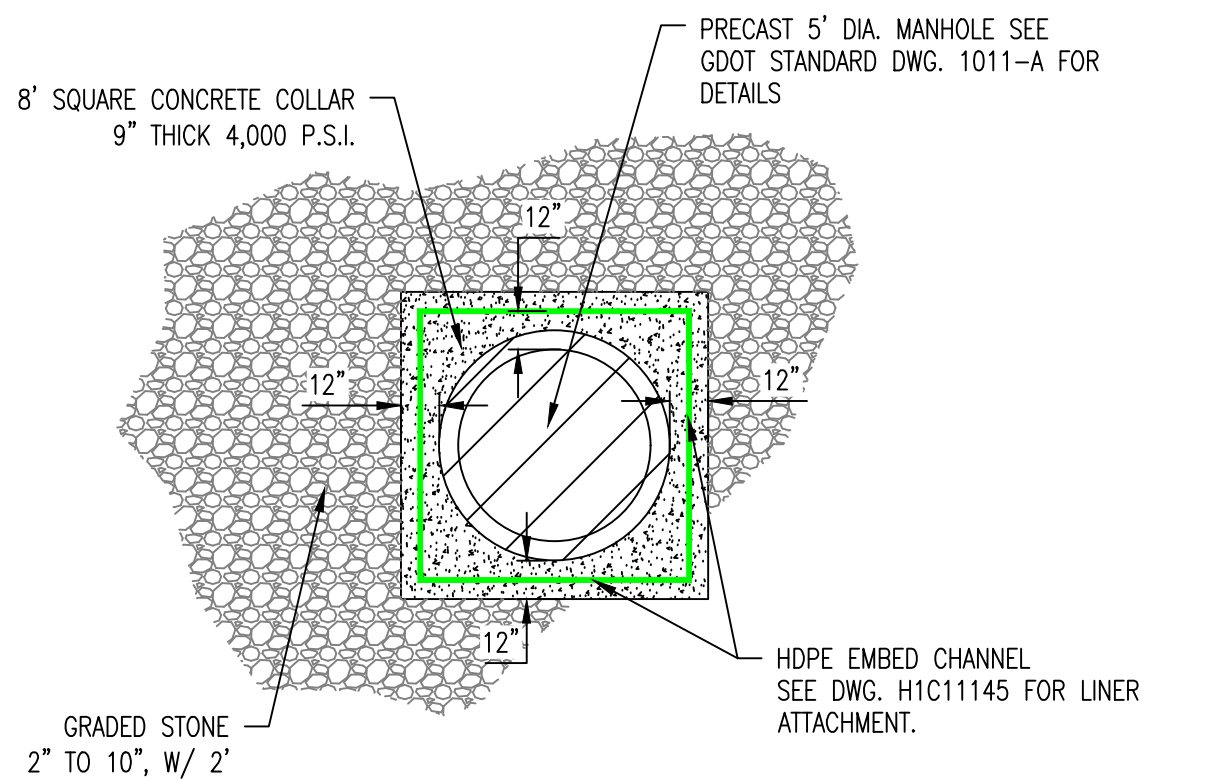
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REVISION 0      DATE 09-23-2022 CCR LF PERMIT APPLICATION [BY HHNT, INC.]												<b>Georgia Power Company</b>																												
PLANT WANSLEY COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY CELL NO. 3 SECTIONS THRU STACK																																								
BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	SCALE	DRAWING NUMBER	SHEET	CONT'D	REV	
																																				AS NOTED	<b>H1C1137</b>	1	FINAL	0



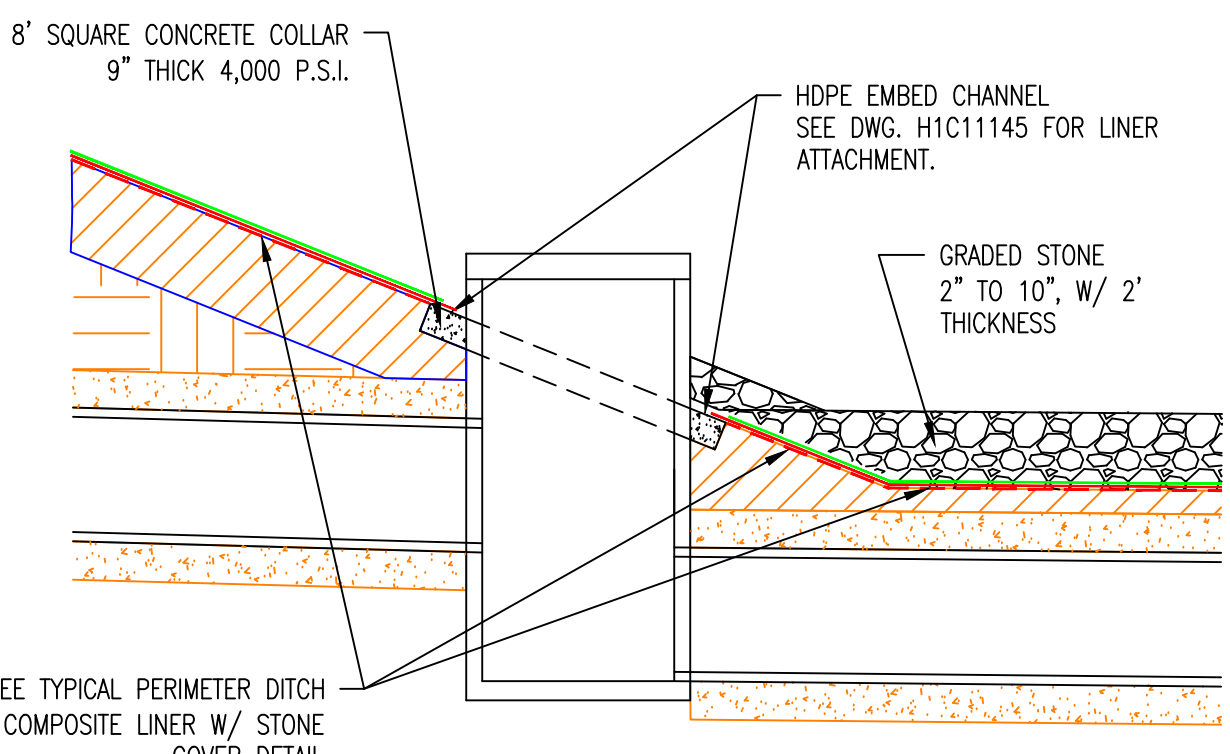
**RISER SECTION AT CELL 1**  
1" = 10'  
(H1C1125)



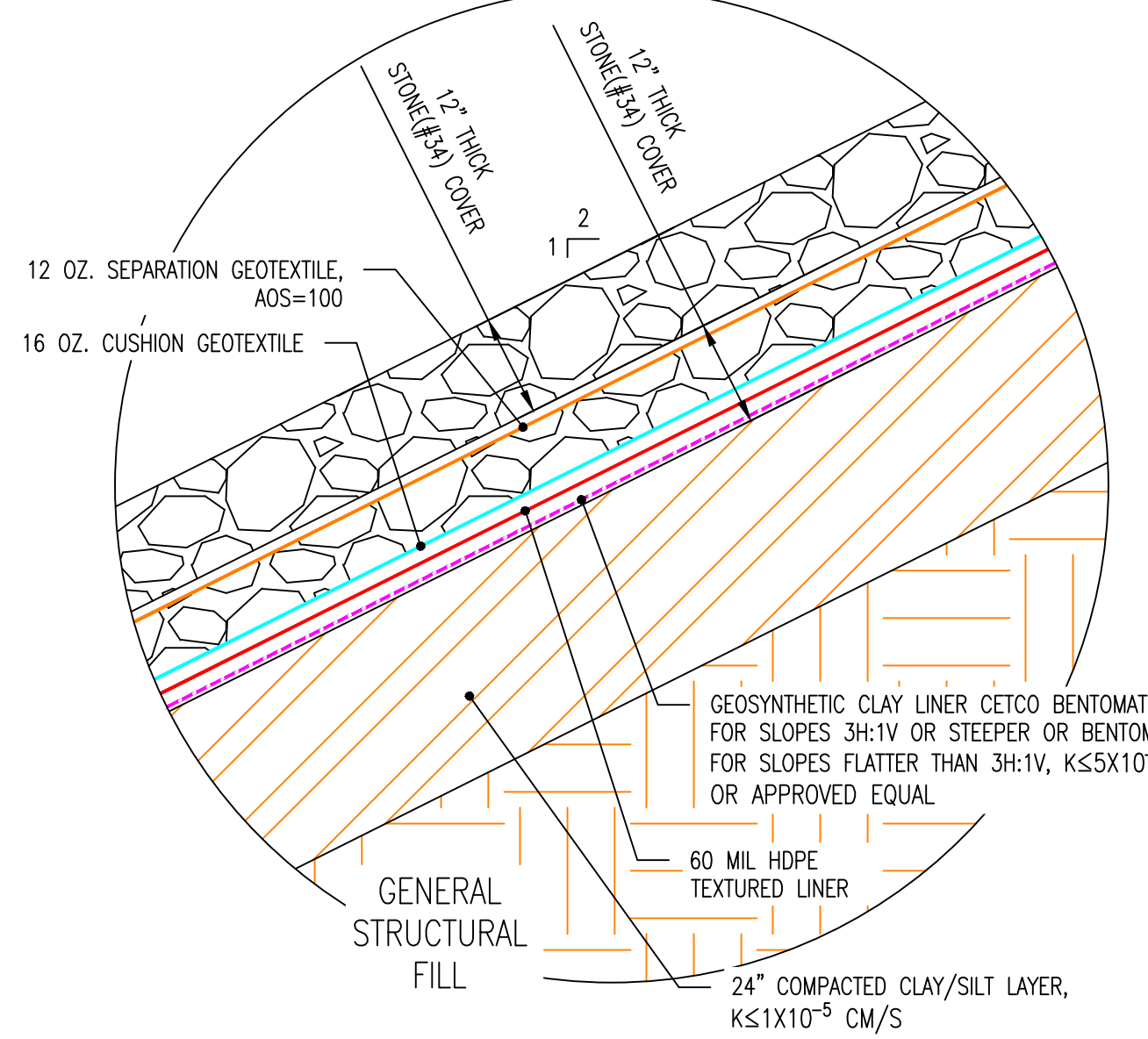
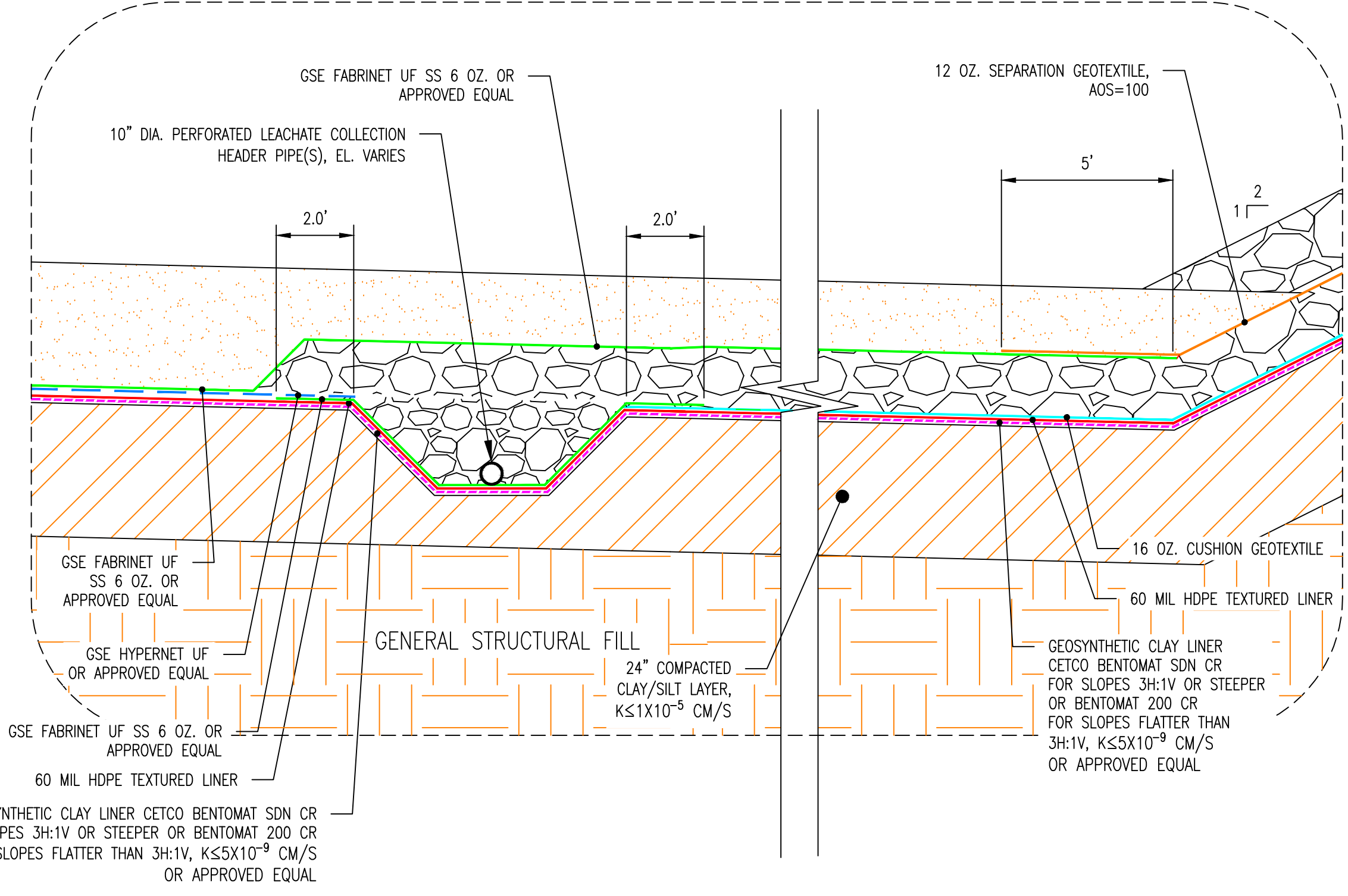
**SECTION H-H**  
1" = 10'  
(H1C1125, H1C1126)



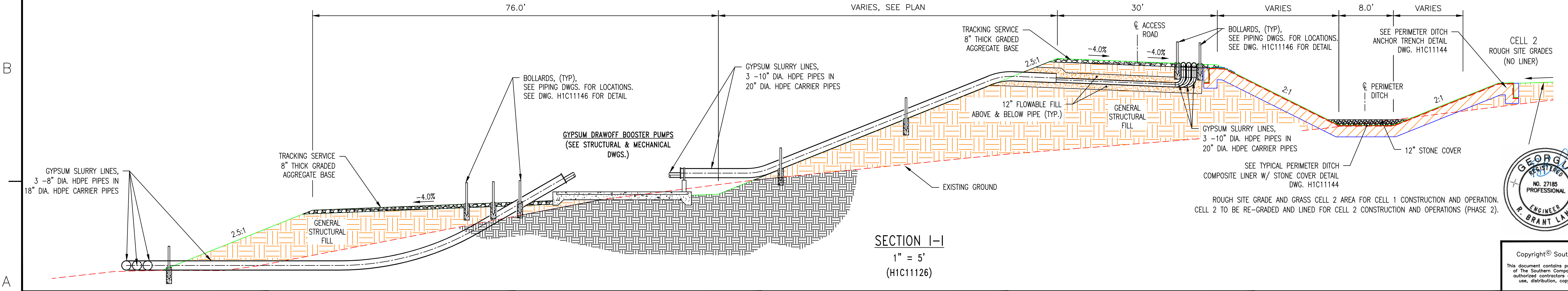
**CONCRETE MANHOLE COLLAR**  
PLAN VIEW  
NOT TO SCALE



**CONCRETE MANHOLE COLLAR**  
SECTION  
NOT TO SCALE

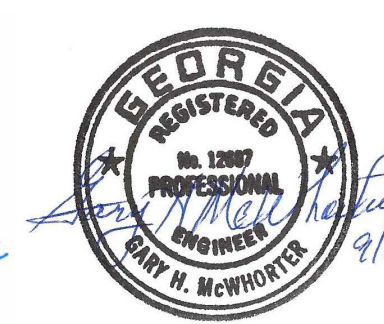


**SECTION I-I**  
1" = 5'  
(H1C1126)



- NOTES:**
- ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL FORCE OF 0.17G

- REFERENCES:**
- H1C1120 TITLE SHEET AND DRAWING INDEX
  - H1C1125 CELL NO. 1 SITE DEVELOPMENT, BASE GRADING PLAN
  - H1C1131 CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
  - H1C1144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2
  - H1C1145 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 3
  - H1C1146 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1



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

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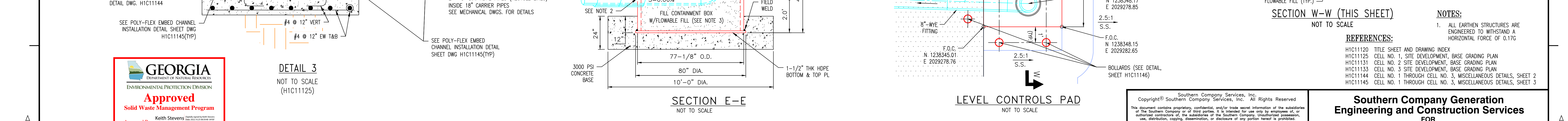
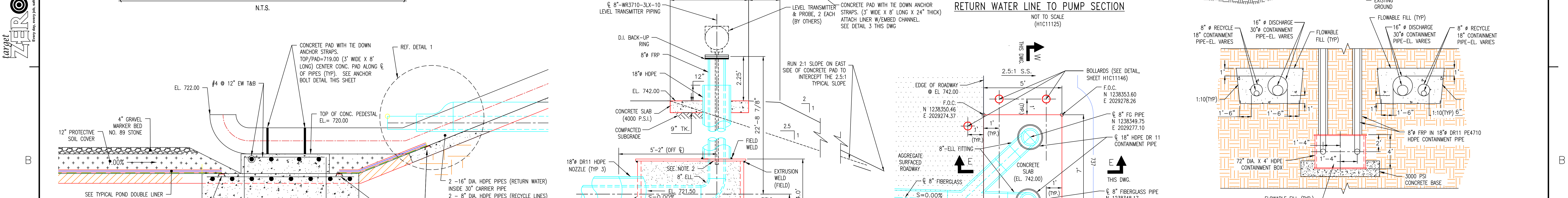
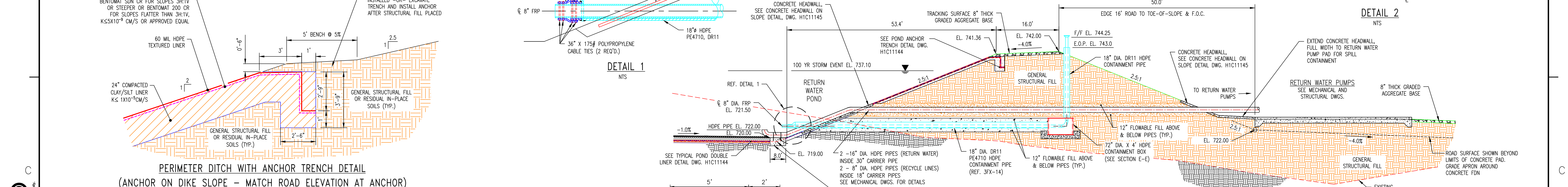
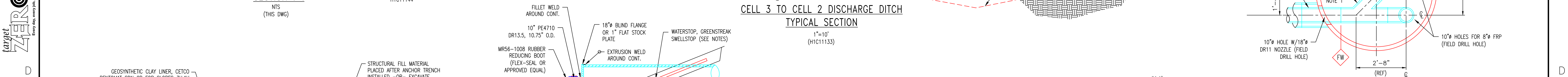
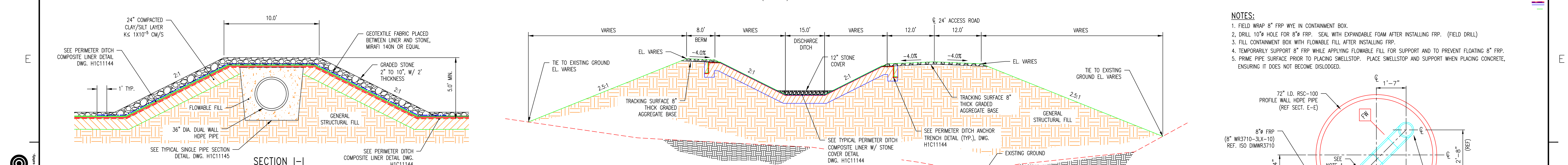
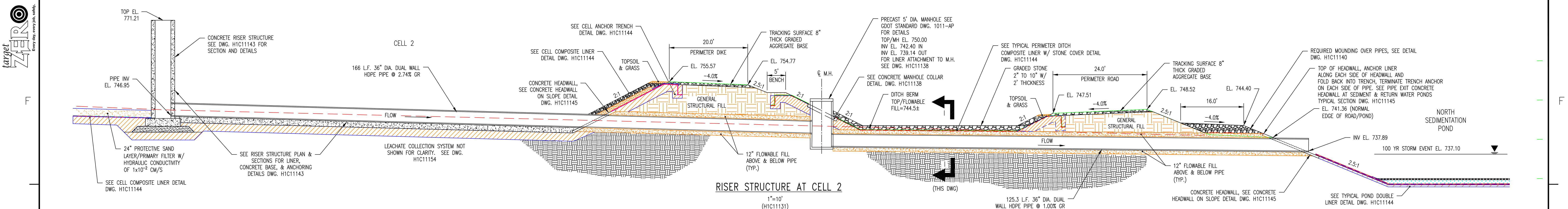
REVISION 0 DATE 09-23-2022  
CCR LF PERMIT APPLICATION [BY HHNT, INC.]

**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 SECTIONS  
SHEET 1

BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
							AS NOTED	<b>H1C1138</b>	1	FINAL	0



**Approved Program**  
Solid Waste Management Program  
Approved By: Keith Stevens

**DETAIL 3**  
NOT TO SCALE  
(H1C11125)

**REFERENCES:**

H1C1120 TITLE SHEET AND DRAWING INDEX  
H1C1125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN  
H1C1131 CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN  
H1C1133 CELL NO. 3 SITE DEVELOPMENT, BASE GRADING PLAN  
H1C1144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2  
H1C1145 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 3

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

**Georgia Power Company**

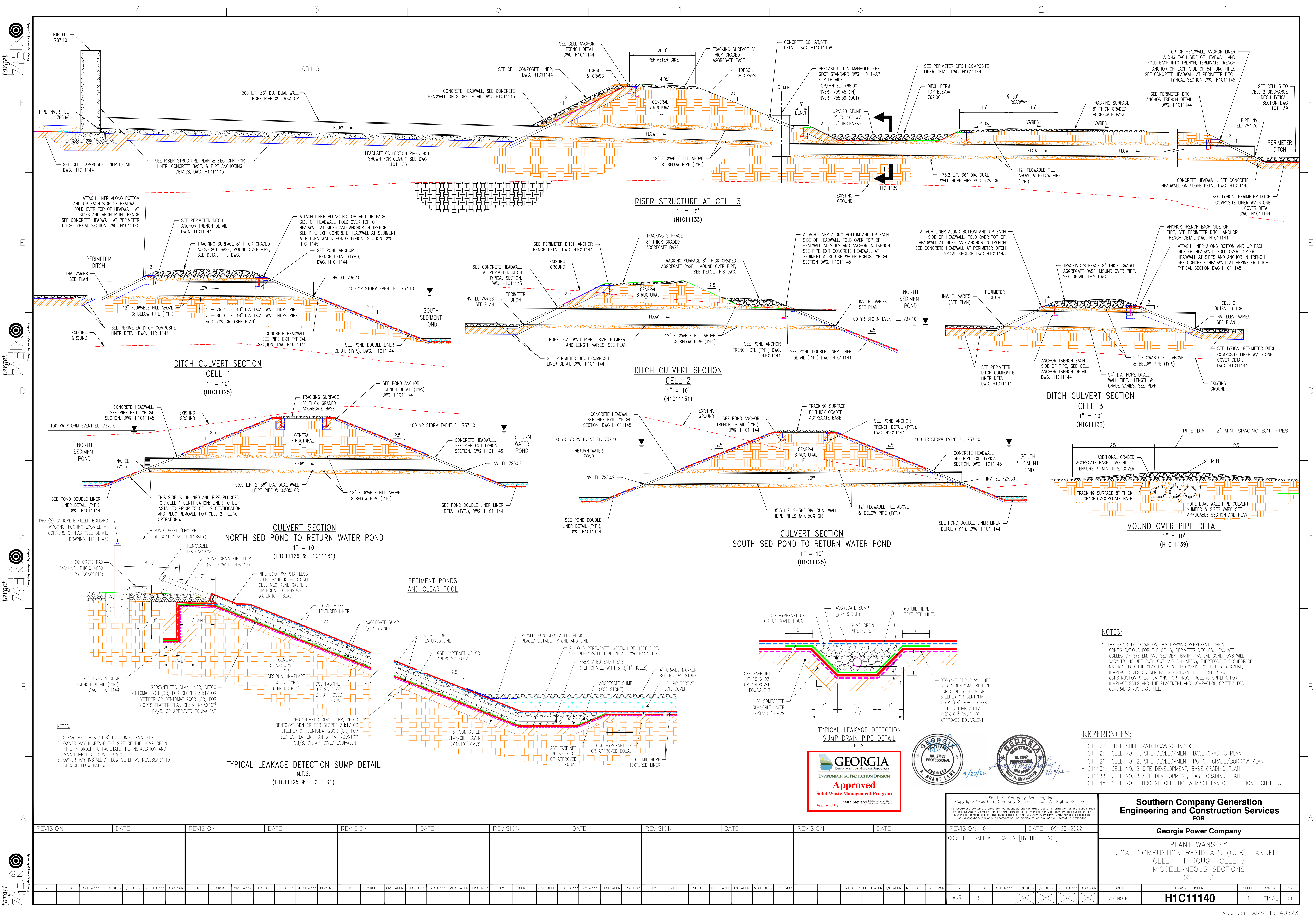
**PLANT WANSLEY**  
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY  
CELL NO. 1 THROUGH CELL NO. 3  
MISCELLANEOUS SECTIONS  
SHEET 2

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE

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

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

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

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

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

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

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

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

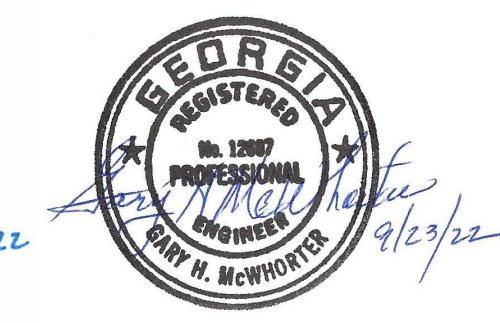
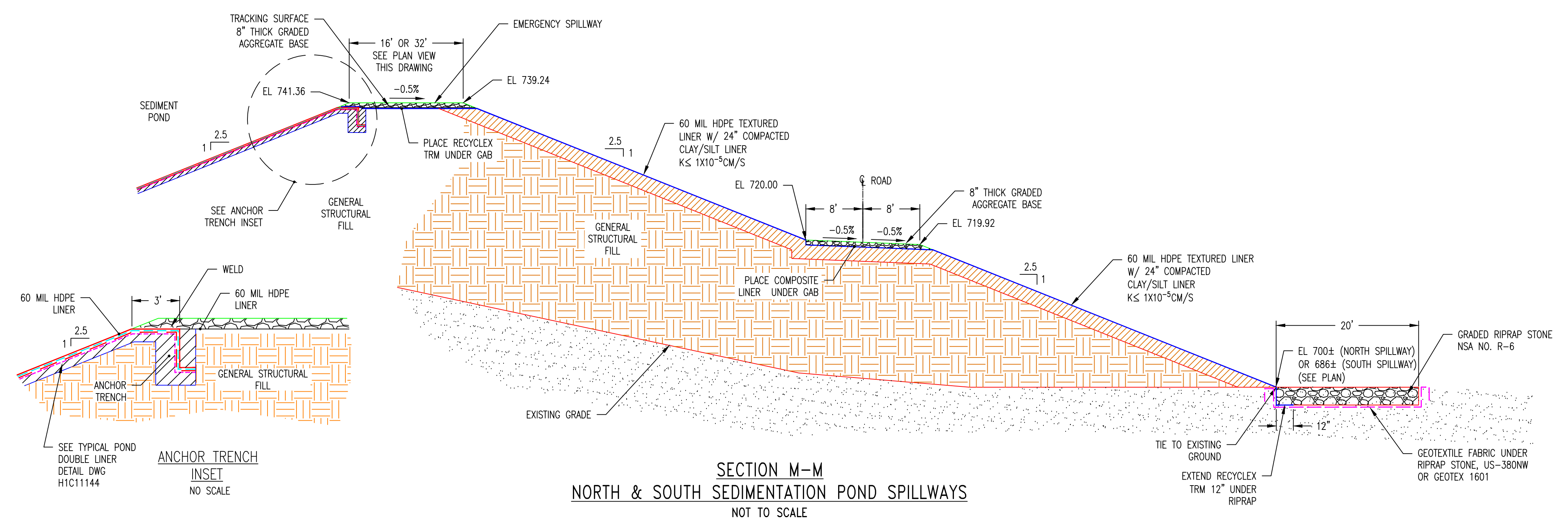
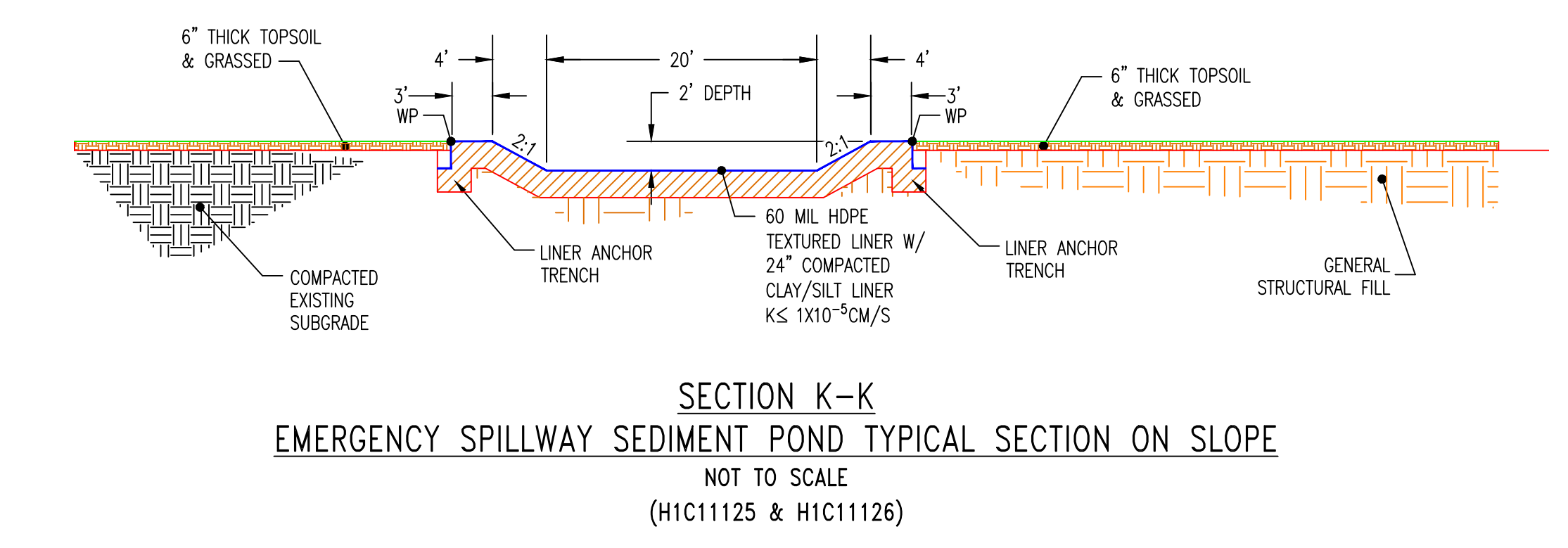
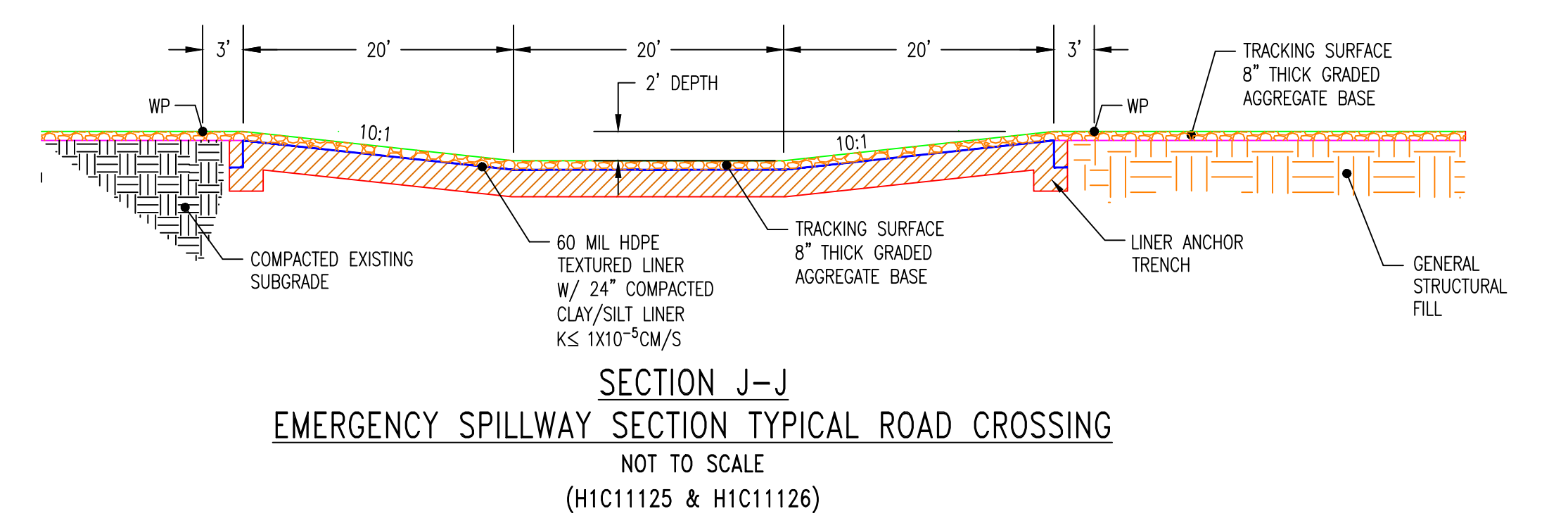
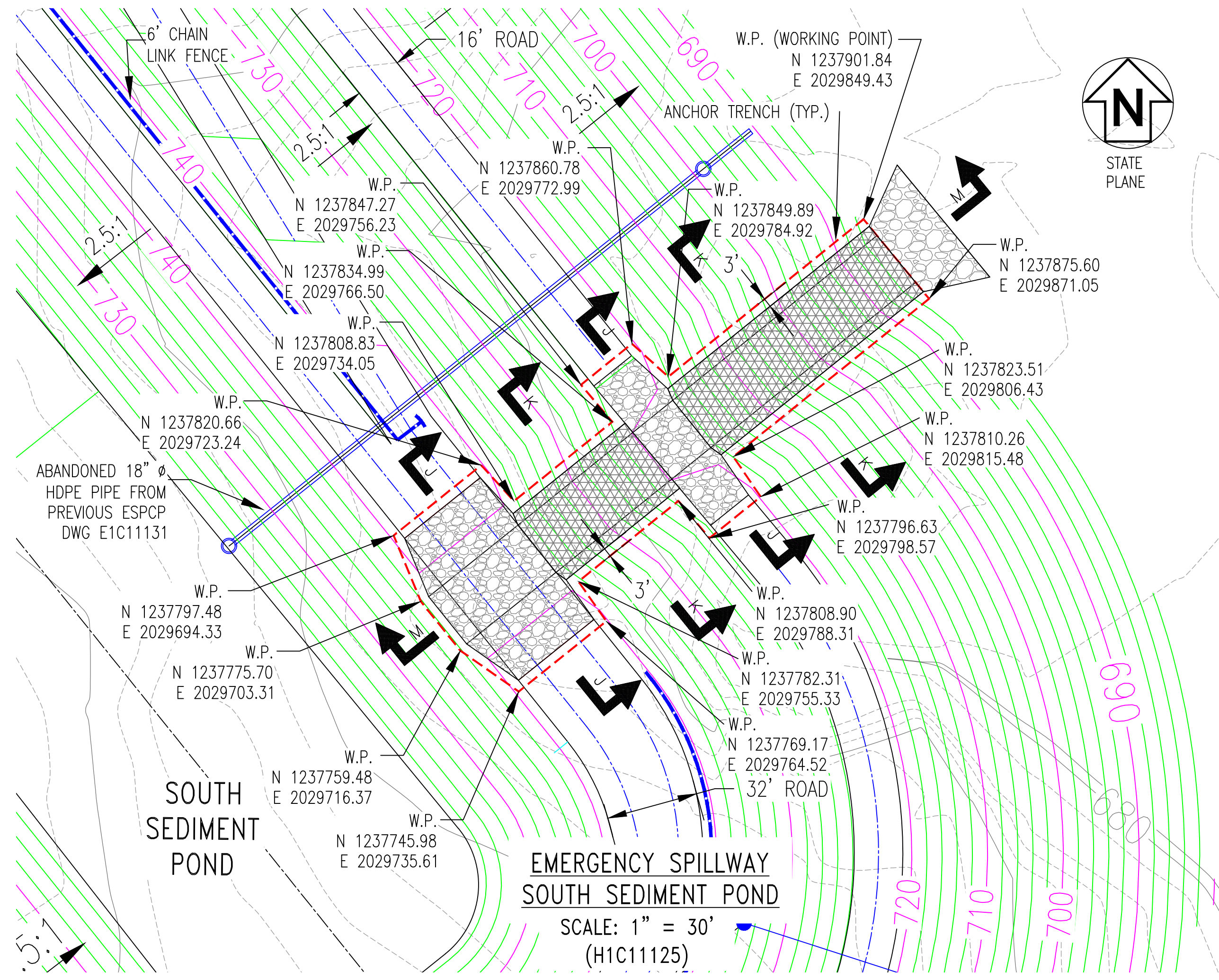
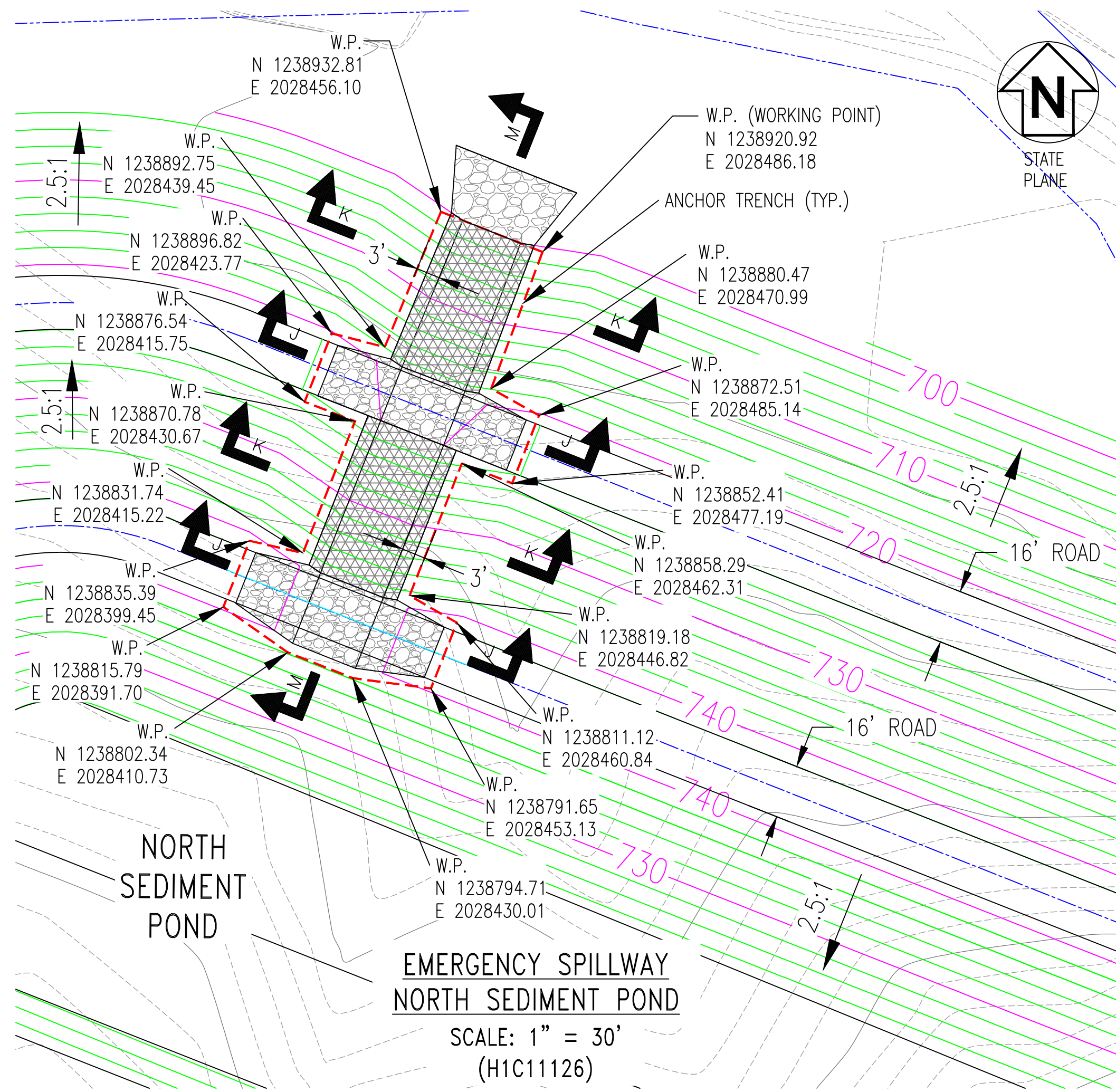
TYPICAL LEAKAGE DETECTION SUMP DRAIN PIPE DETAIL N.T.S.



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. REFER TO THE CONSTRUCTION SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REFERENCES table listing drawing titles and cell numbers: H1C1120 TITLE SHEET AND DRAWING INDEX, H1C1125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN, H1C1126 CELL NO. 2, SITE DEVELOPMENT, ROUGH GRADE/BORROW PLAN, H1C1131 CELL NO. 2, SITE DEVELOPMENT, BASE GRADING PLAN, H1C1133 CELL NO. 3, SITE DEVELOPMENT, BASE GRADING PLAN, H1C1145 CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS, SHEET 3.

Revision table with columns for REVISION, DATE, and drawing information. Includes Southern Company Generation Engineering and Construction Services logo and project details for Wansley Coal Combustion Residuals (CCR) Landfill Cell 1 through Cell 3.



- 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

REVISION 0		DATE	09-23-2022																								
CCR LF PERMIT APPLICATION [BY HHNT, INC.]																											
<p align="center"><b>Southern Company Generation Engineering and Construction Services FOR</b></p> <p align="center"><b>Georgia Power Company</b></p> <p align="center">PLANT WANSLEY          COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY          CELL NO. 1 AND CELL NO. 2          SEDIMENT POND SPILLWAY SECTIONS AND DETAILS</p>																											
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL																										
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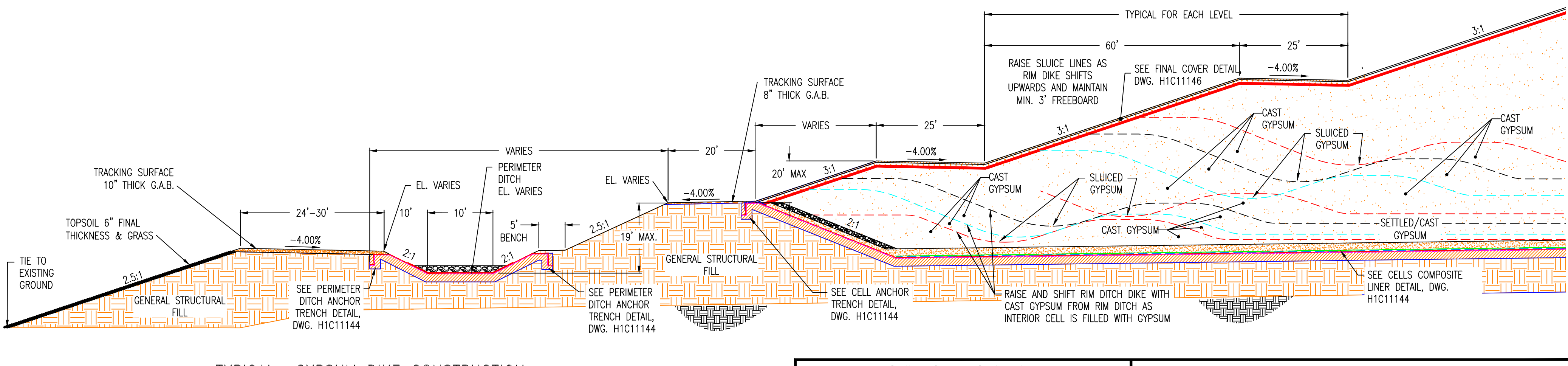
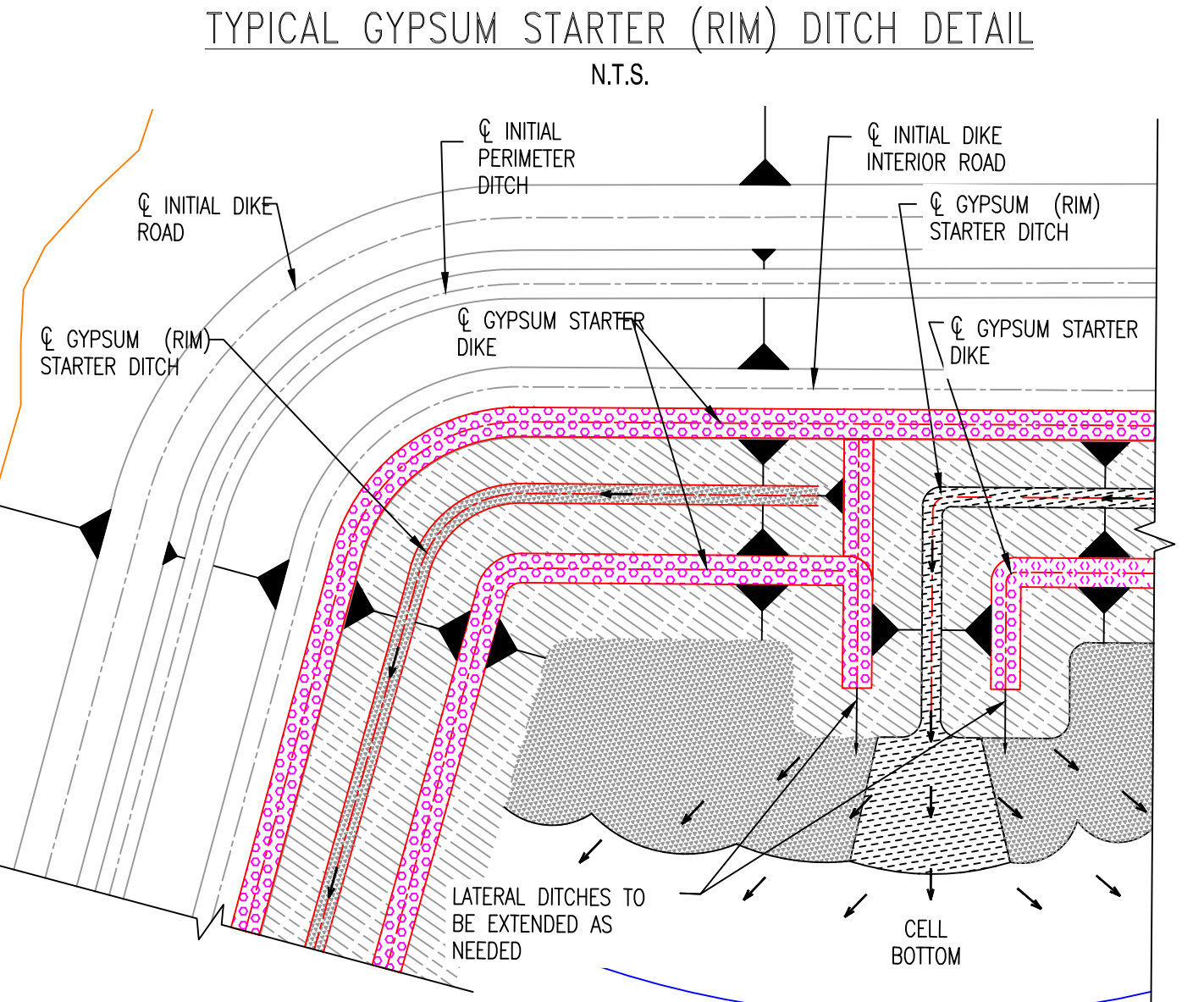
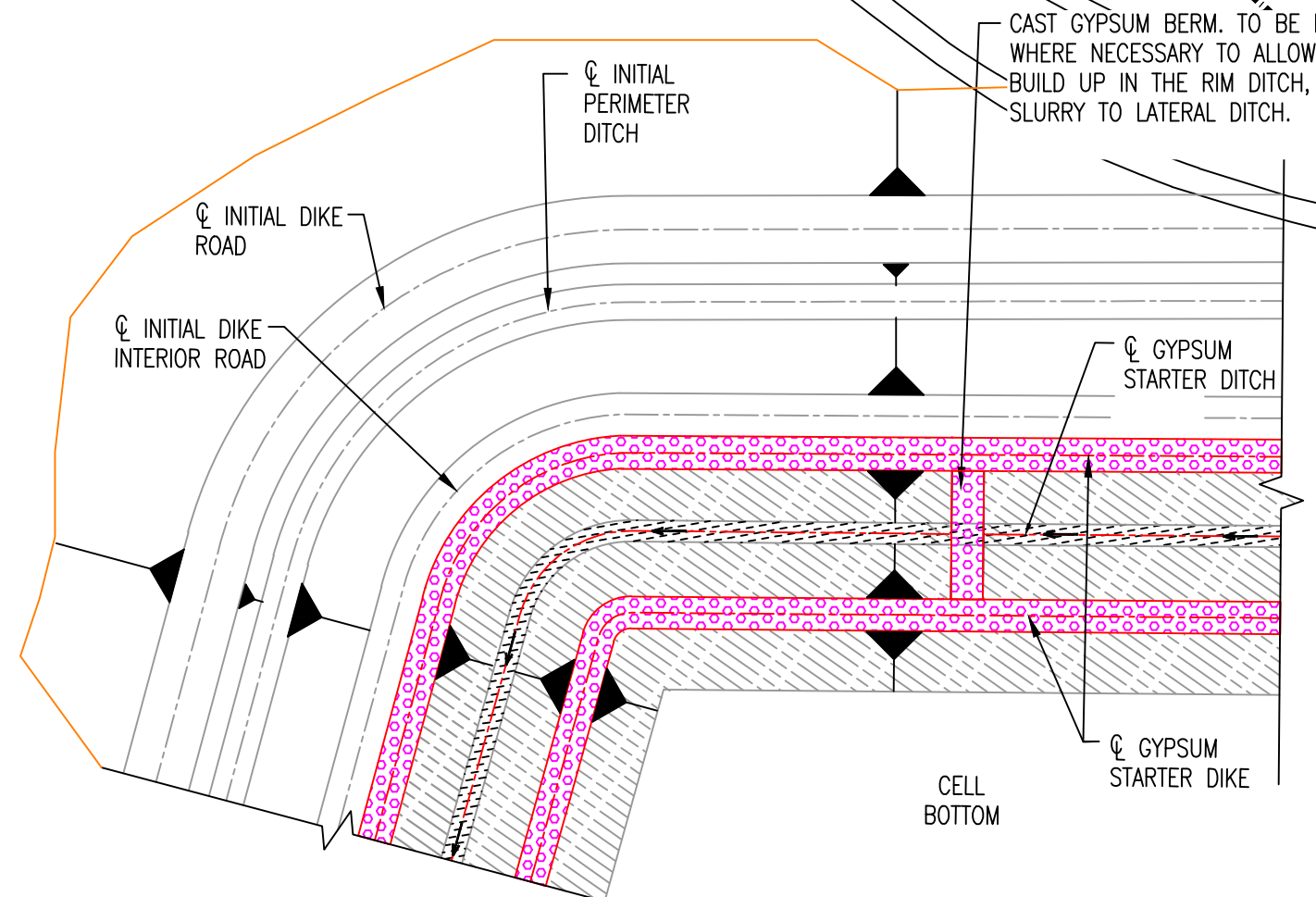
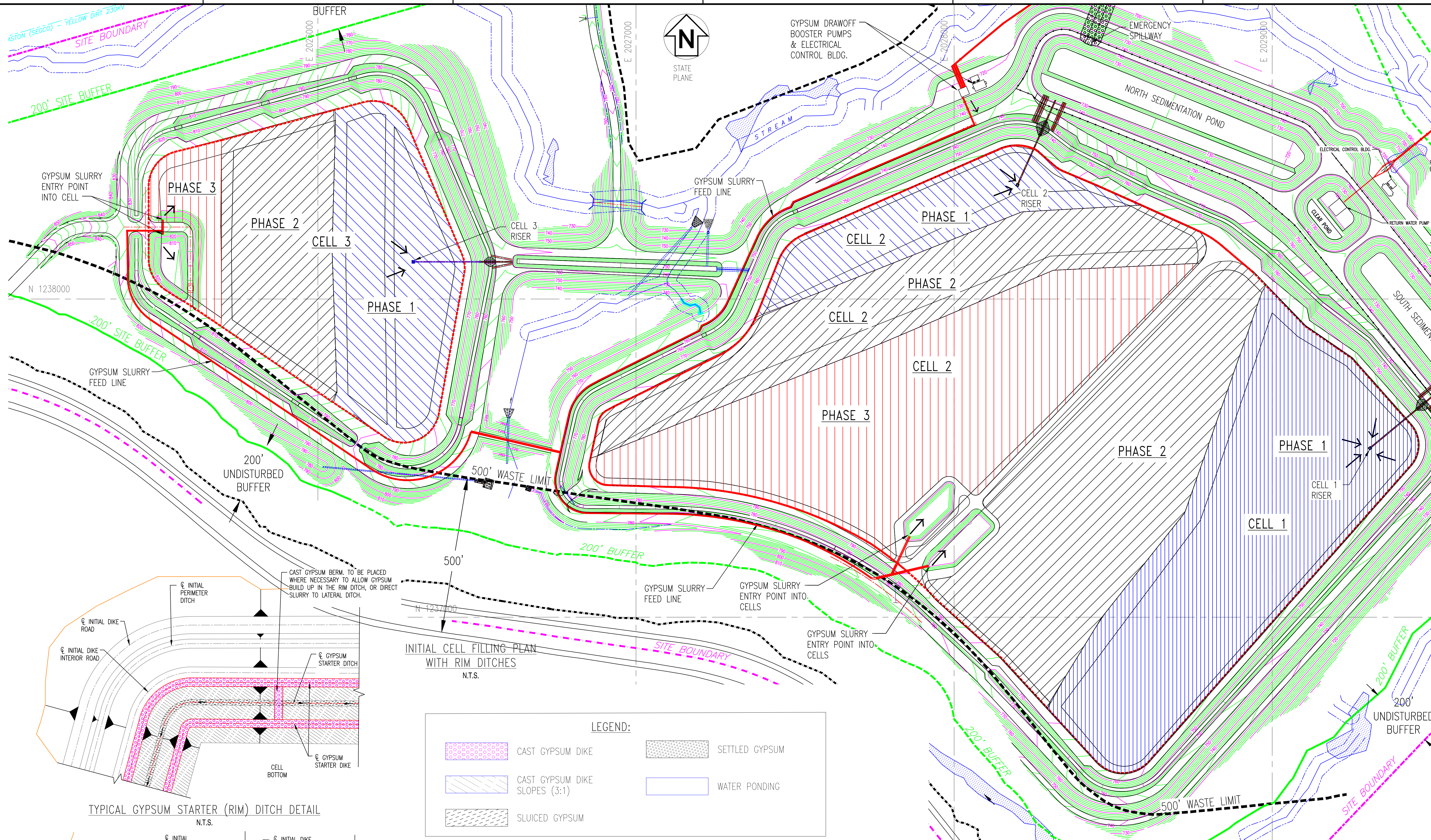
- PLANT WANSLEY COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY DESCRIPTION OF GENERAL CELL FILLING OPERATIONS
- THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR UTILIZATION OF ANY TEMPORARY CONTAINMENT BASINS LOCATED ELSEWHERE WITHIN THE DISPOSAL CELL. THE LOCATION AND USE OF SUCH TEMPORARY CONTAINMENT BASINS SHALL BE SUBJECT TO THE APPROVAL OF THE PURCHASER AND ENGINEERING & CONSTRUCTION SERVICES, SOUTHERN COMPANY SERVICES, INC.
  - THE INITIAL RIM DITCH WILL BE CONSTRUCTED FROM DRY GYPSUM EXCAVATED AND HAULED FROM THE TEMPORARY GYPSUM Dewatering CELLS LOCATED IN THE ASH POND.
  - 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 TER (PHASE 1). THE RIM DITCH SHALL CONSIST OF AN INTERIOR DITCH OF SUFFICIENT WIDTH TO PROVIDE ACCESS AND MANEUVERABILITY FOR A TRACKED EXCAVATOR DURING GYPSUM CLEAN - OUT OF THE RIM DITCH.
  - THE RIM DITCH SHALL BE CONSTRUCTED TO CONTAIN THE DISCHARGE FROM THE DISPOSAL CONTAINMENT BASIN TO PREVENT THE EROSION OF THE 24 INCH PROTECTIVE COVER ON THE BOTTOM OF THE CELL.
  - 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.
  - 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.
  - 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.
  - 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.
  - THE LATERAL DITCHES SHOULD BE CONSTRUCTED OF GYPSUM EXCAVATED FROM THE PREVIOUS DITCH OR FROM THE DISCHARGE CONTAINMENT BASIN.
  - 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.
  - THIS METHOD OF ALLOWING GYPSUM SETTLEMENT AND RIM AND LATERAL DITCH EXCAVATION IN PHASES WILL BE UTILIZED FOR FILLING TO THE FINAL STACK ELEVATIONS.
  - 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.
  - 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.
  - 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.
  - FOR EACH SUBSEQUENT LEVEL OF GYPSUM SLUICING AND GYPSUM DIKE AND RIM DITCH CONSTRUCTION, THE SAME CONSTRUCTION TECHNIQUES AND OPERATIONS WILL APPLY. GYPSUM SLUCE LINES WILL BE PROGRESSIVELY EXTENDED UP THE GYPSUM SLOPES TO THE NEXT LEVEL AS FILLING PROGRESSES.
  - GYPSUM SLOPES SHALL BE MAINTAINED UNTIL THE FINAL COVER SYSTEM IS PLACED.
  - THE CELLS WILL BE CLOSED IN ACCORDANCE WITH THE CLOSURE PLAN.

**ABANDONMENT PROCEDURES**  
**RISER STRUCTURE AND DEWATER PIPE ASSEMBLY**  
 THE CELL 1, CELL 2, AND CELL 3 RISER STRUCTURES AND DEWATER 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 HOPE DEWATER PIPE ASSEMBLY WILL BE ACCOMPLISHED BY COMPLETELY FILLING THE DEWATER 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.**

- THE DEWATER 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 HOPE DEWATER 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).
- 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.
- THE VERTICAL GROUT PIPE SHALL BE EQUIPPED WITH A BLEED VALVE AND PRESSURE GAGE ASSEMBLY BELOW THE GROUT NOZZLE ATTACHMENT POINT.
- THE BOTTOM OF THE RISER STRUCTURE SHALL BE FILLED WITH CONCRETE TO A HEIGHT OF 1.5 TIMES THE DIAMETER OF THE DEWATER PIPE.
- THE DOWNSTREAM OUTLET OF THE DEWATER PIPE SHALL BE SEALED WITH A BULKHEAD OR CONCRETE PLUG.
- THE DEWATER PIPE SHALL BE FILLED WITH A FLOWABLE, SELF-LEVELING GROUT OR CONCRETE.
- THE GROUT OR FLOWABLE CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ABANDONMENT.
- 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/DRIVING AREA SUCH THAT THE AREA AND STOCKPILES CAN BE WORKED APPROPRIATELY.



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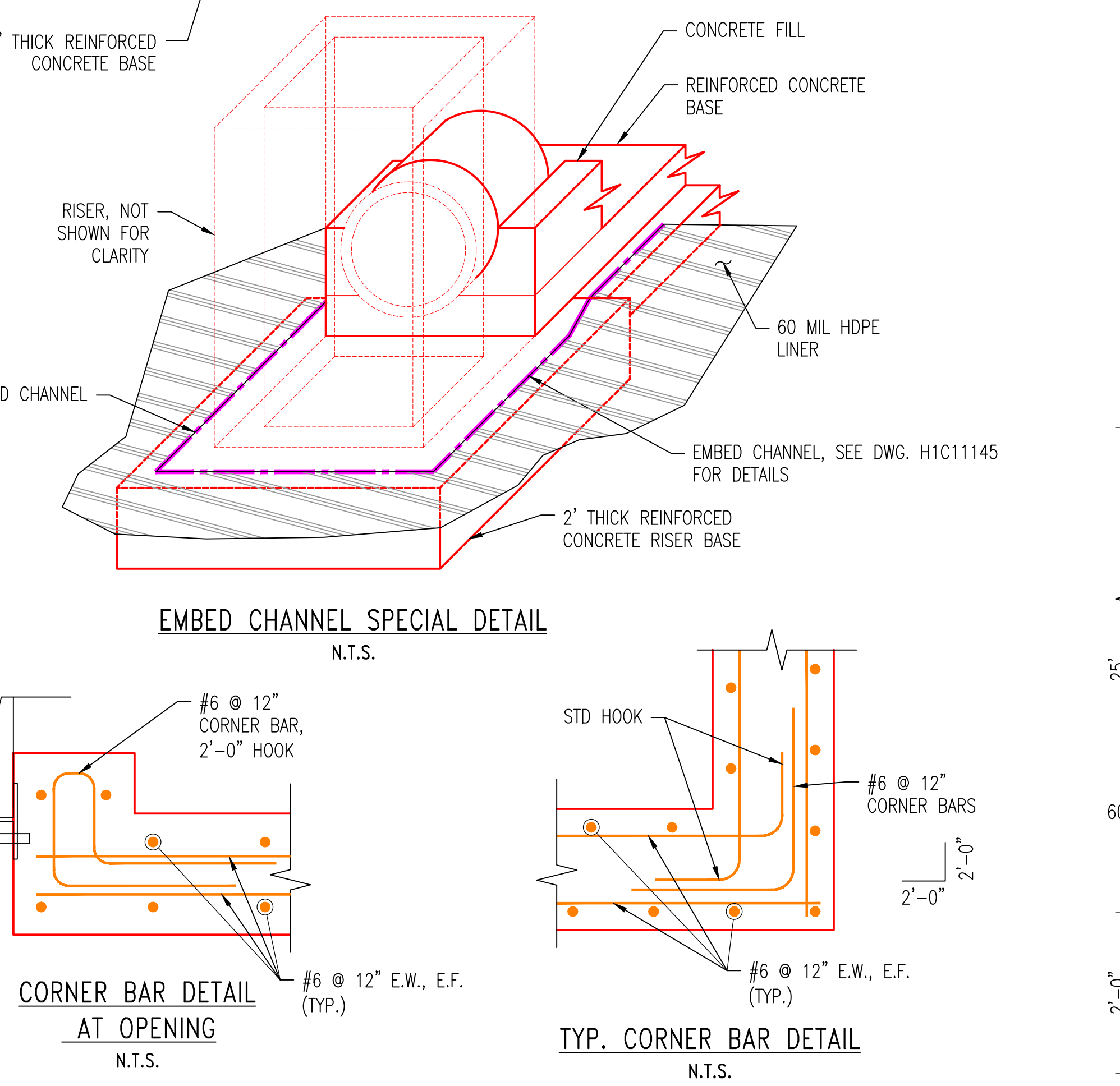
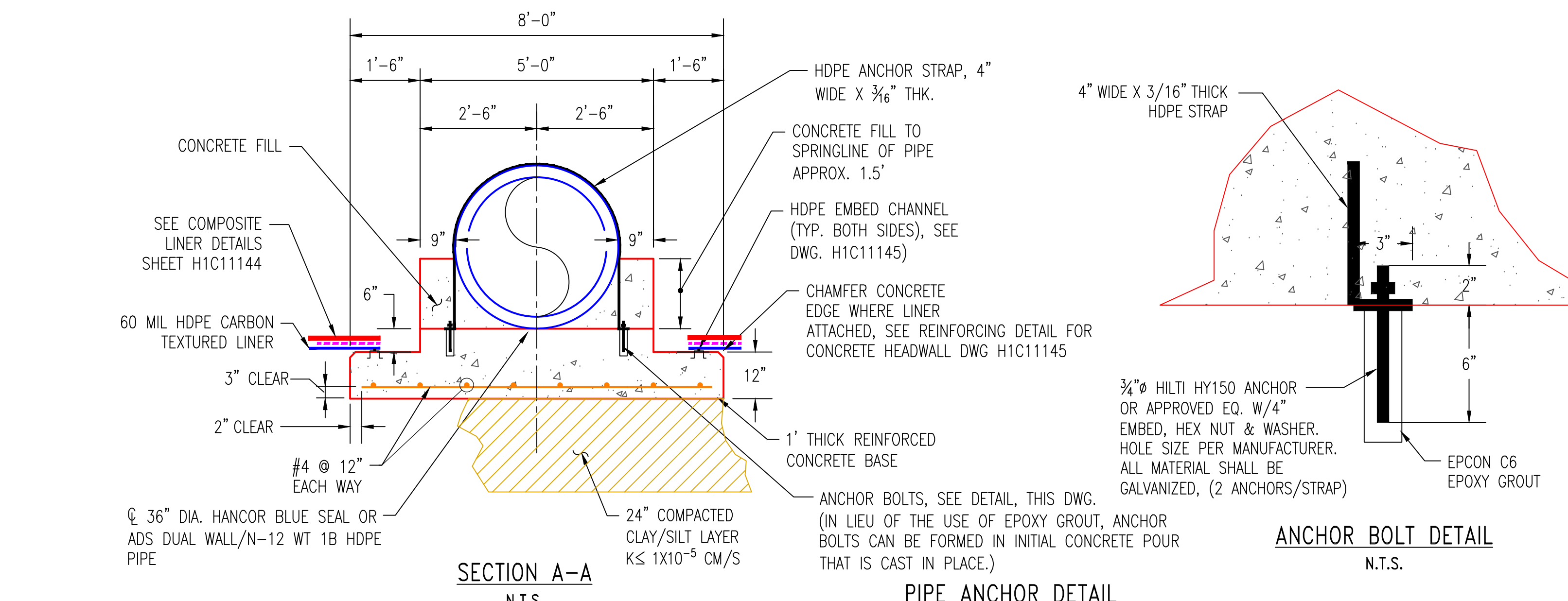
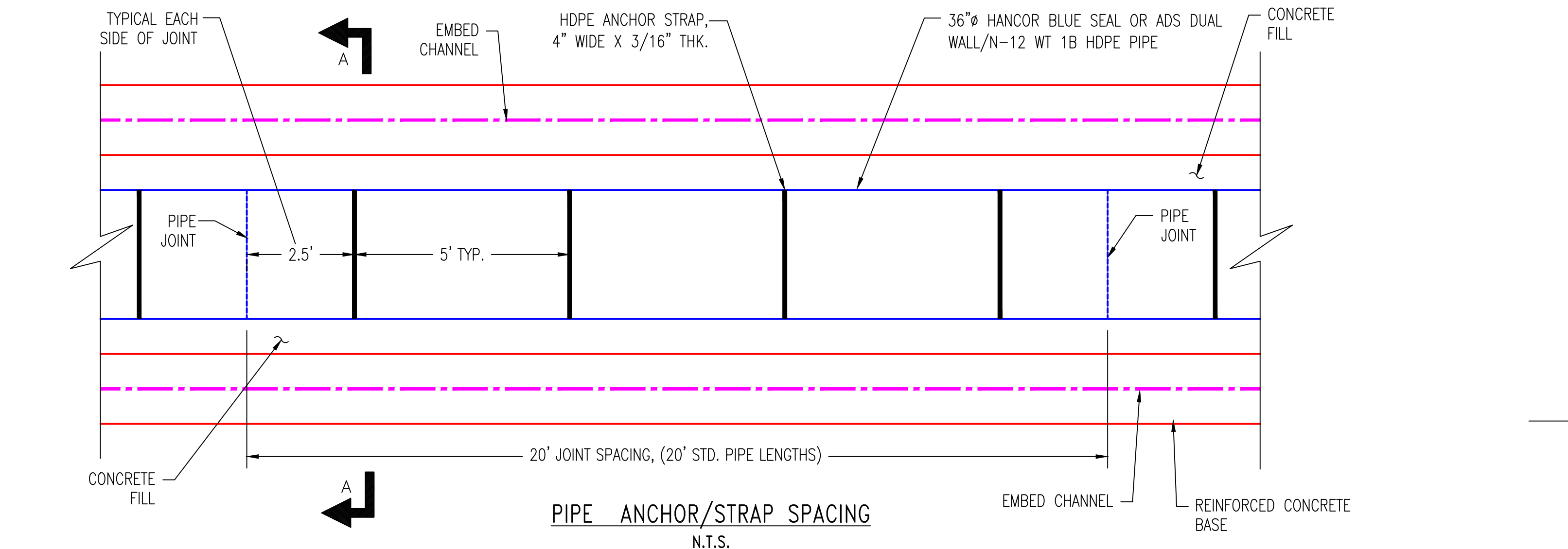
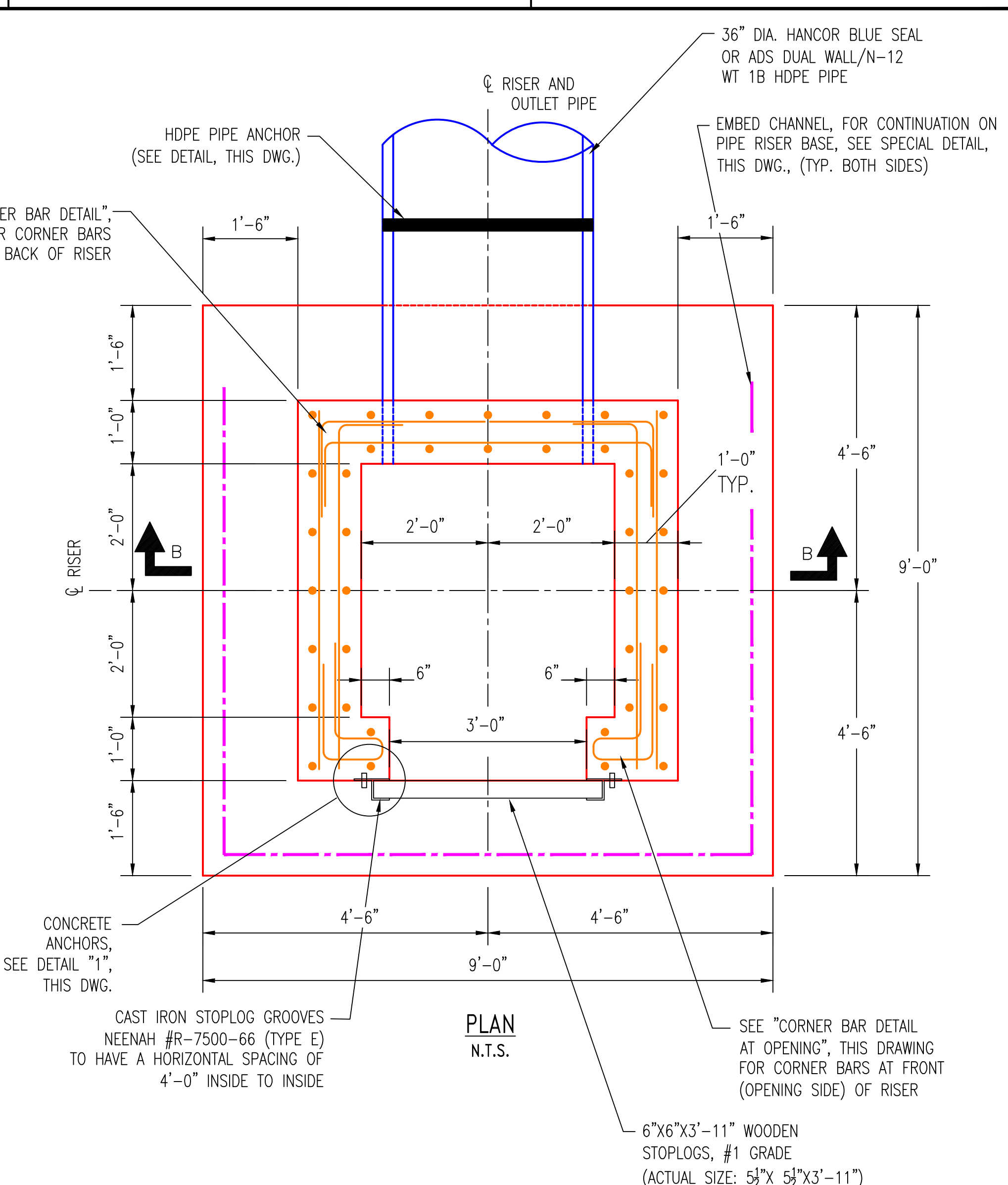
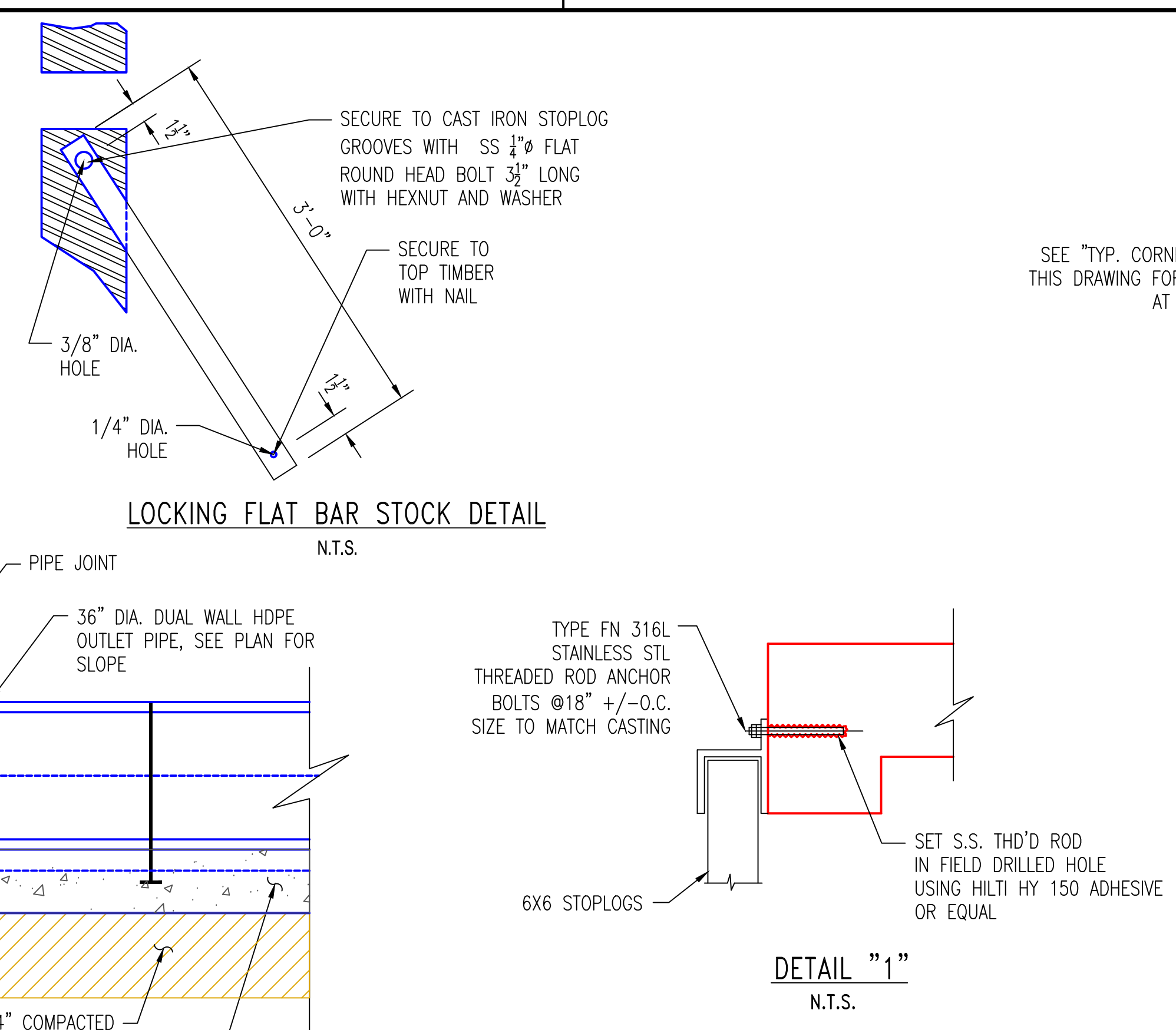
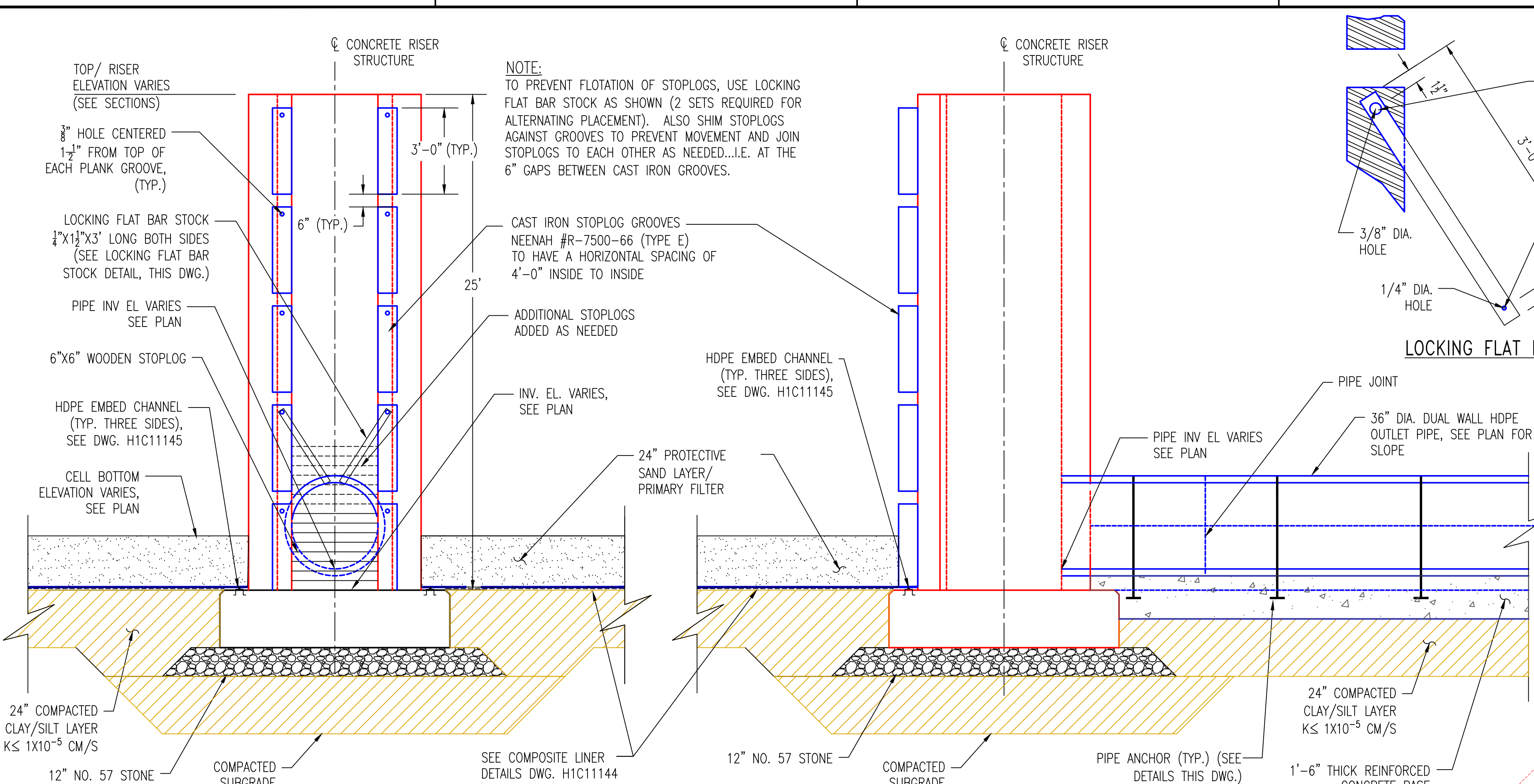
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**Southern Company Generation Engineering and Construction Services FOR**  
**Georgia Power Company**

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

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

SCALE AS NOTED  
 DRAWING NUMBER **HIC11142**  
 SHEET 1 OF 1  
 CONT'D 0  
 REV 0



- NOTES:**
- 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 CHEMPURF 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.
  - THE LINING SYSTEM MATERIALS SHALL BE STORED, HANDLED AND APPLIED AS PER MANUFACTURER'S GUIDELINES AND INSTRUCTIONS.
  - THE LINING SYSTEM SHALL BE APPLIED BY PAINTING/COATINGS CONTRACTOR KNOWLEDGEABLE AND EXPERIENCED WITH IT'S APPLICATION.
  - 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:**
- H1C1120 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

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

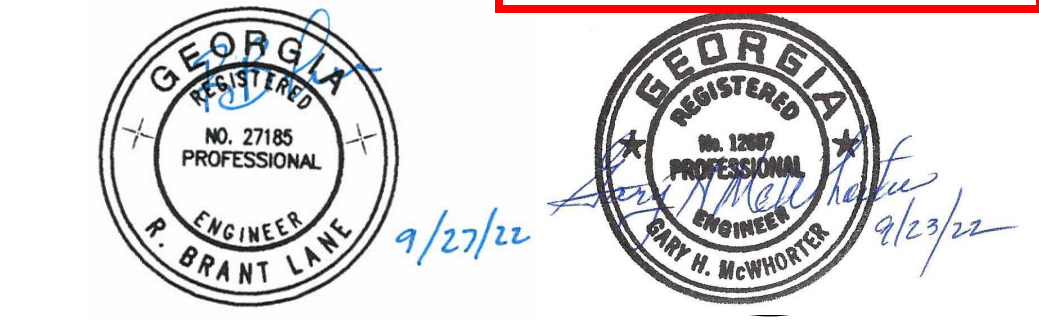
**Georgia Power Company**

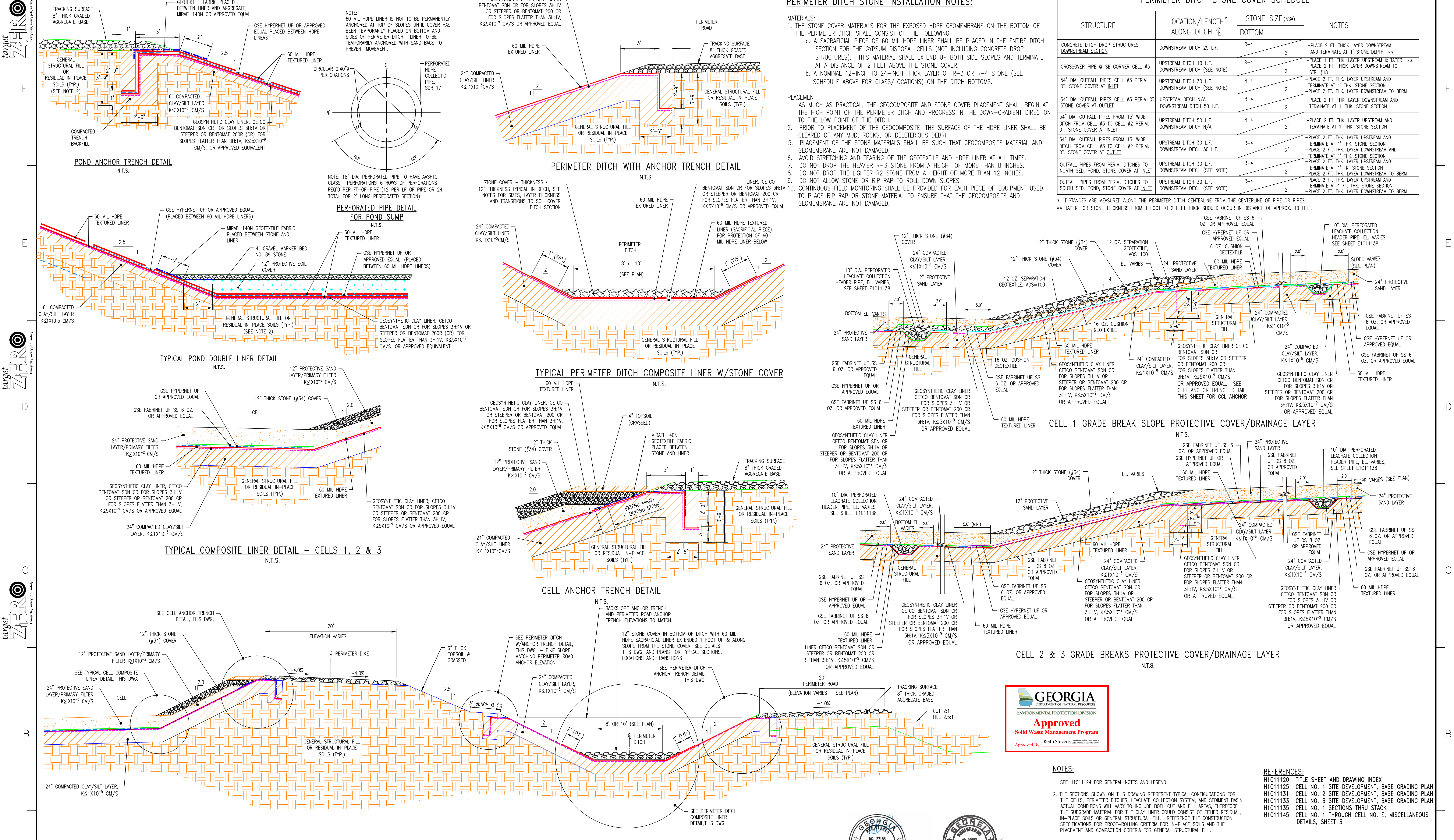
PLANT WANSLEY  
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY  
CELL NO. 1 THROUGH CELL NO. 3  
MISCELLANEOUS DETAILS  
SHEET 1

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

SCALE AS NOTED  
DRAWING NUMBER **H1C11143**  
SHEET 1  
CONT'D 0  
REV 0

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





**PERIMETER DITCH STONE INSTALLATION NOTES:**

- MATERIALS:**
- THE STONE COVER MATERIALS FOR THE EXPOSED HDPE GEOMEMBRANE ON THE BOTTOM OF THE PERIMETER DITCH SHALL CONSIST OF THE FOLLOWING:
    - A SACRIFICIAL PIECE OF 60 MIL HDPE LINER SHALL BE PLACED IN THE ENTIRE DITCH SECTION FOR THE GYPSUM DISPOSAL CELLS (NOT INCLUDING CONCRETE DROP STRUCTURES). THIS MATERIAL SHALL EXTEND UP BOTH SIDE SLOPES AND TERMINATE AT A DISTANCE OF 2 FEET ABOVE THE STONE COVER.
    - 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:**
- 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.
  - PRIOR TO PLACEMENT OF THE GEOCOMPOSITE, THE SURFACE OF THE HDPE LINER SHALL BE CLEARED OF ANY MUD, ROCKS, OR DELETERIOUS DEBRI.
  - PLACEMENT OF THE STONE MATERIALS SHALL BE SUCH THAT GEOCOMPOSITE MATERIAL AND GEOMEMBRANE ARE NOT DAMAGED.
  - AVOID STRETCHING AND TEARING OF THE GEOTEXTILE AND HDPE LINER AT ALL TIMES.
  - DO NOT DROP THE HEAVIER R-3 STONE FROM A HEIGHT OF MORE THAN 8 INCHES.
  - DO NOT DROP THE LIGHTER R-2 STONE FROM A HEIGHT OF MORE THAN 12 INCHES.
  - DO NOT ALLOW STONE OR RIP RAP TO ROLL DOWN SLOPES.
  - 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 C/L	STONE SIZE (NSA)		NOTES
		BOTTOM	UPPER	
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. THICK 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. THICK LAYER UPSTREAM AND TERMINATE AT 1' THICK STONE SECTION -PLACE 2 FT. THICK 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. THICK LAYER DOWNSTREAM AND TERMINATE AT 1' THICK 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. THICK LAYER UPSTREAM AND TERMINATE AT 1' THICK 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. THICK LAYER UPSTREAM AND TERMINATE AT 1' THICK STONE SECTION -PLACE 2 FT. THICK LAYER DOWNSTREAM TO BERM
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. THICK LAYER UPSTREAM AND TERMINATE AT 1 FT. THICK STONE SECTION -PLACE 2 FT. THICK 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. THICK LAYER UPSTREAM AND TERMINATE AT 1 FT. THICK STONE SECTION -PLACE 2 FT. THICK 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.



- NOTES:**
- SEE H1C11124 FOR GENERAL NOTES AND LEGEND.
  - 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 TRACK
  - H1C11145 CELL NO. 1 THROUGH CELL NO. E, MISCELLANEOUS DETAILS, SHEET 3



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

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

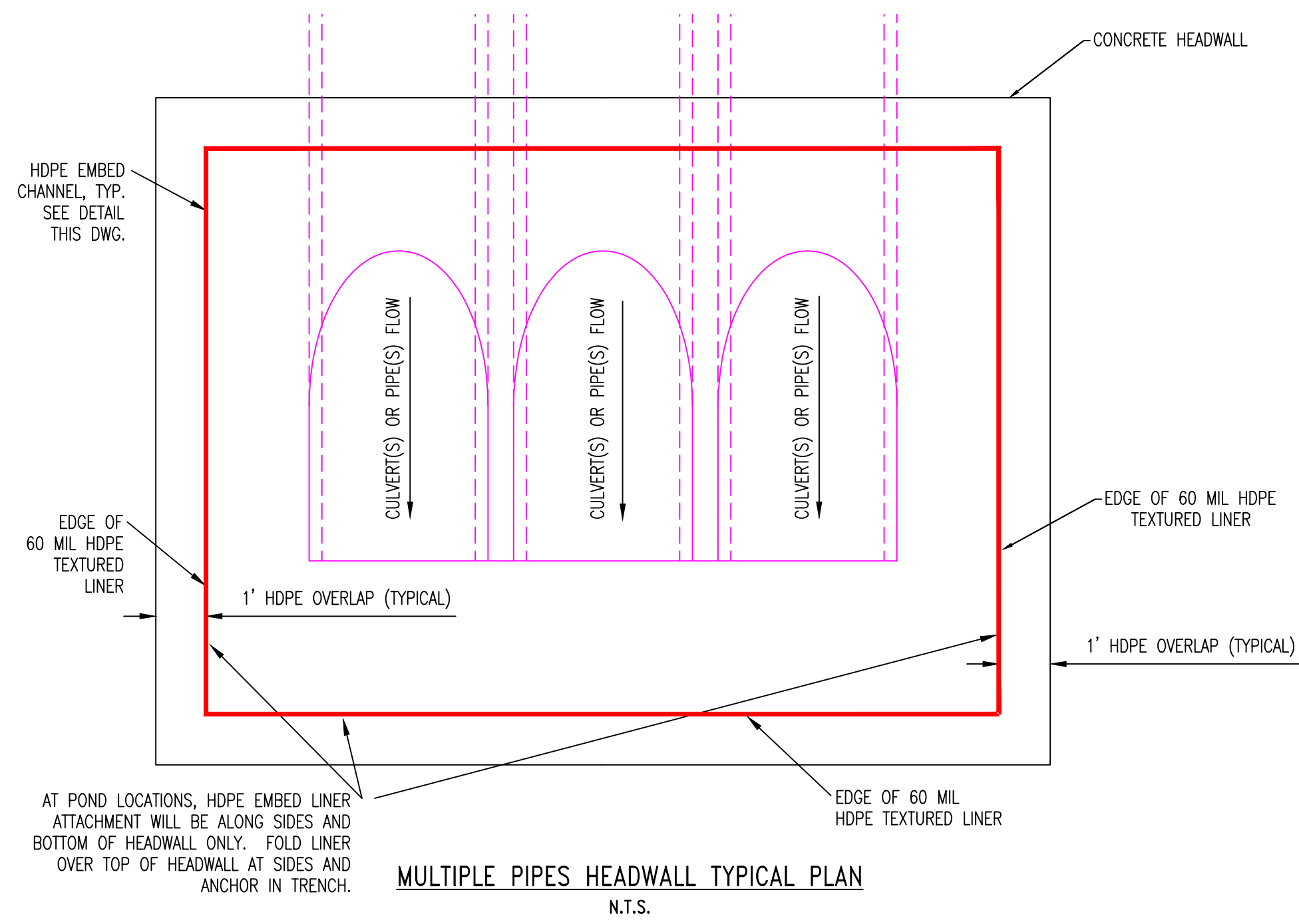
**Georgia Power Company**

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

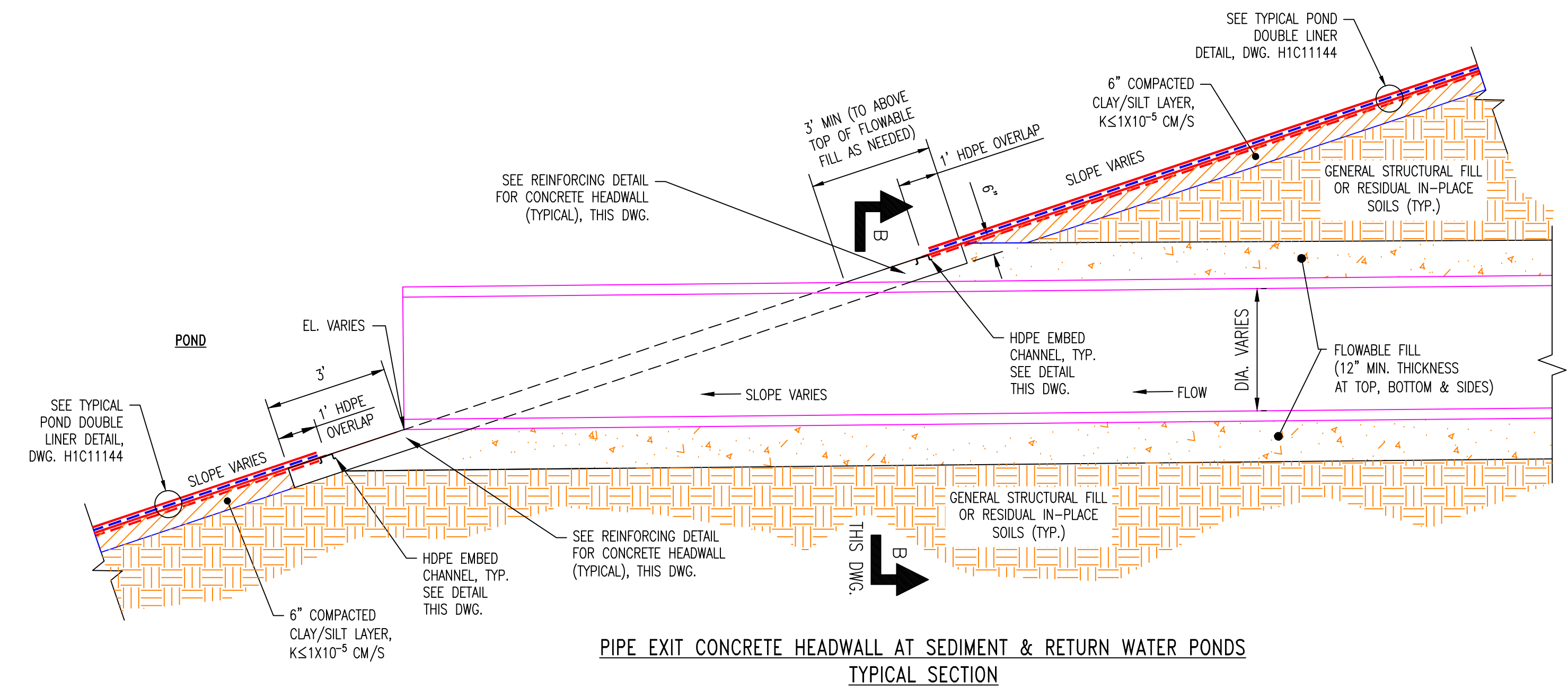
REVISION 0 [DATE 09-23-2022]  
CCR LF PERMIT APPLICATION [BY HHNT, INC.]

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

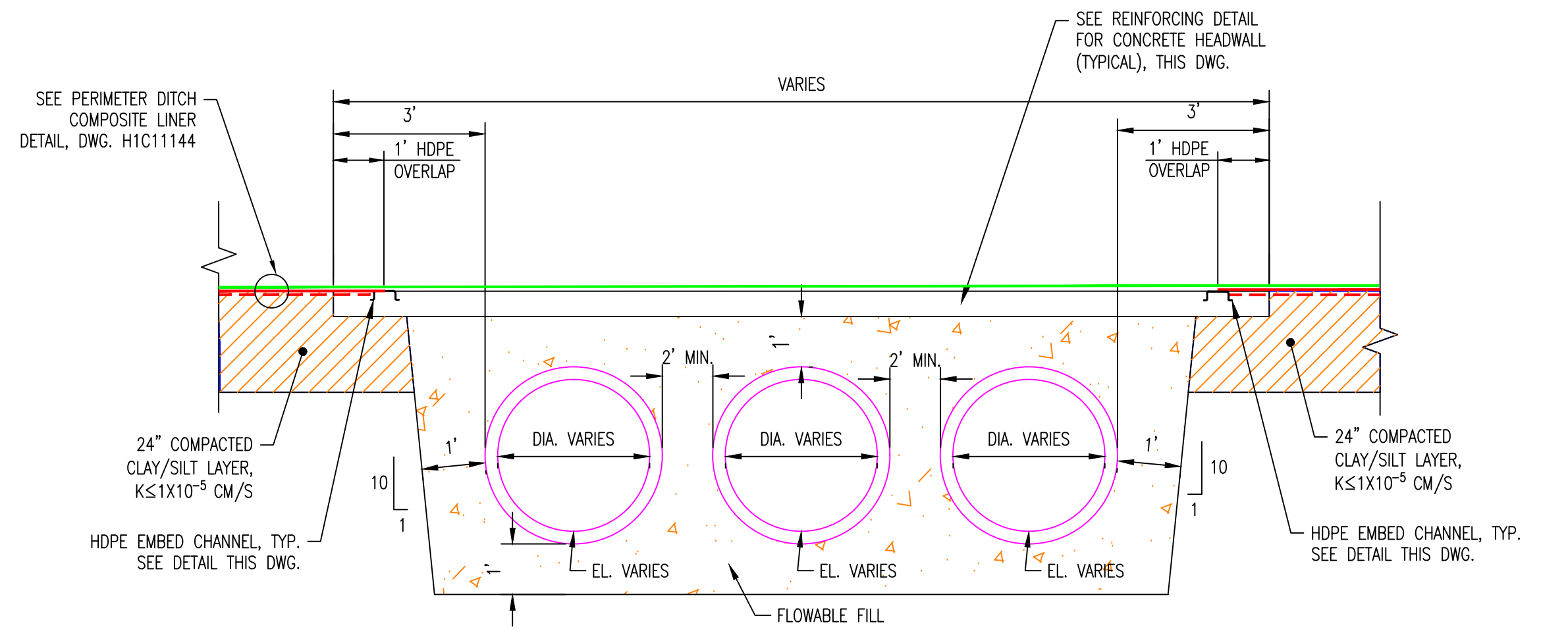




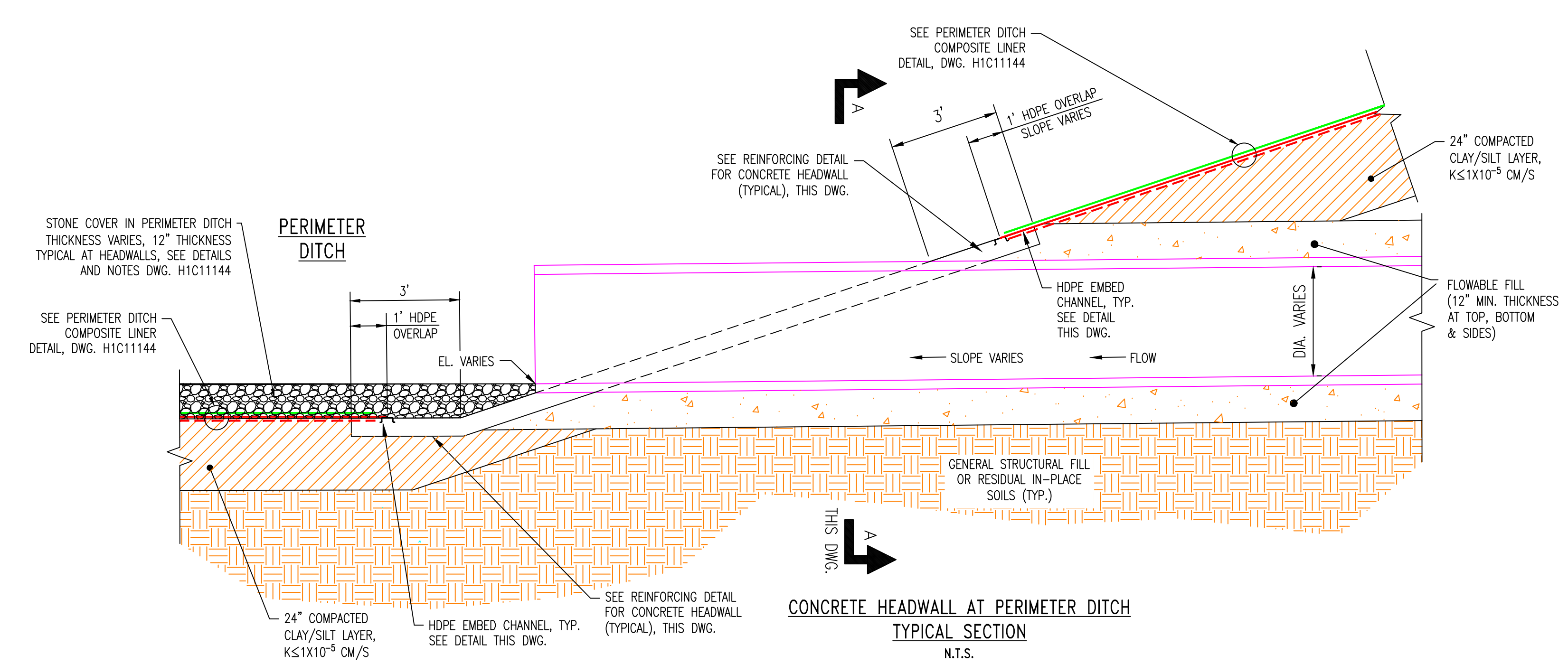
**MULTIPLE PIPES HEADWALL TYPICAL PLAN**  
N.T.S.



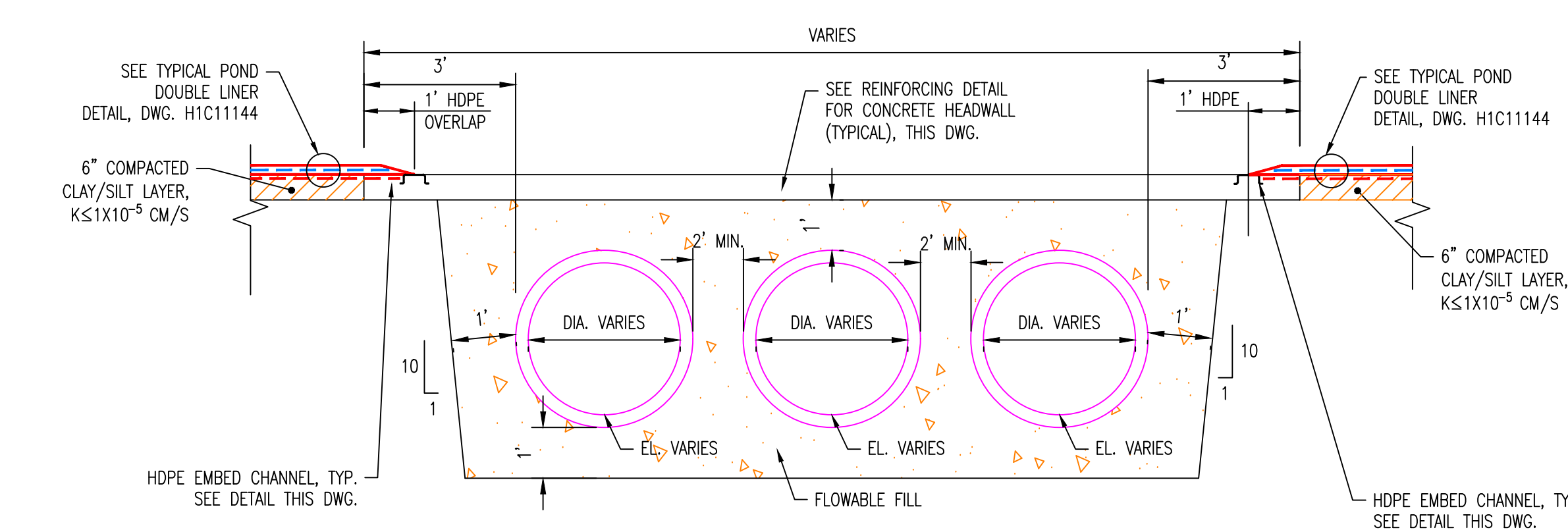
**PIPE EXIT CONCRETE HEADWALL AT SEDIMENT & RETURN WATER PONDS**  
TYPICAL SECTION  
N.T.S.



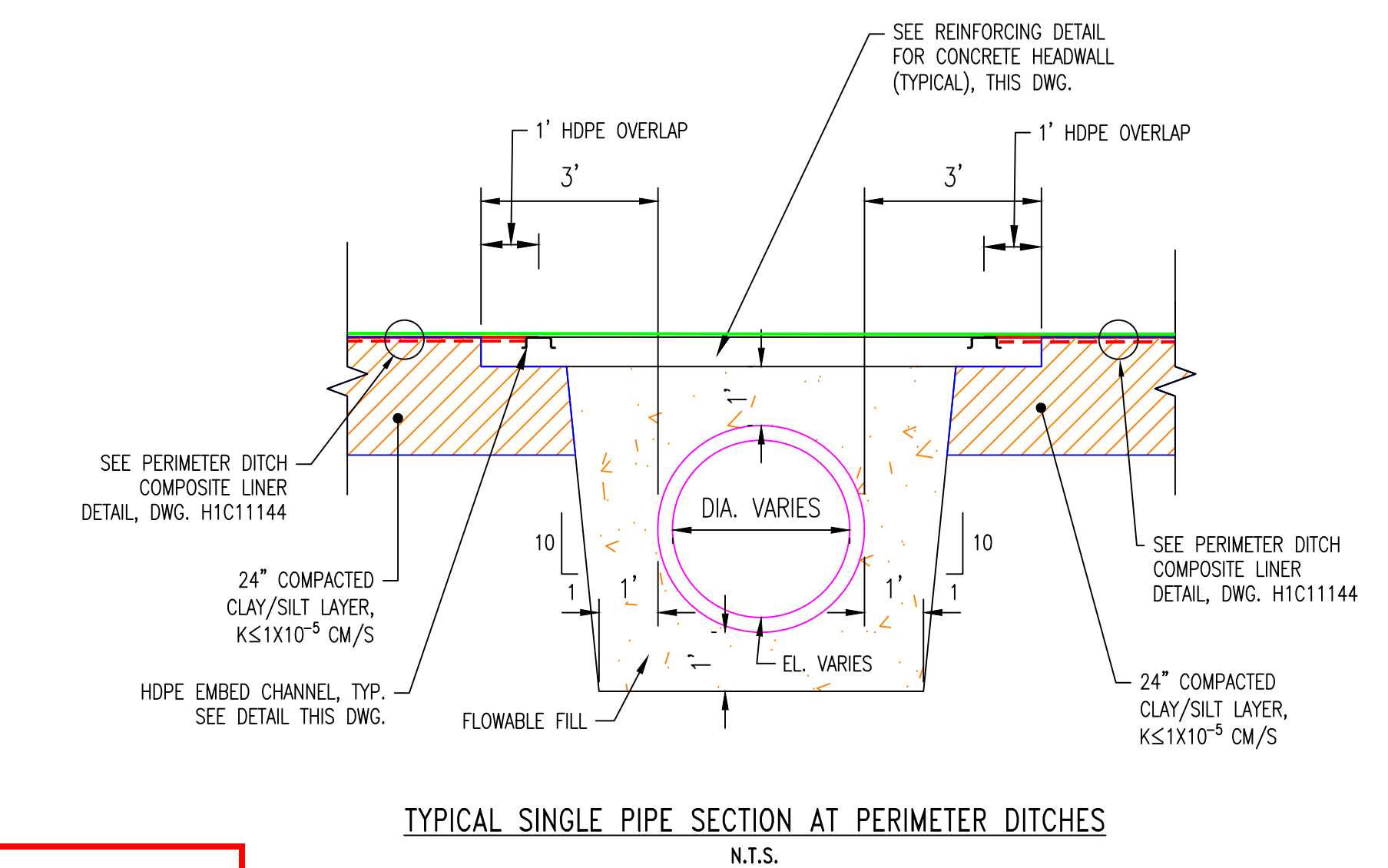
**SECTION A-A**  
TYPICAL MULTIPLE PIPE SECTION AT PERIMETER DITCHES  
N.T.S.



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



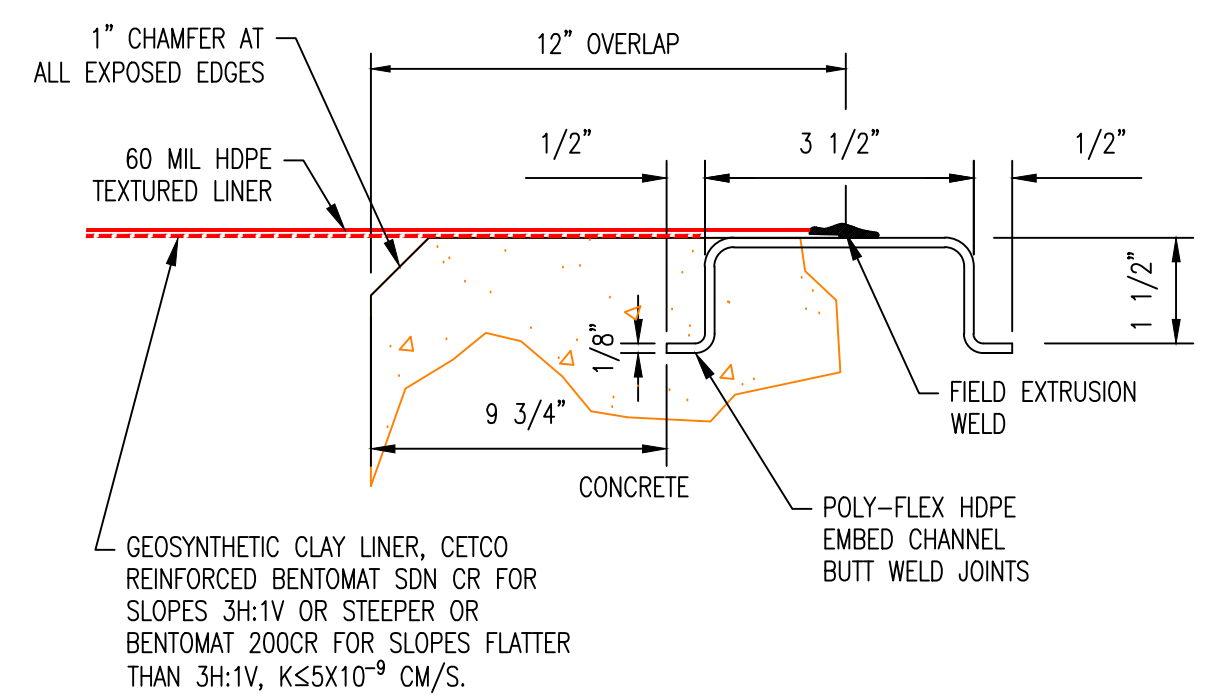
**SECTION B-B**  
TYPICAL MULTIPLE PIPE SECTION AT PONDS  
N.T.S.



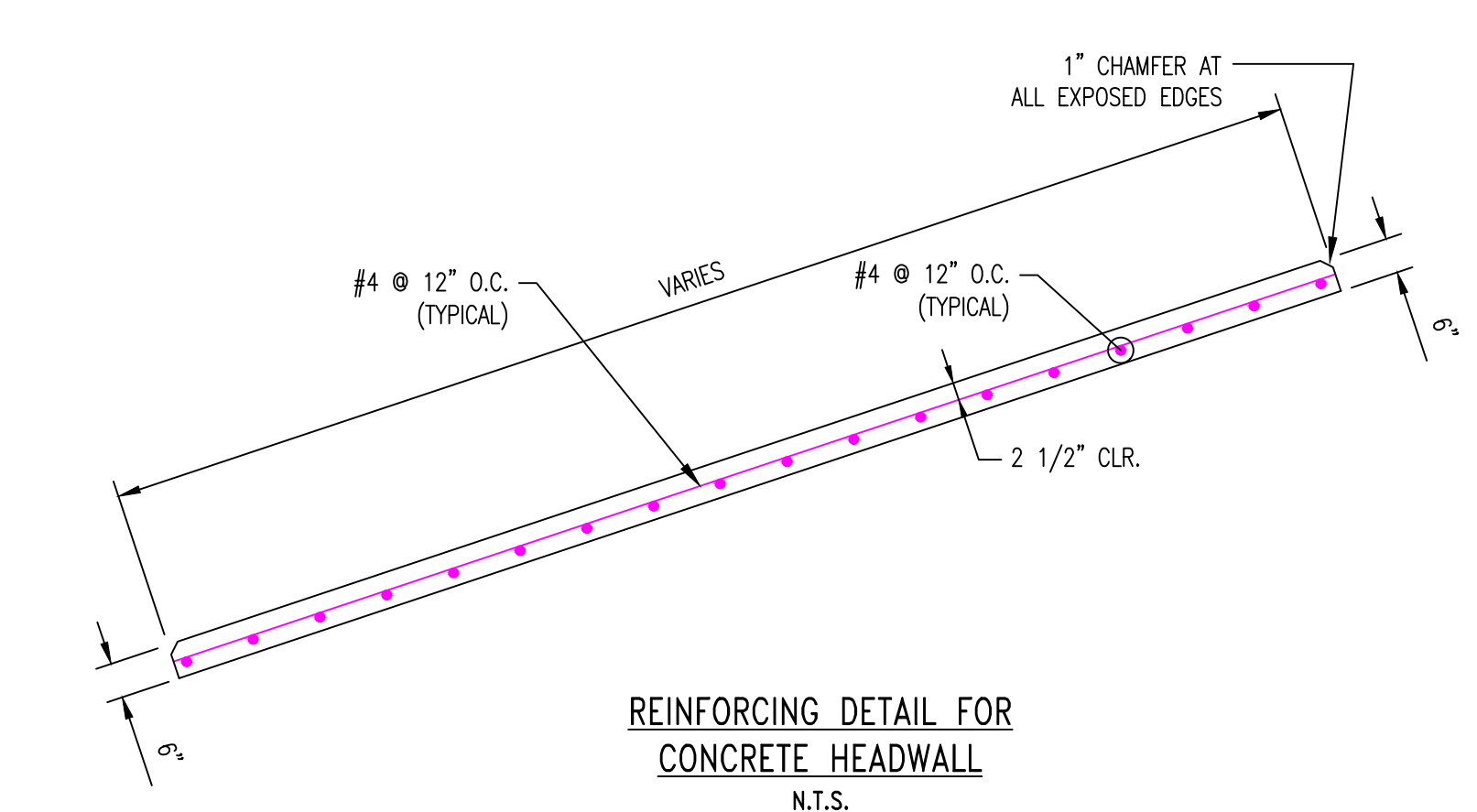
**TYPICAL SINGLE PIPE SECTION AT PERIMETER DITCHES**  
N.T.S.

**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.

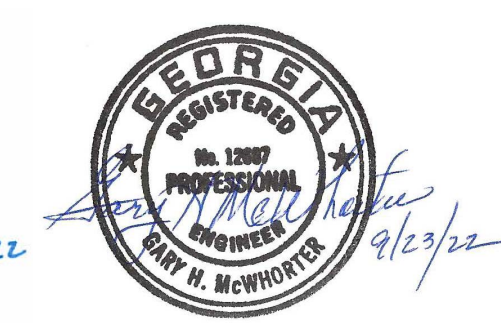
- REFERENCES:**
- H1C1120 TITLE SHEET AND DRAWING INDEX
  - H1C1125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
  - H1C1131 CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
  - H1C1133 CELL NO. 3 SITE DEVELOPMENT, BASE GRADING PLAN
  - H1C1144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2



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



**REINFORCING DETAIL FOR CONCRETE HEADWALL**  
N.T.S.



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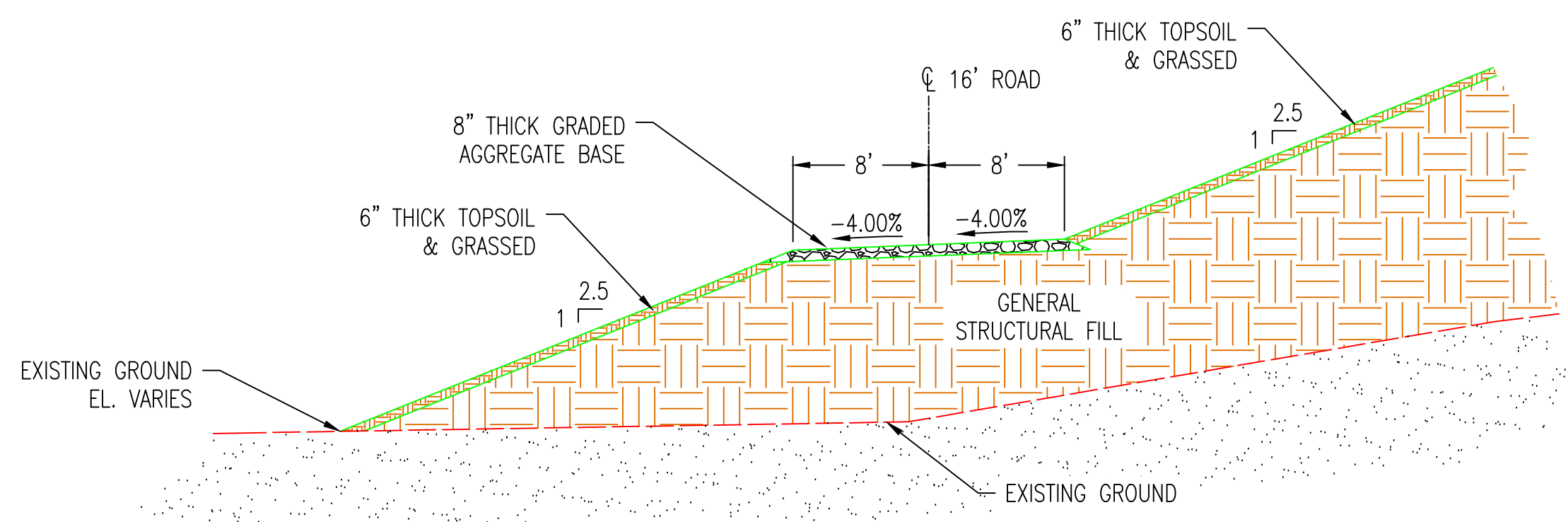
**Southern Company Generation Engineering and Construction Services**  
FOR

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

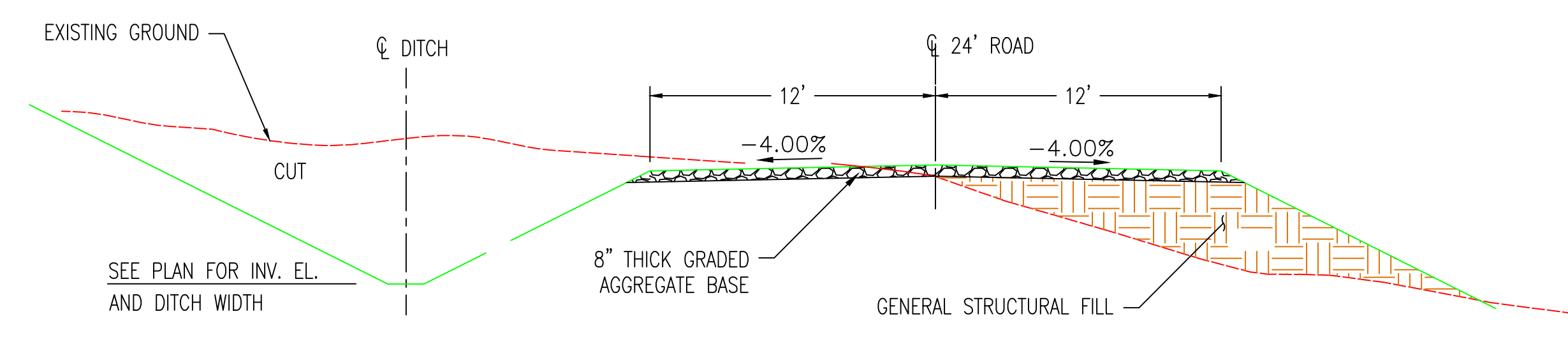
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REVISION	DATE
0	09-23-2022

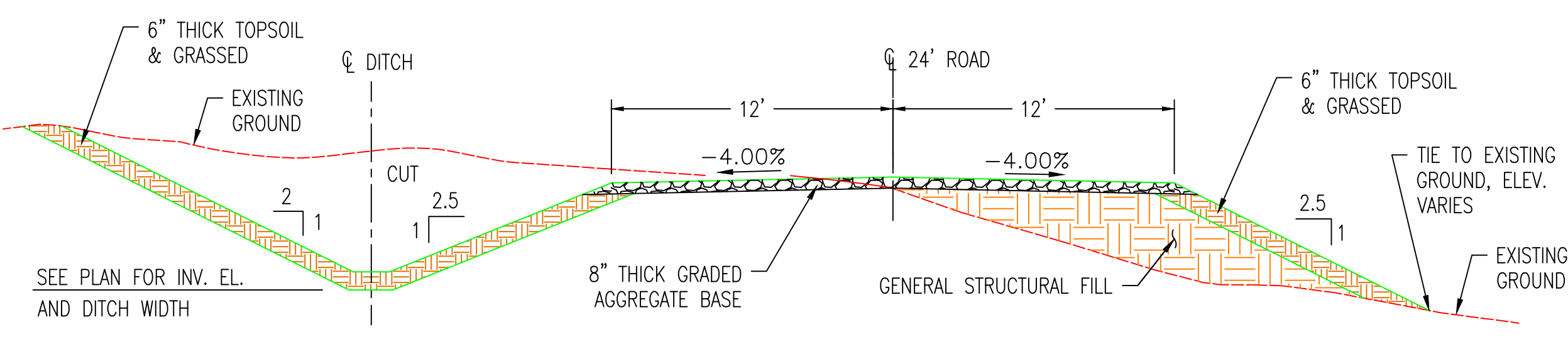
BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
ANR	RBL						AS NOTED	H1C1145	1	FINAL	0



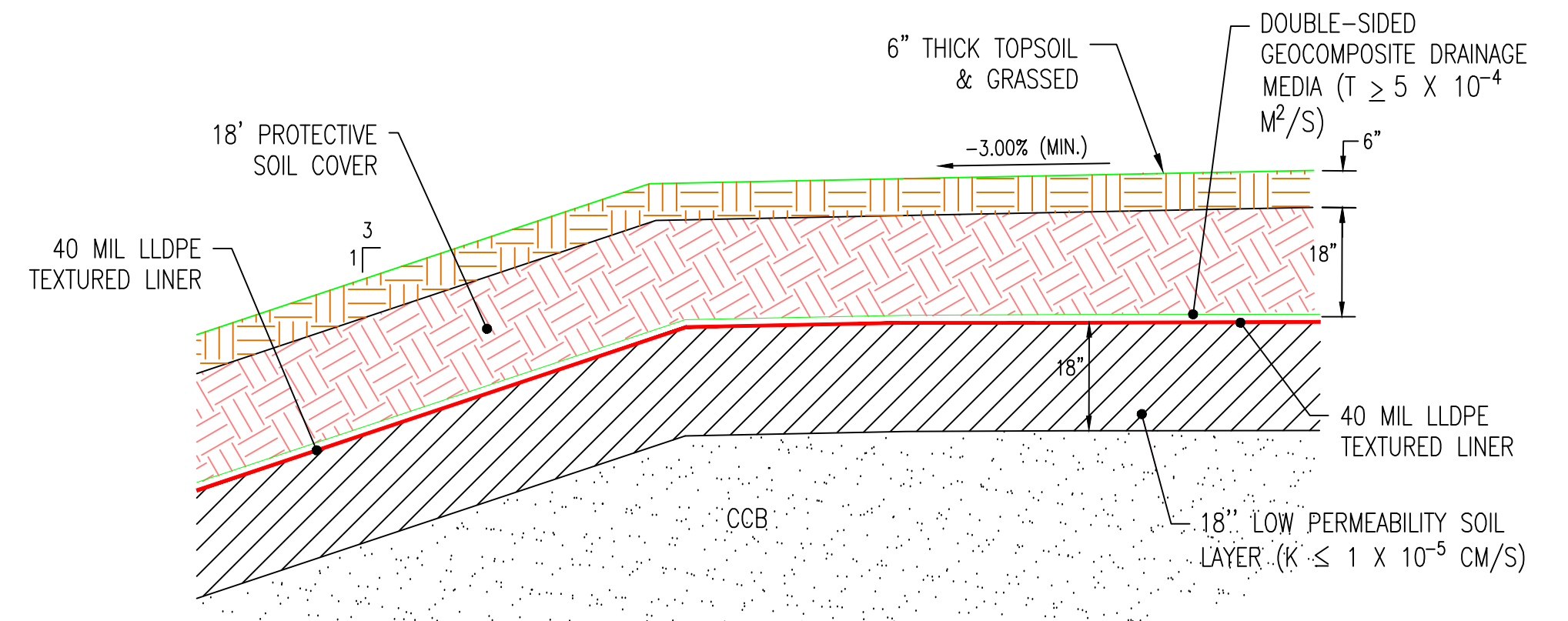
**PUMP ACCESS ROAD  
TYPICAL SECTION**  
NOT TO SCALE  
(H1C11125, H1C11126, H1C11131, H1C11132, & H1C11133)



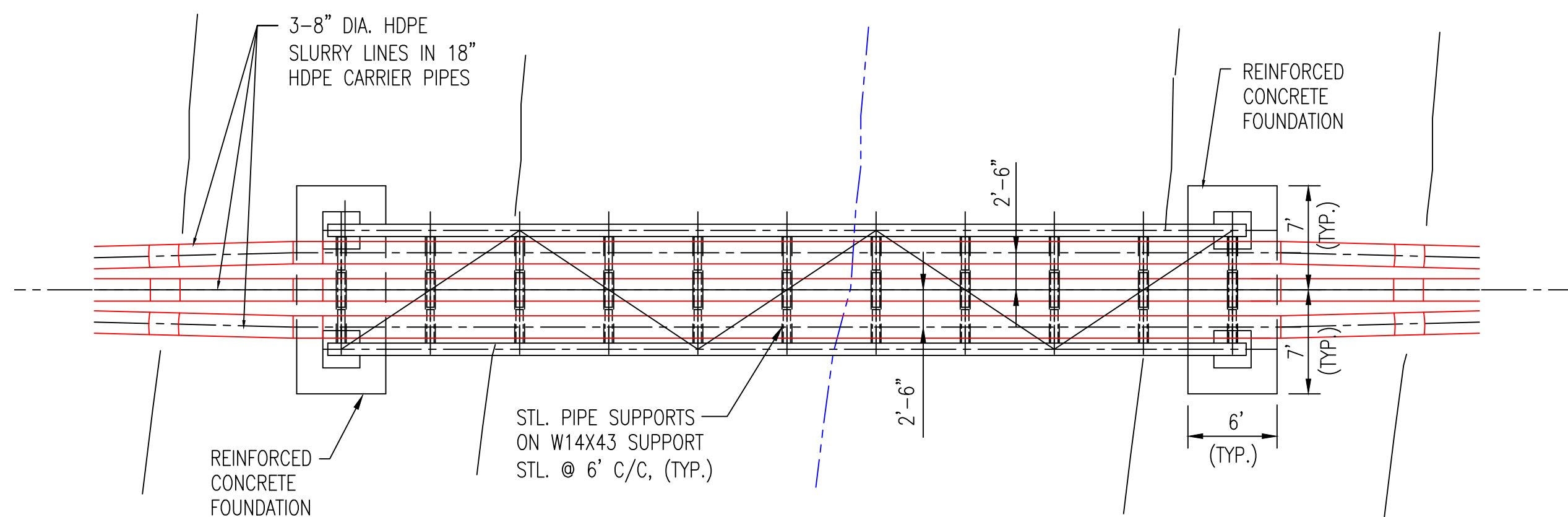
**ACCESS ROAD  
TYPICAL SECTION**  
NOT TO SCALE  
(H1C11125, H1C11126, H1C11131, H1C11132, & H1C11133)



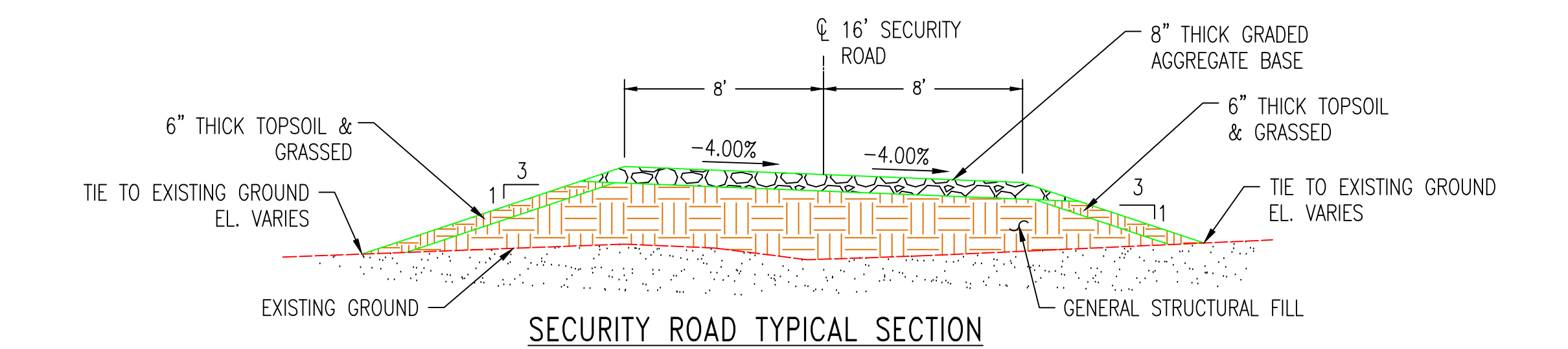
**ENTRANCE ROAD  
TYPICAL SECTION**  
NOT TO SCALE  
(H1C11125, H1C11126, H1C11131, H1C11132, & H1C11133)



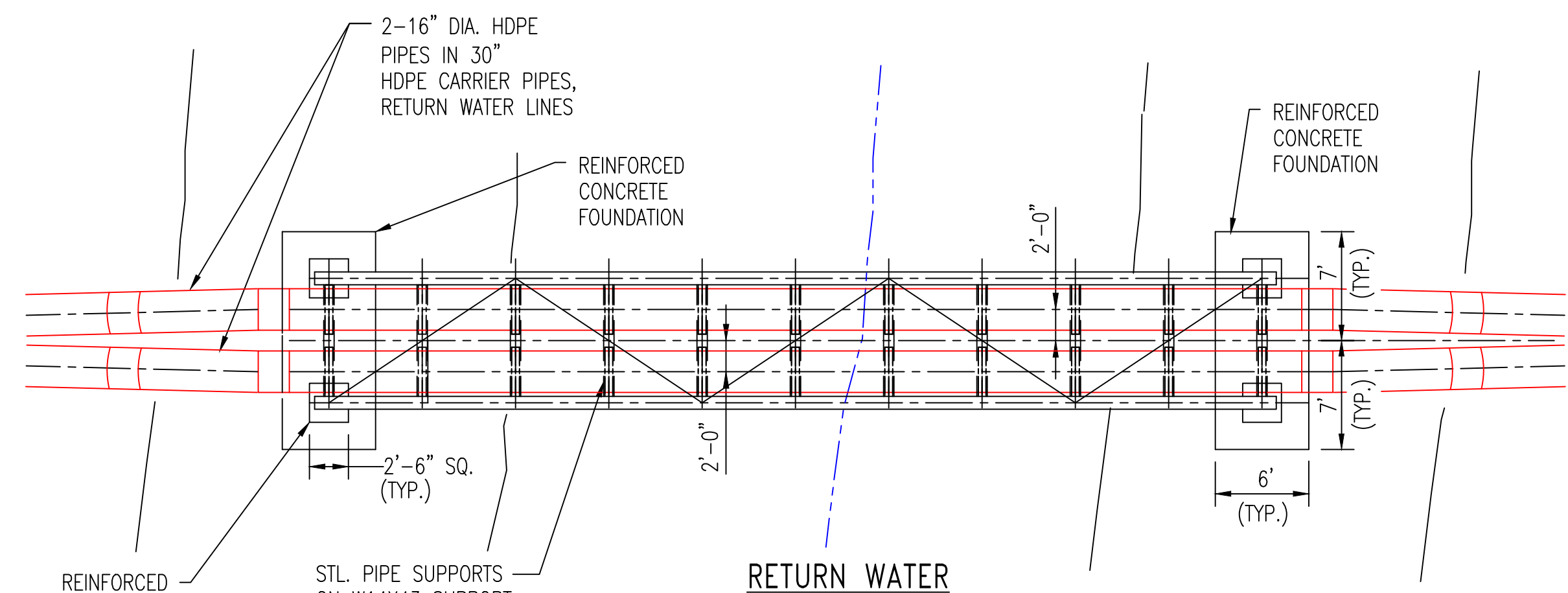
**FINAL COVER DETAIL**  
NOT TO SCALE  
(H1C11130, H1C11132, & H1C11134)



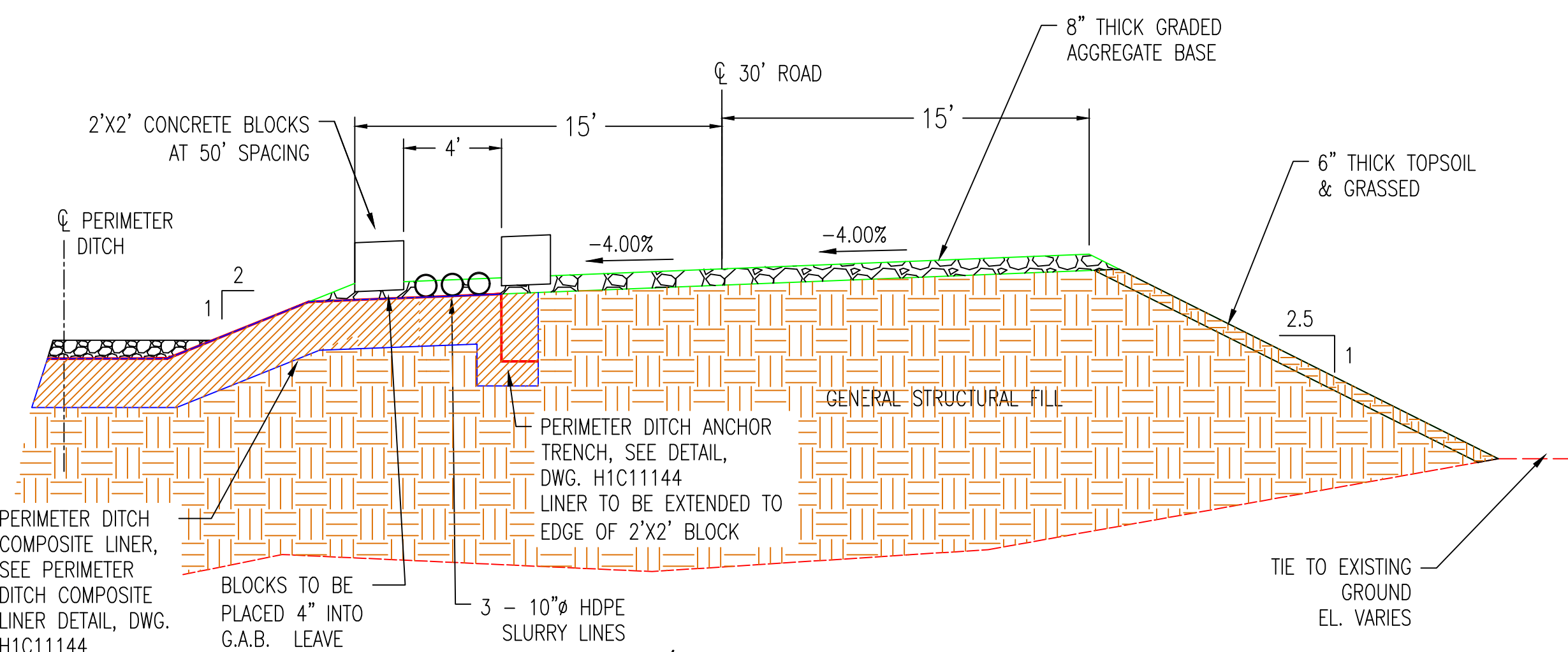
**GYPHUM SLURRY STREAM CROSSINGS #1 & #2 - PLAN**  
NOT TO SCALE  
(H1C11124 & H1C11126)



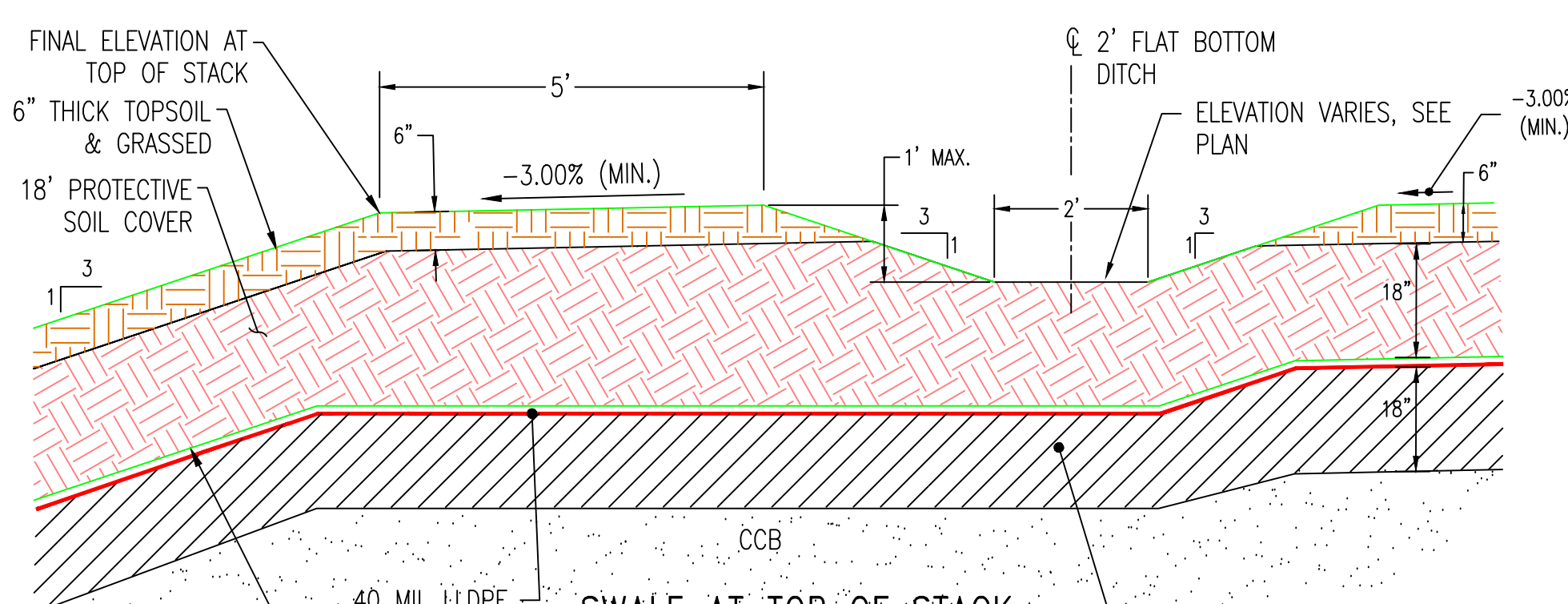
**SECURITY ROAD TYPICAL SECTION**  
NOT TO SCALE  
(H1C11125, H1C11126, H1C11127, & H1C11128)



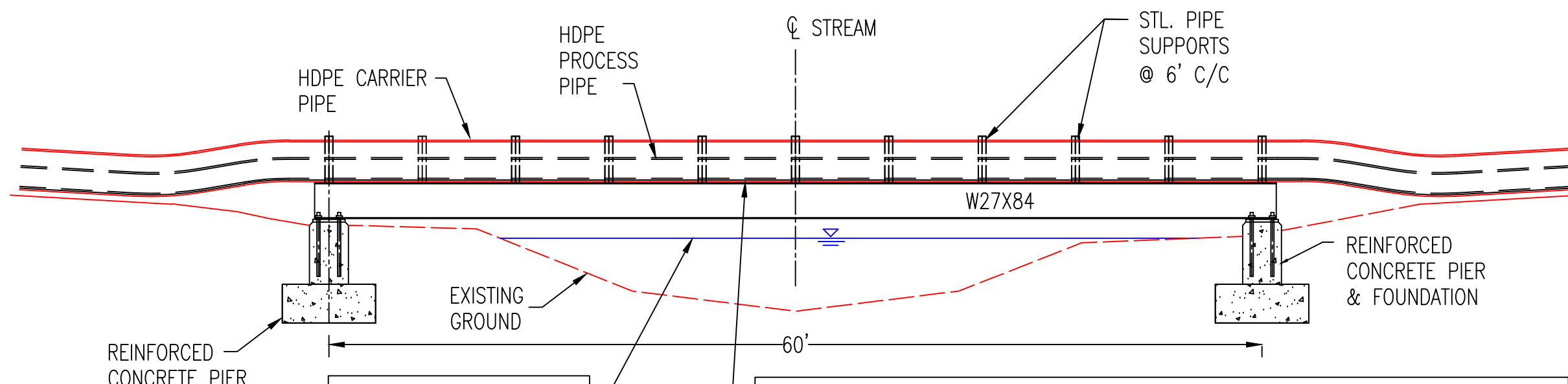
**RETURN WATER  
STREAM CROSSING PLAN**  
NOT TO SCALE  
(H1C11124 & H1C11125)



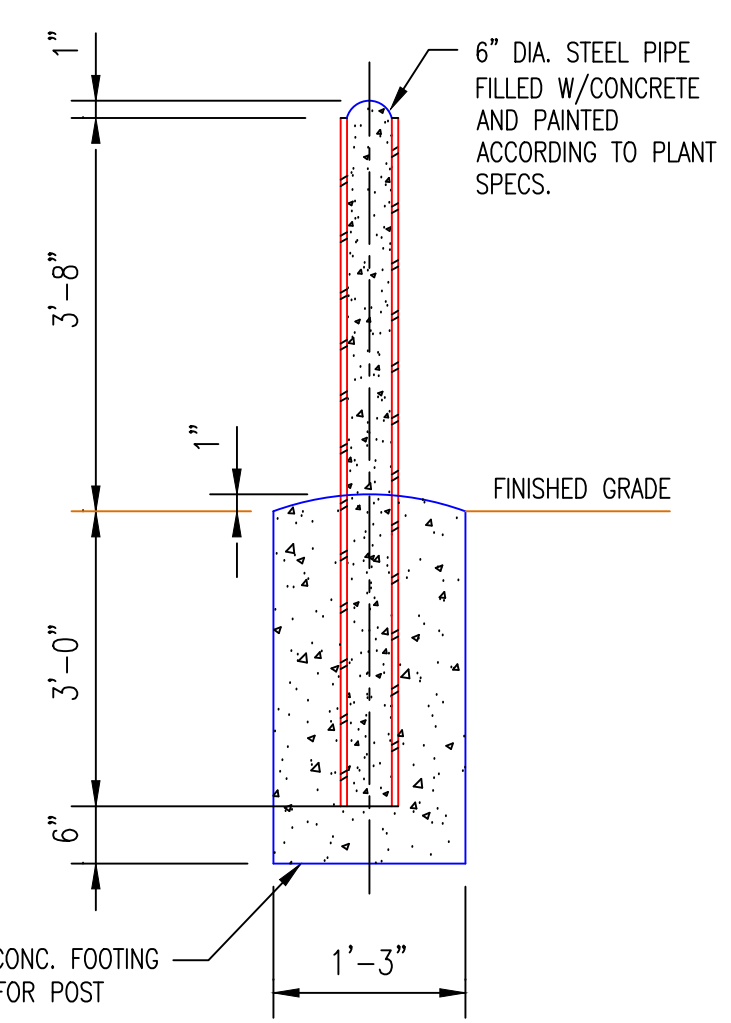
**PERIMETER ROAD W/ WIDENING FOR SLURRY LINES  
TYPICAL SECTION**  
NOT TO SCALE  
(H1C11125, H1C11126, H1C11131, H1C11132 & H1C11133)



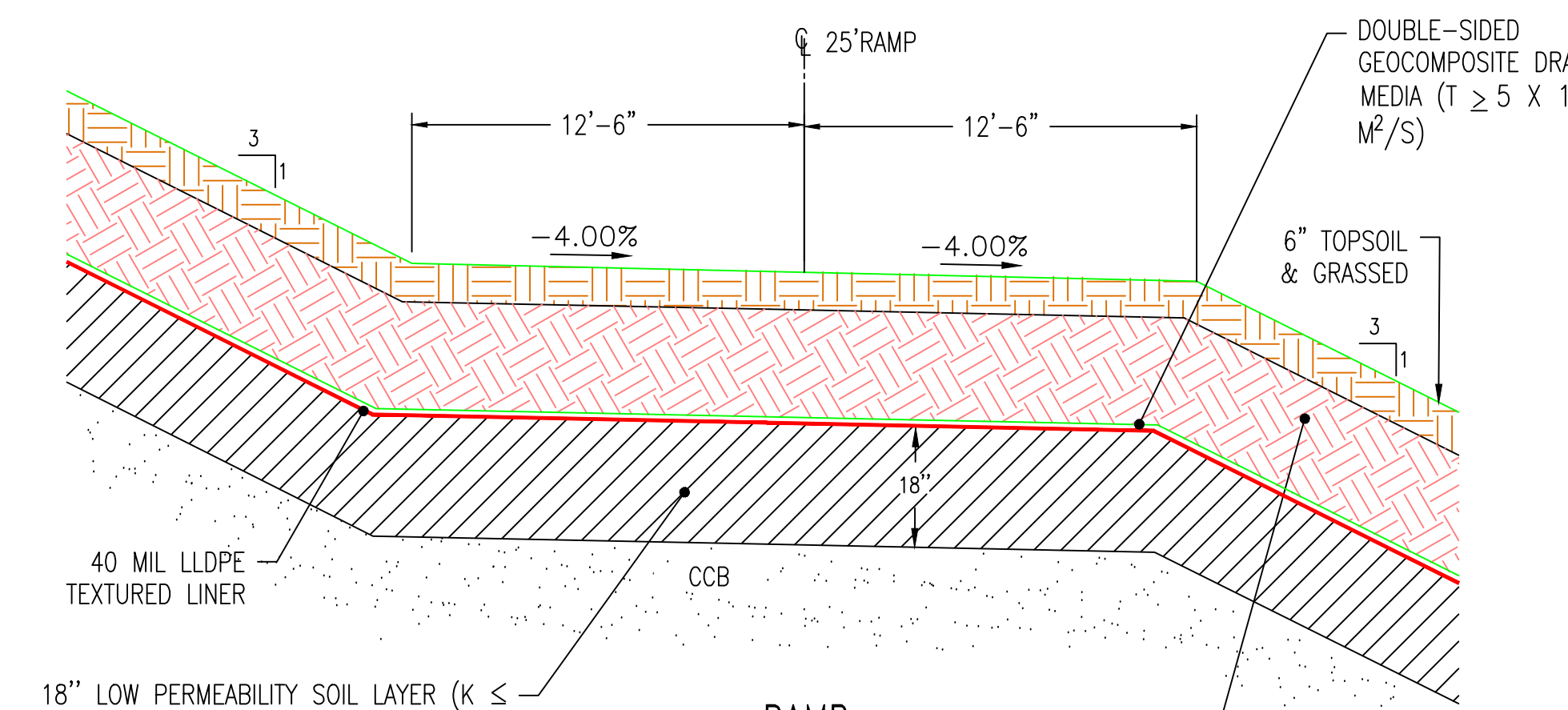
**SWALE AT TOP OF STACK  
DETAIL**  
NOT TO SCALE  
(H1C11130, H1C11132, & H1C11134)



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



**BOLLARD DETAIL**  
NOT TO SCALE



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

- REFERENCES:**
- H1C1120 TITLE SHEET AND DRAWING INDEX
  - H1C1124 GENERAL SITE DEVELOPMENT, CELL LAYOUT
  - H1C1125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
  - H1C1126 CELL NO. 2, SITE DEVELOPMENT, ROUGH GRADE/BORROW PLAN
  - H1C1127 SECURITY ROAD LAYOUT AND GRADING PLAN
  - H1C1130 CELL NO. 1 FINAL STACKING PLAN
  - H1C1131 CELL NO. 2 SITE DEVELOPMENT, BASE GRADING PLAN
  - H1C1132 CELL 1 & 2 COMBINED, FINAL STACKING PLAN
  - H1C1133 CELL NO. 3 SITE DEVELOPMENT, BASE GRADING PLAN
  - H1C1134 CELL NO. 3 FINAL STACKING PLAN
  - H1C1135 CELL NO. 1 SECTIONS THRU STACK
  - H1C1141 CELL NO. 1 AND CELL NO. 2, SEDIMENT POND SPILLWAY SECTIONS AND DETAILS
  - H1C1144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2

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

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

**GEORGIA**  
REGISTERED PROFESSIONAL ENGINEER  
NO. 12087  
D. H. McWHIRTER  
9/26/22

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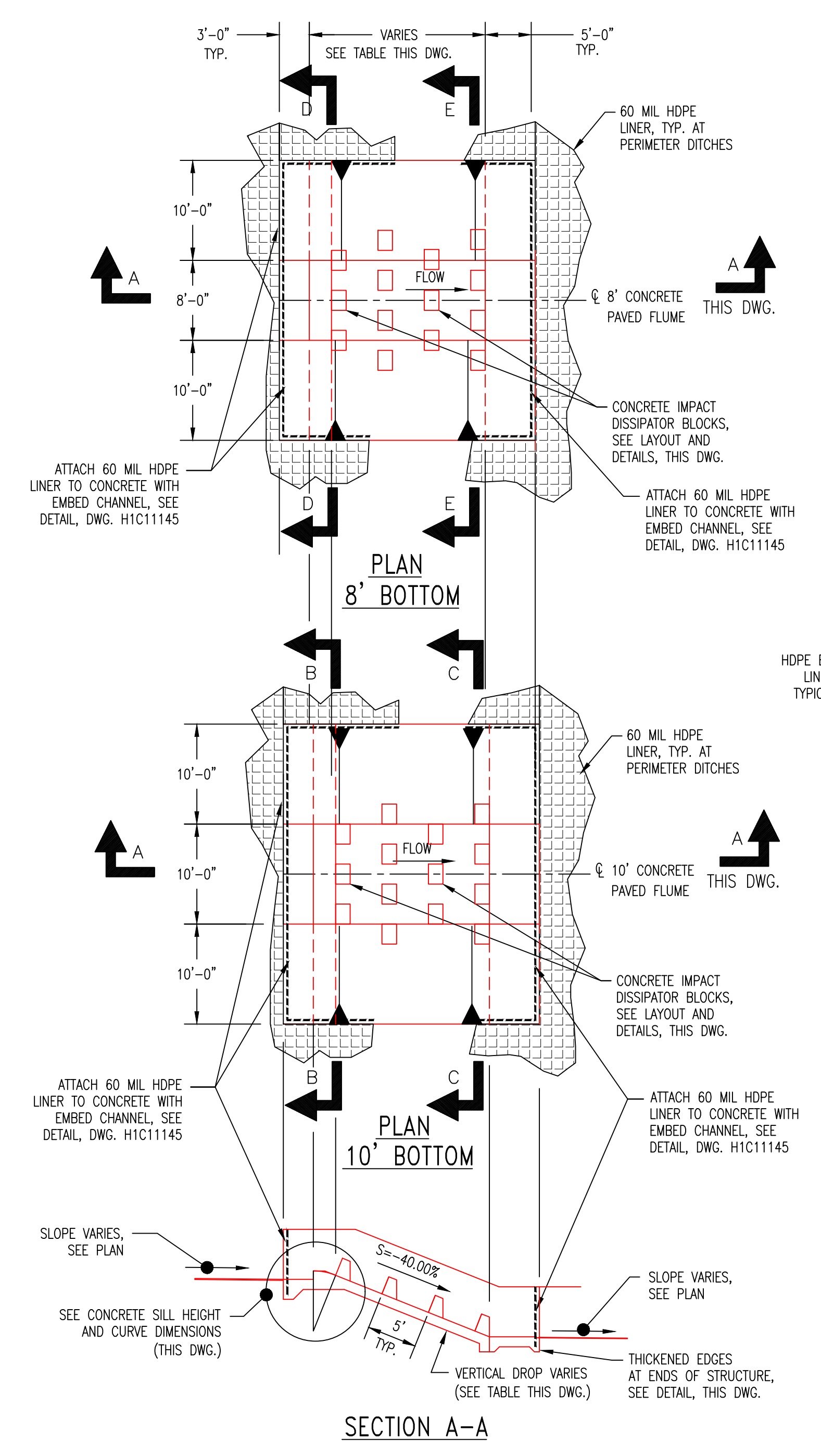
PLANT WANSLEY  
COAL COMBUSTION RESIDUALS (CCR) LANDFILL  
CELL NO. 1 THROUGH CELL NO. 3  
MISCELLANEOUS SECTIONS AND DETAILS  
SHEET 1

REVISION	0	DATE	09-23-2022

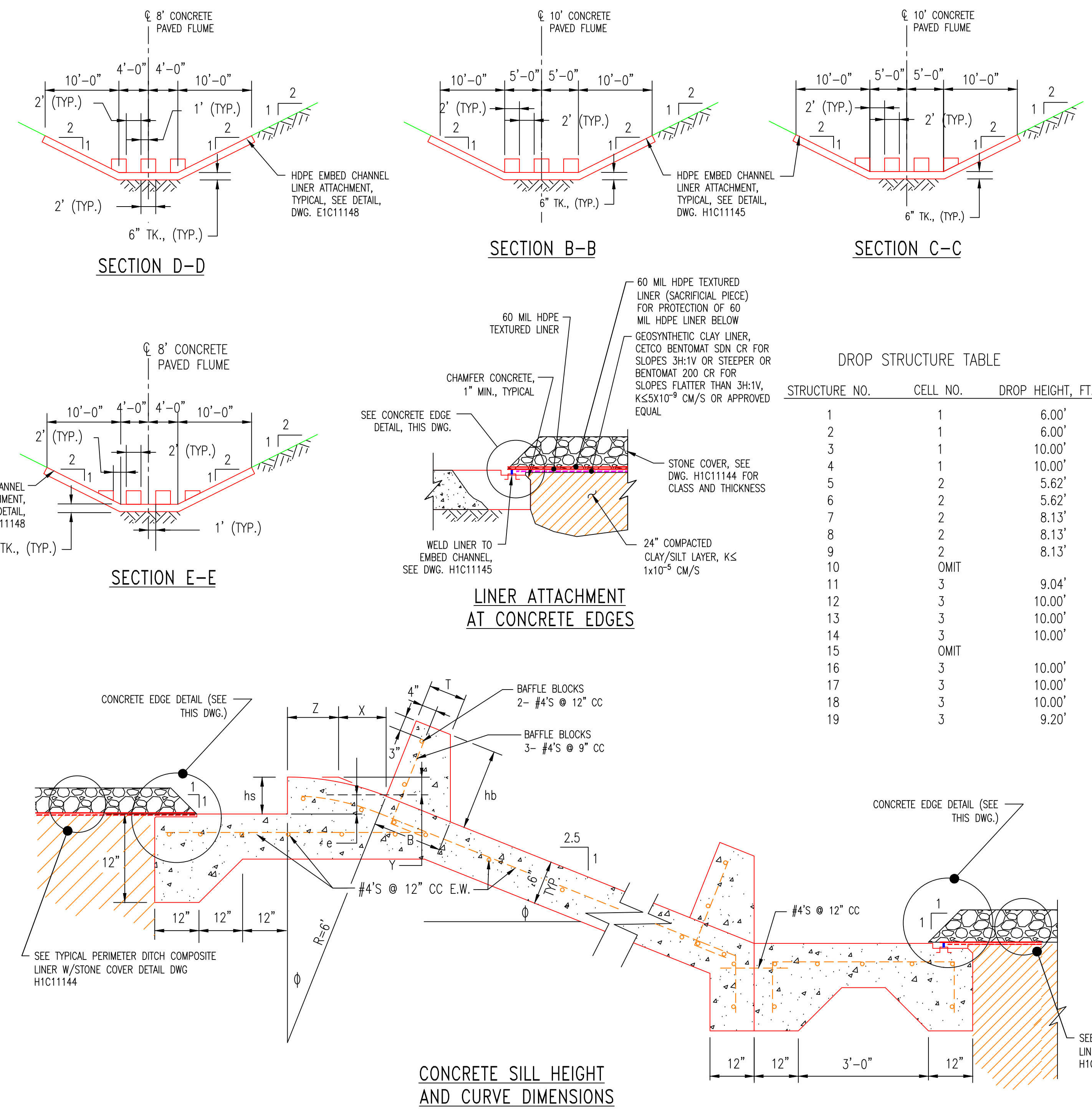
CCR LF PERMIT APPLICATION [BY HHNT, INC.]

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

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



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



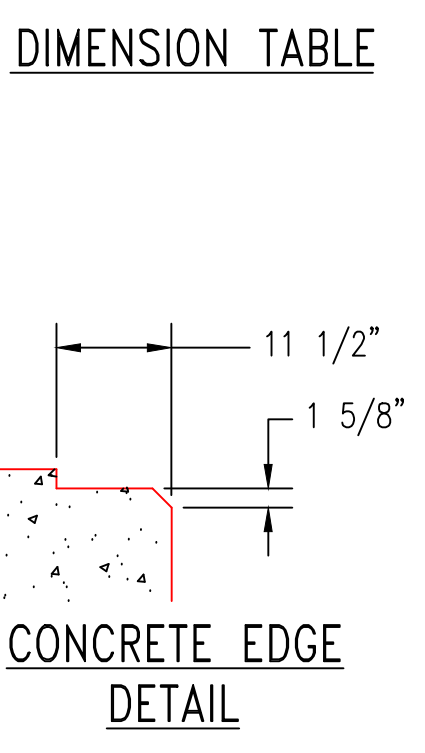
**CONCRETE SILL HEIGHT  
AND CURVE DIMENSIONS**

**DROP STRUCTURE TABLE**

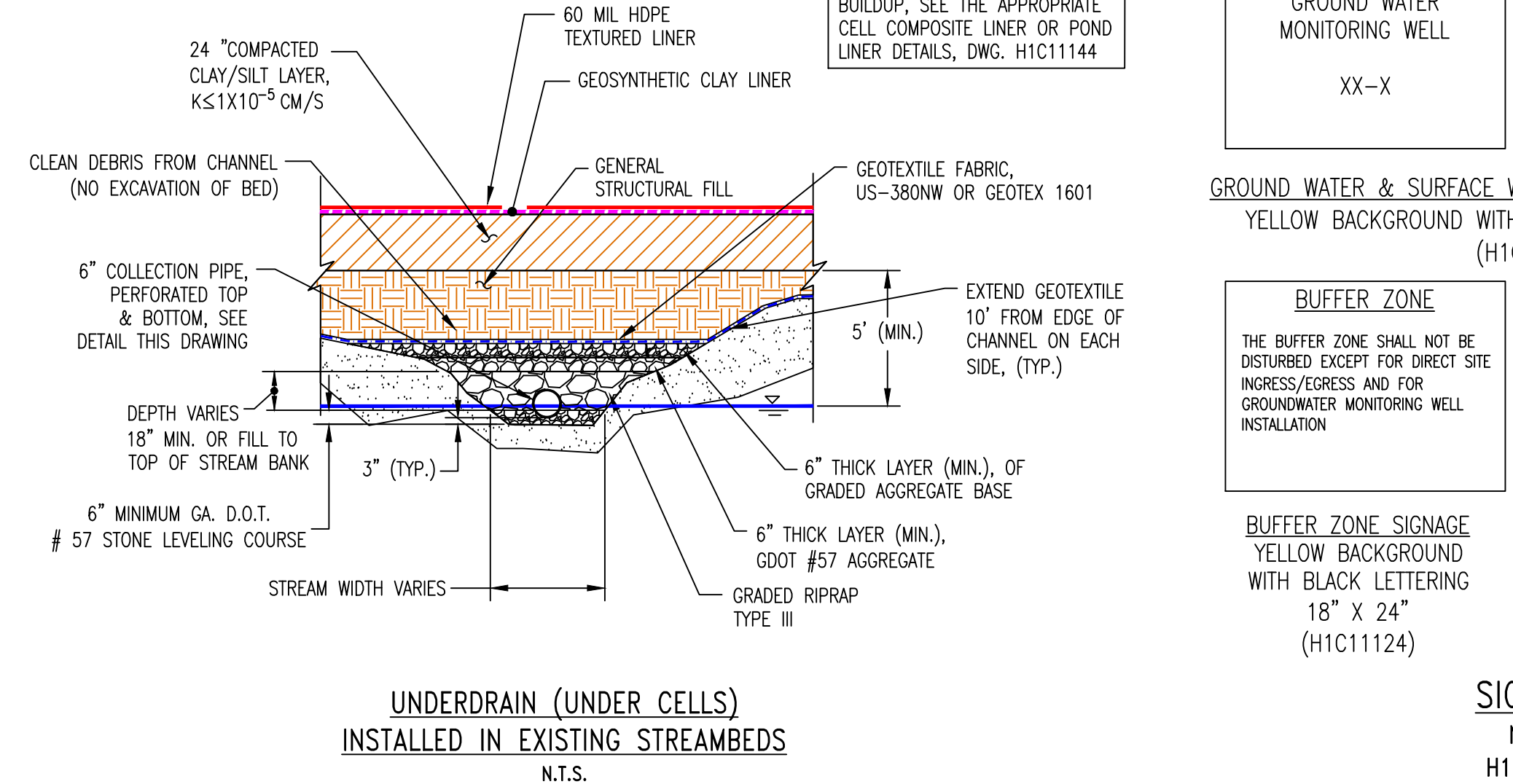
STRUCTURE NO.	CELL NO.	DROP HEIGHT, FT.
1	1	6.00'
2	1	6.00'
3	1	10.00'
4	1	10.00'
5	2	5.62'
6	2	5.62'
7	2	8.13'
8	2	8.13'
9	2	8.13'
10	OMIT	
11	3	9.04'
12	3	10.00'
13	3	10.00'
14	3	10.00'
15	OMIT	
16	3	10.00'
17	3	10.00'
18	3	10.00'
19	3	9.20'

**DIMENSION TABLE**

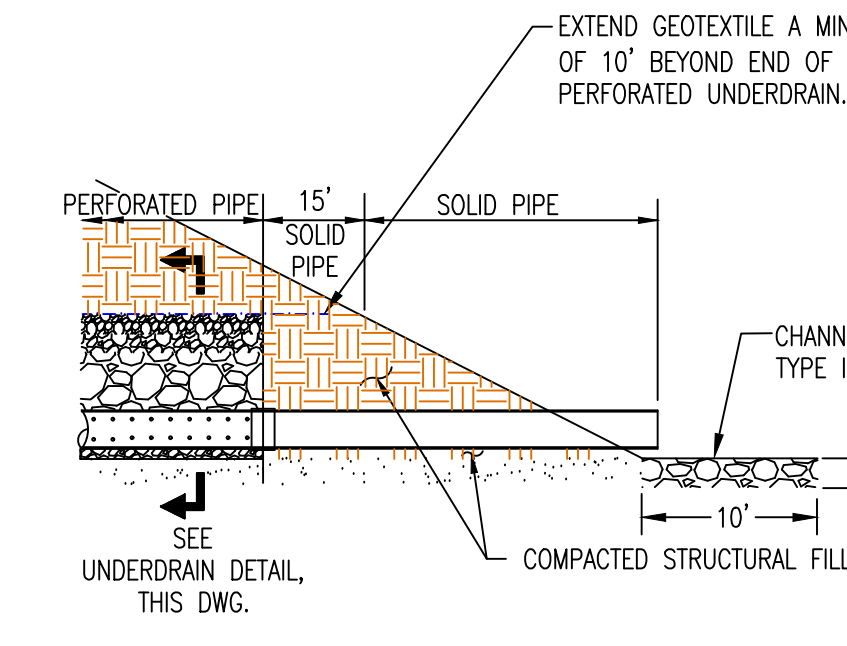
B = 1'-6 3/8"
e = 4 3/8"
hs = 10"
hb = 1'-10"
X = 1'-0 1/2"
Y = 5 3/8"
Z = 1'-1 1/2"
T = 10"
O = 21'48'05"



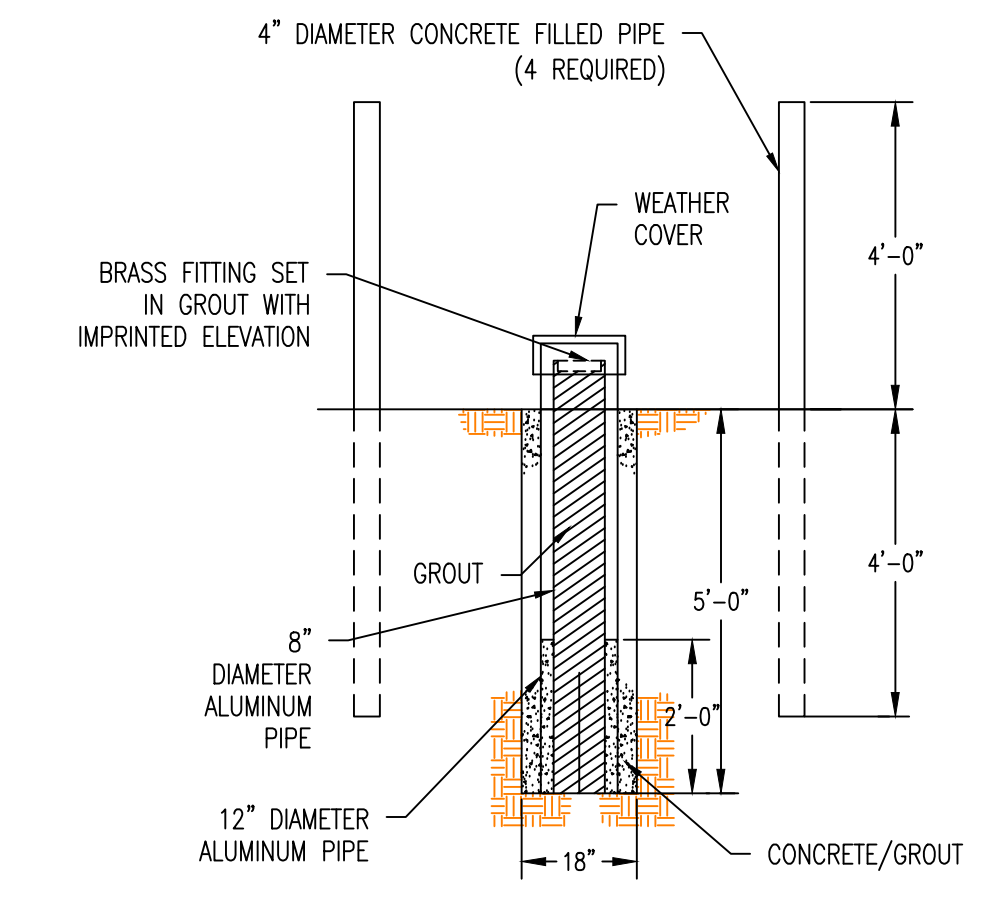
**CONCRETE EDGE  
DETAIL**



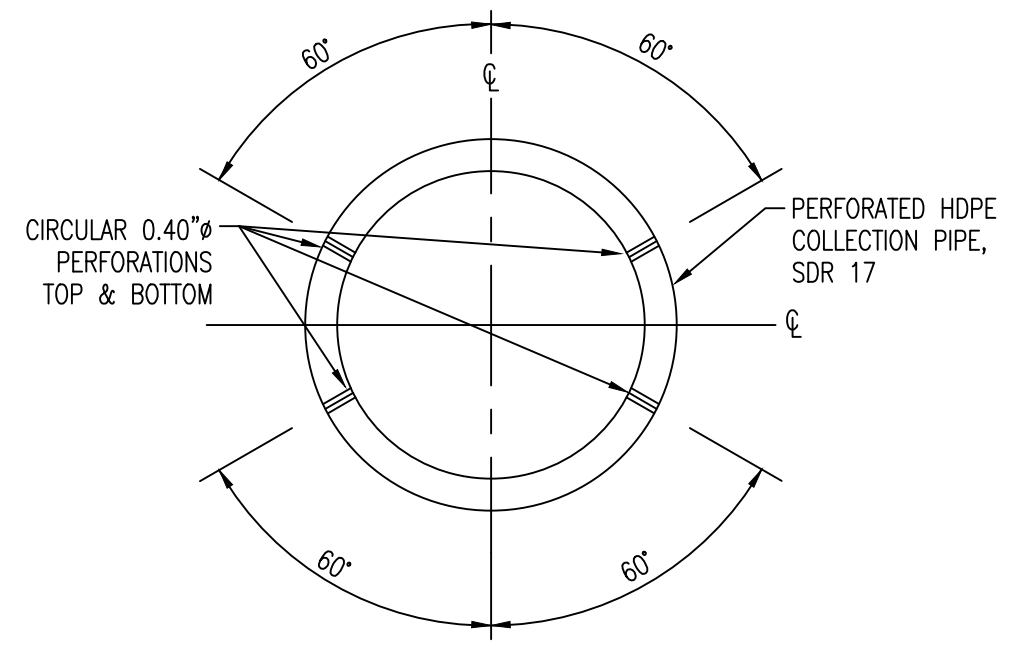
**UNDERDRAIN (UNDER CELLS)  
INSTALLED IN EXISTING STREAMBEDS  
N.T.S.**



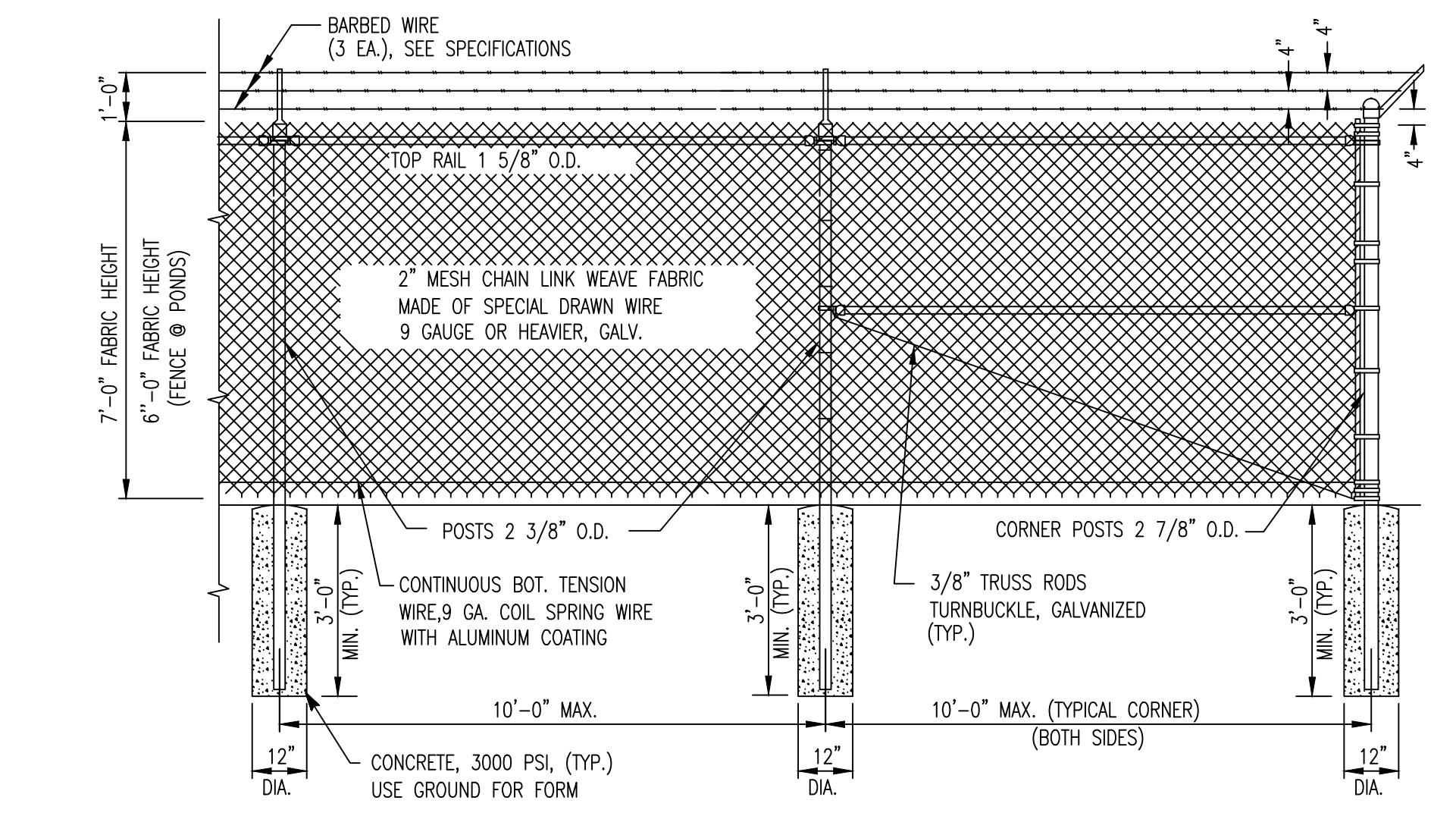
**UNDERDRAIN OUTLET DETAIL  
N.T.S.**



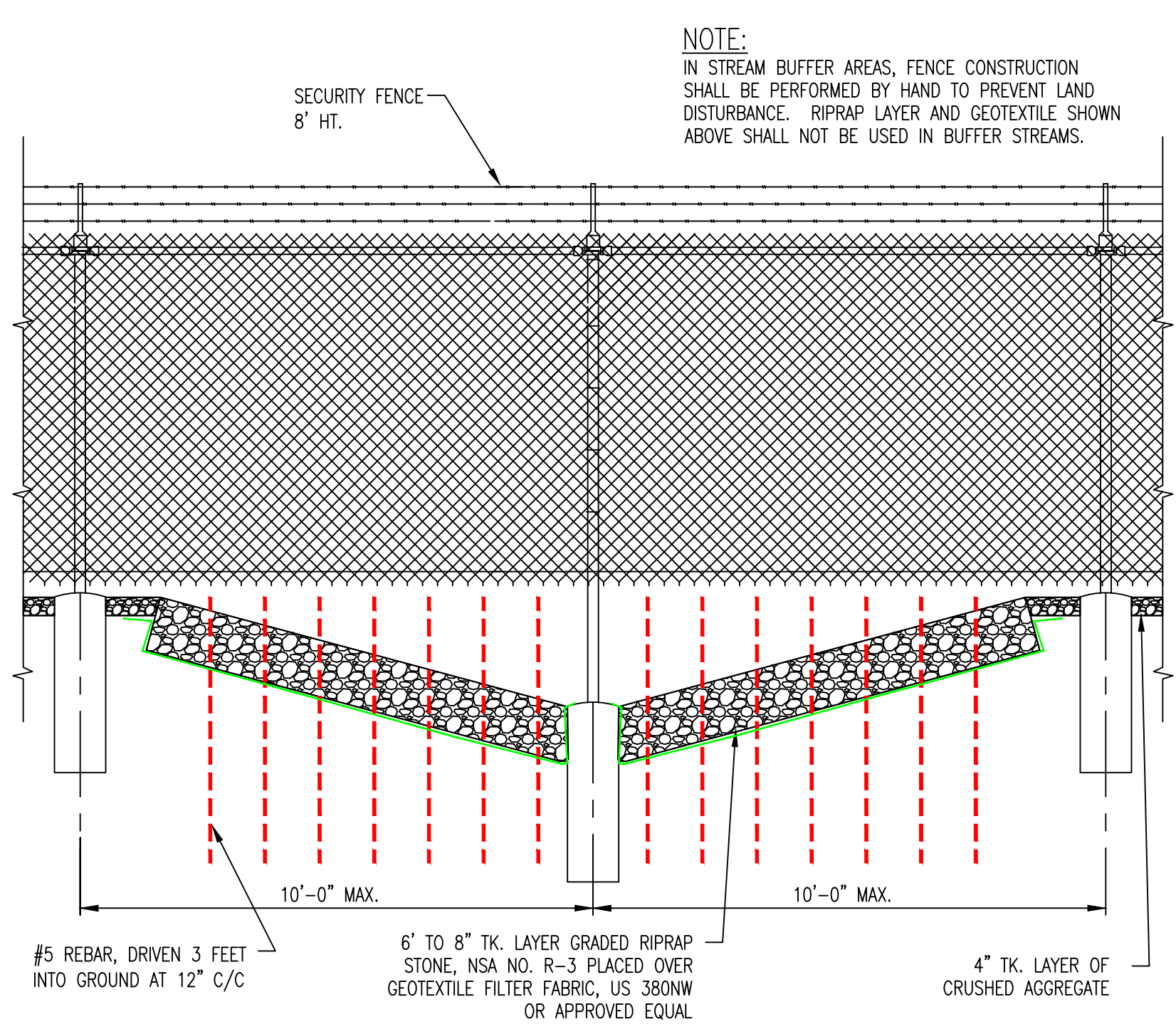
**SURVEY CONTROL MONUMENT  
N.T.S.  
H1C11124**



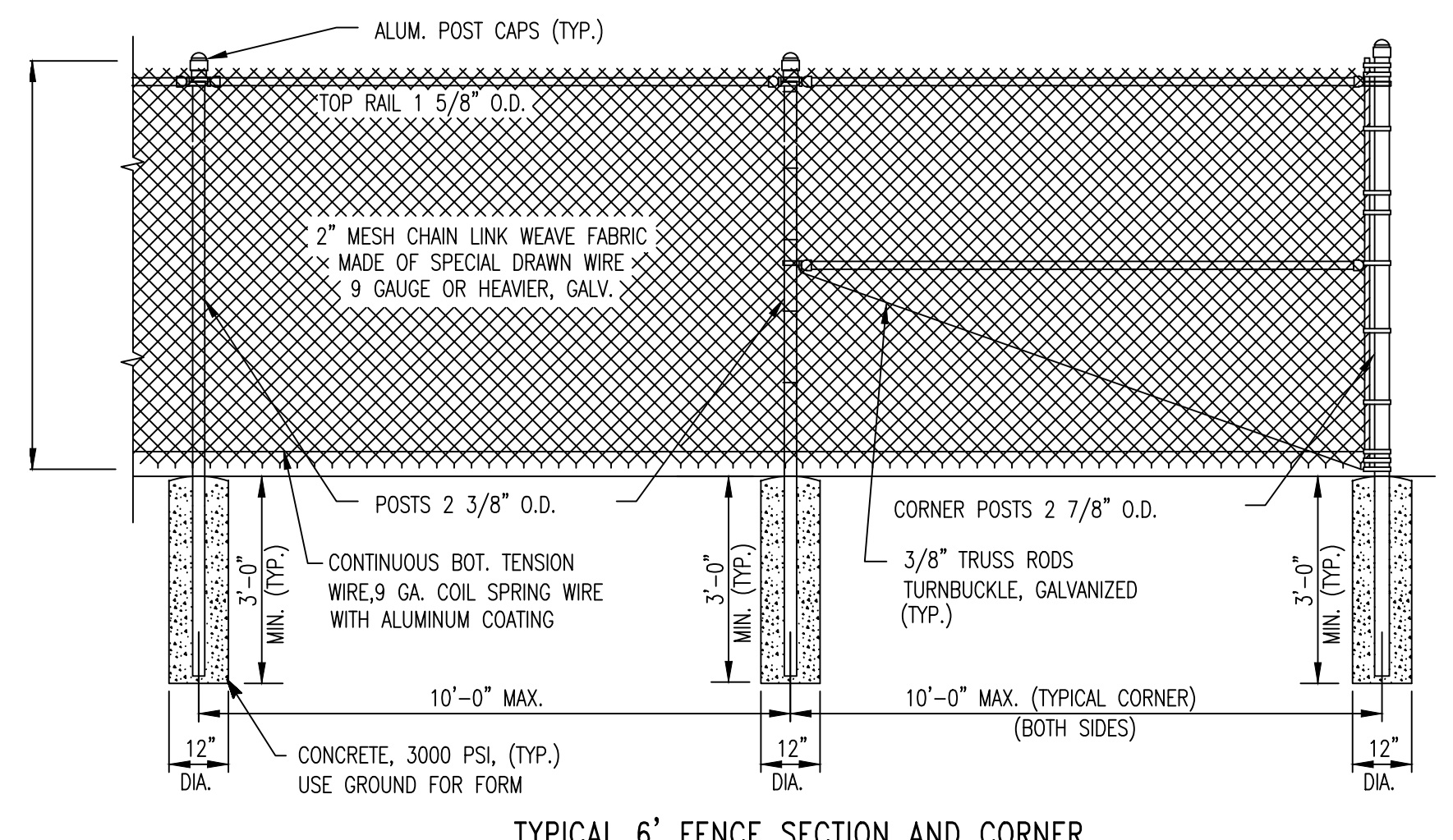
**PERFORATED PIPE DETAIL  
FOR UNDERDRAIN  
N.T.S.**



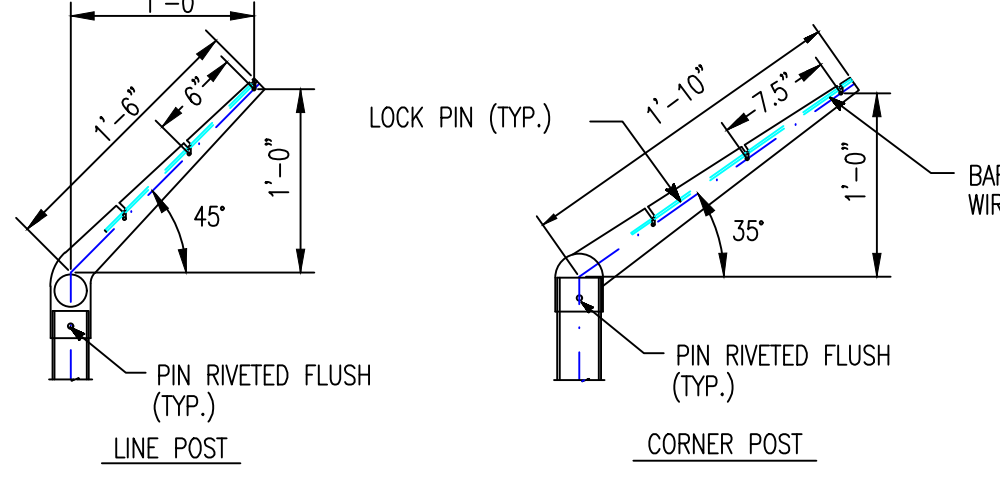
**TYPICAL 8' SECURITY  
FENCE SECTION AND CORNER  
N.T.S.**



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



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



**EXTENSION ARM DETAILS**

- REFERENCES:**
- H1C1120 TITLE SHEET AND DRAWING INDEX
  - H1C1124 GENERAL SITE DEVELOPMENT, CELL LAYOUT
  - H1C1125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
  - H1C1127 SECURITY ROAD LAYOUT AND GRADING PLAN
  - H1C1131 CELL NO. 2, SITE DEVELOPMENT, BASE GRADING PLAN
  - H1C1133 CELL NO. 3, SITE DEVELOPMENT, BASE GRADING PLAN
  - H1C1136 CELL NO. 2 SECTIONS THRU STACK
  - H1C1145 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 3

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Engineering and Construction Services  
FOR**

**Georgia Power Company**

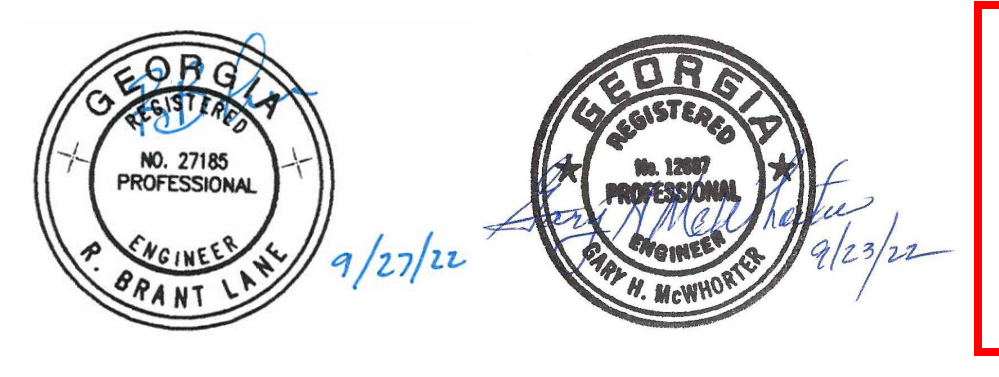
PLANT WANSLEY  
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY  
CELL NO. 1 THROUGH CELL NO. 3  
MISCELLANEOUS SECTIONS AND DETAILS  
SHEET 2

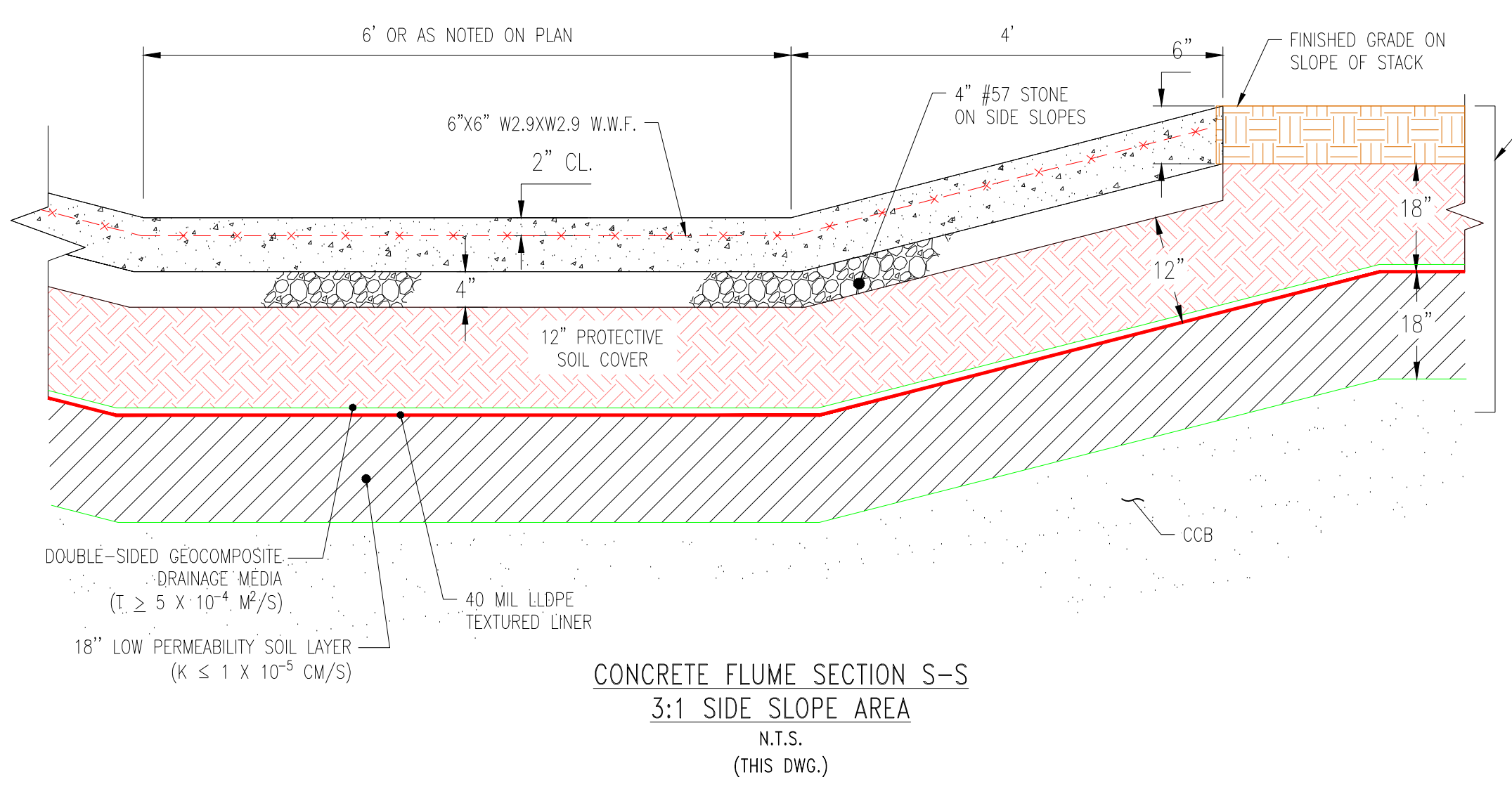
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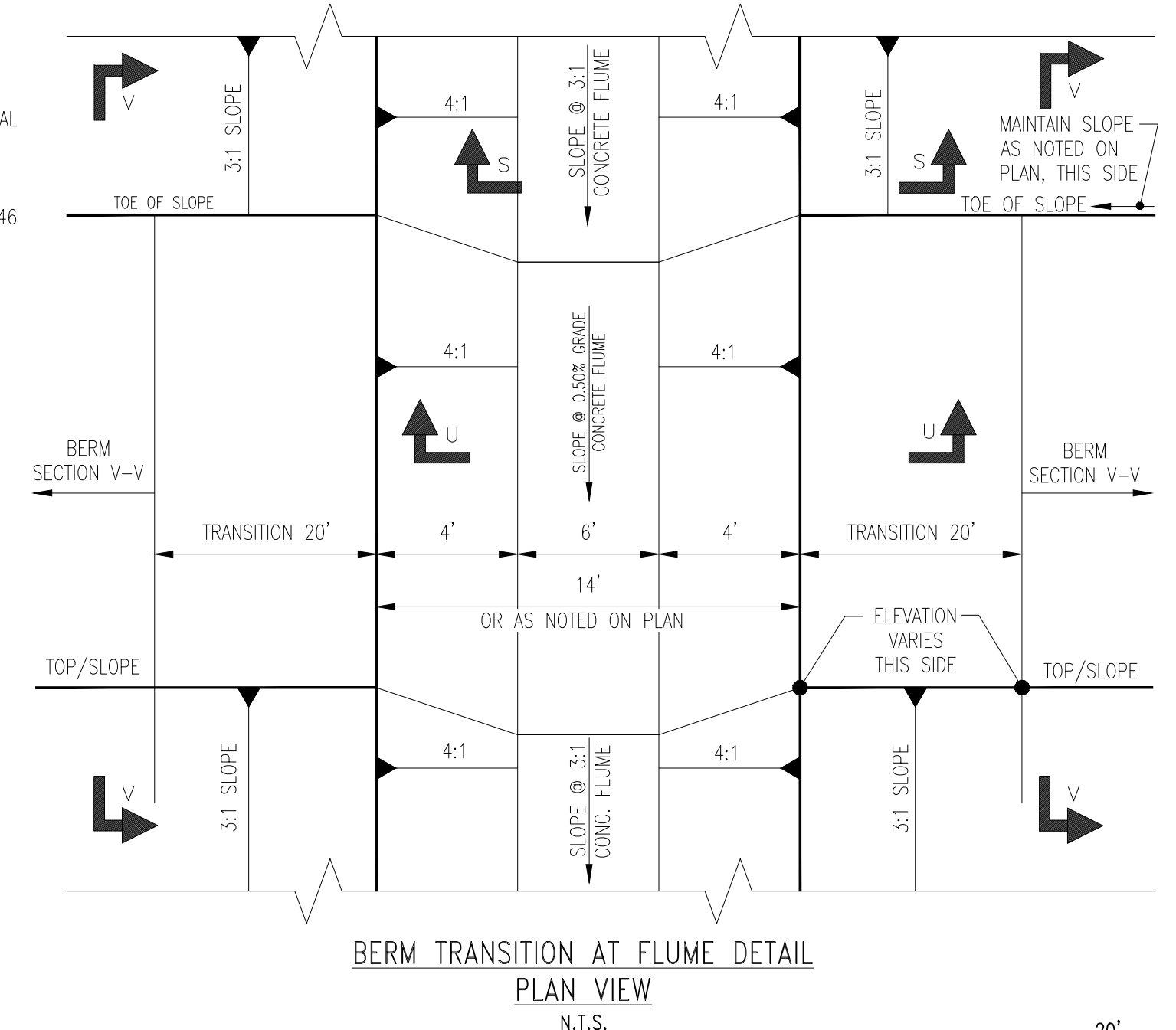
REVISION 0 DATE 09-23-2022  
CCR LF PERMIT APPLICATION [BY HHNT, INC.]

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
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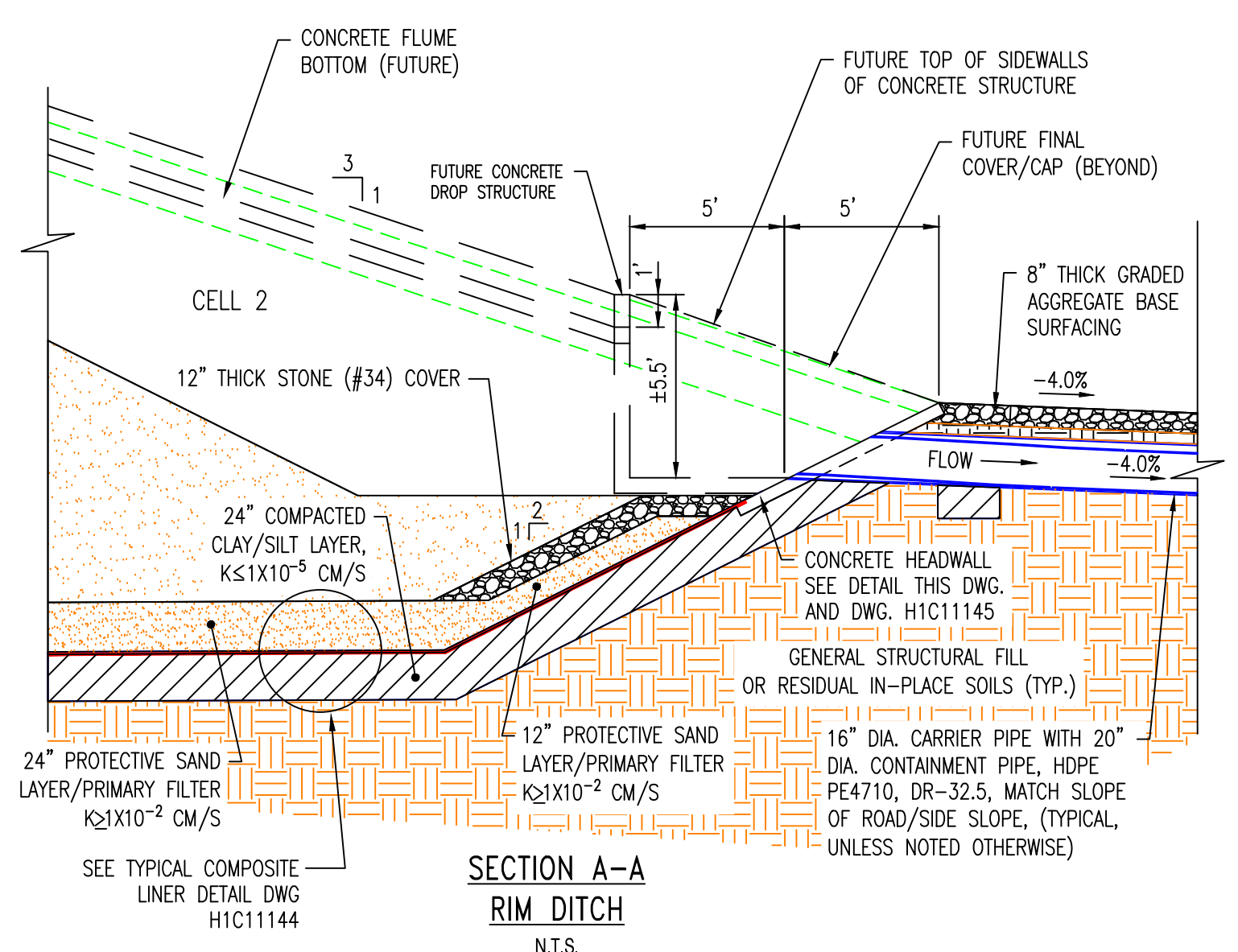




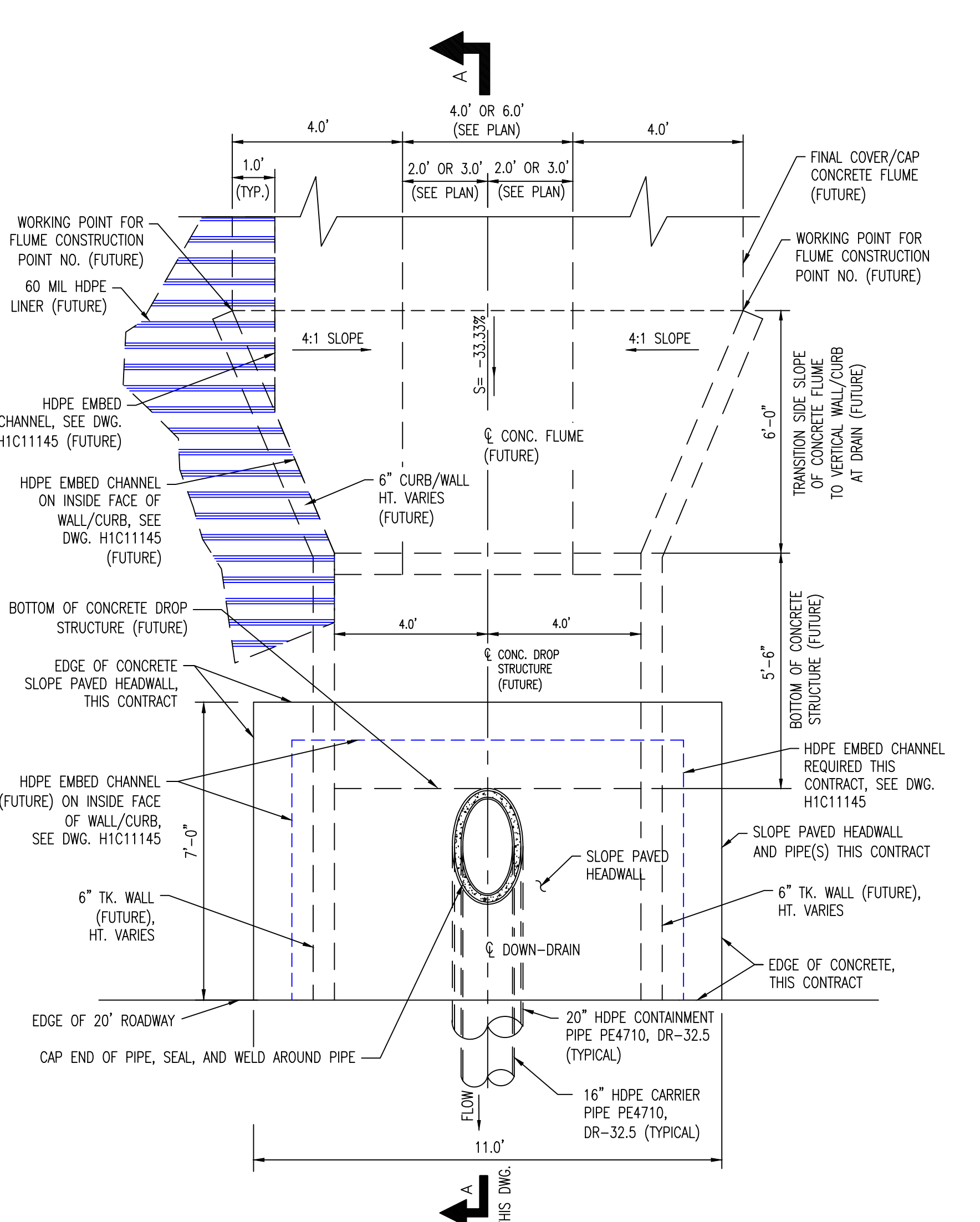
CONCRETE FLUME SECTION S-S  
3:1 SIDE SLOPE AREA  
N.T.S.  
(THIS DWG.)



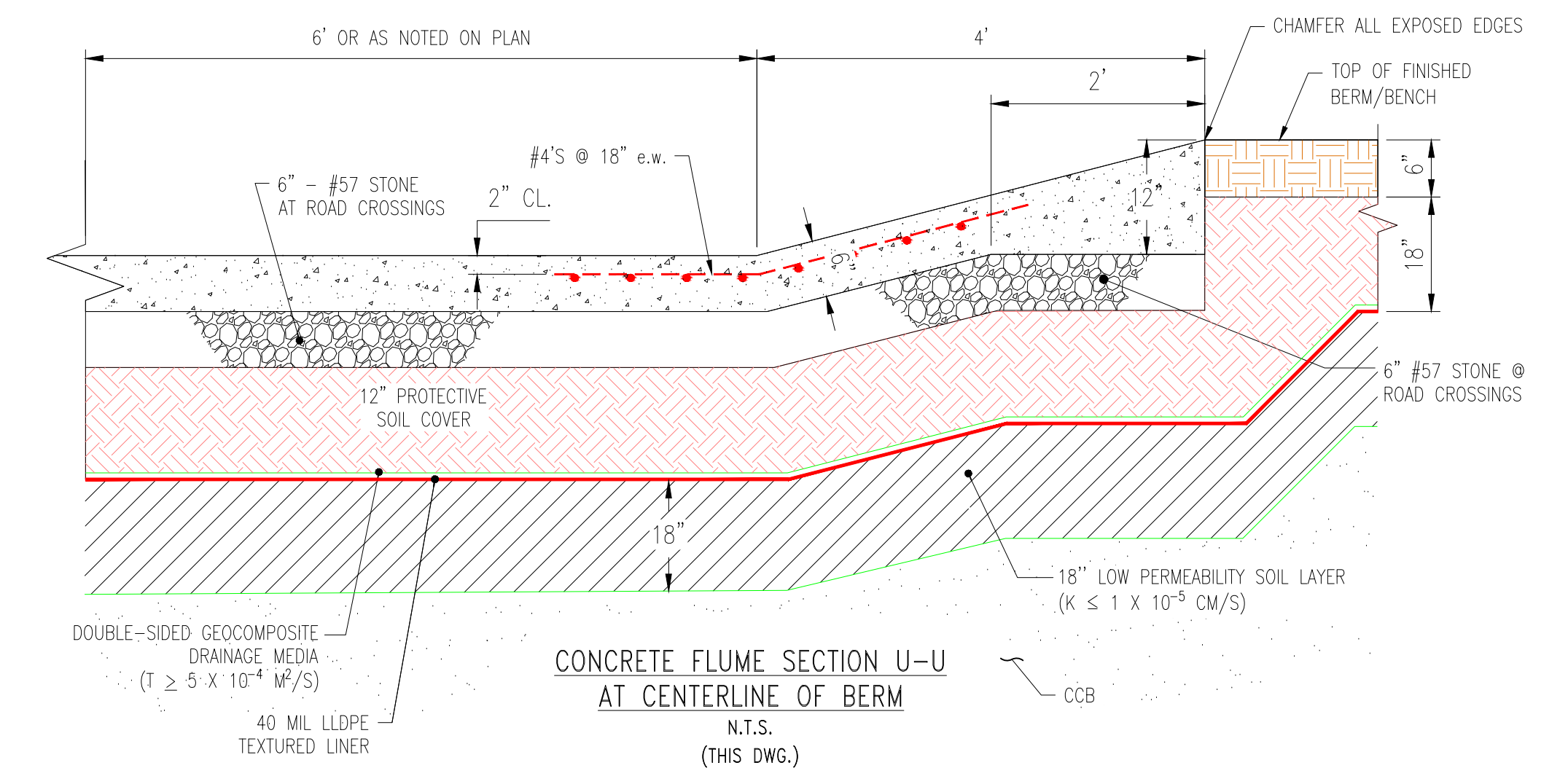
BERM TRANSITION AT FLUME DETAIL  
PLAN VIEW  
N.T.S.  
(HIC11132 & HIC11134)



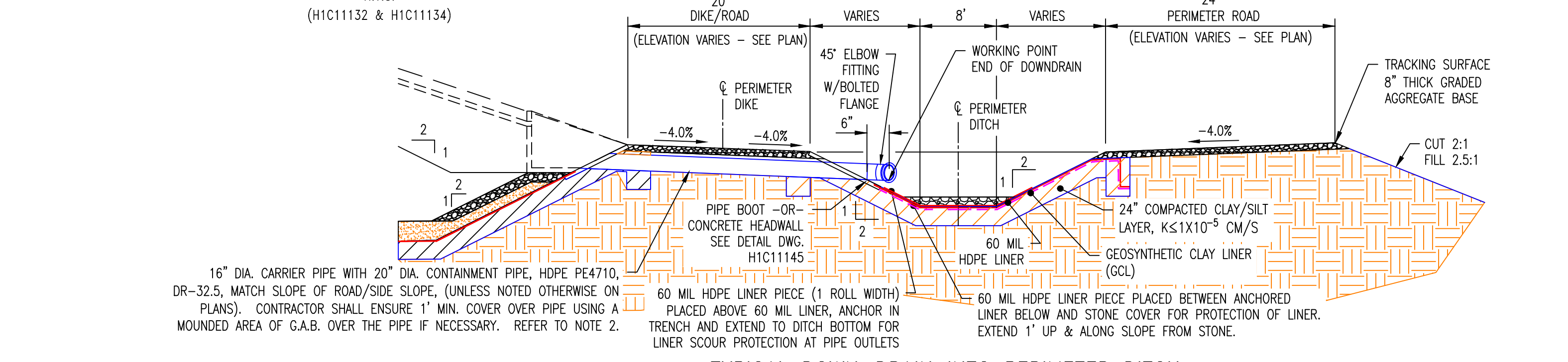
SECTION A-A  
RIM DITCH  
N.T.S.



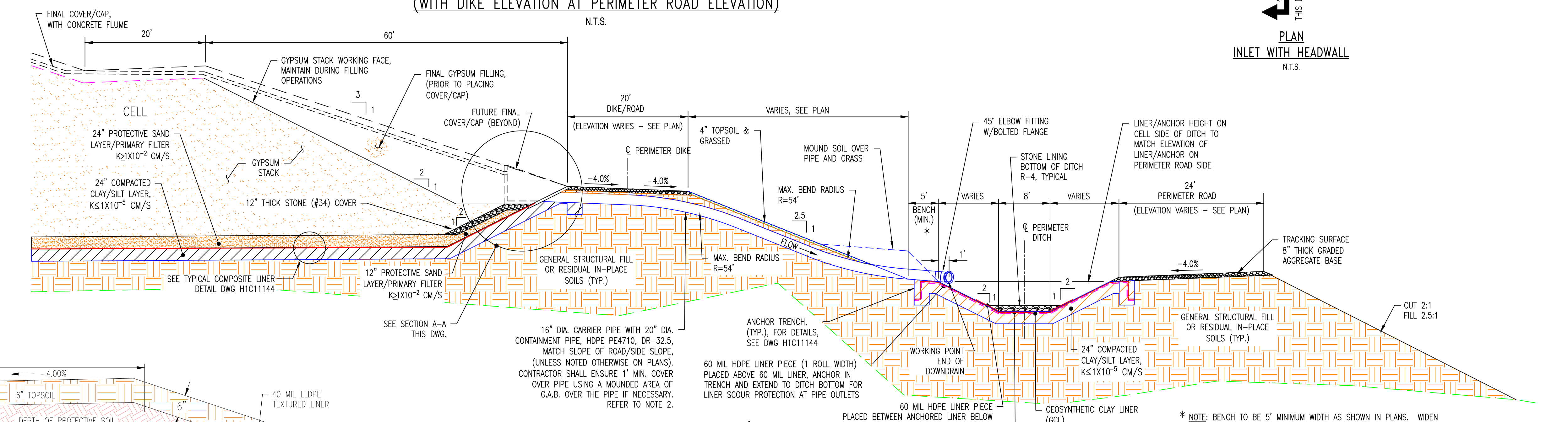
PLAN  
INLET WITH HEADWALL  
N.T.S.



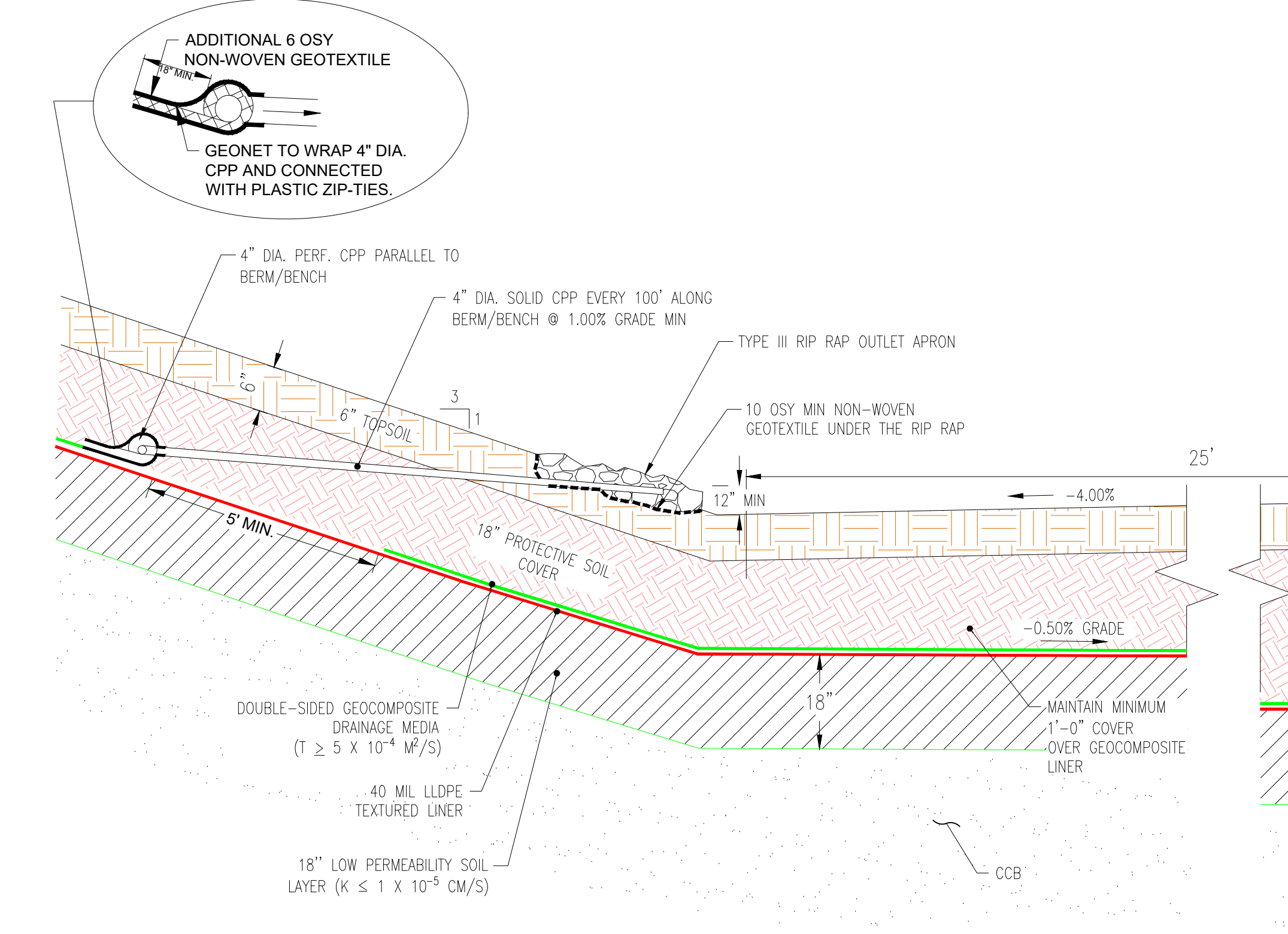
CONCRETE FLUME SECTION U-U  
AT CENTERLINE OF BERM  
N.T.S.  
(THIS DWG.)



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



TYPICAL DOWN-DRAIN INTO PERIMETER DITCH WITH 5' BENCH  
N.T.S.  
(HIC11125, HIC11131 & HIC11153)

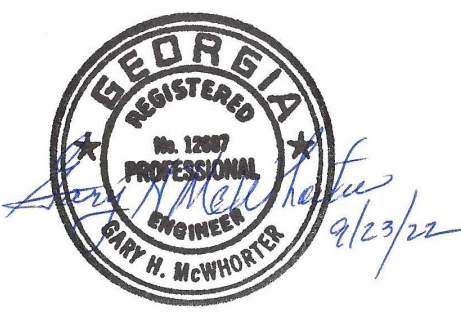


TYPICAL FINAL COVER SECTION V-V AT OUTLET  
LOCATIONS  
N.T.S.  
(THIS DWG.)

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

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

- REFERENCES:
- HIC11120 TITLE SHEET AND DRAWING INDEX
  - HIC11132 CELL NO. 1 & 2 COMBINED FINAL STACKING PLAN
  - HIC11134 CELL NO. 3 FINAL STACKING PLAN
  - HIC11144 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SHEET 2
  - HIC11146 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 1
  - HIC11152 FLUME DATA SHEET



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

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

**Georgia Power Company**

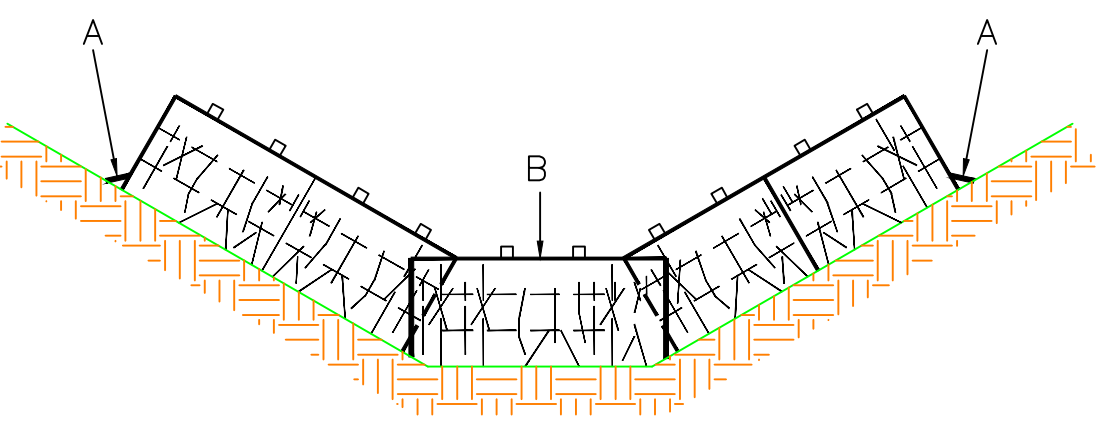
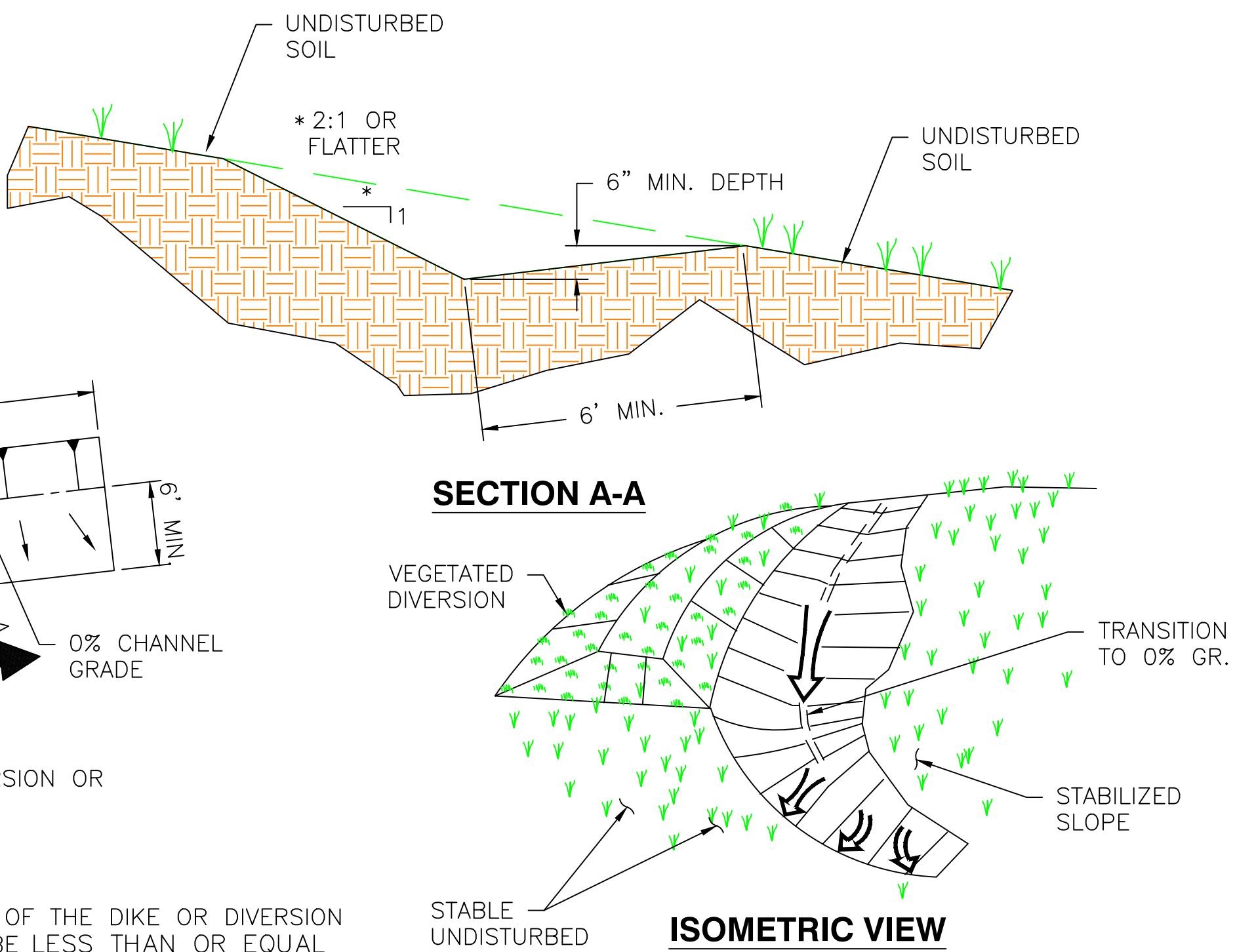
PLANT WANSLEY  
COAL COMBUSTION RESIDUALS (CCR) LANDFILL  
CELL NO. 1 THROUGH CELL NO. 3  
MISCELLANEOUS SECTIONS AND DETAILS  
SHEET 3

REVISION	0	DATE	09-23-2022
REVISION		DATE	

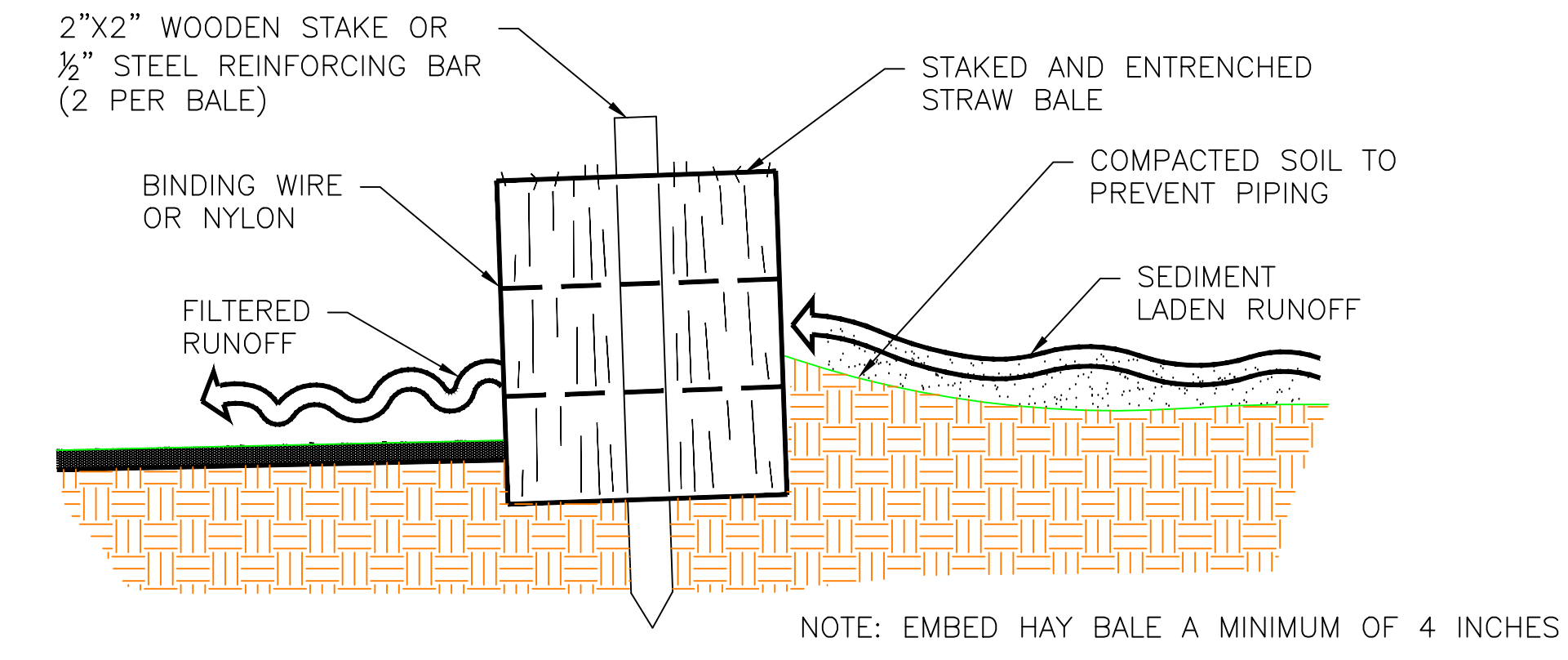
CCR LF PERMIT APPLICATION [BY HHNT, INC.]

SCALE	N.T.S.	DRAWING NUMBER	HIC11148	SHEET	1	CONT'D		REV	
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DESIGNED Q10/24 (cfs)	MINIMUM LENGTH "L" (FEET)
UP TO 10	10
11 TO 20	20
21 TO 30	30
31 TO 40	40
41 TO 50	50

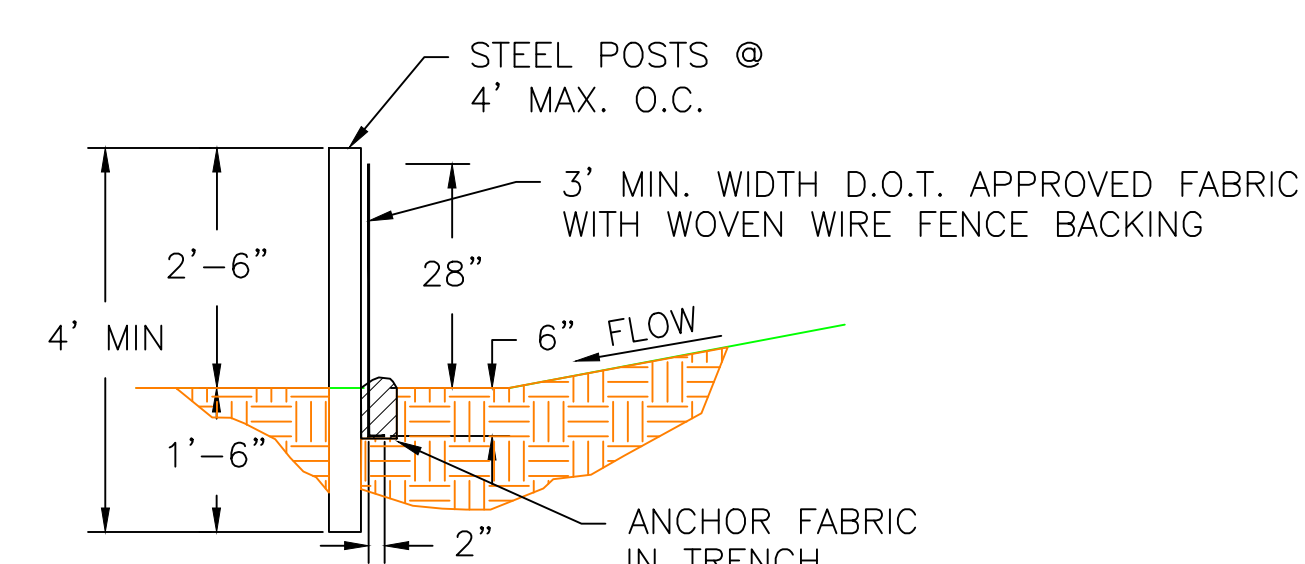


- NOTES:**
- POINTS "A" SHOULD BE HIGHER THAN POINT "B".
  - EMBED HAY BALES A MINIMUM OF 4 INCHES.
  - HAY BALES ARE TO BE BOUND WITH WIRE OR NYLON.
  - EACH BALE SHALL BE CONSTRAINED BY TWO 2"x2" WOODEN STAKES OR TWO 1/2" Ø STEEL REINFORCING BARS EMBEDDED 2 FT. IN THE GROUND.
  - HAY BALE CHECK DAMS SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED.
  - SEDIMENT BEHIND CHECK DAM SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE-HALF THE ORIGINAL DEPTH OF CHECK DAM OR BEFORE.



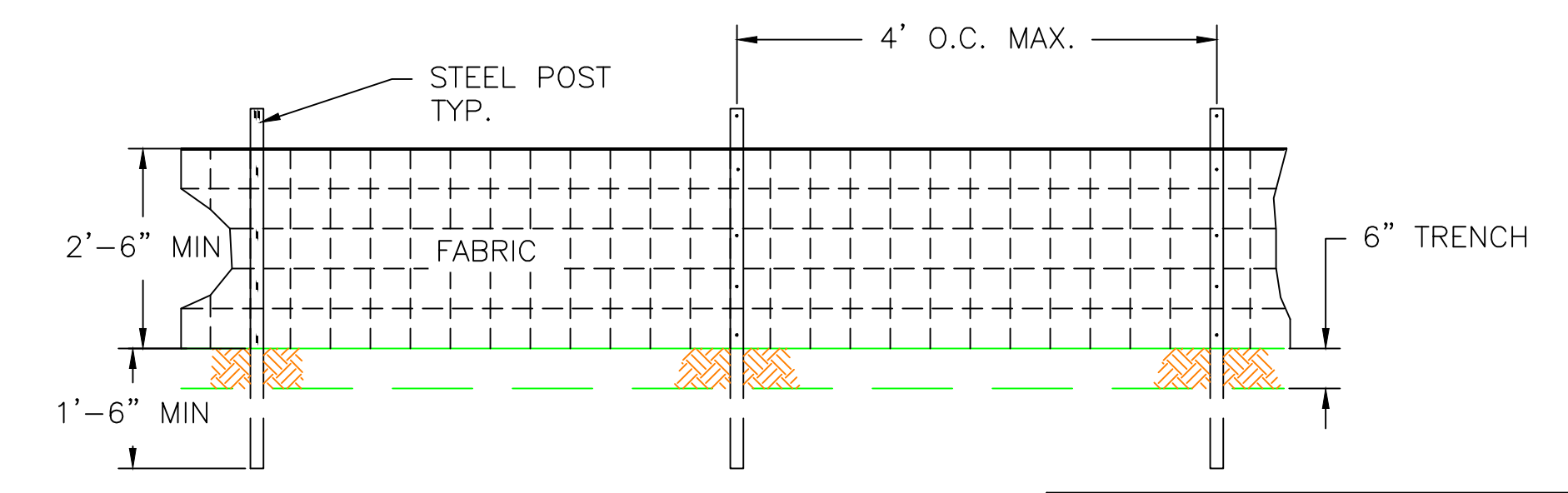
**CROSS SECTION OF INSTALLED HAY BALE**  
N.T.S. (Sd1-Hb)

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

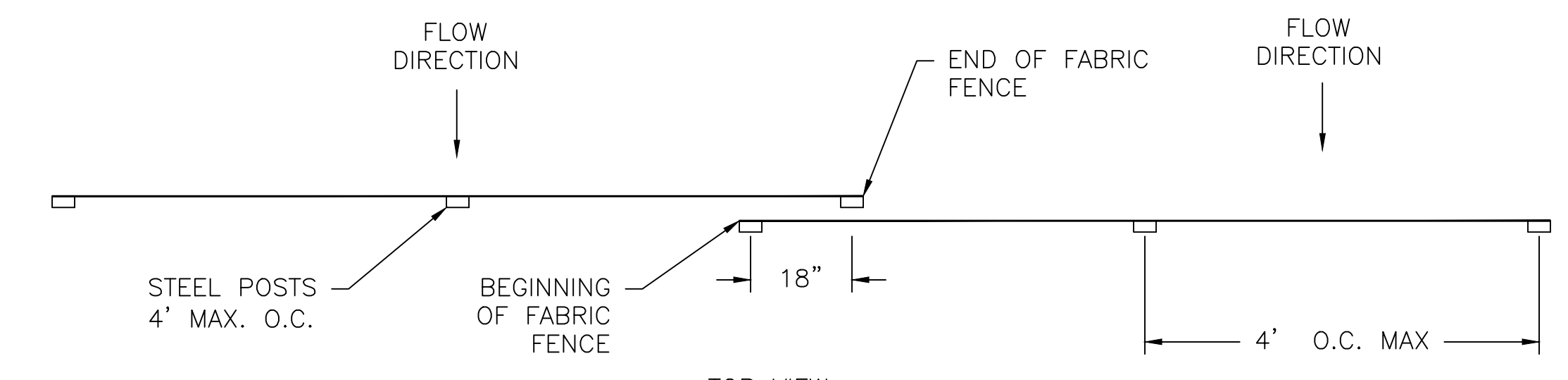


- NOTE:** THE SILT FENCE SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE FABRIC

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

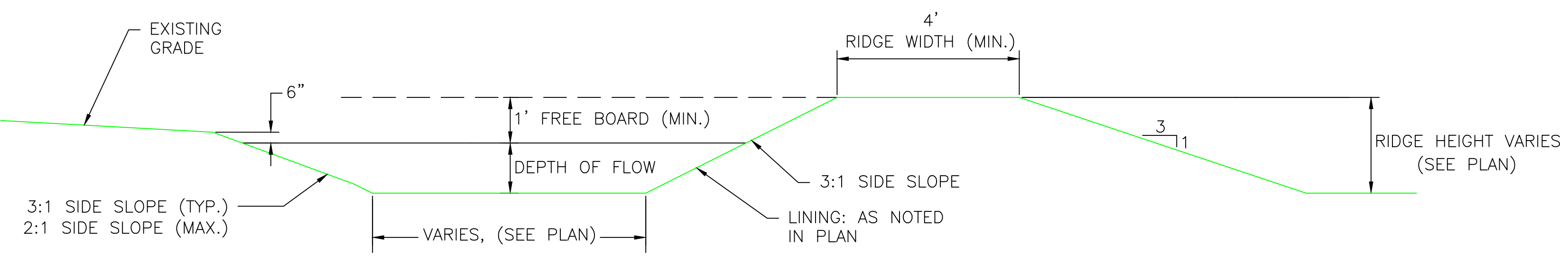


**TYPICAL SILT FENCE FRONT VIEW**  
SCALE: 1"=2' (Sd1-C)



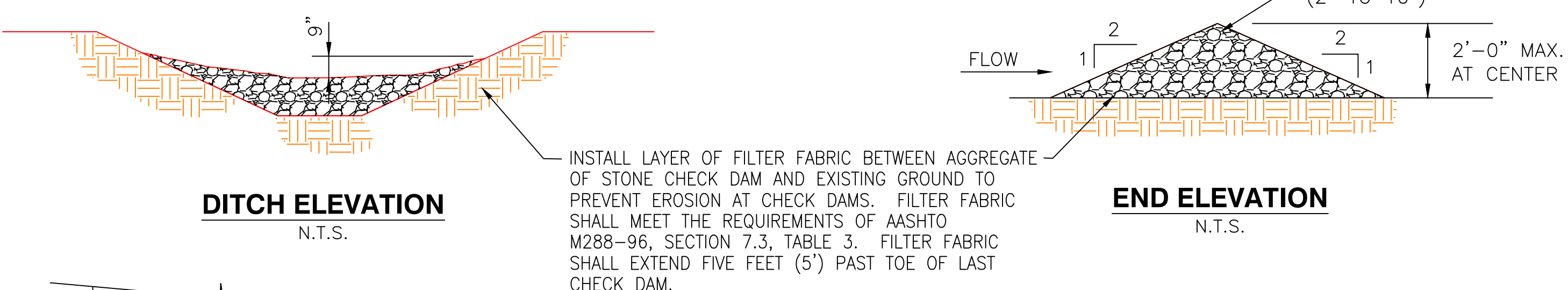
**TYPICAL SILT FENCE TYPE C OVERLAP DETAIL**  
N.T.S. (Sd1-C)

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

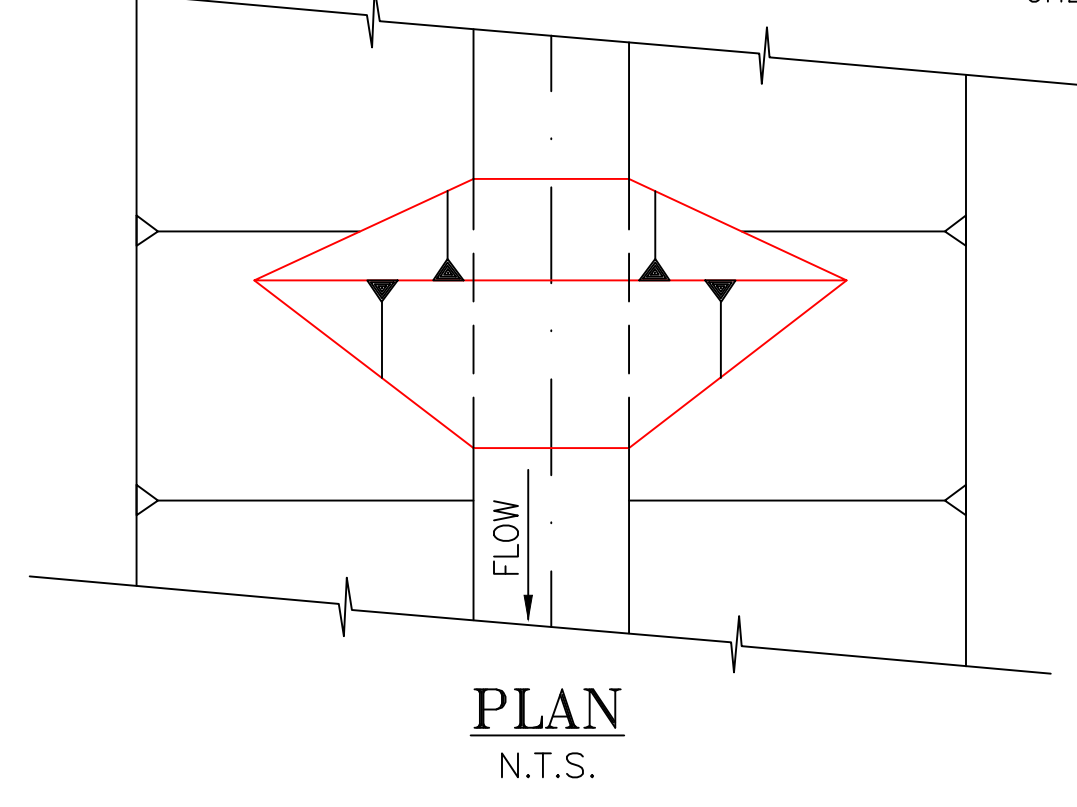


- NOTES:**
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIVERSION.
  - THE DIVERSION SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA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

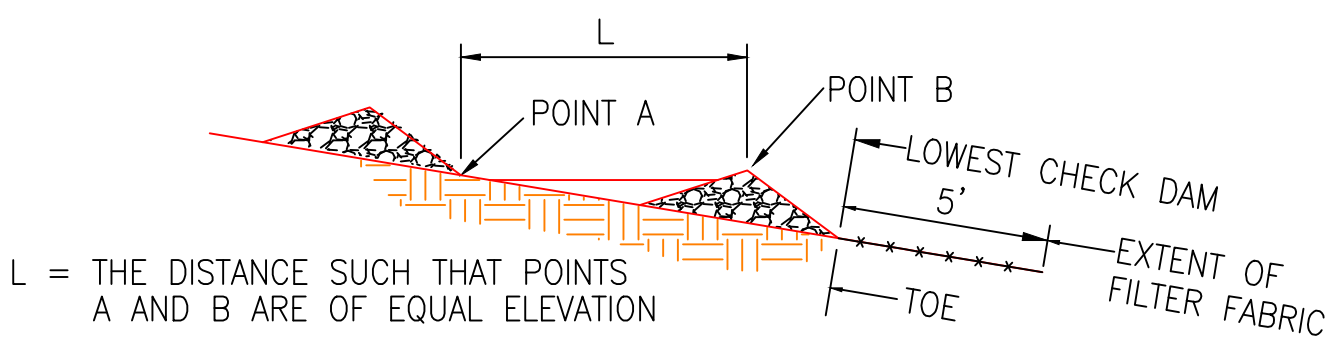
**DIVERSION DETAIL (EXCAVATION PHASE)**  
N.T.S. (Di)



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.



**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**  
N.T.S. (Cd-S)

**EROSION CONTROL NOTES:**

- 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.
- 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.
- 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.
- 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.
- 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-DEGRADABLE "POLYMER NET" EROSION CONTROL MATTING. MATTING SHALL BE LISTED IN THE GEORGIA DOT QUALIFIED PRODUCTS LIST (QPL#49).
- 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).
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE EROSION CONTROL MEASURES DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, IT WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

**REFERENCES:**

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



**SILT FENCE/HAY BALE BARRIER NOTES:**

- 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.
- ADDITIONAL SILT FENCE (OR HAY BALES) SHALL BE REQUIRED IN AREAS WHICH ARE CLEARED OR GRADED AND DO NOT HAVE STORMWATER RUNOFF DIVERTED TO SEDIMENT BASINS MEETING THE CRITERIA LISTED IN THE TABLES BELOW. THE DRAINAGE AREA SHALL NOT EXCEED 1/4 ACRE FOR EVERY 100 FEET OF SILT FENCE.

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

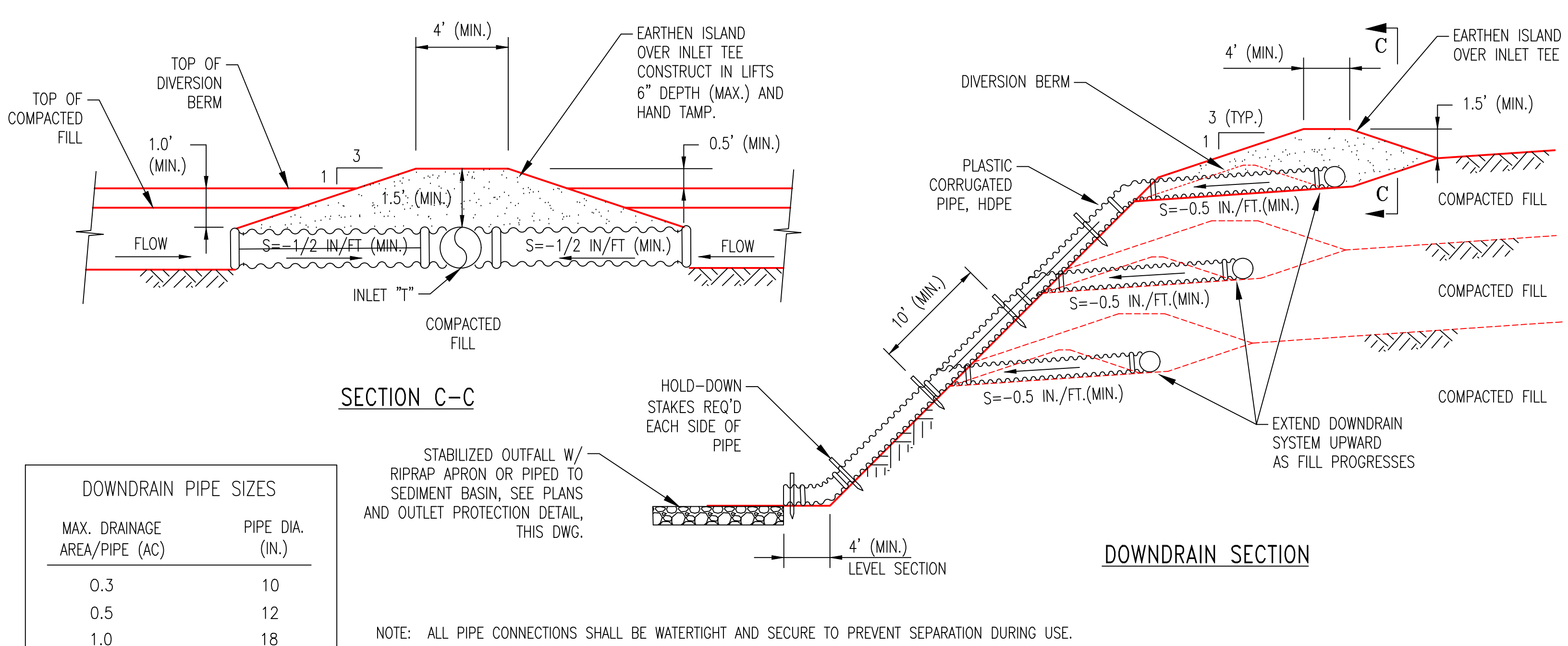
CRITERIA FOR HAY BALE PLACEMENT	
LAND SLOPE (PERCENT)	MAXIMUM LENGTH OF SLOPE ABOVE FENCE (FEET)
<2	75
2 TO 5	50
5 TO 10	35
10 TO 20	20
>20	10

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

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

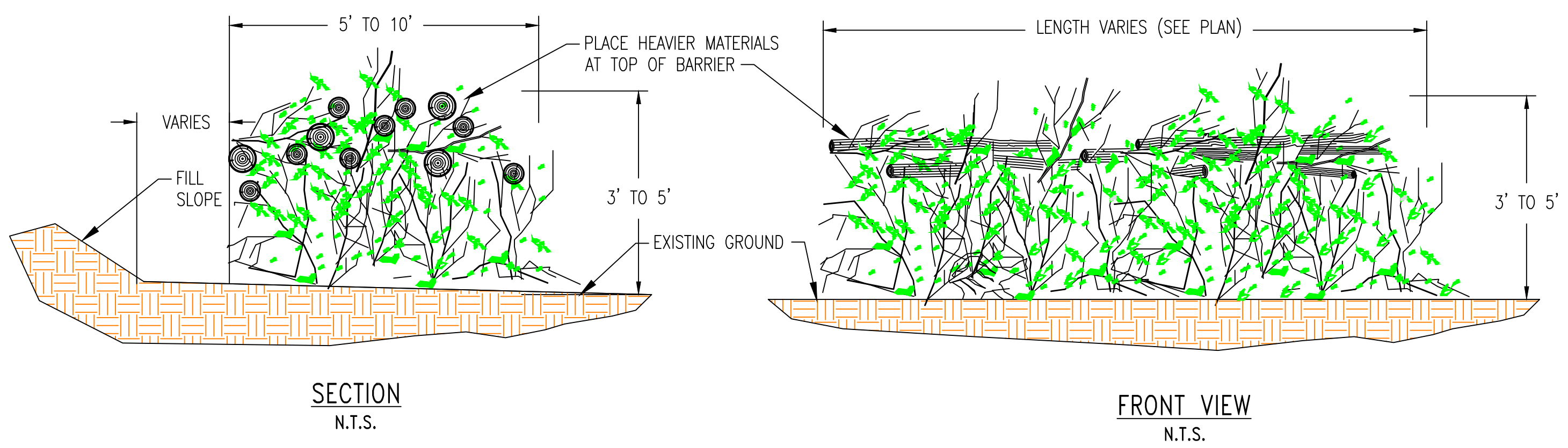
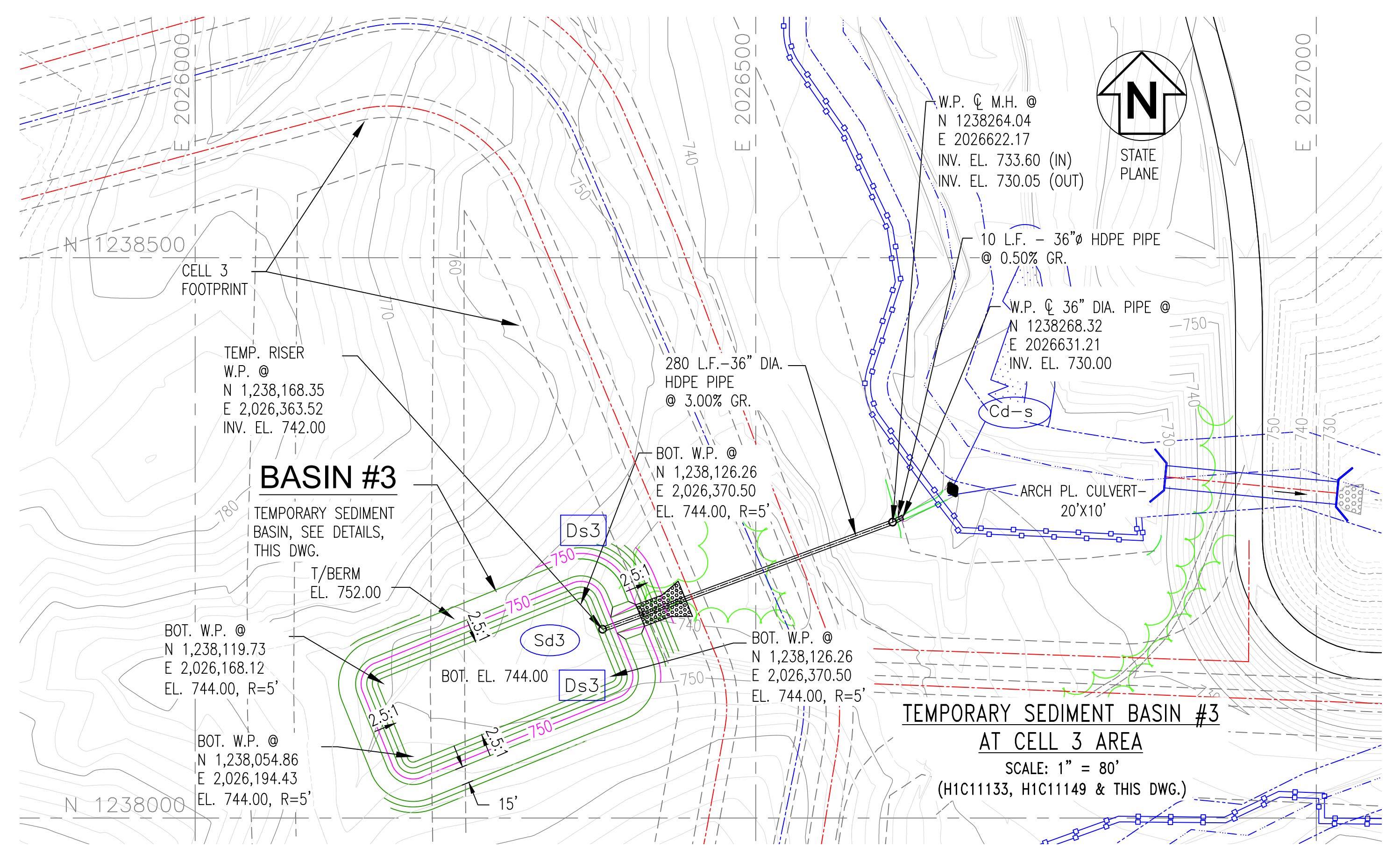
REVISION	0	DATE	09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]			
BY	CHK'D	CIVIL APPR	ELECT APPR
ANR	RBL		
SCALE	PROJ ID.	DRAWING NUMBER	SHEET CONTD. REV.
AS NOTED	010209	H1C11149	1 FINAL 0



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

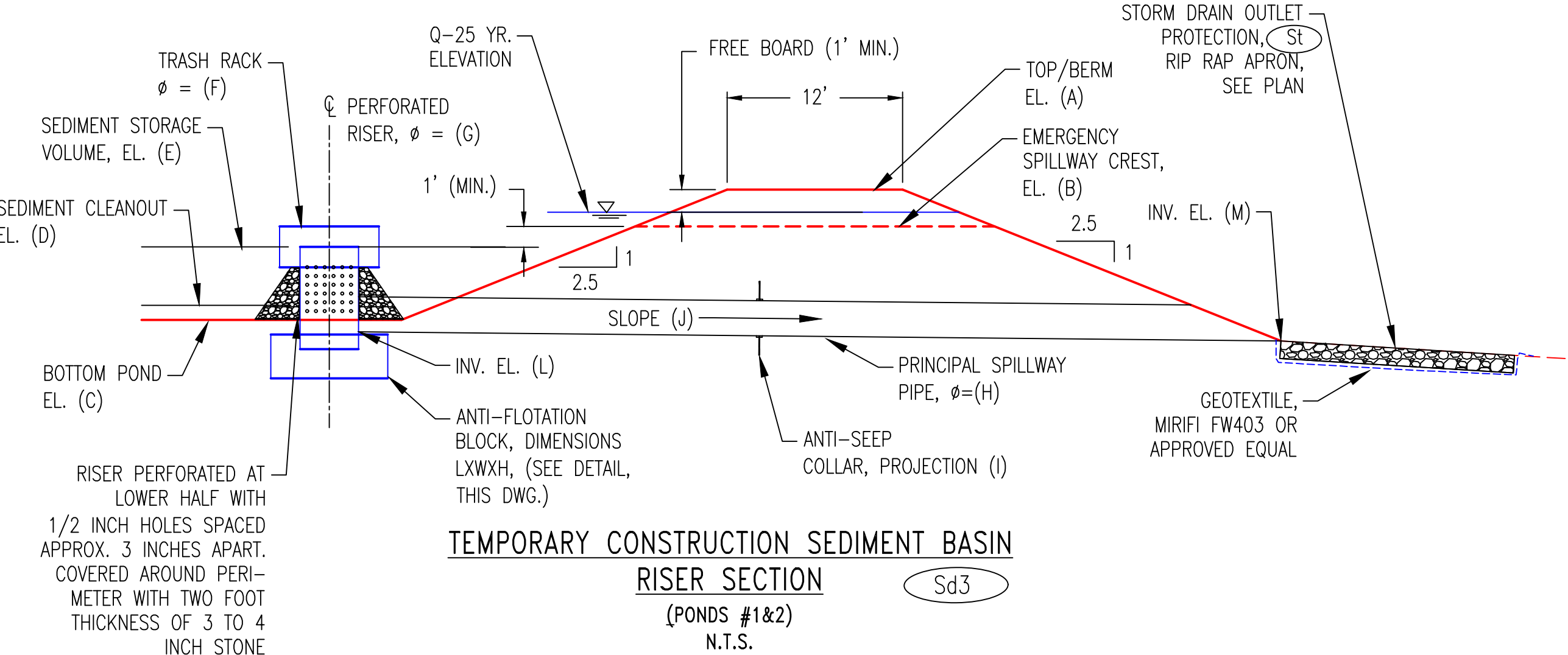
STABILIZED OUTFALL W/ RIPRAP APRON OR PIPED TO SEDIMENT BASIN, SEE PLANS AND OUTLET PROTECTION DETAIL, THIS DWG.

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



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.

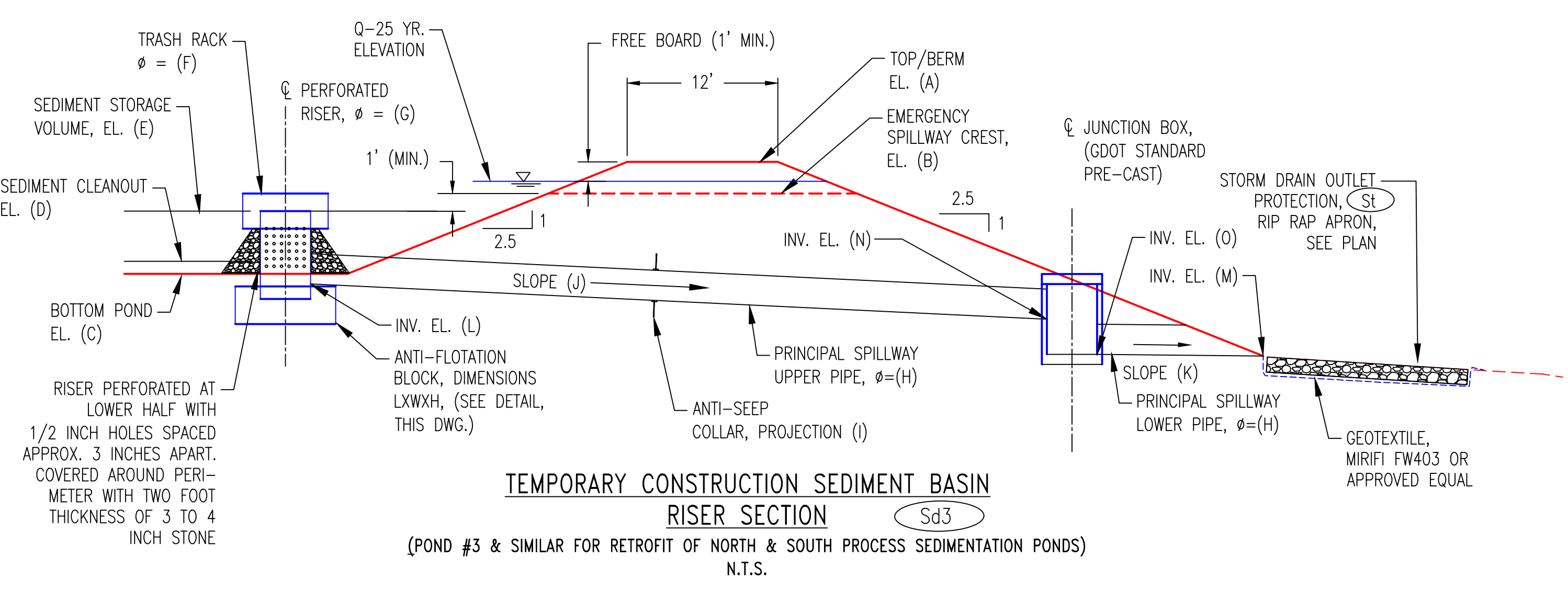


NOTE: ENTRANCE SHALL BE INSTALLED AND MAINTAINED SUCH THAT TRACKING OF MUD ONTO THE PLANT/PUBLIC ROAD SHALL BE PREVENTED

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

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

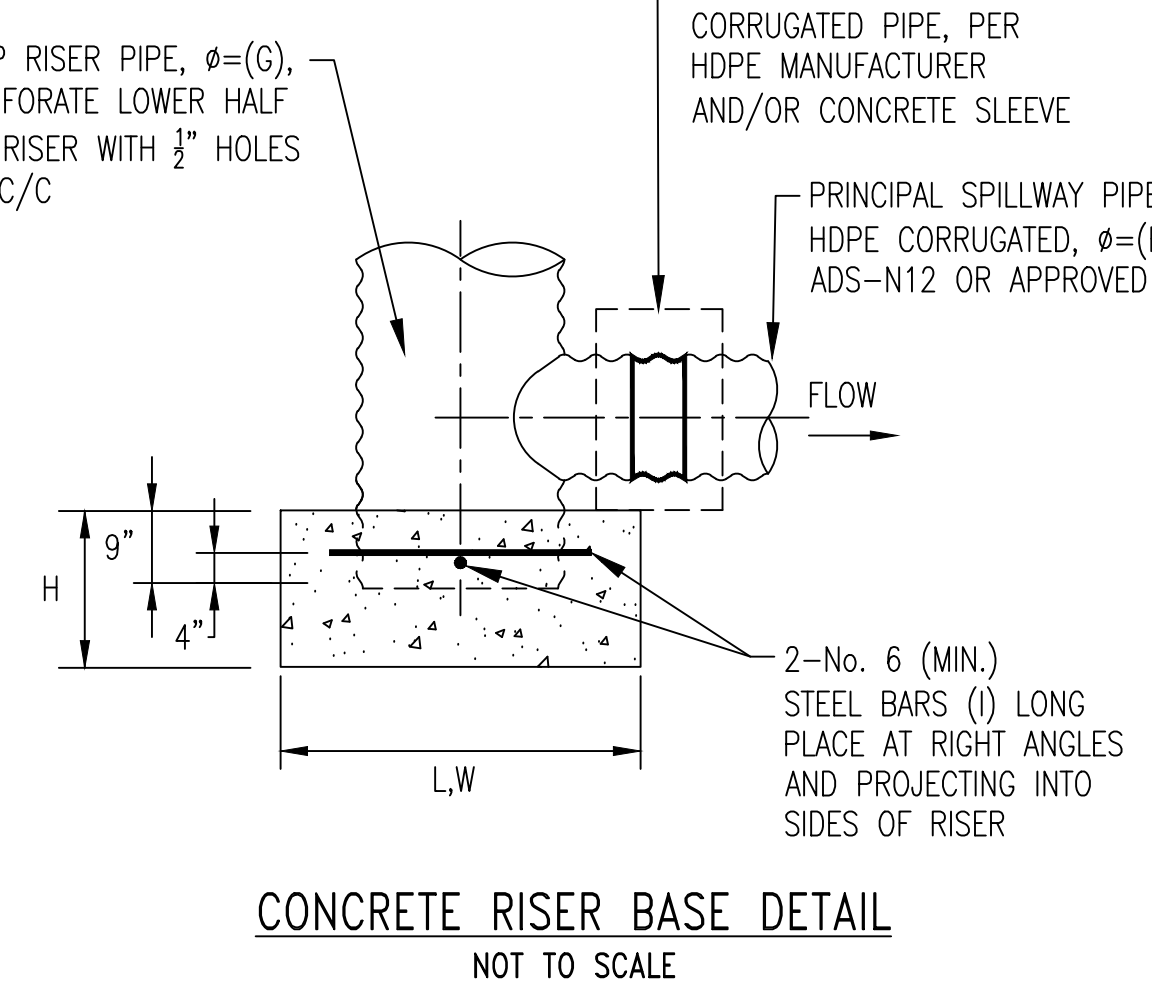
GRAVEL CONSTRUCTION ENTRANCE/EXIT N.T.S.



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	736.00	736.00	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.



REFERENCES:  
 HIC11120 TITLE SHEET AND DRAWING INDEX  
 HIC11125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN  
 HIC11127 SECURITY ROAD LAYOUT AND GRADING PLAN  
 HIC11126 CELL NO. 2, ROUGH SITE GRADING PLAN  
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 HIC11131 CELL NO. 2, SITE DEVELOPMENT, BASE GRADING PLAN  
 HIC11132 CELL NO. 2, FINAL STACKING PLAN  
 HIC11133 CELL NO. 3, SITE DEVELOPMENT, BASE GRADING PLAN  
 HIC11134 CELL NO. 3, FINAL STACKING PLAN  
 HIC11145 CELL NO. 3, MISCELLANEOUS SECTIONS, SHEET 3



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

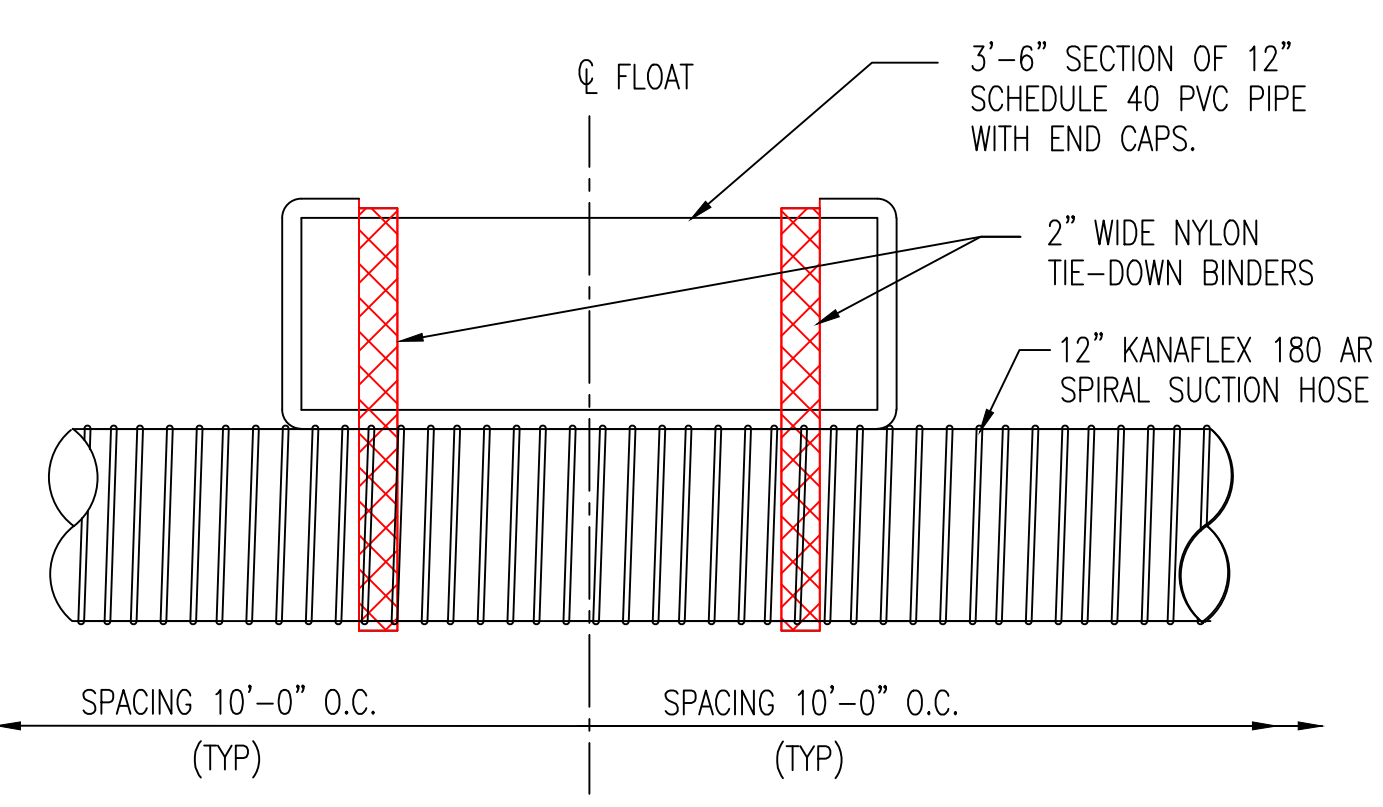
**Georgia Power Company**

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

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

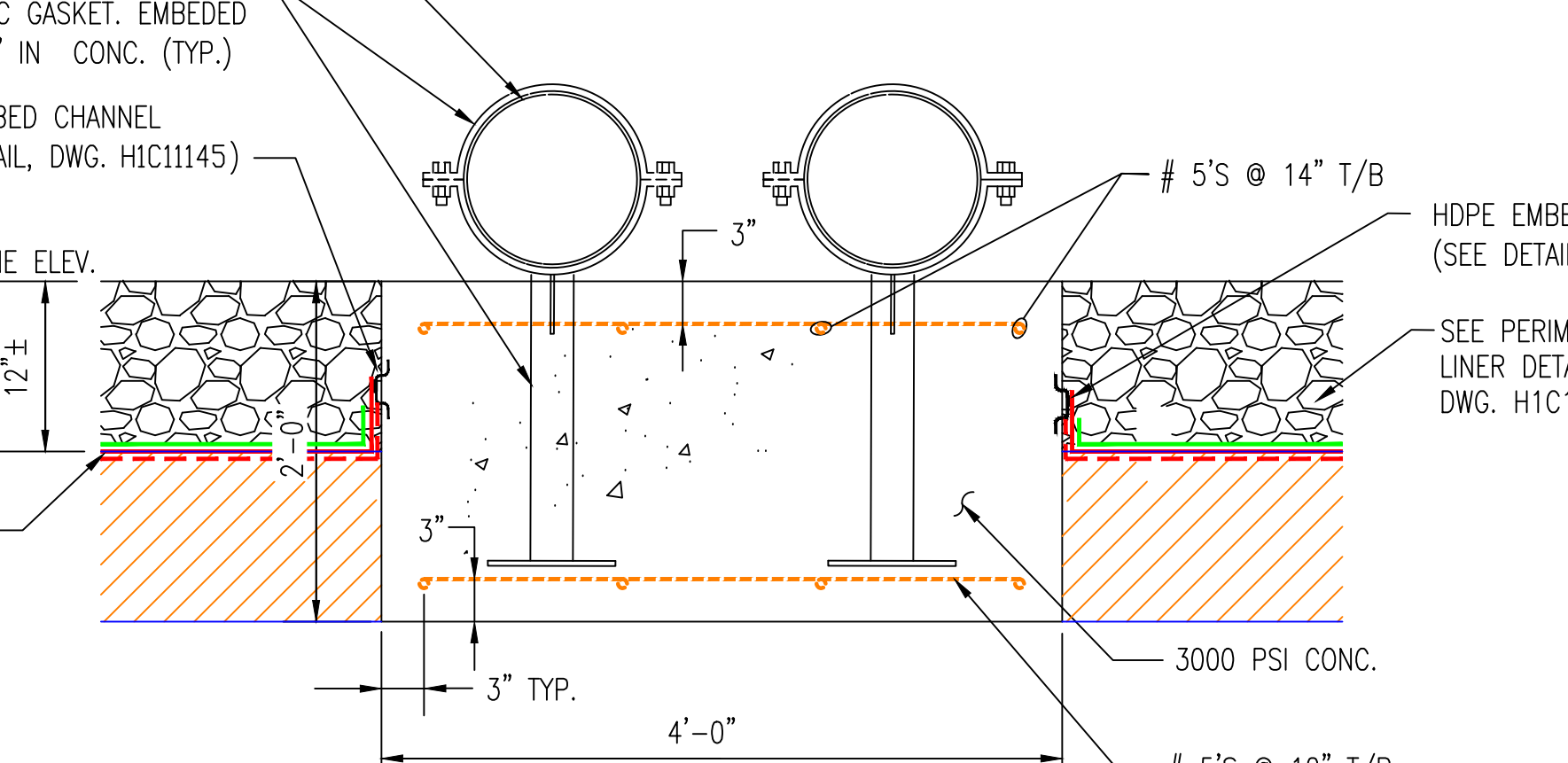
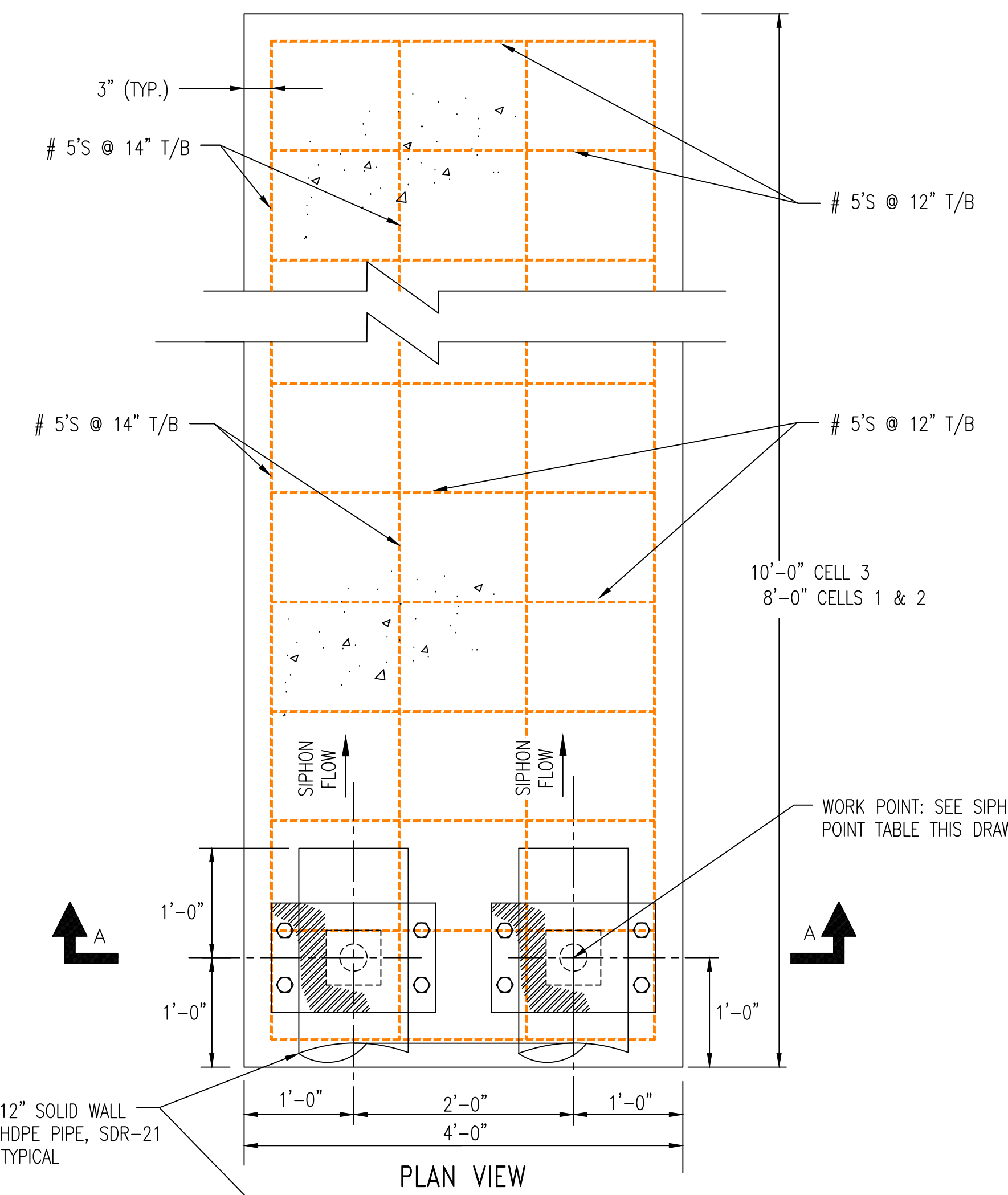
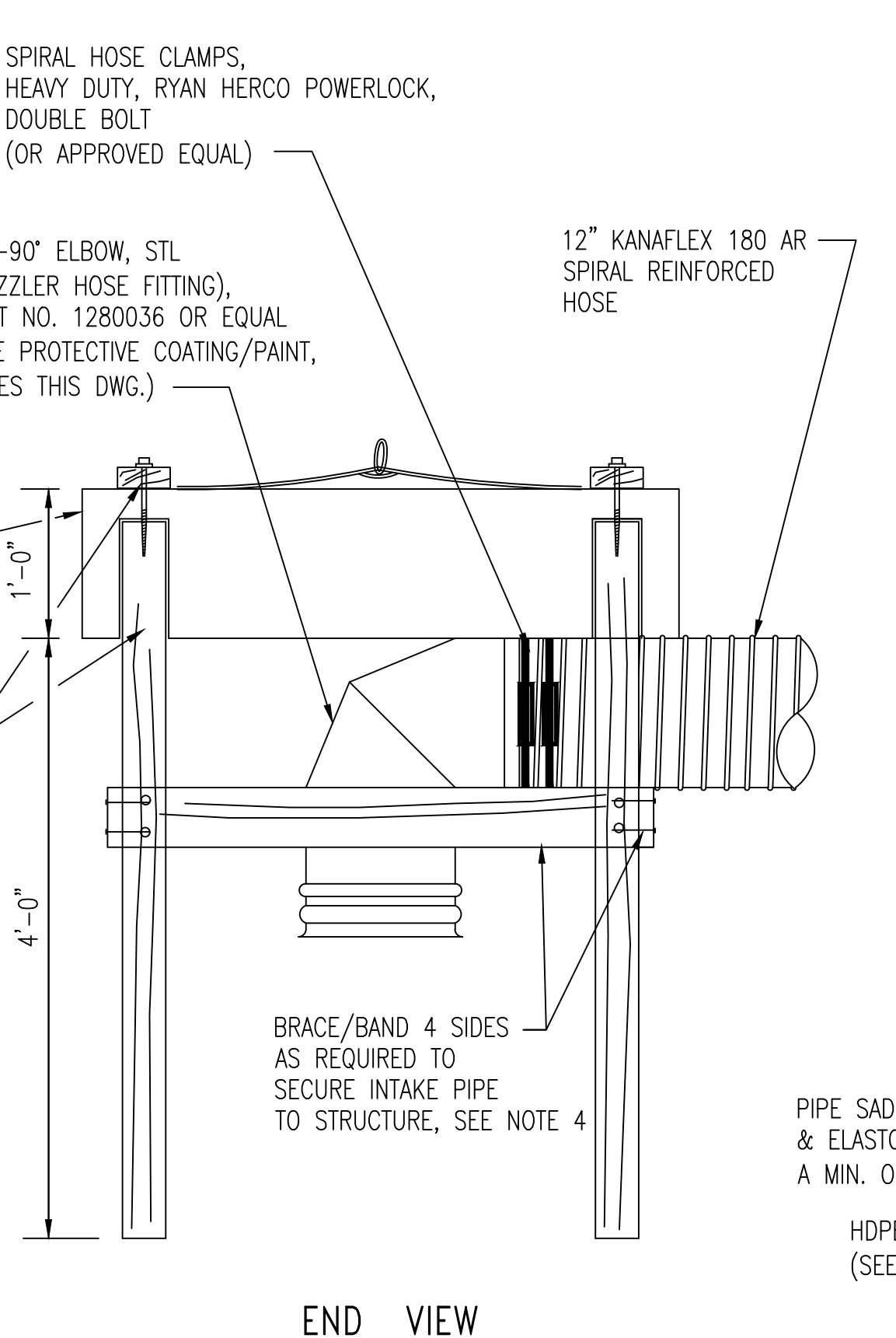
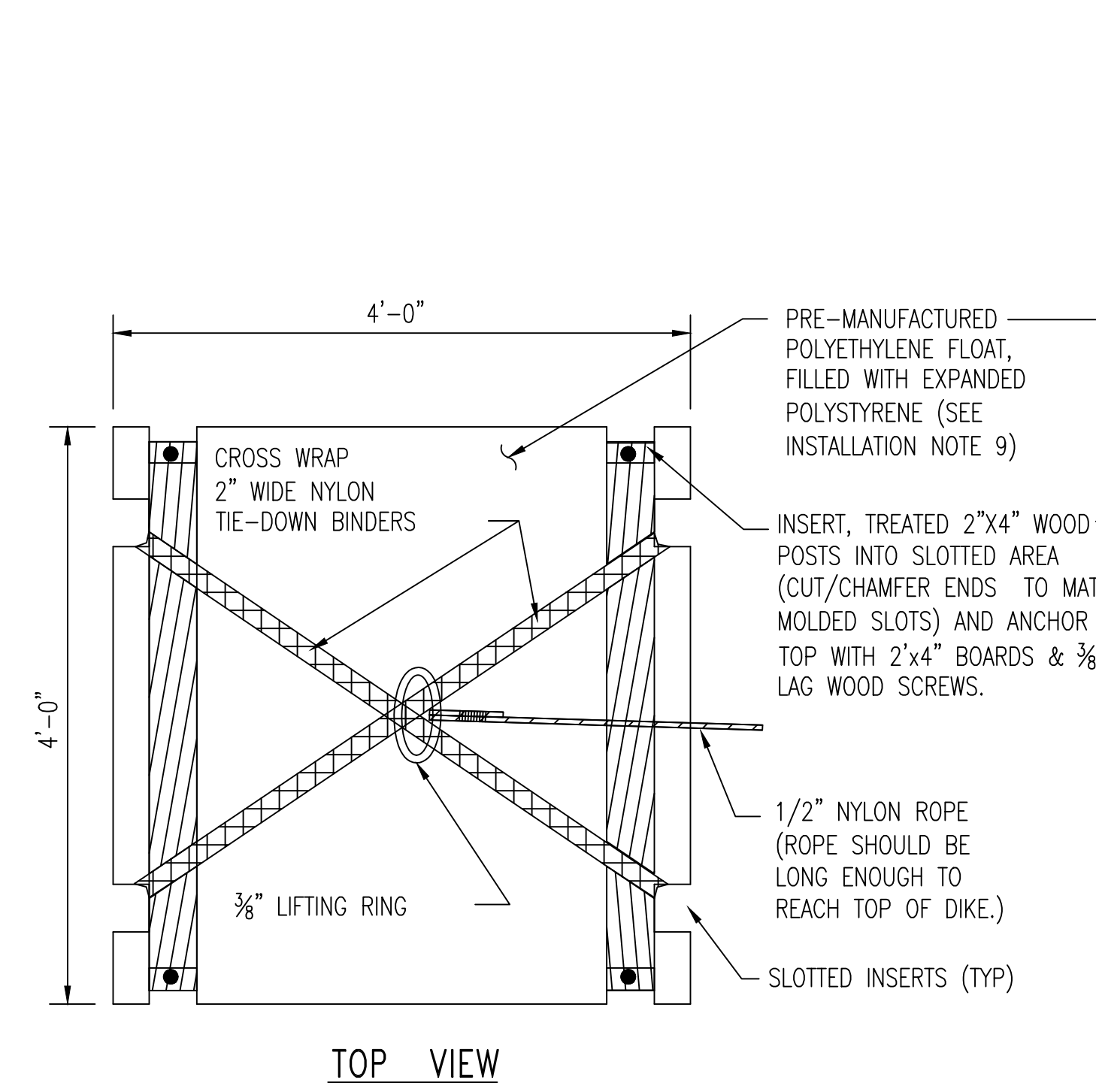
BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

SCALE AS NOTED DRAWING NUMBER HIC11150 SHEET 1 CONT'D 0



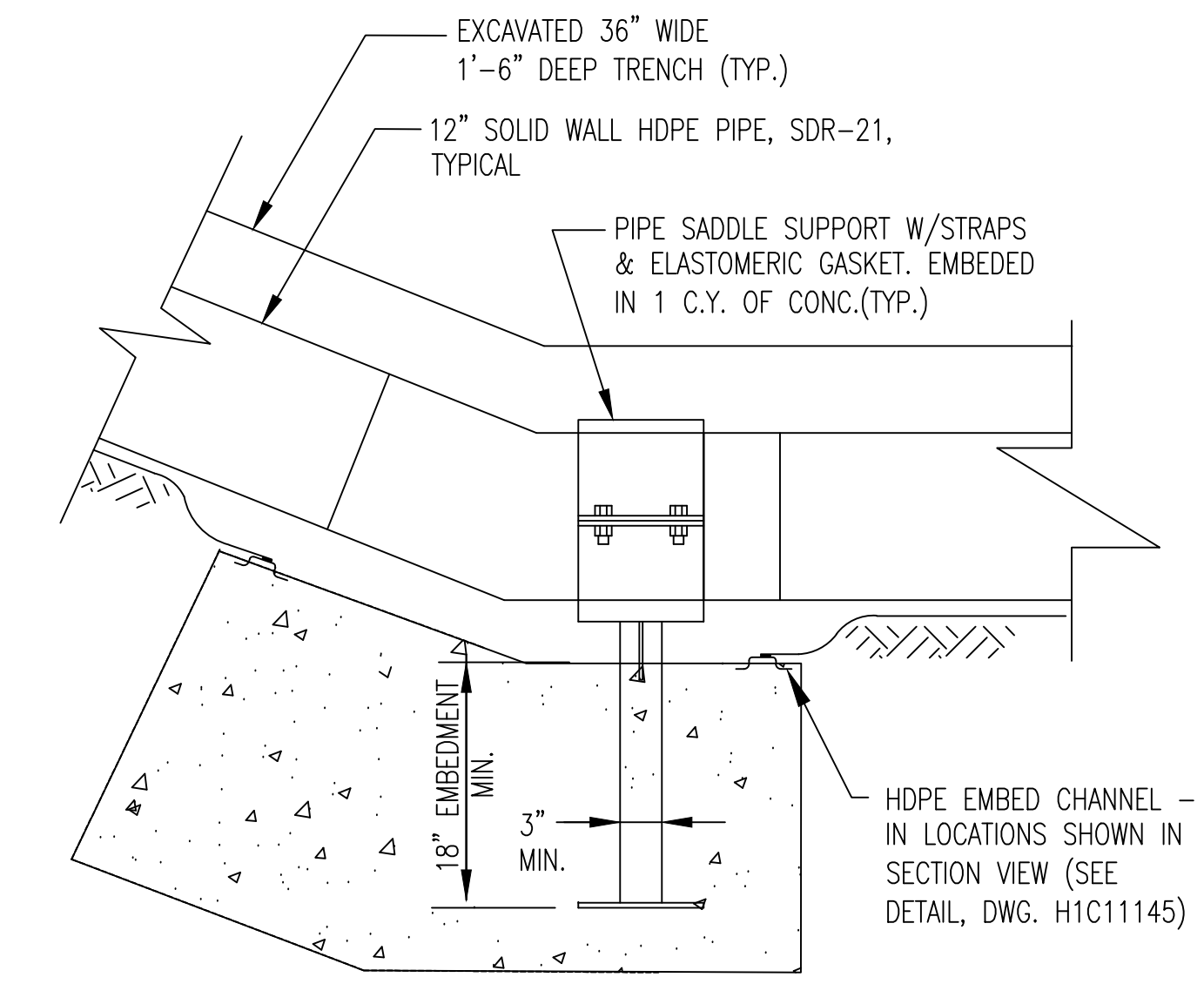
**SIPHON WORK POINT TABLE**

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



**METAL AND CONCRETE SURFACE COATINGS/PAINT:**

- 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.
- 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 ACROLOX 218 HS ACRYLIC POLYURETHANE, POLYURETHANE ENAMEL AT 2 MILS DFT
- 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.
- CONTRACTOR SHALL PROTECT VALVE STEMS AND OTHER SURFACES FROM OVERSPRAY.



**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

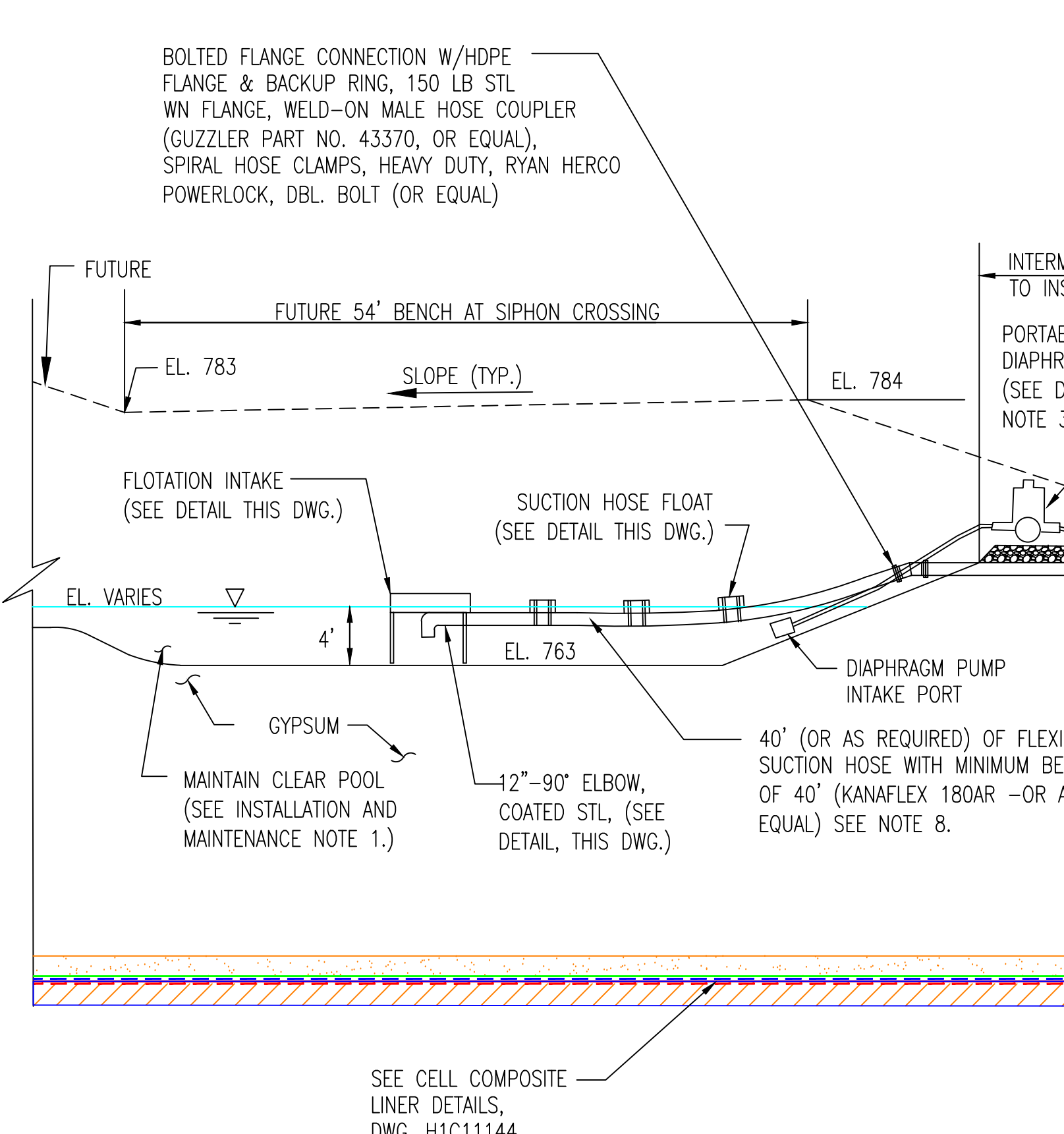
**SIPHON INSTALLATION AND OPERATION NOTES:**

- INSTALLATION AND MAINTENANCE:**
- 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.
  - 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.
  - FLAG/PROTECT VALVES AND APPURTENANCES OF SIPHON TO PREVENT DAMAGE FROM TRAFFIC AT TOP OF DIKES.
  - 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.
  - WATER SUPPLY INTO SIPHON MAY BE PUMPED FROM CELL OR PLANT WATER.
  - 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.
  - 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/APURTENANCES. MOTOR OPERATED EQUIPMENT SHOULD NOT BE USED TO STRIKE SIPHON.
  - 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'.
  - 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.
  - 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 USING PIPE SADDLE SUPPORTS W/STRAPS AND ELASTOMERIC GASKET.
  - ALL METAL SURFACES OF THE SIPHON ASSEMBLY ARE TO BE COATED AS OUTLINED IN METAL SURFACE COATINGS/PAINT NOTES ON THIS DRAWING.
  - PRIOR TO PLACING FINAL SURFACE/CAP, THE SIPHON AND ALL APPURTENANCES (INCLUDING CONCRETE THRUST BLOCKS) SHALL BE REMOVED.

- DECANT OPERATIONS:**
- 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.
  - 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.
  - 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.
  - TURN OFF WATER SUPPLY WHEN DOWNSTREAM PIPE IS FILLED AND CLOSE AIR VENT VALVE.
  - OPEN DISCHARGE VALVE (BALL VALVE) TO START SIPHON.
  - REGULATE FLOW FROM CELL BY DISCHARGE VALVE.
  - 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:**
- MAINTAIN DECANT SIPHON FLOW WITH DISCHARGE VALVE OPEN FOR FULL FLOW.
  - PRIME SECOND SIPHON USING PROCEDURES ABOVE AND SET DISCHARGE VALVE OPEN TO FULL FLOW.
  - SHUT OFF SECOND SIPHON WHEN WATER LEVEL IN CELL RETURNS TO PROCESS ELEVATION. (CLOSE MANUAL BALL VALVE AT DISCHARGE OF SIPHON).

**POLYETHYLENE 4'X4'X12' FLOTATION INTAKE N.T.S.**



**SIPHON SECTION CELL 1**  
SCALE: 1" = 10'



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REVISION 0		DATE 09-23-2022																																					
CCR LF PERMIT APPLICATION [BY HHNT, INC.]																																							
<b>Southern Company Generation Engineering and Construction Services FOR</b>																																							
<b>Georgia Power Company</b>																																							
PLANT WANSLEY COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY CELL 1 THROUGH CELL 3 SIPHON SECTIONS AND DETAILS																																							
BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
ANR	RBL																																	AS NOTED	<b>H1C1151</b>	1	FINAL	0	

target ZER Energy Services, Inc. F E D C B A

FLUME A POINT NO. NORTHING EASTING ELEVATION A1 1237682.66 2027978.61 904.15

FLUME B POINT NO. NORTHING EASTING ELEVATION B1 1237783.38 2028160.95 904.15

FLUME C POINT NO. NORTHING EASTING ELEVATION C1 1237682.86 2028501.34 904.15

FLUME D POINT NO. NORTHING EASTING ELEVATION D1 1237350.55 202644.19 863.00

CELL 1 AND CELL 2 FLUME D POINT NO. NORTHING EASTING ELEVATION D19 OMIT OMIT OMIT

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FLUME F POINT NO. NORTHING EASTING ELEVATION F1 1237674.48 2027269.49 803.00

FLUME G POINT NO. NORTHING EASTING ELEVATION G1 1237865.39 202772.84 843.00

FLUME H POINT NO. NORTHING EASTING ELEVATION H1 1238136.62 2027915.51 803.00

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

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FLUME S POINT NO. NORTHING EASTING ELEVATION S1 1237486.00 2027160.26 803.00

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BENCH POINT NO. NORTHING EASTING ELEVATION HP2 1237808.67 2028354.33 883.91

BENCH POINT NO. NORTHING EASTING ELEVATION HP3 1237802.50 2028378.35 883.74

BENCH POINT NO. NORTHING EASTING ELEVATION HP4 1237497.14 2028630.17 884.00

CELL 3 FLUME A POINT NO. NORTHING EASTING ELEVATION A1 1238239.13 2025770.08 870.20

FLUME B POINT NO. NORTHING EASTING ELEVATION B1 1238306.67 2025846.18 859.00

FLUME C POINT NO. NORTHING EASTING ELEVATION C1 1238265.61 2025953.97 870.20

FLUME D POINT NO. NORTHING EASTING ELEVATION D1 1238153.50 2026066.12 859.00

FLUME E POINT NO. NORTHING EASTING ELEVATION E1 1238028.35 2026178.67 839.00

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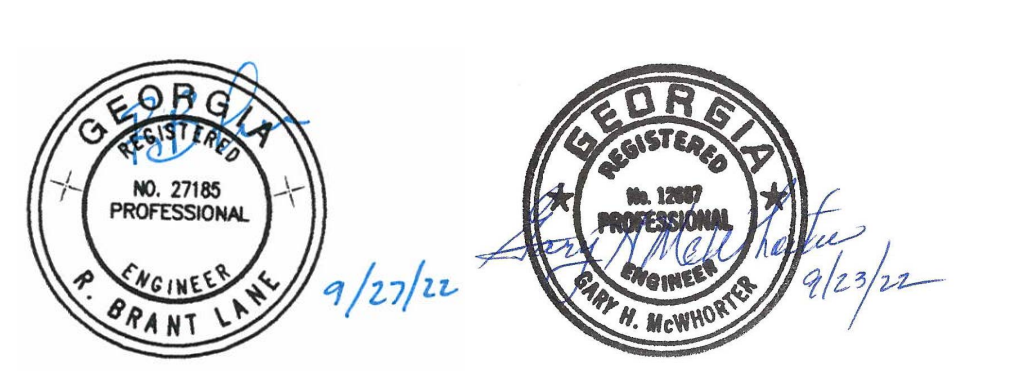
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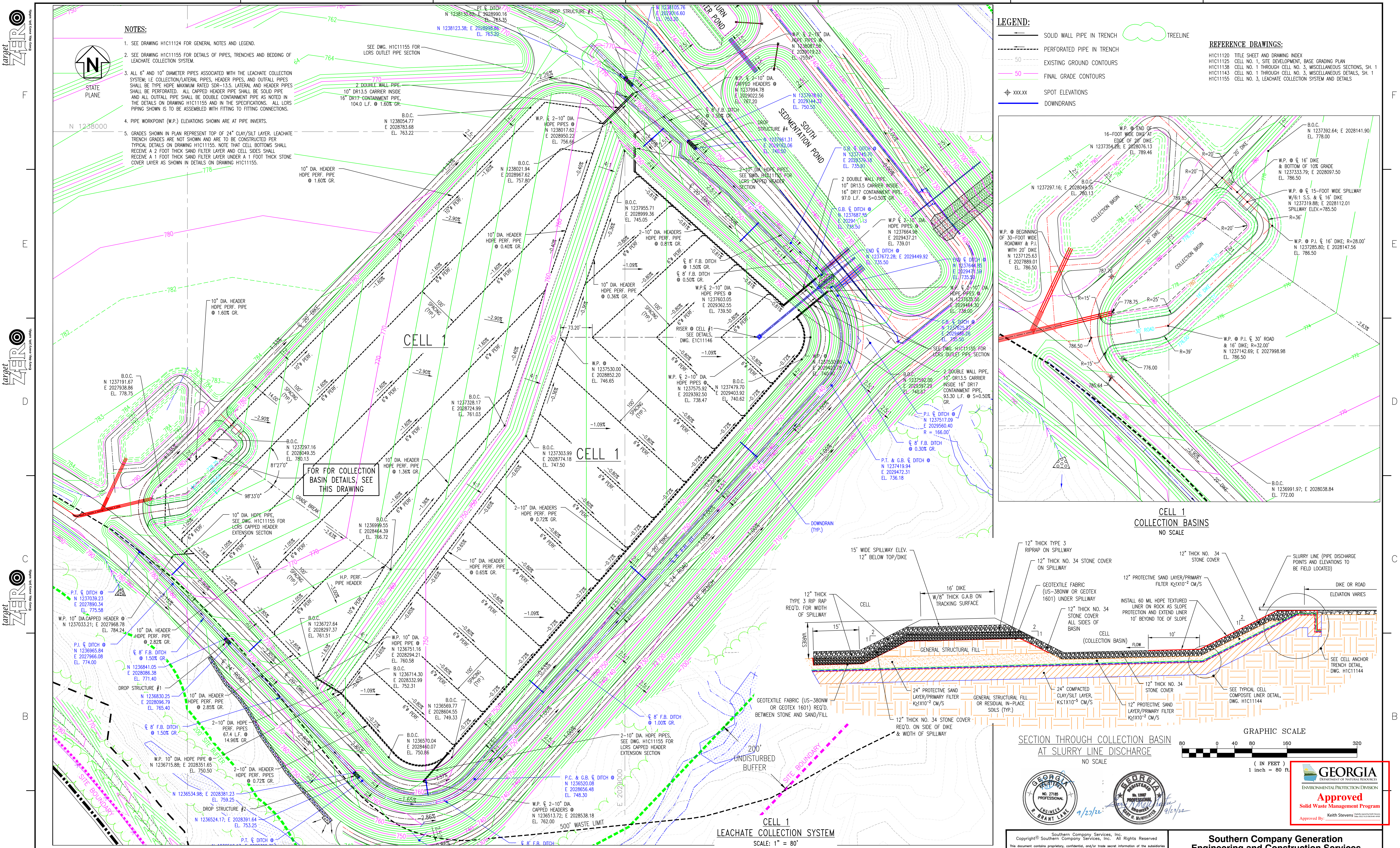


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Southern Company Generation Engineering and Construction Services FOR Georgia Power Company PLANT WANSLEY COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY CELL NO.1 THROUGH CELL 3 FLUME DATA SHEET

target ZER Energy Services, Inc. F E D C B A

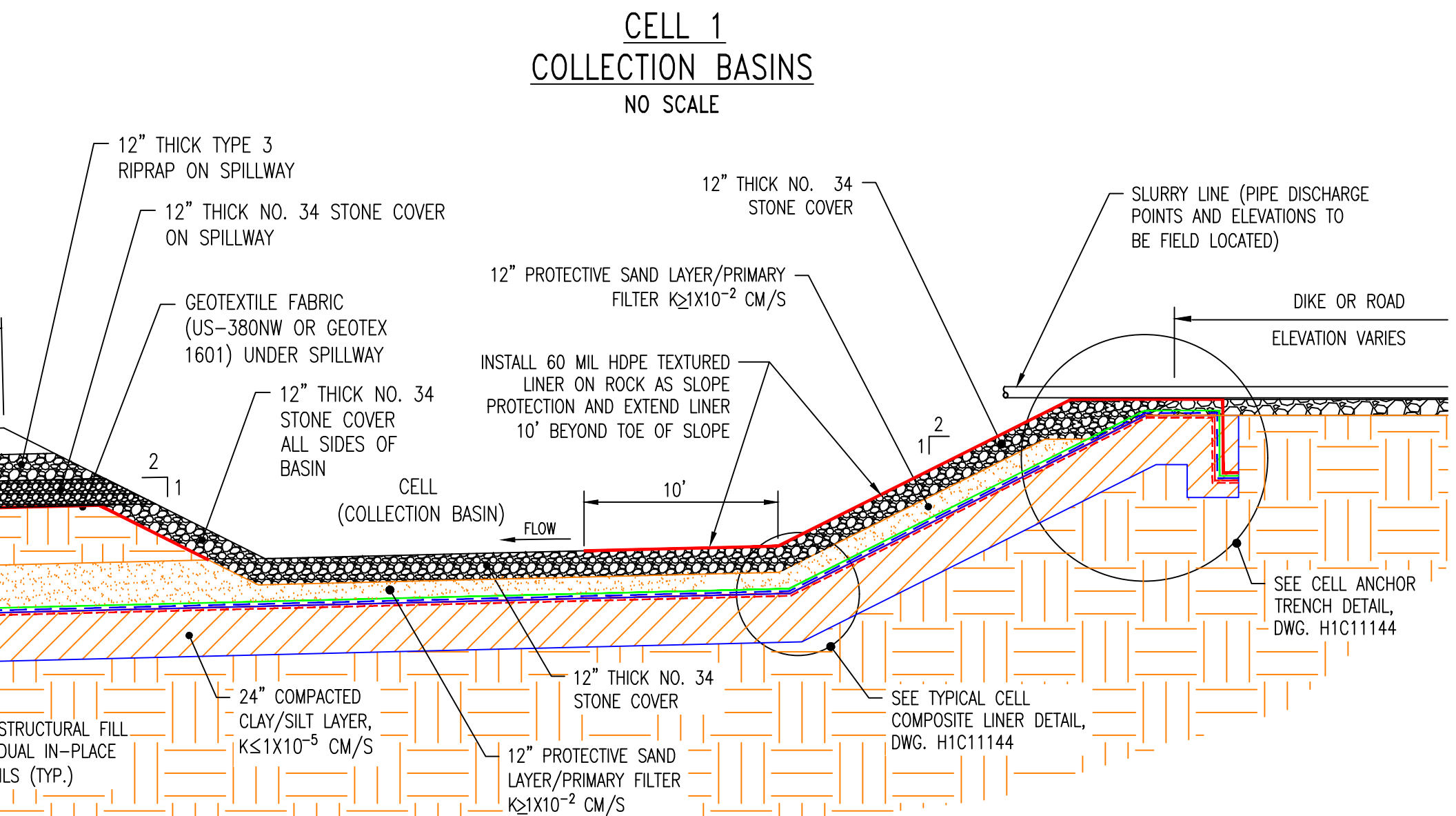




- NOTES:**
- SEE DRAWING H1C11124 FOR GENERAL NOTES AND LEGEND.
  - SEE DRAWING H1C11155 FOR DETAILS OF PIPES, TRENCHES AND BEDDING OF LEACHATE COLLECTION SYSTEM.
  - ALL 6" AND 10" DIAMETER PIPES ASSOCIATED WITH THE LEACHATE COLLECTION SYSTEM: I.E. COLLECTION/LATERAL PIPES, HEADER PIPES, AND OUTFALL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

- LEGEND:**
- SOLID WALL PIPE IN TRENCH
  - PERFORATED PIPE IN TRENCH
  - EXISTING GROUND CONTOURS
  - FINAL GRADE CONTOURS
  - SPOT ELEVATIONS
  - DOWNDRAINS
  - TREELINE
- REFERENCE DRAWINGS:**
- H1C11120 TITLE SHEET AND DRAWING INDEX
  - H1C11125 CELL NO. 1, SITE DEVELOPMENT, BASE GRADING PLAN
  - H1C11138 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS SECTIONS, SH. 1
  - H1C11143 CELL NO. 1 THROUGH CELL NO. 3, MISCELLANEOUS DETAILS, SH. 1
  - H1C11155 CELL NO. 3, LEACHATE COLLECTION SYSTEM AND DETAILS

FOR FOR COLLECTION BASIN DETAILS, SEE THIS DRAWING



**SECTION THROUGH COLLECTION BASIN AT SLURRY LINE DISCHARGE**  
NO SCALE

**GRAPHIC SCALE**  
NO SCALE

( IN FEET )  
1 inch = 80 ft

**GEORGIA**  
REGISTERED PROFESSIONAL ENGINEER  
NO. 2785  
9/27/22

**GEORGIA**  
REGISTERED PROFESSIONAL ENGINEER  
NO. 1100  
9/26/22

**Approved**  
Solid Waste Management Program  
Approved By: Keith Stevens

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	
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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  
GENERAL SITE DEVELOPMENT  
CELL NO. 1  
LEACHATE COLLECTION SYSTEM LAYOUT

SCALE: 1"=80'

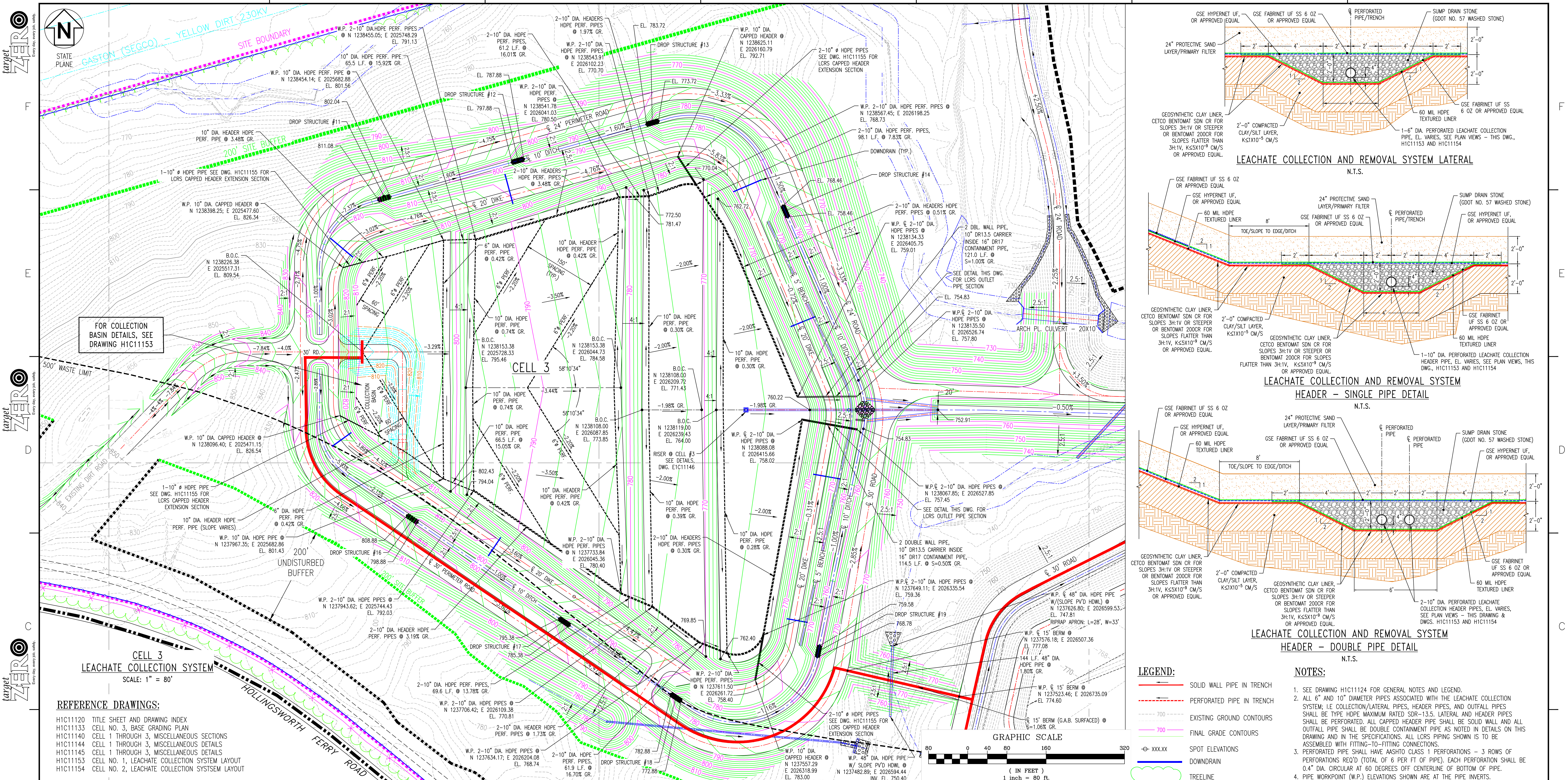
DRAWING NUMBER: **H1C11153**

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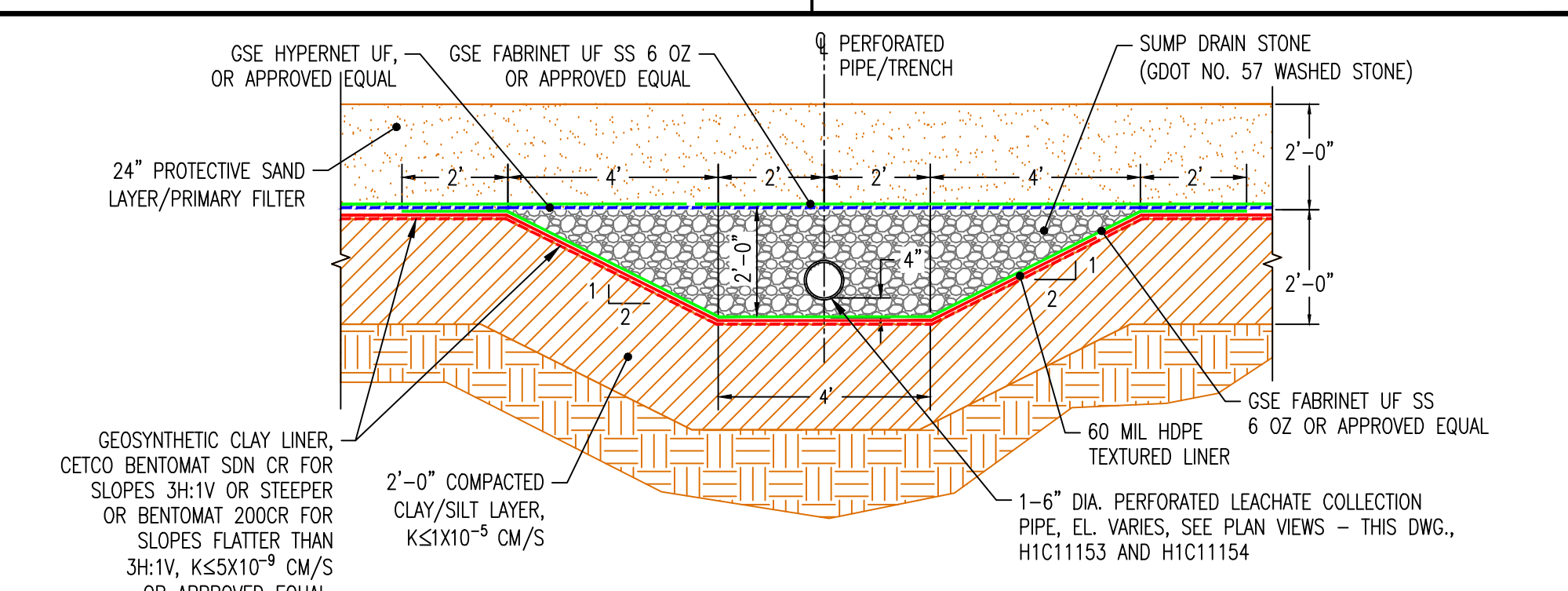




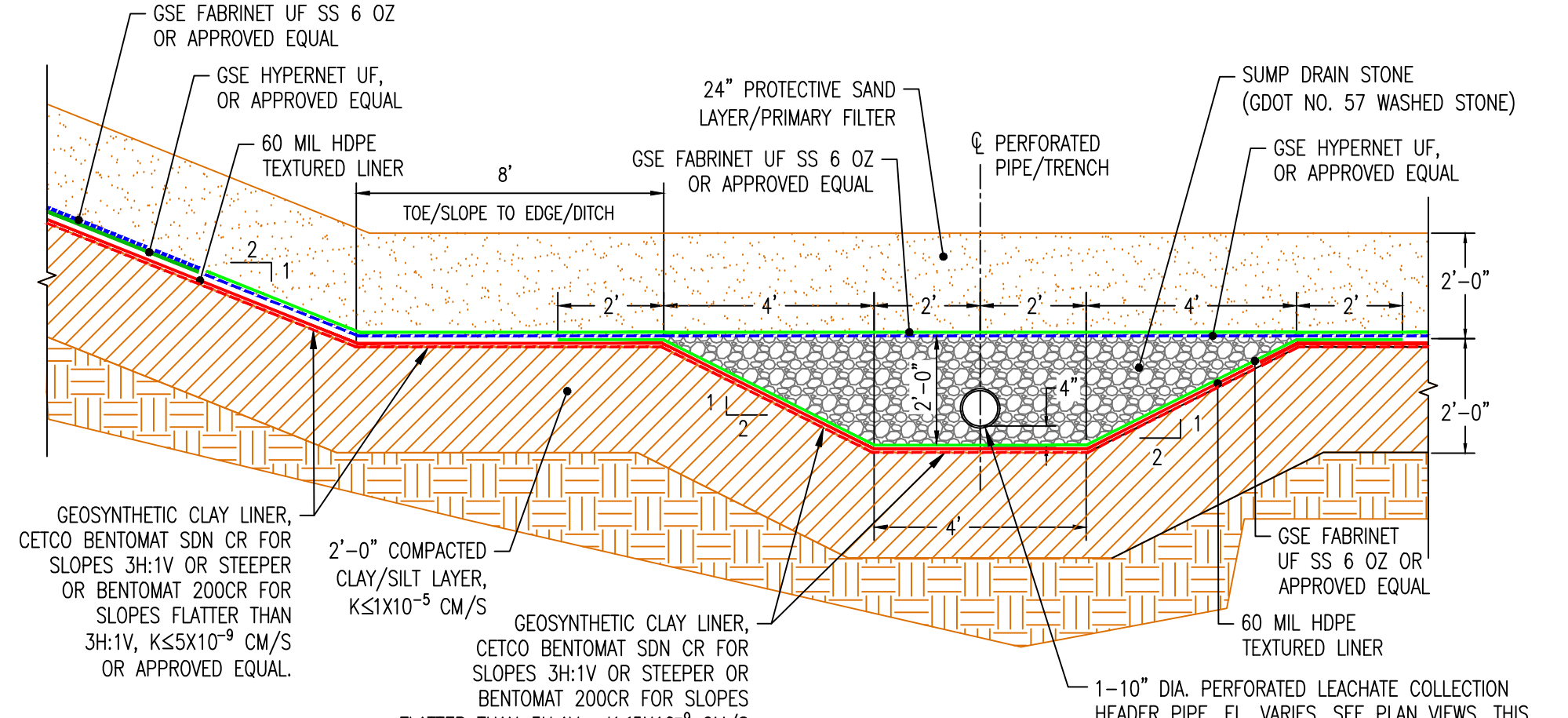
FOR COLLECTION BASIN DETAILS, SEE DRAWING H1C11153

**CELL 3 LEACHATE COLLECTION SYSTEM**  
SCALE: 1" = 80'

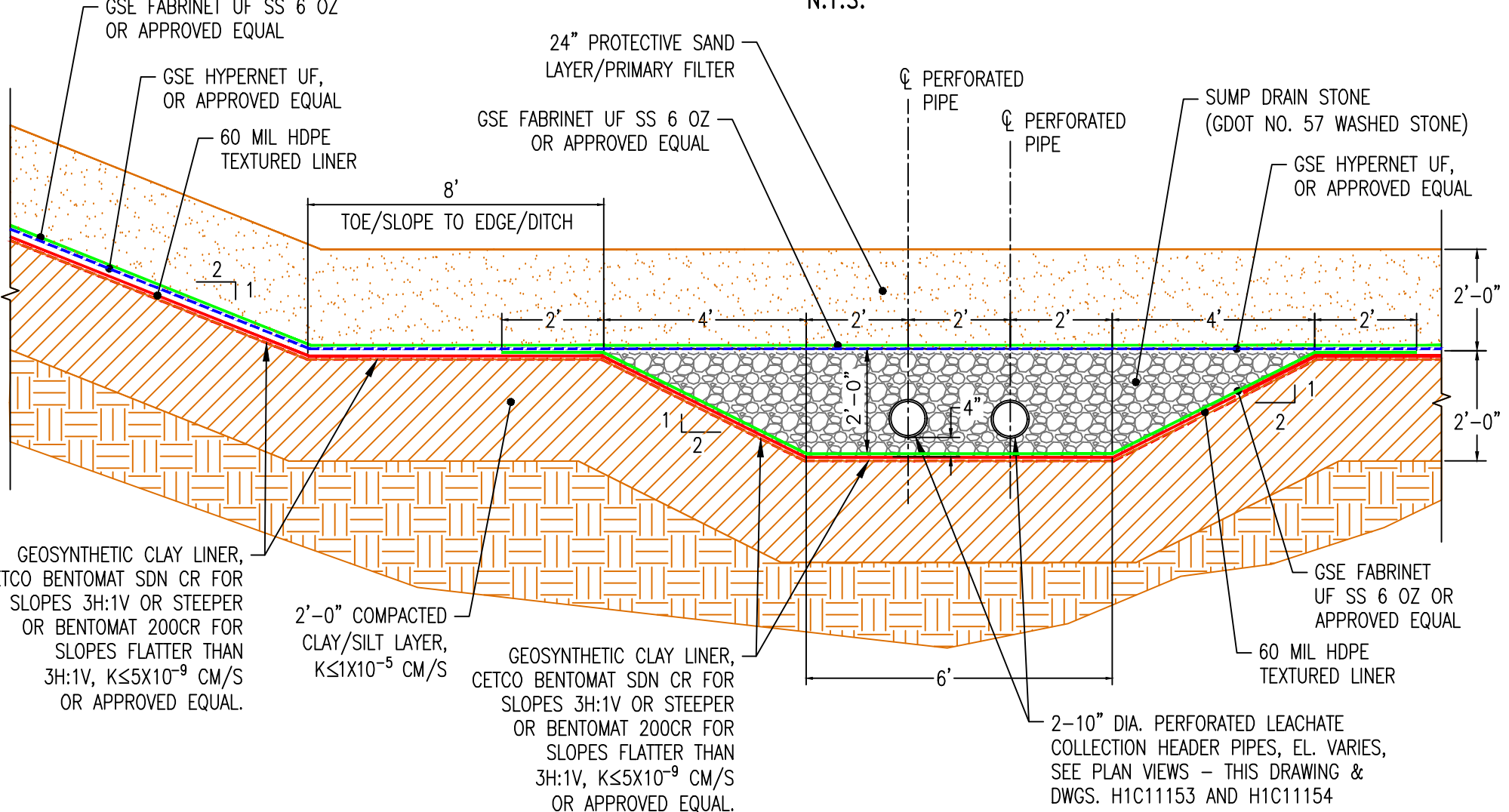
- REFERENCE DRAWINGS:**
- H1C11120 TITLE SHEET AND DRAWING INDEX
  - H1C11133 CELL NO. 3, BASE GRADING PLAN
  - H1C11140 CELL 1 THROUGH 3, MISCELLANEOUS SECTIONS
  - H1C11144 CELL 1 THROUGH 3, MISCELLANEOUS DETAILS
  - H1C11145 CELL 1 THROUGH 3, MISCELLANEOUS DETAILS
  - H1C11153 CELL NO. 1, LEACHATE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



**LEACHATE COLLECTION AND REMOVAL SYSTEM LATERAL**  
N.T.S.



**LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER - SINGLE PIPE DETAIL**  
N.T.S.



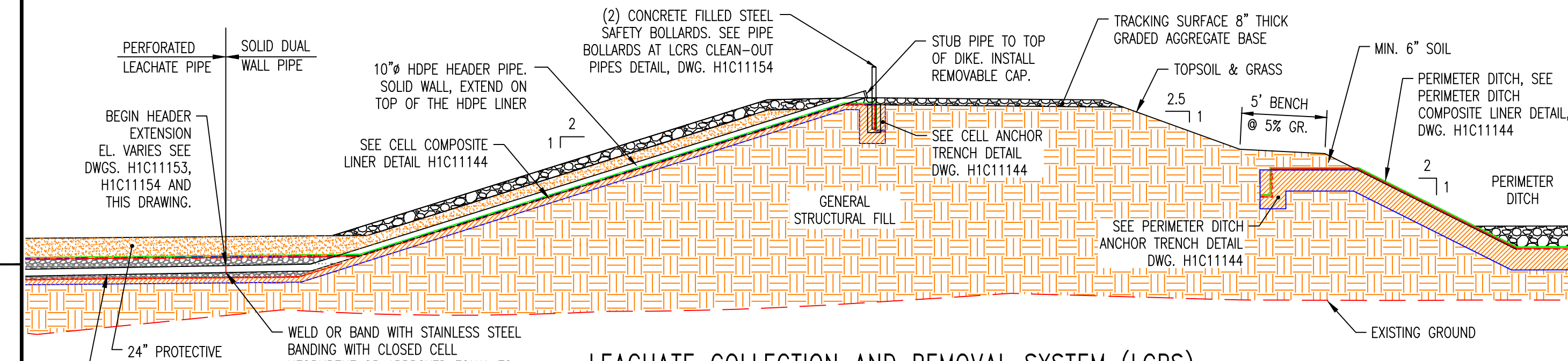
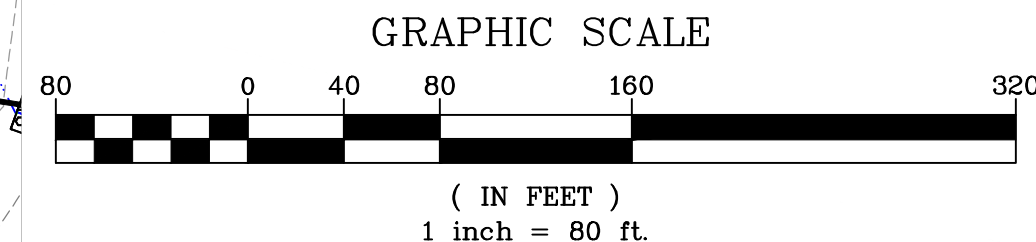
**LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER - DOUBLE PIPE DETAIL**  
N.T.S.

**LEGEND:**

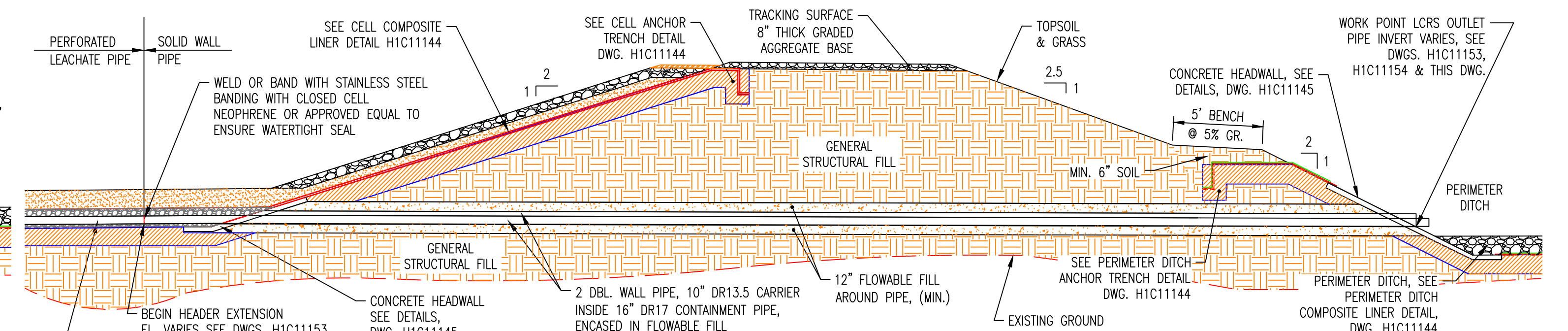
- SOLID WALL PIPE IN TRENCH
- PERFORATED PIPE IN TRENCH
- EXISTING GROUND CONTOURS
- FINAL GRADE CONTOURS
- SPOT ELEVATIONS
- DOWNDRAIN
- TREELINE

**NOTES:**

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



**LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) CAPPED HEADER EXTENSION SECTION**  
N.T.S.



**LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) OUTLET PIPE SECTION**  
N.T.S.

**GEORGIA**  
DEPARTMENT OF NATURAL RESOURCES  
Environmental Protection Division  
**Approved**  
Solid Waste Management Program  
Approved By: Keith Stevens

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE

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

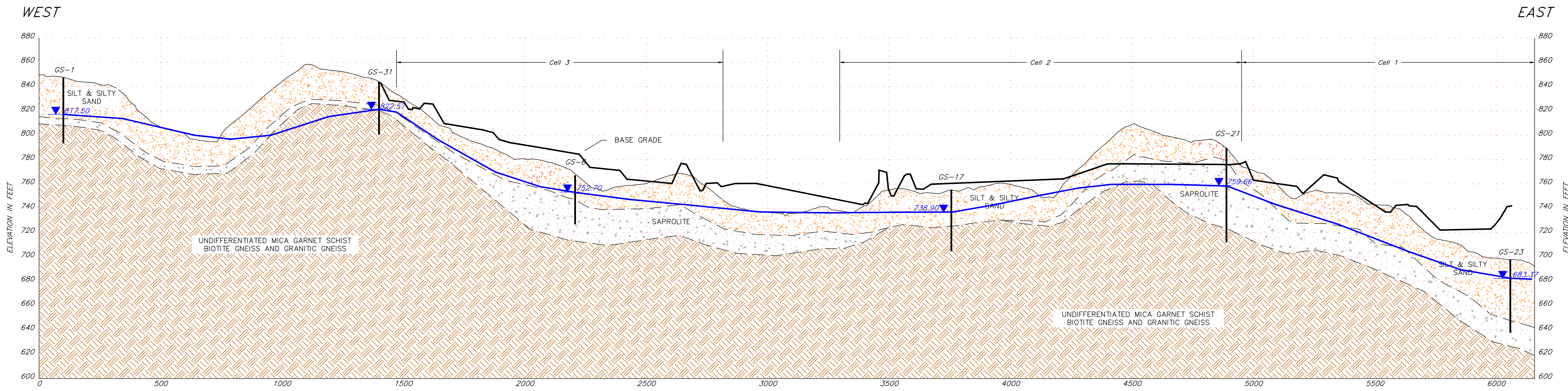
**Georgia Power Company**

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

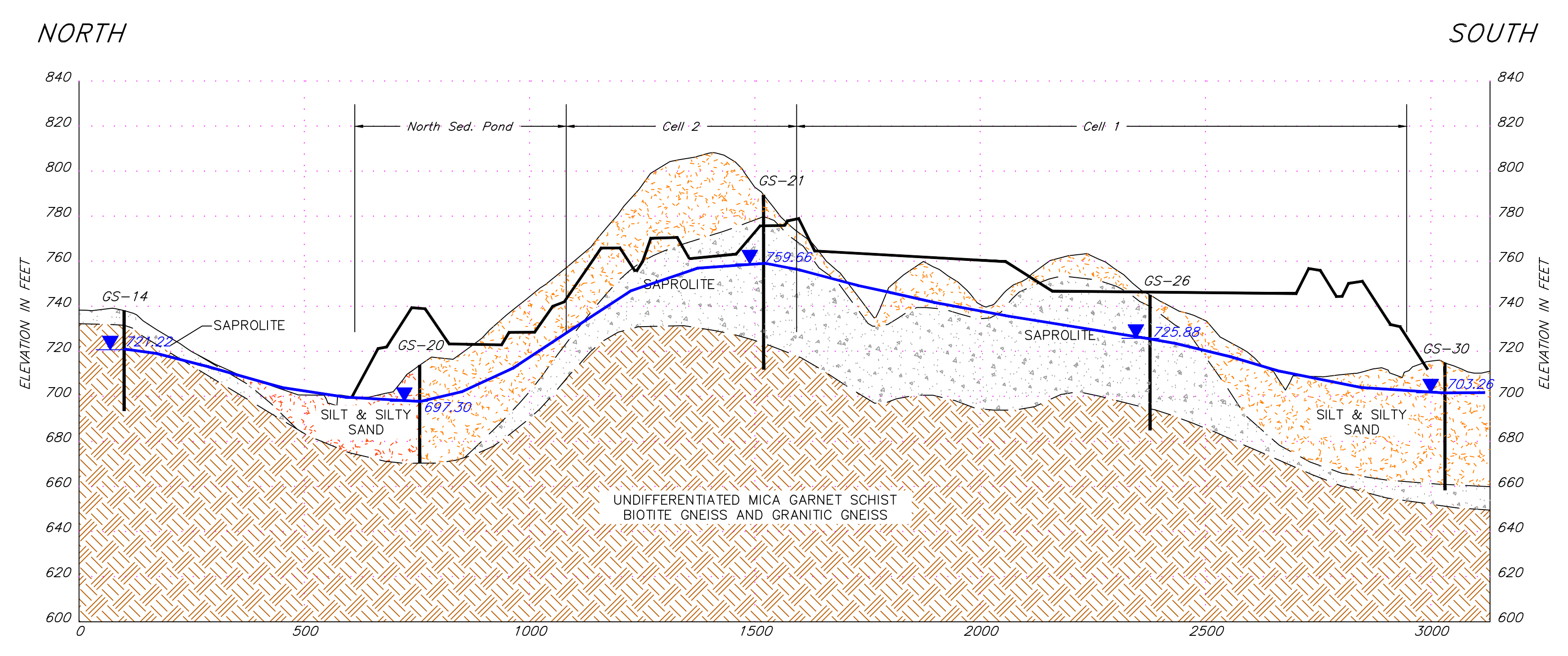
REVISION 0	DATE 09-23-2022
CCR LF PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVL APPR	ELECT APPR	L/C APPR	MECH APPR	DISC MGR
ANR	RBL					

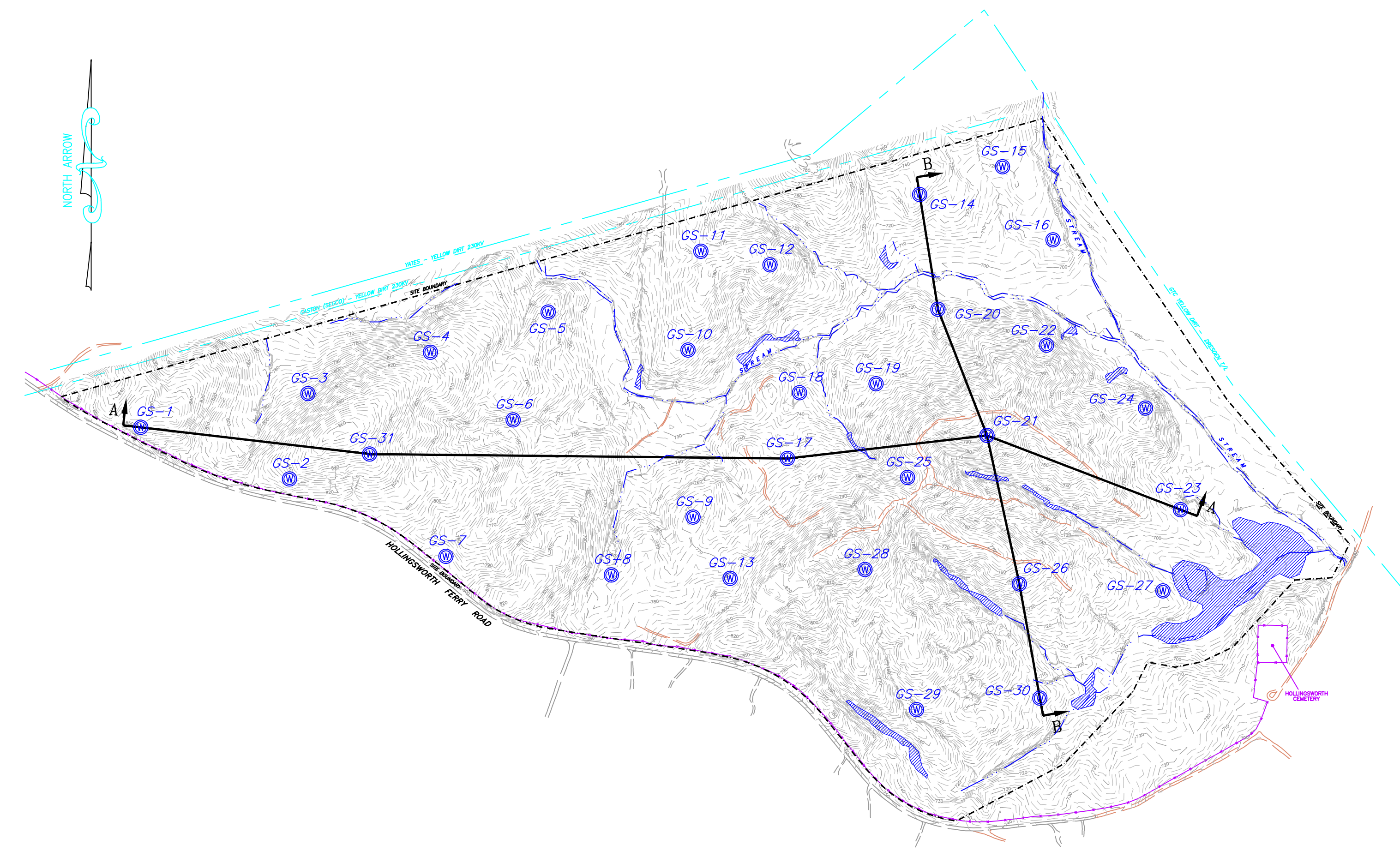
SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	<b>H1C11155</b>	1	FINAL	0



**GEOLOGIC CROSS-SECTION A-A**  
SCALE H: 1"=200' V: 1"=40'



**GEOLOGIC CROSS-SECTION B-B**  
SCALE H: 1"=200' V: 1"=40'



**KEY PLAN**  
SCALE: 1"=500'

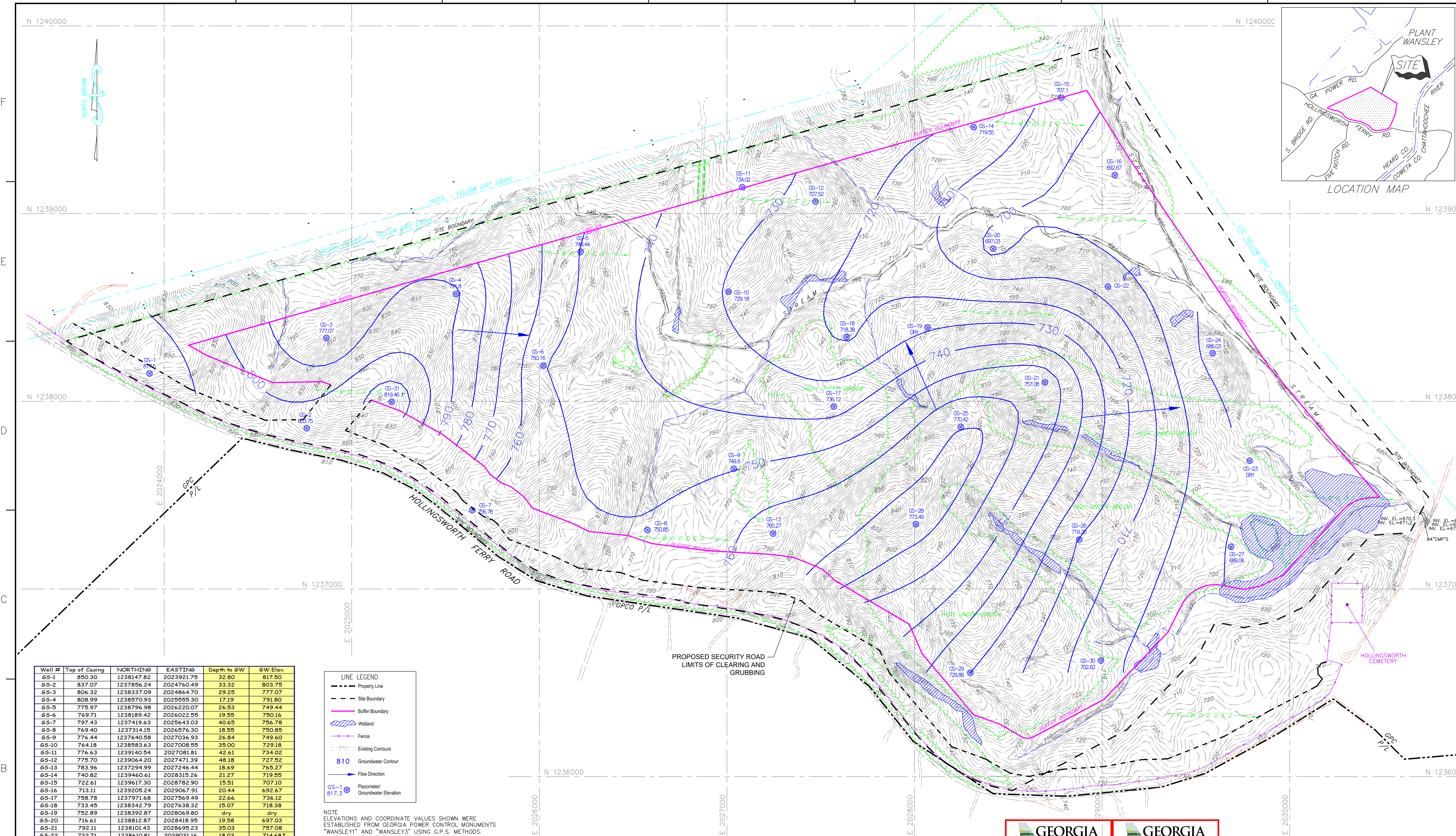
The information provided on this drawing was originally prepared by qualified groundwater scientists at Southern Company Generation Engineering and Construction Services in August 2009 in support of the Industrial Solid Waste Permit 074-005D(LI). The drawing was subsequently modified with final approval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



- LEGEND:**
- ▼ HIGH GROUNDWATER ELEVATION FROM NOVEMBER 17, 2006
  - GS-1 | PIEZOMETER
  - BASE GRADE

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

REVISION 0		DATE 09-23-2022										
Copyright © Southern Company Services, Inc. All Rights Reserved												
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'												
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	SCALE	PROJ. I.D.	DRAWING NUMBER	SHEET	CONTD.	REV.
ANR	RBL						AS SHOWN	010505	H1C11160	1	FINAL	0



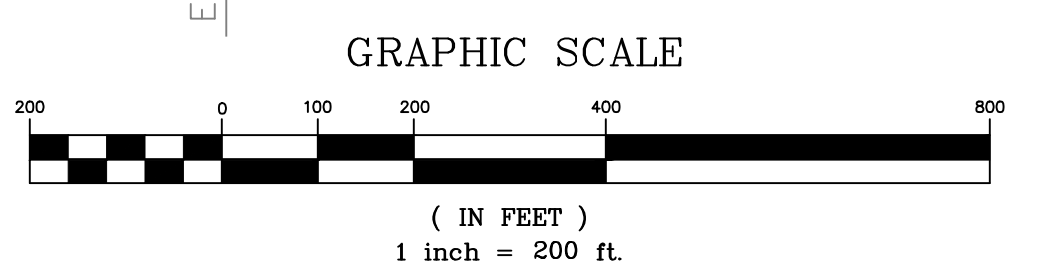
Well #	Top of Casing	NORTHINGS	EASTINGS	Depth to GW	GW Elev
GS-1	850.30	1238147.82	2023921.75	32.80	817.50
GS-2	837.07	1237856.24	2024760.49	33.32	803.75
GS-3	806.32	1238337.09	2024864.70	29.25	777.07
GS-4	808.99	1238570.93	2025555.30	17.19	791.80
GS-5	775.97	1238796.98	2026220.07	26.53	749.44
GS-6	769.71	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	18.95	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	1239209.24	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	19.07	718.38
GS-19	752.89	1238392.87	2028069.80	dry	dry
GS-20	716.61	1238812.87	2028418.99	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

**LINE LEGEND**

- Property Line
- Site Boundary
- Buffer Boundary
- Welland
- Fence
- Existing Contours
- 810 Groundwater Contour
- Flow Direction
- 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.

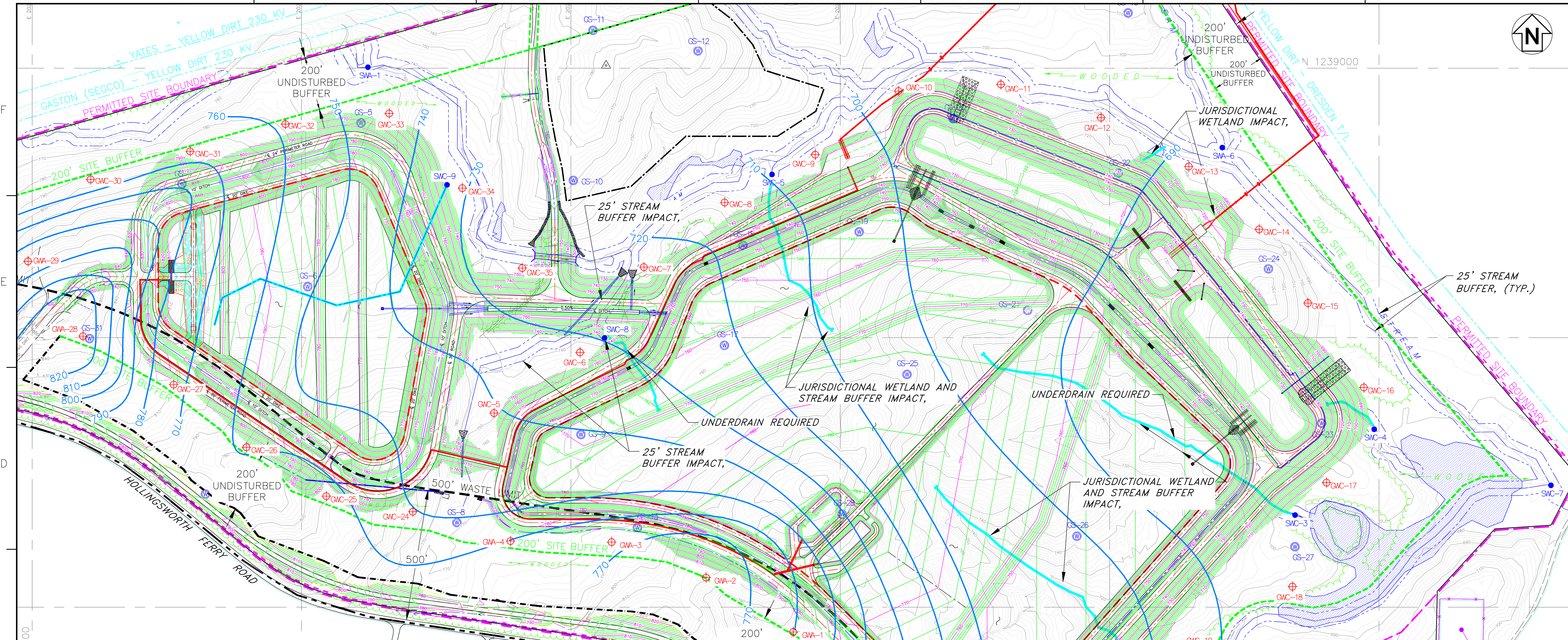
The information provided on this drawing was originally prepared by qualified groundwater scientists at Southern Company Generation Engineering and Construction Services in August 2009 in support of the Industrial Solid Waste Permit 074-005D(L). The drawing was subsequently modified with final approval 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.



\* ERRONEOUS READING - NOT USED ON PREPARATION ON MAP.

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE				
BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR			
												REVISION	0	DATE	09-23-2022								
												Copyright © Southern Company Services, Inc. All Rights Reserved					Southern Company Generation Engineering and Construction Services FOR						
												CCR LF PERMIT APPLICATION [BY HHNT, INC.]					Georgia Power Company						
																	PLANT WANSLEY COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY POTENTIOMETRIC SURFACE MAP 11/17/2006						
												SCALE	AS SHOWN	PROJ. I.D.	010505	DRAWING NUMBER	<b>H1C11161</b>	SHEET	1	CONTD.		REV.	0



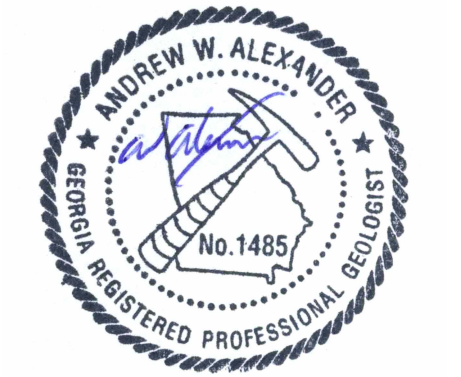


Summary of Groundwater Elevations  
Plant Wansley Landfill  
March 2021 Sampling Event

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
GWA-5	40.83	755.91	14.82	741.09
GWA-6	31.12	749.98	17.05	732.93
GWA-7	26.02	731.15	8.09	723.06
GWA-8	20.11	723.46	8.83	714.63
GWA-9	19.44	712.65	7.22	705.43
GWA-10	21.97	709.41	11.69	697.72
GWA-11	18.16	701.05	6.26	694.79
GWA-12	40.54	724.06	27.03	697.03
GWA-13	90.46	694.08	5.95	688.13
GWA-14	24.34	692.63	9.6	683.03
GWA-15	51.06	687.44	6.25	681.19
GWA-16	26.89	690.32	10.06	680.26
GWA-17	53.2	704.55	19.65	684.9
GWA-18	30.39	700.31	13.09	687.22
GWA-19	38.43	698.47	7.11	691.36
GWA-20	70.96	706.29	4.83	701.46
GWA-21	38.3	721.02	12.71	708.31
GWA-22	77.13	744.17	21.95	722.22
GWA-23	67.95	773.41	34.64	738.77
GWA-24	51.09	790.37	38.8	751.57
GWA-25	61.29	812.36	50.13	762.23
GWA-26	59.54	785.6	27.4	758.2
GWA-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
GWA-30	49.64	791.1	25	766.1
GWA-31	38.03	797.5	30.3	767.2
GWA-32	31.21	785.38	25.01	760.37
GWA-33	24.03	760.05	13.44	746.61
GWA-34	50.91	735.4	4.21	731.19
GWA-35	40.53	730.64	7.95	722.69

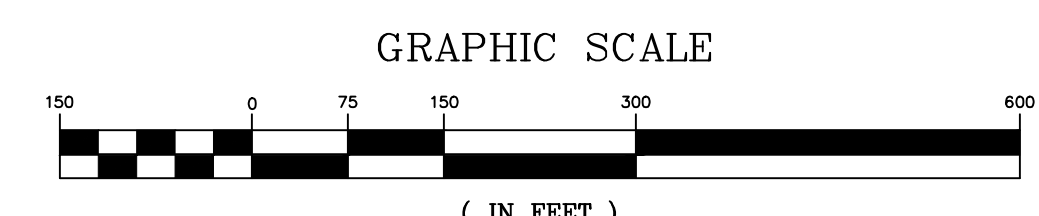
Notes:  
Depths to water measured on March 8, 2021.  
ft NAVD88 = feet North American Vertical Datum of 1988.  
ft BTOC = feet below top of casing.

- LEGEND:**
- ⊕ GWA-34 PROPOSED DOWNGRADE WELL
  - ⊕ GWA-35 PROPOSED UPGRADIENT WELL
  - SWC-4 SURFACE WATER MONITORING POINTS
  - ⊕ GS-1 PIEZOMETER LOCATION
  - SITE BOUNDARY
  - 200' BUFFER
  - 500' WASTE BUFFER
  - 25' STREAM BUFFER
  - LIMITS OF CLEARING
  - EXCAVATION LAYOUT CONTROL
  - WETLANDS
  - .50' EXISTING GROUND CONTOURS
  - .50' FINAL GRADE CONTOURS
  - LIMITS OF WASTE
  - UNDERDRAIN
  - GROUNDWATER ELEVATION CONTOUR



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

Signature: *A. Alexander*  
Date: 2022-09-23



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

**REFERENCES:**

- FOR A COMPLETE DRAWING LIST SEE H1C11120



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CCR LF PERMIT APPLICATION [BY HHNT, INC.]

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

**PLANT WANSLEY**  
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY COMPLIANCE NETWORK

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

SCALE	PROJ. ID.	DRAWING NUMBER	SHEET	CONTD.	REV.
AS SHOWN	010505	<b>H1C11165</b>	1	FINAL	0