

# PLANT MITCHELL CCR SURFACE IMPOUNDMENT CLOSURES

## ASH PONDS A, 1, AND 2 CLOSURE-BY-REMOVAL

### MITCHELL AND DOUGHERTY COUNTIES, GEORGIA

#### APRIL 2022

#### PERMIT DRAWINGS - NOT FOR CONSTRUCTION



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PREPARED FOR:



GENERAL MANAGER  
GEORGIA POWER ENVIRONMENTAL AFFAIRS  
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GA COA#: PEF000213  
EXPIRES 06/30/2022



DATE: APRIL, 2022



COVER SHEET

SHEET NUMBER:	REV. #
1	0
SHEET 1 OF 25 SHEETS	

1

2

3

4

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





LINETYPE LEGEND	
	PROPERTY BOUNDARY
	CCR PERMIT BOUNDARY
	OVERHEAD ELECTRIC UTILITY
	CHAIN LINK FENCE
	STORMWATER PIPES
	STREAMS (REF. 3)
	RAIL LINE
	BUILDING
	TREE LINE
	ASH SLUICE LINE
	LOW VOLUME DISCHARGE PIPE
	APPROXIMATE LOW VOLUME SUMP DISCHARGE PIPE LOCATION
	APPROXIMATE ASH POND LIMIT
	COUNTY LINE
	APPROXIMATE ASH POND RECYCLE LINE - BELOW GRADE
	FINGER DRAIN
	BORROW AREA
	COLLECTOR DITCH
	LATERAL DITCH
	ASH POND A REMOVAL LIMITS (ASH EXCAVATION NOTES: NOTE 3)

CONTOUR LEGEND	
	EXISTING MAJOR CONTOUR (10') (SEE REF. 1, 2, AND 5)
	EXISTING MINOR CONTOUR (2') (SEE REF. 1, 2, AND 5)
	RESTORATION MAJOR CONTOUR (10')
	RESTORATION MINOR CONTOUR (2')
	EXCAVATION MAJOR CONTOUR (10') (SEE ASH EXCAVATION NOTE 2)
	EXCAVATION MINOR CONTOUR (2') (SEE ASH EXCAVATION NOTE 2)
	STORMWATER BERM MAJOR CONTOUR (10')
	STORMWATER BERM MINOR CONTOUR (2')

CROSS SECTION LEGEND	

CROSS SECTION LEGEND	
	EXISTING GRADE (SEE REF. 1, 2, AND 5)
	EXCAVATION GRADE
	PROPOSED FINAL GRADE

SYMBOL LEGEND	
•	LIGHTPOLE
•	DROP INLET
•	GUY WIRE
☒	UTILITY TOWER
●	SURVEY BENCHMARK
●	PROPOSED MONITORING NETWORK WELL
⊕	PROPOSED GROUNDWATER PIEZOMETER
⊙	CPT (REF. 4)
⊙	SPT (REF. 4)
⊙	HISTORIC WELL
⊕	HISTORIC PIEZOMETER
•	POWER POLE
○	TREE

HATCH LEGEND	
	CCR/SOIL TO REMAIN IN PLACE AS BENEFICIAL USE
	WETLANDS (REF. 3)
	EXISTING CONCRETE
	CONCEPTUAL RAILROAD AND ASH LOADING FACILITY
	CONCEPTUAL WASTEWATER TREATMENT FACILITY
	PHASE 1 DEMOLITION AREA
	PHASE 2 DEMOLITION AREA
	EARTHEN FILL
	CCR MATERIAL - TO BE REMOVED

PROJECT GENERAL NOTES

1. SITE SPECIFIC ENVIRONMENTAL, HEALTH, AND SAFETY POLICIES OF SITE OWNER SHALL BE OBTAINED, UNDERSTOOD, AND ENFORCED AT ALL TIMES.
2. ALL WORK ACTIVITIES SHOULD BE PLANNED RECOGNIZING THE ENVIRONMENTAL SENSITIVITY OF THE WORK AREA AND PROXIMITY TO DELINEATED WETLANDS, STREAMS, AND THE FLINT RIVER.
3. THE WORK AREA SHALL BE CLEAN AT ALL TIMES. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES, AND WETLANDS, STREAMS, AND THE FLINT RIVER SHOULD BE PROTECTED.
4. THE SITE CONDITIONS AND SITE LAYOUT SHALL BE FIELD VERIFIED PRIOR TO BEGINNING CONSTRUCTION.
5. CONTACT APPROPRIATE UTILITIES AND LOCATE UTILITIES PRIOR TO THE COMMENCEMENT OF WORK ACTIVITIES. VERIFY LOCATION AND DEPTHS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
6. ASH POND A LIMITS ARE BASED ON HISTORICAL DRAWING H-103, DATED 1947 AND ARE APPROXIMATE.
7. ASH POND 1 AND 2 LIMITS ARE APPROXIMATE AND BASED ON EXISTING PERIMETER DIKE TOE OF SLOPE EVALUATED FROM TOPOGRAPHICAL MAPS.
8. ALL PIEZOMETERS AND GROUNDWATER MONITORING WELLS ARE TO BE PROTECTED AND PRESERVED UNLESS OTHERWISE NOTED FOR ABANDONMENT OR REMOVAL.
9. ALL PIEZOMETERS LOCATED IN THE ASH PONDS AND IN THE ASH POND DIKES SHALL BE PROTECTED AND PRESERVED DURING CONSTRUCTION UNTIL EXCAVATION REQUIRES THEIR REMOVAL. THE OWNER MUST APPROVE THEIR REMOVAL.
10. ALL FINGER DRAINING AND FINGER DRAIN PUMP STATIONS ARE TO REMAIN FUNCTIONAL UNTIL EXCAVATION AND REMOVAL OF THE ASH POND DIKES. DURING REMOVAL OF ASH POND DIKES, FINGER DRAINS AND FINGER DRAIN PUMP STATIONS ARE TO BE ABANDONED BY REMOVAL. ASH POND OUTFALL AND EMERGENCY OVERFLOW STRUCTURES WILL BE DEMOLISHED AND REMOVED PRIOR TO DIKE EXCAVATIONS.
11. THE ASH POND 1 AND 2 EMERGENCY OVERFLOW DISCHARGE PIPES WERE GROUTED IN 2017. THE DISCHARGE PIPES CONNECTING THE ASH POND 1 AND 2 OUTFALL STRUCTURES WERE GROUTED IN 2017.
12. THE EXISTING SLURGE LINES AND THE ASH POND RECYCLE LINES SHALL BE PROTECTED, PRESERVED, AND MAINTAINED FUNCTIONAL DURING CUR REMOVAL UNTIL EXCAVATION REQUIRES THEIR REMOVAL OR THEIR FUNCTION IS NO LONGER NEEDED. THE OWNER MUST APPROVE THEIR REMOVAL.
13. EQUIPMENT STAGING AND DECONTAMINATION AREAS MAY BE RELOCATED WITHIN THE ASH PONDS TO SUIT CONSTRUCTION ACTIVITIES.

## GENERAL EROSION, SEDIMENT, AND POLLUTION CONTROL (ES&amp;PC) NOTES

- ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA," STORMWATER CONTROLS AND BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT AND/OR THE FACILITY'S NPDES INDUSTRIAL WASTEWATER DISCHARGE INDIVIDUAL PERMIT.
2. STORMWATER DISCHARGES ASSOCIATED WITH ASH POND CLOSURE ACTIVITIES WILL BE COVERED UNDER THE APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT AND/OR THE FACILITY'S NPDES INDUSTRIAL WASTEWATER DISCHARGE INDIVIDUAL PERMIT. PLANT MITCHELL EXISTING ESPAS PLANS INCLUDE:
- 2.1. RAIL LOADOUT FACILITY - ES&PC PLAN, APRIL 2, 2020.
- 2.2. RAILROAD SPUR ESPAS PLANS, MARCH 30, 2020.
- 2.3. BORROW & STOCKPILE AREAS ESPAS PLANS, AUGUST 23, 2019.
- 2.4. WASTEWATER TREATMENT AREA ESPAC PLAN, NOVEMBER 14, 2019.
- 2.5. WASTEWATER TREATMENT AREA RESTORATION ESPAC PLAN, AUGUST 24, 2020.
- 2.6. PERIMETER CHANNELS ESPAC PLAN, JANUARY 14, 2022.
- 2.7. ASH PONDS A, 1, AND 2 CLOSURE-BY-REMOVAL - PHASE 2 REDESIGN ESPAC PLAN, AUGUST 24, 2020.
3. STATE WATERS BUFFERS SHALL REMAIN UNDISTURBED, EXCEPT WHERE ENCROACHMENT IS REQUIRED TO FACILITATE ASH POND CLOSURE ACTIVITIES, UNLESS OTHERWISE EXEMPTED BY THE APPROPRIATE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT. A STATE WATERS BUFFER VARIANCE SHALL BE OBTAINED FROM GEORGIA EPD'S WATERSHED PROTECTION BRANCH PRIOR TO BUFFER ENCROACHMENT, GEORGIA EPD'S WATERSHED PROTECTION BRANCH SHALL BE NOTIFIED WHEN GPC ENVIRONMENTAL AFFAIRS APPLIES FOR A STATE WATERS BUFFER VARIANCE. CONTACT GPC ENVIRONMENTAL AFFAIRS FOR ASSISTANCE.
4. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES FOR THIS PROJECT, THE PERMITTED BOUNDARY, THE LIMITS OF DISTURBANCE AND ALL WETLANDS AND STATE WATERS BUFFERS WITHIN 200 FEET OF THE LIMITS OF DISTURBANCE OR WITHIN THE PROPERTY BOUNDARY (WHICHEVER IS CLOSER) SHALL BE CLEARLY FLAGGED AND STAKED. THESE MARKINGS SHALL BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION / CLOSURE ACTIVITIES. SHOULD ANY OF THE MARKINGS BE DISTURBED, THE CONTRACTOR SHALL NOTIFY GEORGIA POWER COMPANY IMMEDIATELY. ALL CONSTRUCTION PERSONNEL SHALL BE SHOWN THE LOCATION OF THE STATE WATERS BUFFERS AND STATE WATERS. STATE WATERS AND WETLANDS OUTSIDE THE LIMITS OF DISTURBANCE TO PREVENT HEAVY EQUIPMENT ENCROACHMENT INTO THESE AREAS.
5. ESPAC MEASURES MUST BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES.
6. ADDITIONAL ESP&C MEASURES WILL BE IMPLEMENTED IF THE EXISTING MEASURES ARE NOT PERFORMING ADEQUATELY TO MEET STATE REGULATIONS AS DICTATED BY FIELD CONDITIONS.
7. ESPAC MEASURES SHALL BE MAINTAINED IN CONTINUOUS EFFECTIVE OPERATING ORDER UNTIL SUCH TIME AS THEY ARE REMOVED, REPAIR OR REPLACEMENT, AS APPLICABLE. ANY ESPAC MEASURES WHICH HAVE BEEN RENDERED INOPERABLE FOR ANY REASON.
8. ESPAC MEASURES SHALL REMAIN IN PLACE AND BE PROPERLY MAINTAINED UNTIL RELEVANT AREAS OF SITE ARE CONSIDERED CLOSED.
9. TEMPORARY VEGETATION IS ONLY APPLICABLE ONCE OVER-EXCAVATION HAS BEEN ACCOMPLISHED.
- ASH EXCAVATION NOTES:
1. ASH POND EXCAVATION GRADES WERE ESTIMATED FROM SUBSURFACE EXPLORATION AND HISTORICAL DOCUMENTATION. ACTUAL ASH POND EXCAVATION GRADES ARE SUBJECT TO VARY BASED ON FIELD CONDITIONS.
2. THE CCR REMOVAL PLAN DRAWING SHOWS PROPOSED GRADES AFTER EXCAVATING 6-INCHES OF SOIL BELOW THE ESTIMATED ASH/SOIL INTERFACE.
3. ASH POND A ASH REMOVAL BOUNDARY IS SMALLER THAN THE HISTORIC ASH POND A BOUNDARY. THE ASH POND A ASH REMOVAL BOUNDARY IS BASED ON EXTENSIVE FIELD CHARACTERIZATION THAT DEFINED THE ASH LIMITS. FIELD CHARACTERIZATION SHOWED THAT THE ASH LIMITS WERE WITHIN (SMALLER THAN) THE HISTORIC ASH POND BOUNDARY.
4. ASH REMOVAL FROM UNDER AND AROUND THE 115-KV SWITCHYARD, TRANSMISSION TOWERS, AND GUY WIRES WOULD JEOPARDIZE THEIR STRUCTURAL STABILITY AND SAFE OPERATION. GPC WILL LEAVE THIS ASH IN PLACE TO MAINTAIN A 15-FOOT OFFSET MUST BE MAINTAINED FROM THE 115-KV SWITCHYARD, A 25-FOOT OFFSET MUST BE MAINTAINED AROUND TRANSMISSION STRUCTURES.

SURVEY REQUIREMENTS:

1. SURVEYING SHALL BE TIED TO GEORGIA POWER COMPANY CONTROL MARKERS E-047-13 OR E-047-7 AS SHOWN ON DRAWING 3, PROPERTY BOUNDARY SURVEY AND LEGAL DESCRIPTION.
2. GEORGIA POWER COMPANY CONTROL MARKER E-047-7 IS LOCATED WITHIN CLOSE PROXIMITY TO THE PROPOSED ASH EXCAVATION IN ASH POND A, AND SHALL BE PROTECTED AND MAINTAINED FUNCTIONAL DURING ASH EXCAVATION AND FINAL RESTORATION.

EARTHWORK NOTES

1. ACCEPTABLE CLASSIFICATIONS FOR SOIL MATERIALS USED FOR EARTHEN FILL ARE SAND (SW, SP, SM, SC) SILT (ML OR MH), OR CLAY (CL OR CH) UNDER THE UNIFIED SOIL CLASSIFICATION SYSTEM. UNACCEPTABLE CLASSIFICATIONS ARE PEAT (PT) OR ORGANIC SILT OR CLAY (LO OR OH). EARTHEN FILL SHALL BE DEFINED AS SOIL MATERIALS EITHER FROM THE EXISTING ASH POND DAMS OR FROM ONSITE OR OFFSITE BORROW SOURCES.
2. EARTHEN FILL WILL BE USED AS PART OF THE RESTORATION GRADING PLAN AND AS STORMWATER DIVERSION MEASURES AND SHALL BE FREE OF ORGANIC DEBRIS, TRASH, ASH OR OTHER DELETERIOUS MATERIALS UNLESS OTHERWISE APPROVED BY THE OWNER.

## REFERENCES

1. EXISTING TOPOGRAPHIC INFORMATION WAS PRODUCED FROM PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY OBTAINED ON APRIL 21, 2014 BY METRO ENGINEERING AND SURVEYING CO. INC.
2. TOPOGRAPHIC SURVEY WITHIN THE ASH POND LIMITS WAS COMPLETED BY GROUND SURVEY ON SEPTEMBER 26, 2017 BY EMC ENGINEERING.
3. STREAMS AND WETLANDS DELINEATED BY ECOLOGICAL SOLUTIONS FROM SEPTEMBER 19 TO 21, 2017 AND BASED ON OCTOBER 27, 2017 REPORT.
4. CONE PENETRATION TEST (CPT) AND STANDARD PENETRATION TEST (SPT) PERFORMED IN 2017 BY AMEC FOSTER WHEELER.
5. TOPOGRAPHIC SURVEY AROUND THE SOUTHWEST PORTION OF THE PROPERTY AND EXTENDING TO THE FLINT RIVER WAS COMPLETED BY GROUND SURVEY ON JUNE 7, 2018 BY WOOD.



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ASH PONDS A, 1, AND 2  
CLOSURE-BY-REMOVAL  
MITCHELL AND DOUGHERTY  
COUNTIES, GEORGIA

PROJECT NO. 6123-20-1571

[illegible]

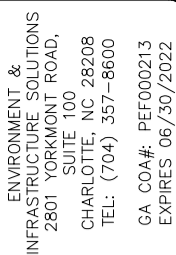
DESIGNED BY:	J. WRONA
DRAWN BY:	A. EZE
CHECKED BY:	K. DALY
APPROVED BY:	K. DALY
DATE:	04/26/2022

SHEET TITLE:

### LEGEND AND NOTES

SHEET NUMBER:	REV. #
2	0
SHEET 2 OF 25 SHEETS	





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# PLANT MITCHELL CCR SURFACE IMPOUNDMENT CLOSURES

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PROJECT NO. 6123-20-1571

[illegible]

DESIGNED BY:	J. WRONA
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OWN BY:	A. EZE
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APPROVED BY:	N. DALY
APPROVED BY:	K. DALY

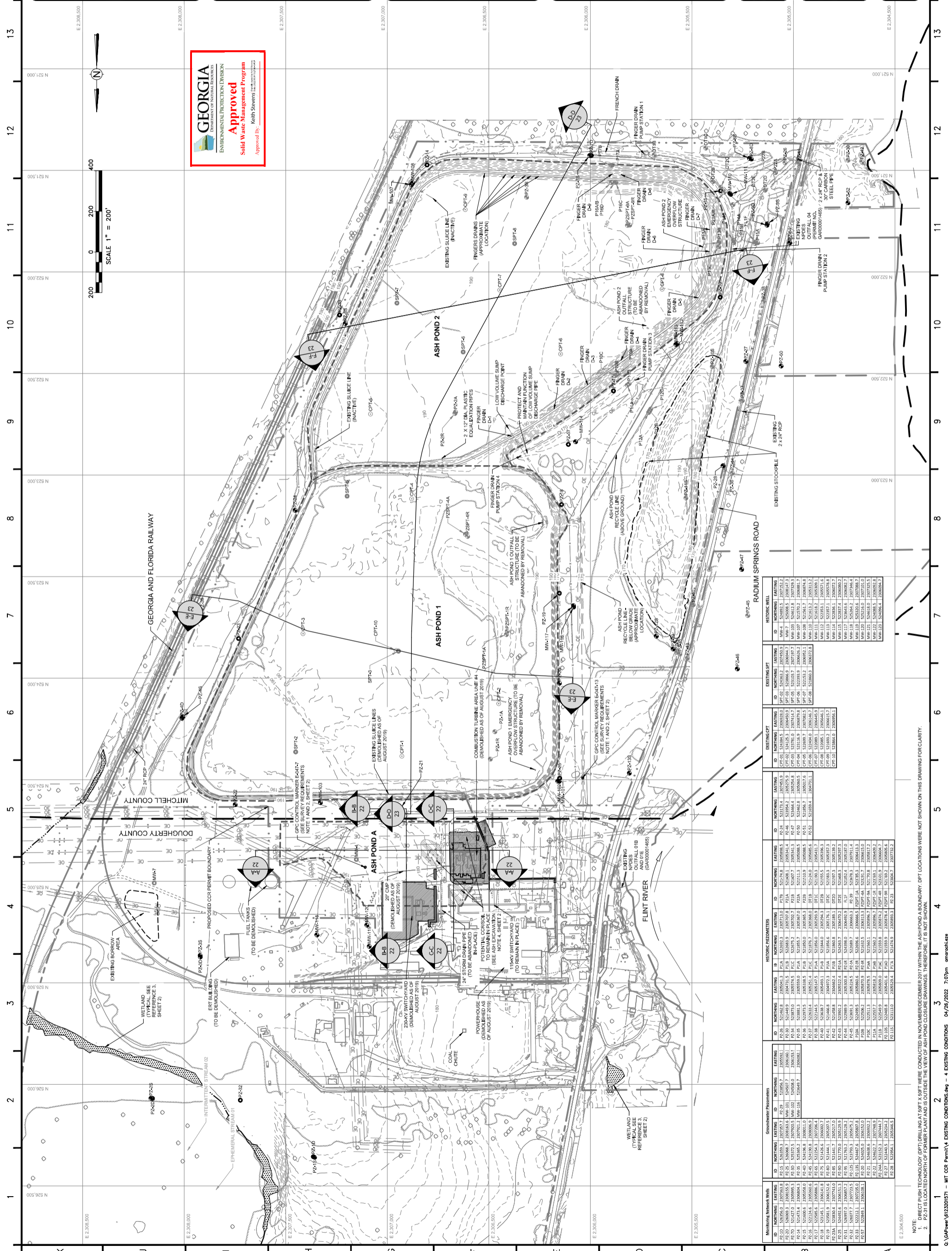
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SHEET 4 OF 25 SHEETS

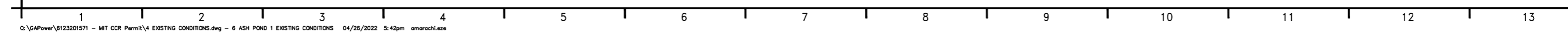


NOTE:  
1 DIRECT PISH TECHNOLOGY (OPT) DRILLING AT 50FEET X 50FEET WERE CONDUCTED IN NOVEMBER/DECEMBER 2017 WITHIN THE ASH POND A BOUNDARY OPT LOCATIONS WERE NOT SHOWN ON THIS DRAWING FOR CLARITY

2. PZ-31 IS LOCATED NORTH OF FORMER PLANT AND IS OUTSIDE THE VIEW OF ASH POND CLOSURE DRAWINGS. THEREFORE, IT IS NOT SHOWN.

Q: \GAPower\6123201571 - MIT CCR Permit\4 EXISTING CONDITIONS.dwg - 4 EXISTING CONDITIONS 04/26/2022 7:07pm amarachi.eze





SHEET NUMBER:	REV. #
6	0
SHEET 6 OF 25 SHEETS	

 **GEORGIA**  
DEPARTMENT OF NATURAL RESOURCES

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ENVIRONMENTAL PROTECTION DIVISION

**Approved**

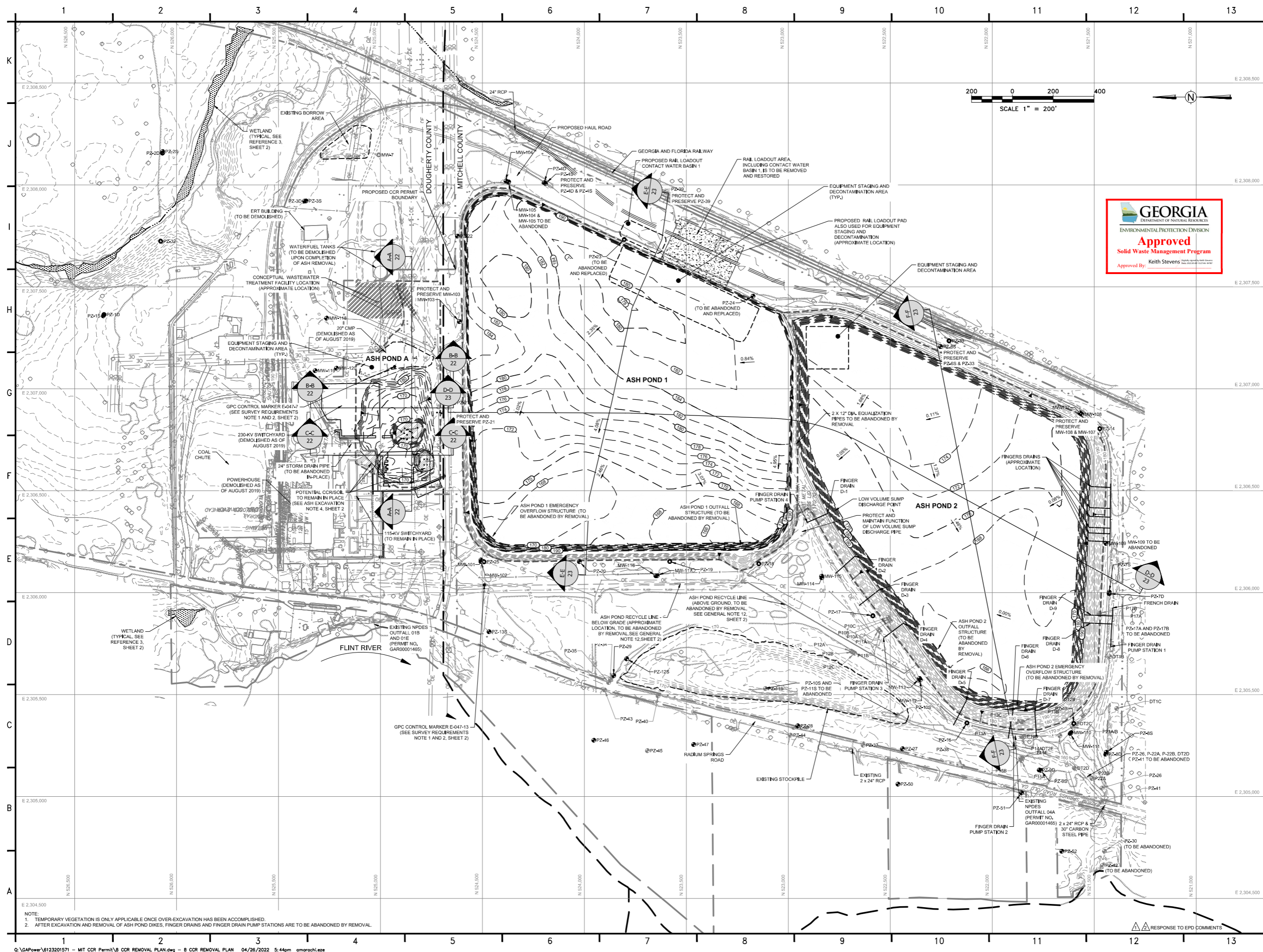
**Solid Waste Management Program**

Digitally signed by Keith Stevens  
Date: 2012.05.09 15:27:46 -0400

Approved By: Keith Stevens

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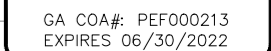
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9	0
SHEET 9 OF 25 SHEETS	





SHEET NUMBER:	REV. #
11	0
SHEET 11 OF 25 SHEETS	





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PLANT MITCHELL CCR  
SURFACE IMPOUNDMENT  
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DATE:	04/26/2022

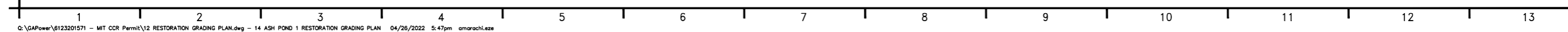
SHEET TITLE:

RESTORATION  
GRADING PLAN

SHEET NUMBER:		REV. #	
12		0	
SHEET	12	OF	25 SHEETS

1 2 RESPONSE TO EPD COMMENT



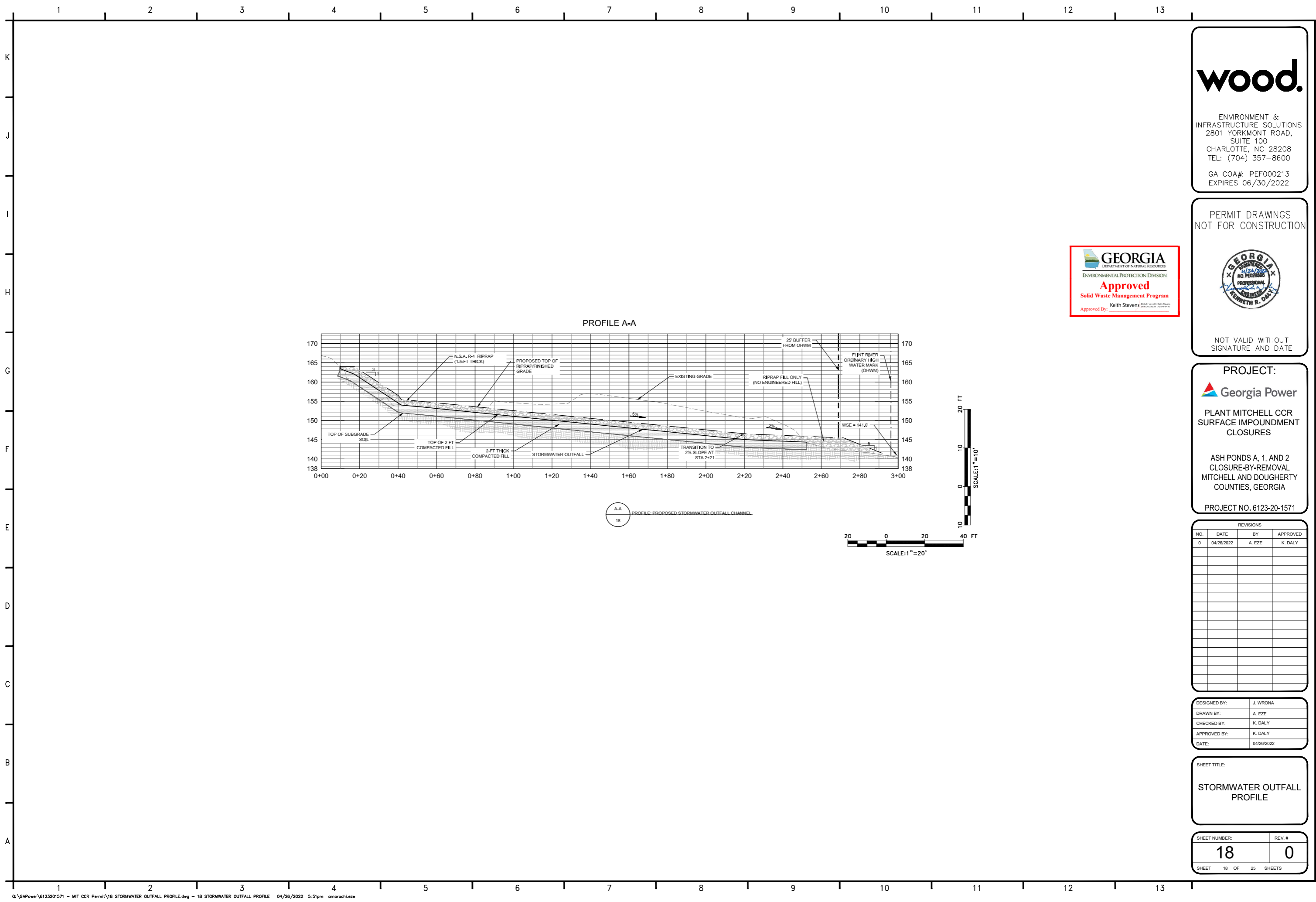


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14	0
SHEET 14 OF 25 SHEETS	









GA COA#: PEF000213  
EXPIRES 06/30/2022

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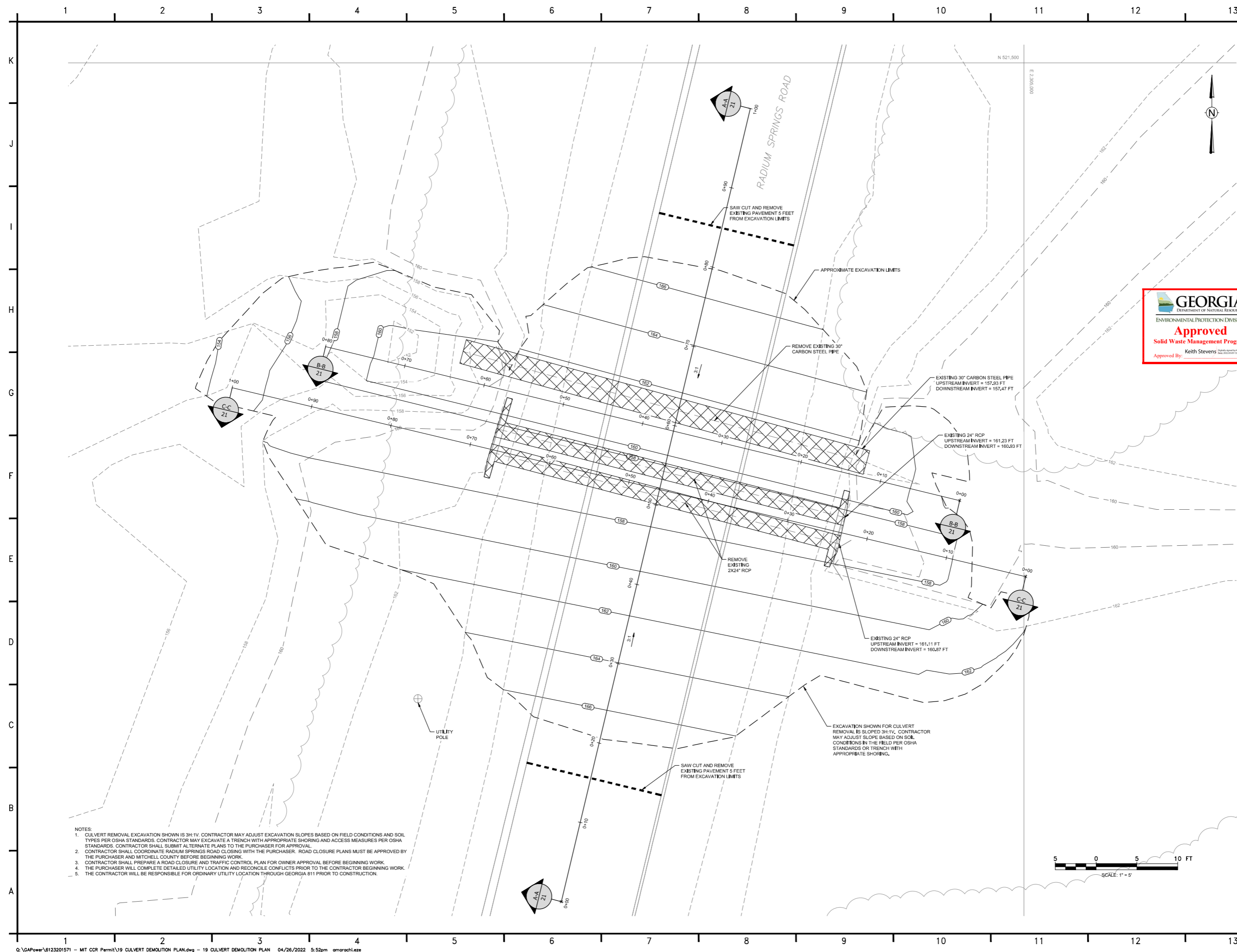
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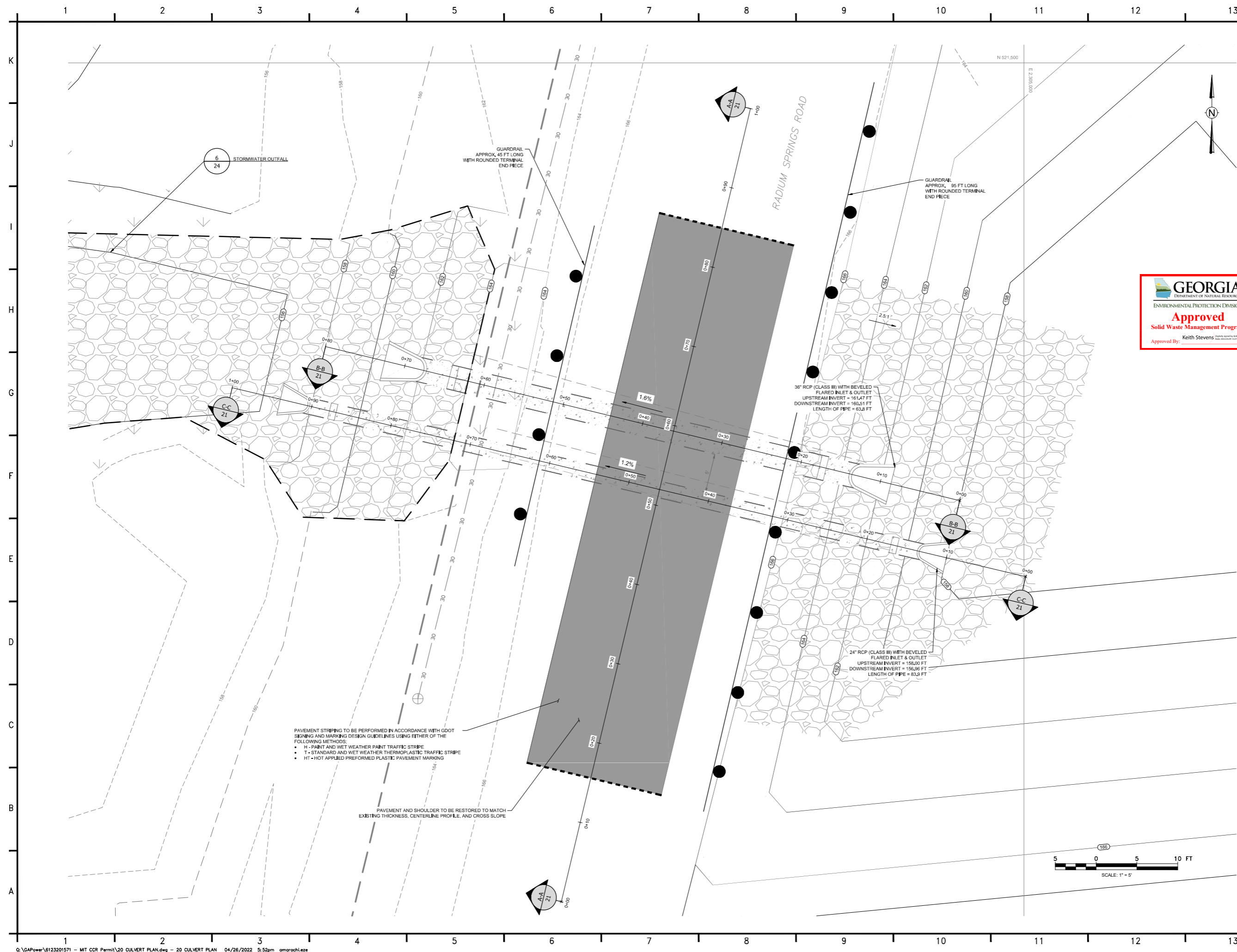
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## STORMWATER OUTFALL PROFILE

SHEET NUMBER:		REV. #	
18		0	
SHEET	18	OF	25 SHEETS



SHEET NUMBER:	REV. #
19	0
SHEET 19 OF 25 SHEETS	



**wood.**

ENVIRONMENT &  
INFRASTRUCTURE SOLUTIONS  
2801 YORKMONT ROAD,  
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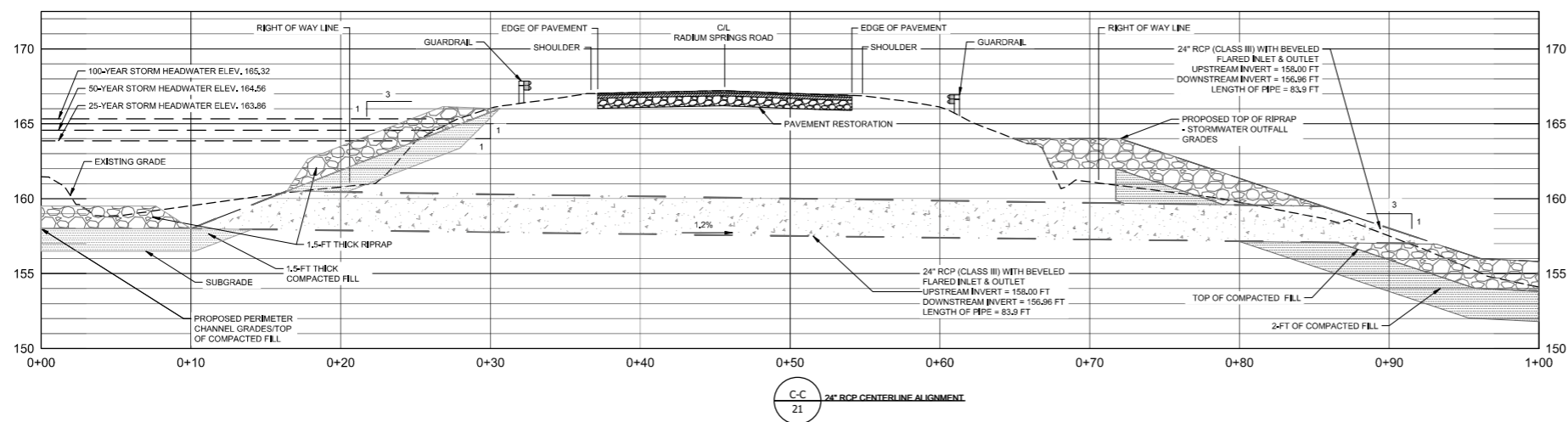
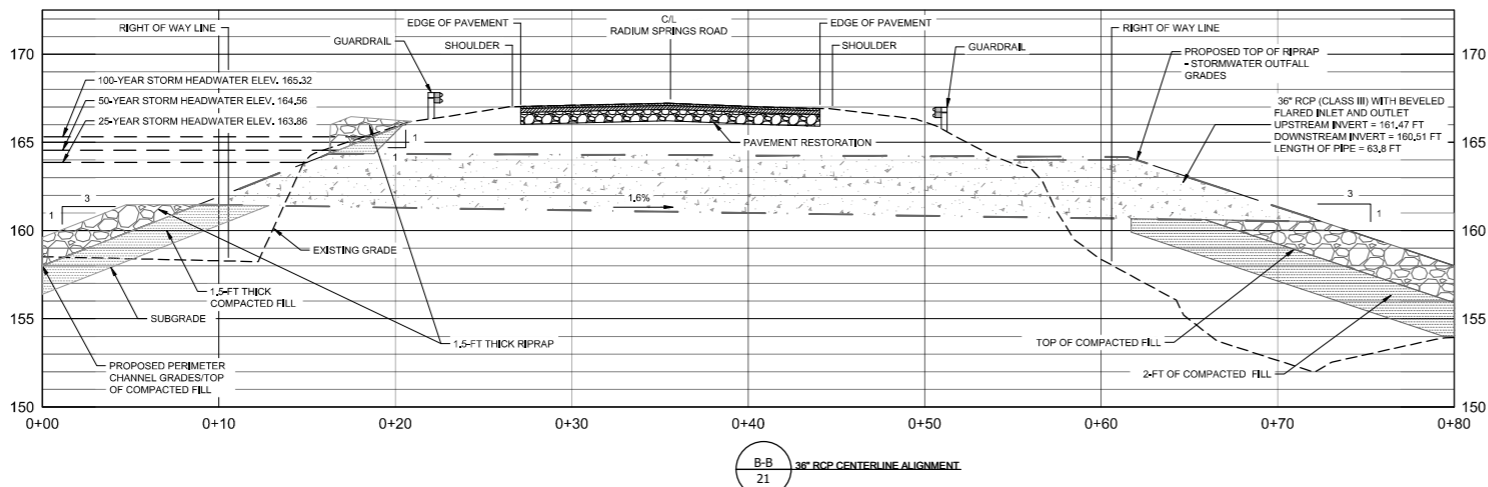
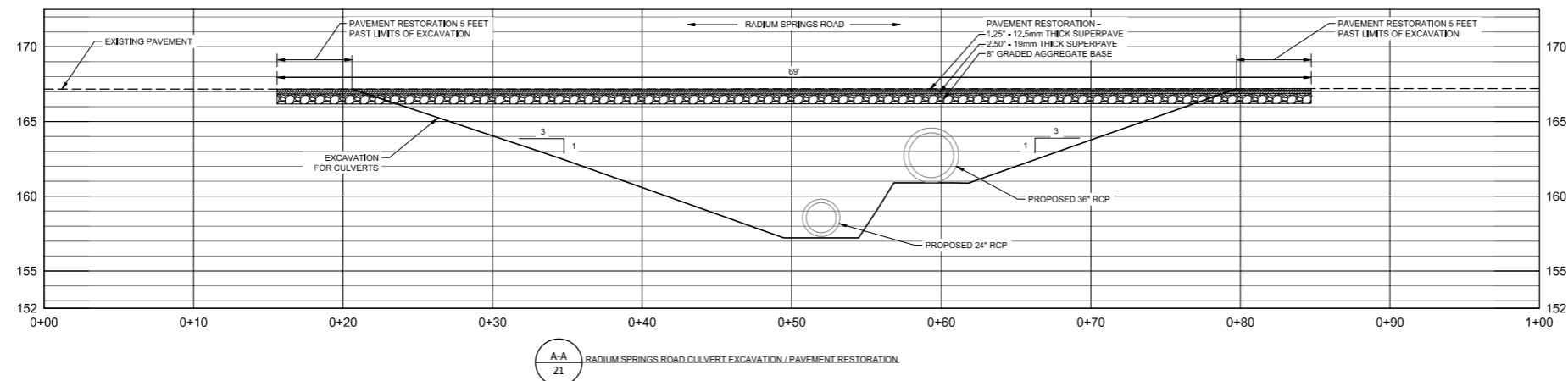
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### CULVERT PLAN

SHEET NUMBER:	REV. #
20	0
SHEET 20 OF 25 SHEETS	



NOTES:

1. CULVERT REMOVAL EXCAVATION SHOWN IS 3H:1V. CONTRACTOR MAY ADJUST EXCAVATION SLOPES BASED ON FIELD CONDITIONS AND SOIL TYPES PER OSHA STANDARDS. CONTRACTOR MAY EXCAVATE A TRENCH WITH APPROPRIATE SHORING AND ACCESS MEASURES PER OSHA STANDARDS. CONTRACTOR SHALL SUBMIT ALTERNATE PLANS TO THE PURCHASER FOR APPROVAL.
2. THE PURCHASER WILL COMPLETE DETAILED UTILITY LOCATION AND RECONCILE CONFLICTS PRIOR TO THE CONTRACTOR BEGINNING WORK.
3. THE CONTRACTOR WILL BE RESPONSIBLE FOR ORDINARY UTILITY LOCATION THROUGH GEORGIA 811 PRIOR TO CONSTRUCTION.



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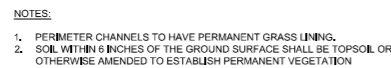
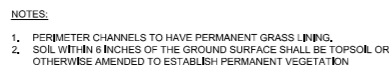
### CULVERT PROFILE

SHEET NUMBER:	REV. #
21	0
SHEET 21 OF 25 SHEETS	





Channel ID	Channel Type	Bottom Width (b) (ft)	Depth (D) (ft)	Left Side Slope (Z <sub>L</sub> :H:V)	Right Side Slope (Z <sub>R</sub> :H:V)	Top Width (T) (ft)	Length (L) (ft)	Longitudinal Slope (S) (ft/ft)
CD-1	Collector	2	2	10	10	42	157	0.0064
CD-2	Collector	2	2	10	10	42	202	0.0198
CD-3	Collector	2	2	10	10	42	142	0.0352
CD-4	Collector	2	2	10	10	42	66	0.0303
CD-5	Collector	2	2	10	10	42	58	0.0345
CD-6	Collector	2	2	10	10	42	89	0.0169
CD-7	Collector	2	2	10	10	42	238	0.0126
CD-8	Collector	2	2	10	10	42	758	0.0053
CD-9	Collector	2	2	10	10	42	502	0.0060
CD-10	Collector	2	2	10	10	42	158	0.0127
CD-11	Collector	2	2	10	10	42	173	0.0058
CD-12	Collector	2	2	10	10	42	96	0.0188
CD-13	Collector	2	2	10	10	42	135	0.0156
CD-14	Collector	2	2	10	10	42	156	0.0135
CD-15	Collector	2	2	10	10	42	280	0.0068
CD-16	Collector	2	2	10	10	42	194	0.0052
CD-17	Collector	2	2	10	10	42	226	0.0066
CD-18	Collector	2	2	10	10	42	553	0.0063
CD-19	Collector	2	2	10	10	42	1741	0.0046
CD-20	Collector	2	2	10	10	42	372	0.0108
CD-21	Collector	2	2	10	10	42	378	0.0103



ENVIRONMENT &  
INFRASTRUCTURE SOLUTIONS  
2801 YORKMONT ROAD,  
SUITE 100  
CHARLOTTE, NC 28208  
TEL: (704) 357-8600

PERMIT DRAWINGS  
NOT FOR CONSTRUCTION



NOT VALID WITHOUT  
SIGNATURE AND DATE



Georgia Power

ASH PONDS A, 1, AND 2  
CLOSURE-BY-REMOVAL  
MITCHELL AND DOUGHERTY  
COUNTIES, GEORGIA

PROJECT NO. 6123-20-1571

DESIGNED BY:	J. WRONA
DRAWN BY:	A. EZE
CHECKED BY:	K. DALY
APPROVED BY:	K. DALY
DATE:	04/26/2022

SHEET TITLE:

## DETAILS 1

SHEET NUMBER:	REV. #
24	0
SHEET 24 OF 25 SHEETS	

