

# CLOSURE DRAWINGS

## PLANT HAMMOND - GEORGIA POWER

### ASH POND 3 (AP-3)

# INACTIVE CCR SURFACE IMPOUNDMENT

## FLOYD COUNTY, GEORGIA

PREPARED FOR  
**GEORGIA POWER**

PREPARED BY

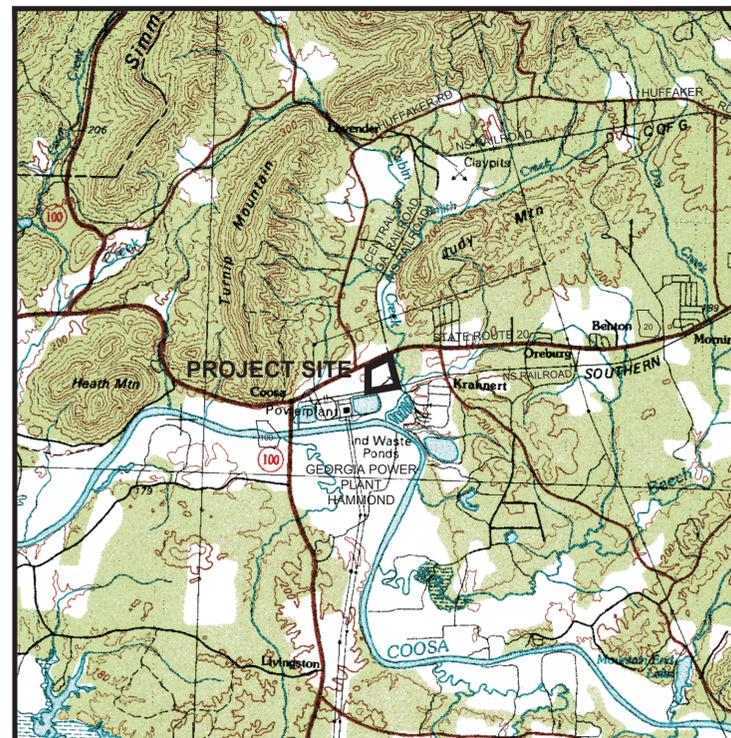


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P467-3 1 OF 2	PLANT HAMMOND ASH POND 3 PERMITTED SITE BOUNDARY
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RESPONSIBLE OFFICIAL  
GENERAL MANAGER  
GEORGIA POWER ENVIRONMENTAL AFFAIRS  
241 RALPH MCGILL BLVD NE  
ATLANTA, GEORGIA 30308  
404-506-6505

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



**SITE LOCATION MAP**  
SCALE: 1"=5000'



**LOCATION MAP**  
NOT TO SCALE



COVER SHEET			
<b>CLOSURE DRAWINGS</b>			
FOR			
PLANT HAMMOND - GEORGIA POWER			
ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT			
FLOYD COUNTY, GEORGIA			
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com			
PROJ. NO.	175618707	DWG.	01_18707C-001-CVR
SCALE	AS SHOWN	EDIT	MM/DD/YY
DATE	MAY 2021	<b>SHEET 1</b>	

PLOT DATE: 04/29/2021 USER: SAMS, BRIAN U:\175618707\TECHNICAL\_PRODUCTION\_DRAWING\SHEET\_FILES\ASH\_POND\_3\PERMIT\000\SUB\_01\_18707C-001-CVR.DWG

**ABBREVIATIONS:**

A.S.T.M. AMERICAN SOCIETY OF TESTING MATERIALS  
 A.A.S.H.T.O. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS  
 B.C.C.M. BITUMINOUS COATED CORRUGATED METAL PIPE  
 BMP'S BEST MANAGEMENT PRACTICES  
 BOT. BOTTOM  
 B.O.P. BOTTOM OF PIPE  
 C/C CENTER TO CENTER  
 C.F. CUBIC FEET  
 C CENTERLINE  
 CM CENTIMETER  
 CL CLASS (OF PIPE)  
 CLR CLEAR  
 CONG. CONCRETE  
 CONT. CONTINUOUS  
 C.M.P. CORRUGATED METAL PIPE  
 C.P.V.C. CORRUGATED POLYVINYL CHLORIDE PIPE  
 X-SLOPE CROSS SLOPE  
 C & G CURB & GUTTER  
 D.I. DROP INLET  
 DIA. DIAMETER  
 DT. DITCH  
 DR DIMENSION RATIO  
 DWG. DRAWING  
 e DISTANCE FROM P.V.I. TO V.C. @ P.V.I.  
 D.I.P. DUCTILE IRON PIPE  
 D.O.T. DEPARTMENT OF TRANSPORTATION  
 E.W. EACH WAY  
 E.O.P. EDGE OF PAVEMENT  
 EL. ELEVATION  
 F/C FACE OF CURB  
 F.F. FINISH FLOOR  
 F.E.S. FLARED END SECTION  
 F.B. FLAT BOTTOM DITCH  
 F.H. FIRE HYDRANT  
 FT. FEET  
 G.C.M.P. GALVANIZED CORRUGATED METAL PIPE  
 GCL GEOSYNTHETIC CLAY LAYER  
 GPC, GPCO GEORGIA POWER COMPANY  
 GR. GRADE  
 GRD. BRK. GRADE BREAK  
 G.A.B. GRADED AGGREGATE BASE  
 G.I. GRATE INLET  
 H.D.P.E. HIGH DENSITY POLYETHYLENE PIPE  
 H.P. HIGH POINT  
 I.E. INVERT ELEVATION  
 J.B. JUNCTION BOX  
 K PERMEABILITY  
 L.C.R.S. LEACHATE COLLECTION & RECOVERY SYSTEM  
 L.O.D. LIMITS OF DISTURBANCE  
 LB. POUND  
 L.F. LINEAR FEET  
 N.T.S. NOT TO SCALE  
 L.P. LOW POINT  
 M.H. MANHOLE  
 MAX. MAXIMUM  
 MIN. MINIMUM  
 O.C. ON CENTER  
 O.D. OUTSIDE DIAMETER  
 O.F.B. OUTSIDE FACE OF BUILDING  
 OZ. OUNCE  
 P.V.D. PAVED  
 PERE. PERFORATED  
 P.I. POINT OF INTERSECTION  
 P.I.V. POST INDICATOR VALVE  
 P.C. POINT OF CURVE  
 P.S. POINT OF SWITCH  
 P.S.I. POUND PER SQUARE INCH  
 P.T. POINT OF TANGENT  
 P.V.I. POINT OF VERTICAL INTERSECTION  
 P.V.C. POINT OF VERTICAL CURVE  
 P.V.T. POINT OF VERTICAL TANGENT  
 P.V.C. POLYVINYL CHLORIDE PIPE  
 P.S.I. POUNDS PER SQUARE INCH  
 P.S.F. POUNDS PER SQUARE FOOT  
 P.P. POWER POLE  
 R.O.W. RIGHT OF WAY  
 PCM PROJECT CONSTRUCTION MANAGER  
 P PROPERTY LINE  
 R RADIUS  
 R.C.A.P. REINFORCED CONCRETE ARCH PIPE  
 R.C.P. REINFORCED CONCRETE PIPE  
 REF. REFERENCE  
 REQ'D. REQUIRED  
 REV. REVISION  
 RD. ROAD  
 SCH. SCHEDULE  
 SHLD. SHOULDER  
 SHT. SHEET  
 S.S. SIDE SLOPE  
 SQ. SQUARE  
 STD. STANDARD  
 T & B TOP AND BOTTOM  
 T/C TOP OF CURB  
 T.O.P. TOP OF PIPE  
 T/R TOP OF RAIL  
 TYP. TYPICAL  
 V.G. VALLEY GUTTER  
 V.C. VERTICAL CURVE  
 W/ WITH  
 W.P. WORK POINT

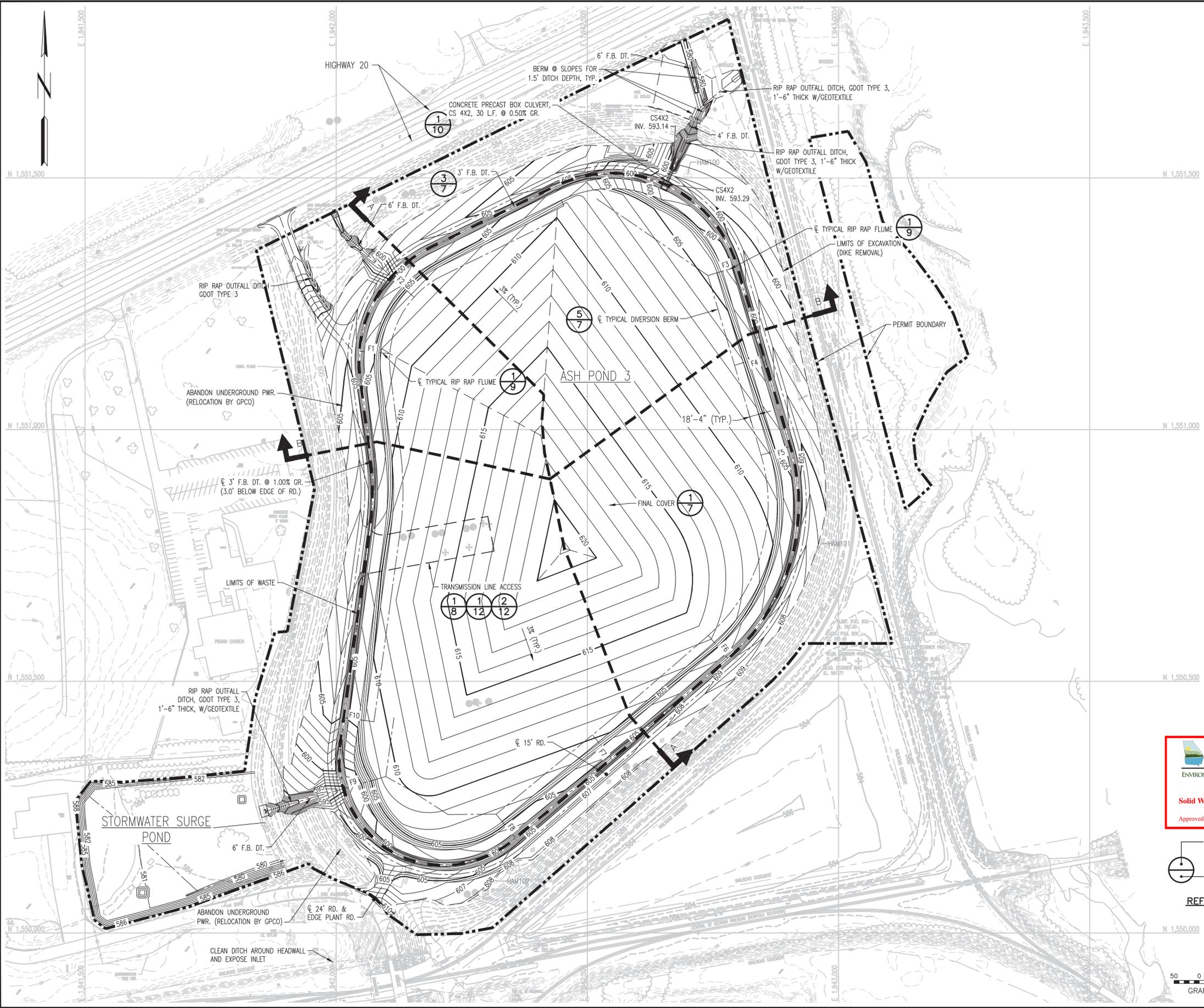
**GENERAL NOTES**

- PROJECT GRID IS GEORGIA STATE PLANE GRID, NAD 83, WEST ZONE.
- 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 SHALL BE DESIGNED, 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.
- STORM WATER 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.
- 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 SOLID WASTE MANAGEMENT BRANCH SHALL BE NOTIFIED WHEN GPC ENVIRONMENTAL AFFAIRS APPLIES FOR A STATE WATERS BUFFER VARIANCE. CONTACT GPC ENVIRONMENTAL AFFAIRS FOR ASSISTANCE.
- 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 LIMITS OF DISTURBANCE, STATE WATER BUFFERS, STATE WATERS AND WETLANDS OUTSIDE THE LIMITS OF DISTURBANCE TO PREVENT HEAVY EQUIPMENT ENCROACHMENT INTO THESE AREAS.
- THE GRADE CONTOURS SHOWN IN THE ASH POND, AGGREGATE ROADS, DITCHES, AND AT EXTERIOR SLOPES ARE FINAL GRADE ELEVATIONS. APPROPRIATE SOIL, CLAY, ROCK, ETC. THICKNESSES SHALL BE APPLIED TO CALCULATE SUBGRADE ELEVATIONS.
- GPC SHALL PROVIDE DESIGNATED ACCESS ROUTE/DIRECTIONS ACROSS THE PLANT PROPERTY.
- EXISTING ACCESS AND PLANT ROADS SHALL BE MAINTAINED AND REPAIRED AS NECESSARY DURING CONSTRUCTION.
- ALL DEWATERING, SURFACE WATER RUNOFF CONTROL, PROVISIONS FOR DRAINAGE FOR EXCAVATIONS, AND FOR THE PLACEMENT OF MATERIALS SHALL BE PLANNED AND OPERATED BASED ON CONSTRUCTION NEEDS.
- ALL WORK SHALL BE IN COMPLIANCE WITH CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS. ALL SHORING/CRIBBING REQUIRED FOR INSTALLATION OF PIPES AND APPURTENANCES INCLUDING ANY DEEP EXCAVATIONS REQUIRE AN ENGINEER'S DESIGN.
- STAGING AREAS AND EQUIPMENT MAINTENANCE AREAS SHALL BE LOCATED AT LEAST 200 FEET FROM STREAM BANKS TO MINIMIZE THE POTENTIAL FOR WASH WATER, PETROLEUM PRODUCTS, OR OTHER CONTAMINANTS FROM CONSTRUCTION EQUIPMENT ENTERING THE STREAMS.
- CONSTRUCTION DEBRIS, FLOWABLE FILL, OLD SUPPORT MATERIALS OR OTHER REFUSE SHALL NOT BE PLACED IN STREAMS OR IN AREAS WHERE MIGRATION INTO STREAMS AND/OR WETLANDS COULD REASONABLY BE EXPECTED.
- THE CLEAN-UP OF ALL ON-SITE DITCHES, PIPES, MANHOLES, INLETS, ETC. THAT RECEIVE STORMWATER RUNOFF FROM SITE CONSTRUCTION ACTIVITIES SHALL BE PERFORMED.



GENERAL NOTES			
<b>CLOSURE DRAWINGS</b> FOR <b>PLANT HAMMOND - GEORGIA POWER</b> <b>ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT</b> FLOYD COUNTY, GEORGIA			
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com			
PROJ. NO.	175618707	DWG.	02_18707C-001-GN1
SCALE	AS SHOWN	SHEET 2	
DATE	MAY 2021		

PLOT DATE: 06/19/2019 USER: SMC\_BRAW  
 (A:\15618707\TECHNICAL\_PRODUCTION\DRAWING\SHEET\_FILES\GSI\_VPERMIT\DDK\_POND\_3\PERMIT\DDK\_SBR\02\_18707C-001-GN1.DWG)

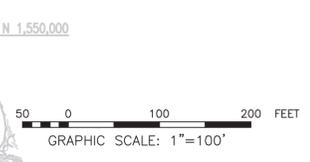
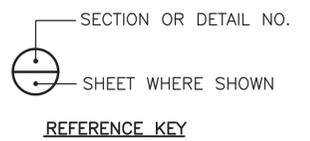


**MAPPING NOTE:**  
 TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM AN AERIAL SURVEY PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN DECEMBER 2012 SUPPLEMENTED WITH THE TOP SOIL SURVEY (BOILER POND) DRAWING BY HUGHES-RAY COMPANY, INC. DATED NOVEMBER 11, 2017, THE SURGE POND FINAL AS-BUILT MAP ASH POND 3 CLOSURE PROJECT DRAWING BY PHILLIPS & JORDAN DATED MARCH 6, 2018, AND TOPOGRAPHIC AERIAL AND BATHYMETRIC SURVEYS PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN JUNE 2018. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

**NOTES:**  
 1. NORFOLK SOUTHERN (NS) HAS BEEN GRANTED AN EASEMENT TO MAINTAIN THE RAILROAD TRACKS AROUND AP-3. APPROPRIATE NOTIFICATION AND COORDINATION WITH NS IS REQUIRED FOR ANY WORK WITHIN THE EASEMENT.

CONTROL MONUMENTS				
GA STATE PLANE NAD 83 WEST ZONE				
NAME	NORTHING	EASTING	ELEV	DESCRIPTION
HAM100	1551507.13	1942699.96	599.81	BRASS FITTING SET IN GROUTED PIPE
HAM101	1550748.19	1942951.03	607.25	BRASS FITTING SET IN GROUTED PIPE
HAM102	1550104.58	1942310.94	610.07	BRASS FITTING SET IN GROUTED PIPE

LEGEND	
---600---	EXISTING CONTOURS (MAJOR)
---590.0---	EXISTING CONTOURS (MINOR)
x 590.0	EXISTING SPOT ELEV.
~590.0	FINISH SPOT ELEV.
⊥	⊥ DITCHES
---	EXISTING ROADS/BUILDINGS
x	EXISTING FENCE
x	FENCE
---	PROPERTY LINE
~	EXISTING TREE LINE
---	STREAM
---	PERMIT BOUNDARY
---	GUY ANCHOR
---	EXISTING BUILDINGS
---	EXISTING UNDERGROUND UTILITIES/ PIPES
---	STORM PIPE
---	EXISTING STORM PIPE
---	GUARD RAIL
---	EXISTING POTABLE WATER
*	LIGHT POLE
○ GP	GUARDPOST
---	EXISTING UNDERGROUND ELEC. LINES
⊕	TEST WELL
⊗	TRANSMISSION TOWER
⊙	POWER POLE
●	TRANSMISSION BASE
---	LIMITS OF WASTE



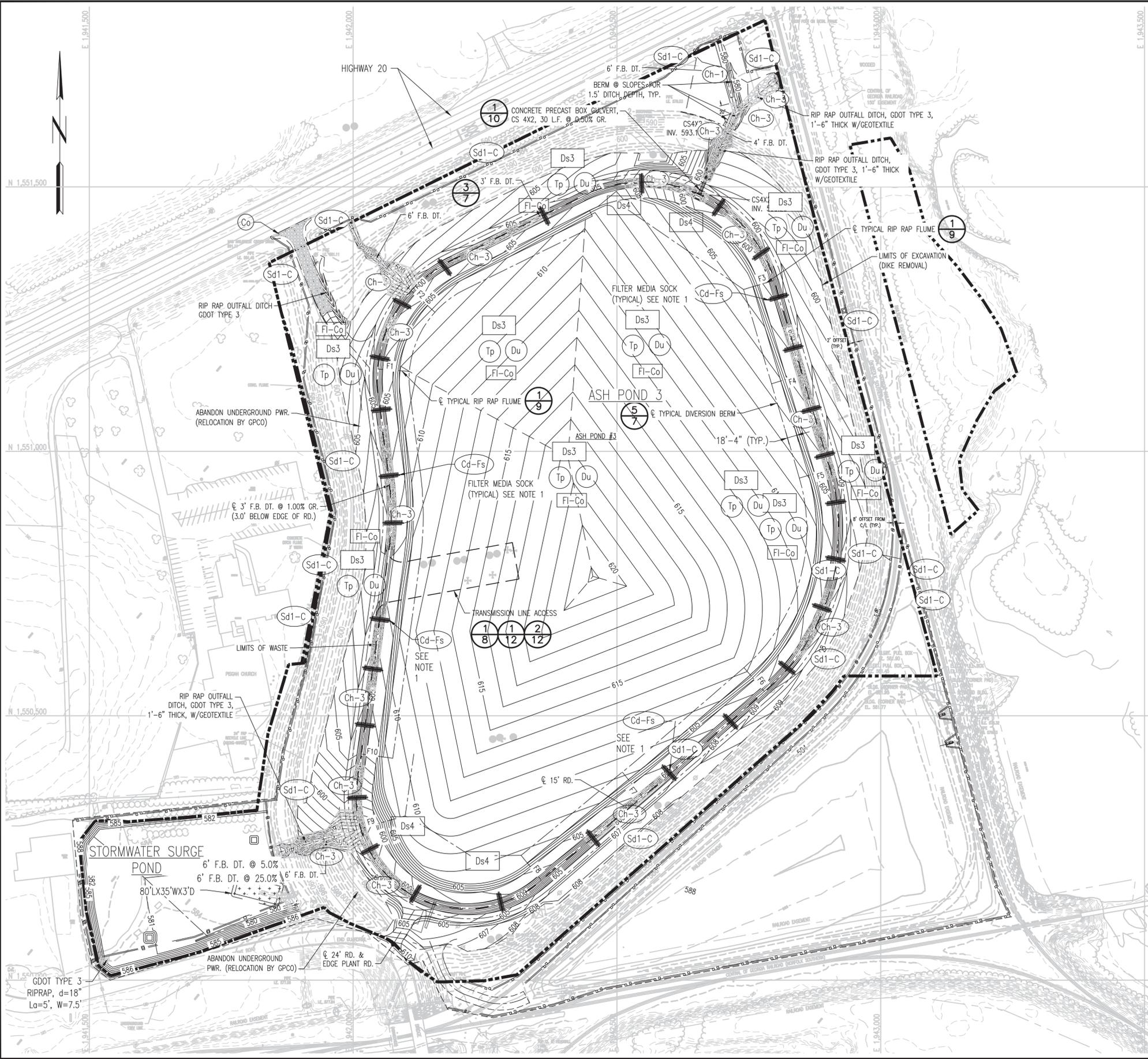
FINAL COVER GRADING PLAN  
**CLOSURE DRAWINGS**  
 FOR  
 PLANT HAMMOND - GEORGIA POWER  
 ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT  
 FLOYD COUNTY, GEORGIA

1110 Market Street, Suite 214A  
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SCALE	AS SHOWN				
DATE	MAY 2021				

**SHEET 3**

PLOT DATE: 04/29/2021 USER: BMD\_PJ  
 U:\175618707\TECHNICAL\PRODUCTION\DRAWING\SHEET\_FILES\03\_18707C-101-GOP.DWG



**LEGEND**

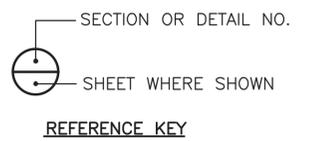
- -600 --- EXISTING CONTOURS (MAJOR)
- -590.0 --- EXISTING CONTOURS (MINOR)
- x 590.0 EXISTING SPOT ELEV.
- 590.0 FINISH SPOT ELEV.
- EXISTING ROADS/BUILDINGS
- x EXISTING FENCE
- x FENCE
- PROPERTY LINE
- EXISTING TREE LINE
- STREAM
- PERMIT BOUNDARY
- GUY ANCHOR
- EXISTING BUILDINGS
- EXISTING UNDERGROUND UTILITIES/ PIPES
- STORM PIPE
- EXISTING STORM PIPE
- GUARD RAIL
- EXISTING POTABLE WATER
- LIGHT POLE
- GP GUARDPOST
- EXISTING UNDERGROUND ELEC. LINES
- TEST WELL
- TRANSMISSION TOWER
- POWER POLE
- TRANSMISSION BASE
- LIMITS OF WASTE

**EROSION CONTROL LEGEND**

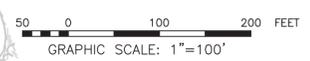
- Sd1-C SILT FENCE (DOUBLE ROW)
- Sd4-C TEMPORARY SEDIMENT TRAP
- Cd-S STONE CHECK DAM
- Co CONSTRUCTION EXIT
- St STORM DRAIN OUTLET PROTECTION
- Cd-Fs COMPOST SOCK
- Ch-1 CHANNEL STABILIZATION
- Ch-3 CHANNEL STABILIZATION
- Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
- Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)
- Tp TOPSOILING
- Du DUST CONTROL
- Fl-Co FLOCCULANTS AND COAGULANTS

**NOTES:**

1. FILTER MEDIA SOCK NOT REQUIRED AFTER RIP RAP INSTALLATION.



**REFERENCE KEY**



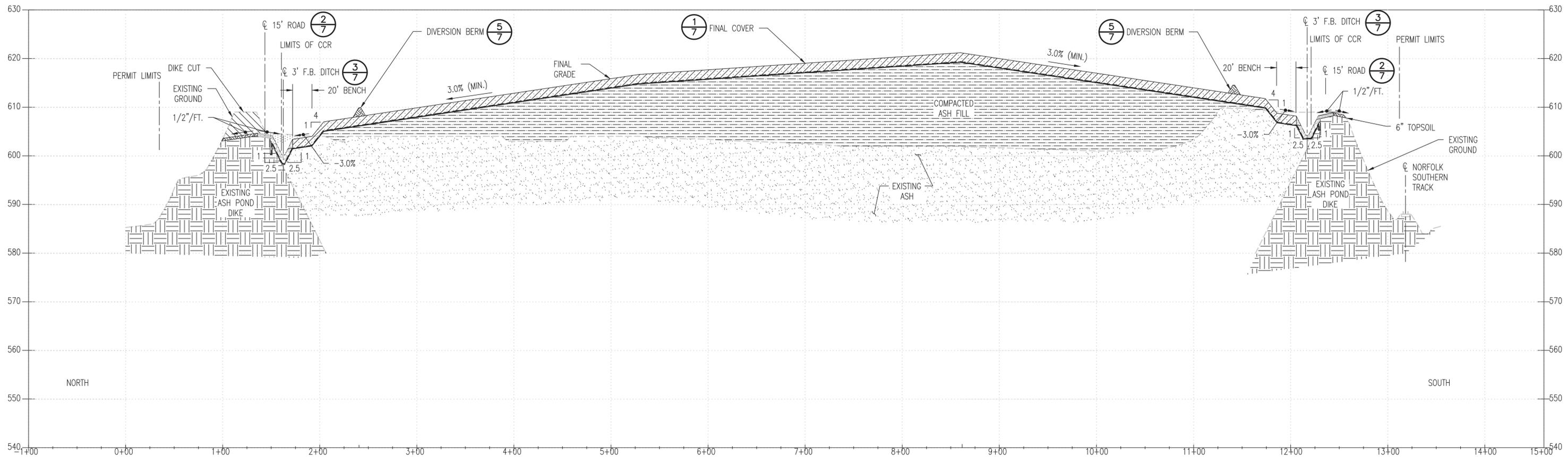
EROSION CONTROL PLAN

**CLOSURE DRAWINGS**  
FOR  
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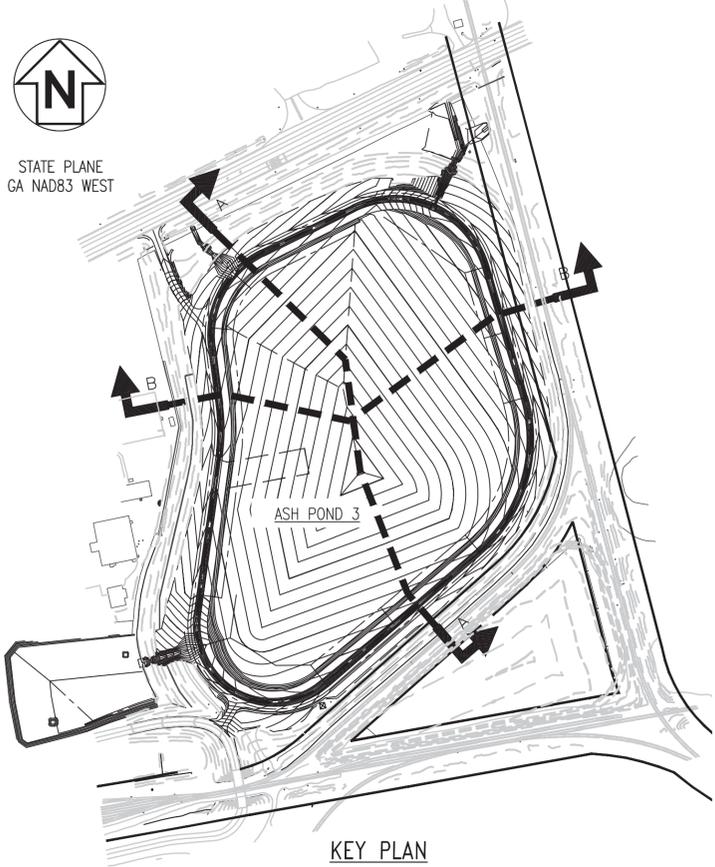
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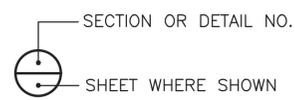
SECTION A-A  
NOT TO SCALE



STATE PLANE  
GA NAD83 WEST



KEY PLAN

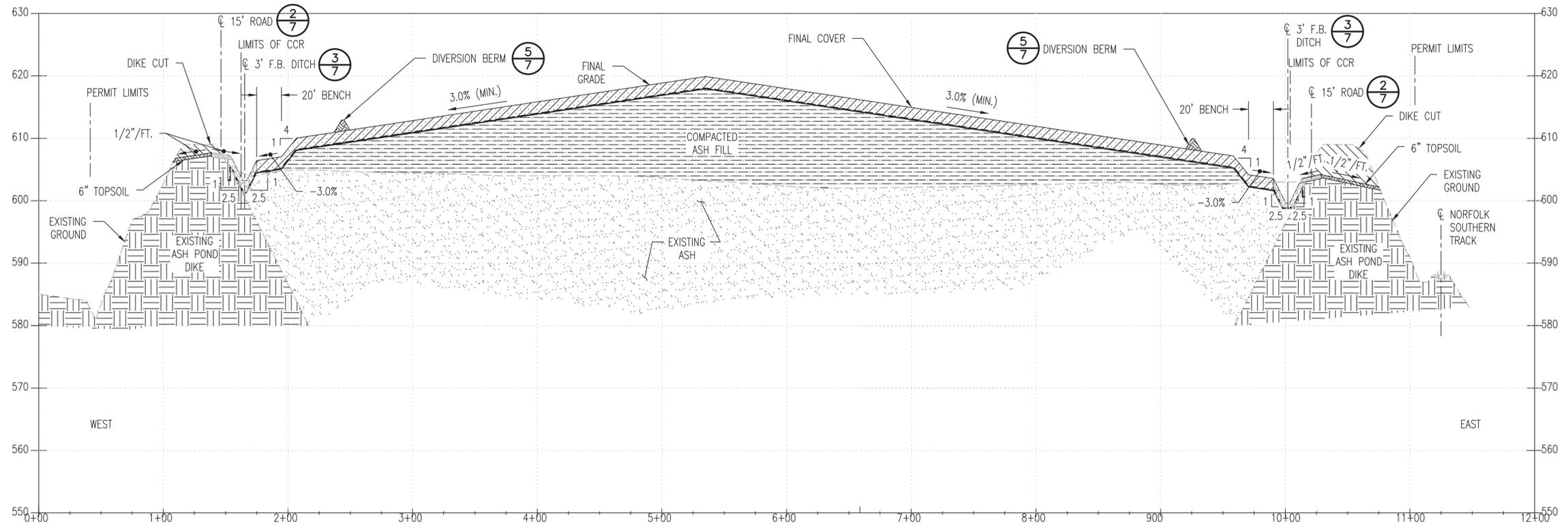


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SECTIONS		
<b>CLOSURE DRAWINGS</b>		
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SCALE	AS SHOWN	EDIT MM/DD/YY
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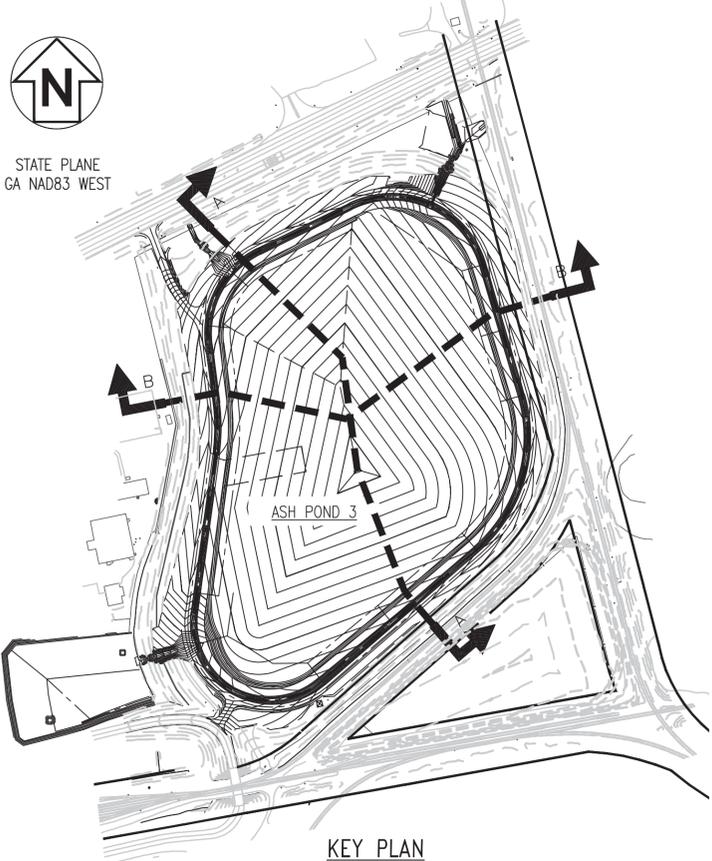
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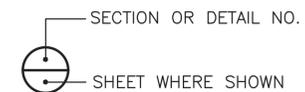
SECTION B-B  
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STATE PLANE  
GA NAD83 WEST



KEY PLAN

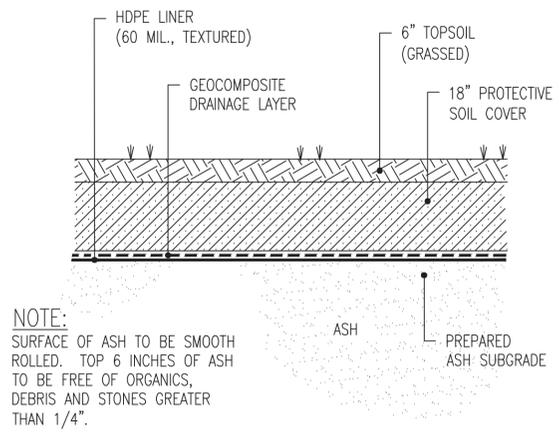


REFERENCE KEY

SECTIONS		
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SCALE	AS SHOWN	EDIT MM/DD/YY
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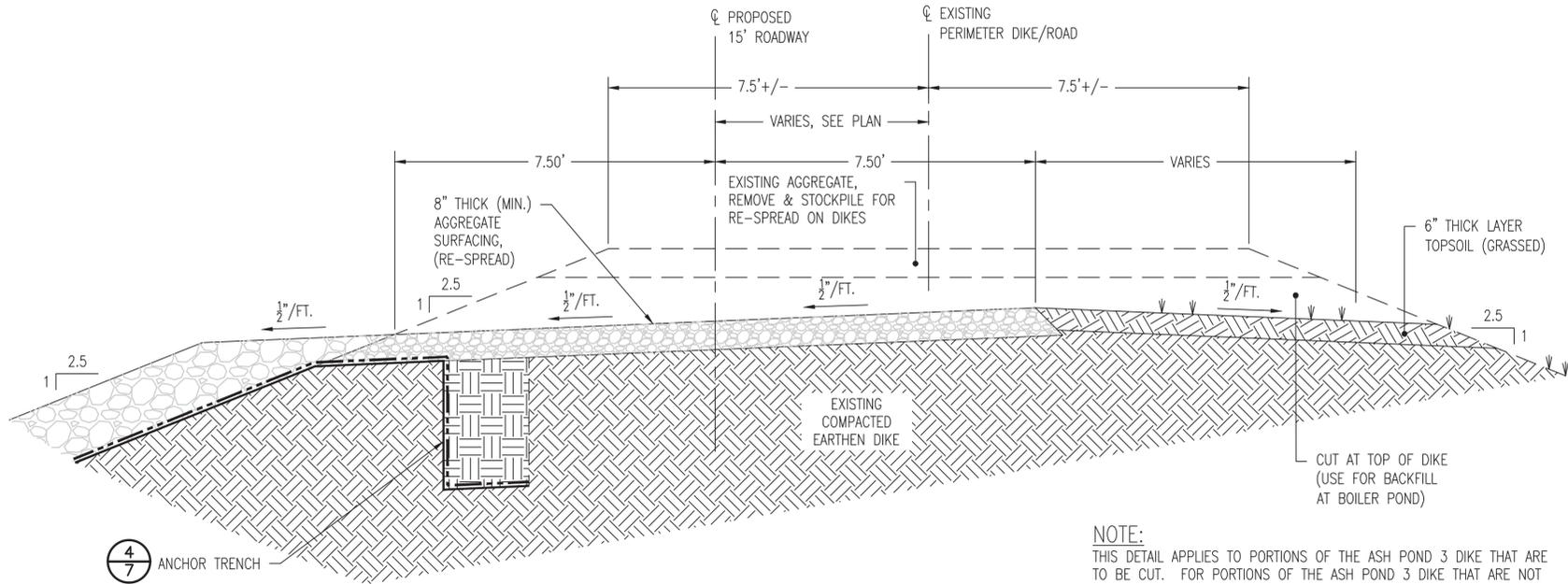


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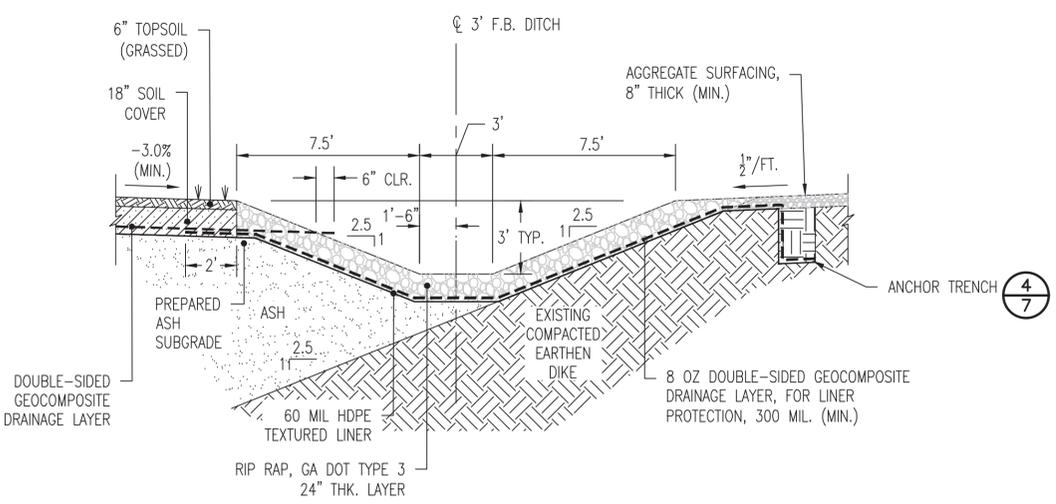
NOTE:  
SURFACE OF ASH TO BE SMOOTH ROLLED. TOP 6 INCHES OF ASH TO BE FREE OF ORGANICS, DEBRIS AND STONES GREATER THAN 1/4".

**1**  
**7** FINAL COVER TYPICAL DETAIL  
NOT TO SCALE

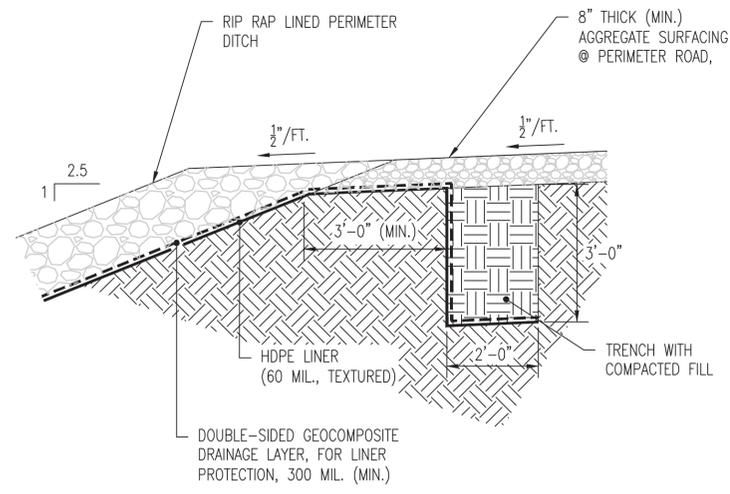


NOTE:  
THIS DETAIL APPLIES TO PORTIONS OF THE ASH POND 3 DIKE THAT ARE TO BE CUT. FOR PORTIONS OF THE ASH POND 3 DIKE THAT ARE NOT CUT, THE ROAD WILL BE CONSTRUCTED AS SHOWN IN THIS DETAIL.

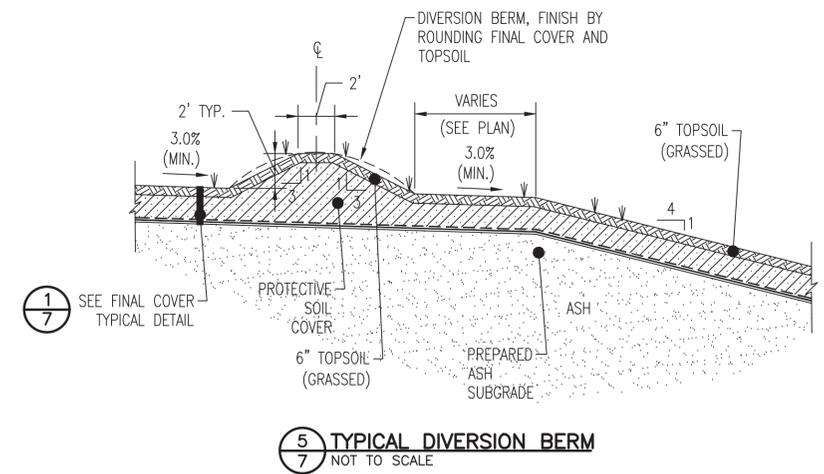
**2**  
**7** TYPICAL ROAD/DIKE CUT  
NOT TO SCALE



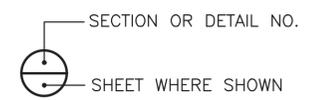
**3**  
**7** TYPICAL PERIMETER DITCH  
NOT TO SCALE



**4**  
**7** ANCHOR TRENCH TYPICAL DETAIL  
NOT TO SCALE



**5**  
**7** TYPICAL DIVERSION BERM  
NOT TO SCALE

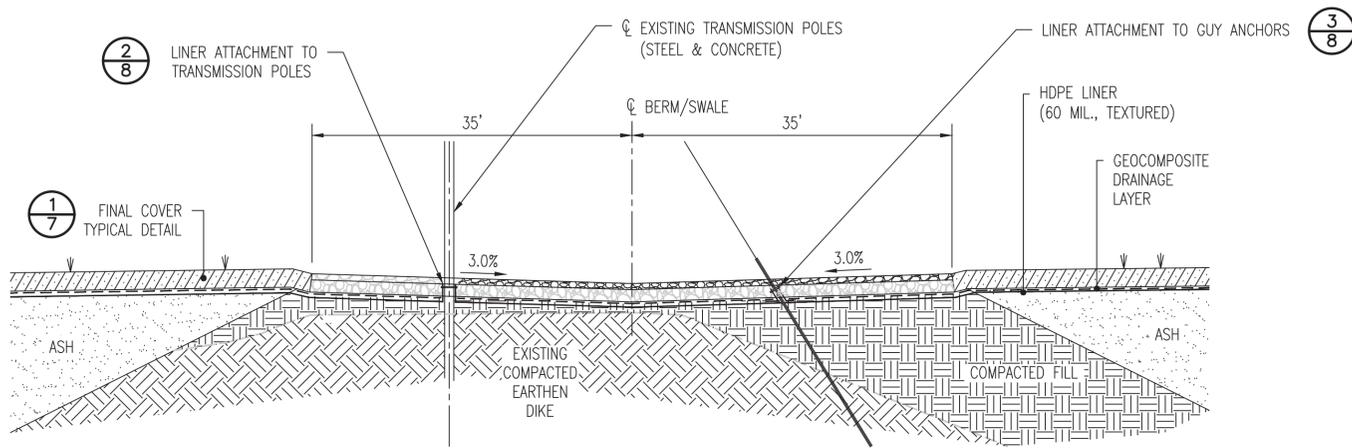


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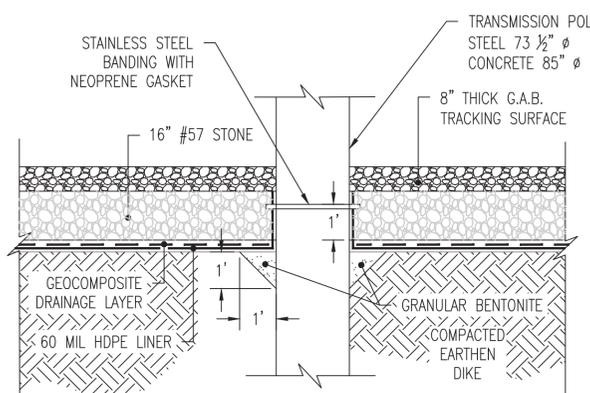
DETAILS			
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SCALE	AS SHOWN	DATE	MAY 2021
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		SHEET 7	



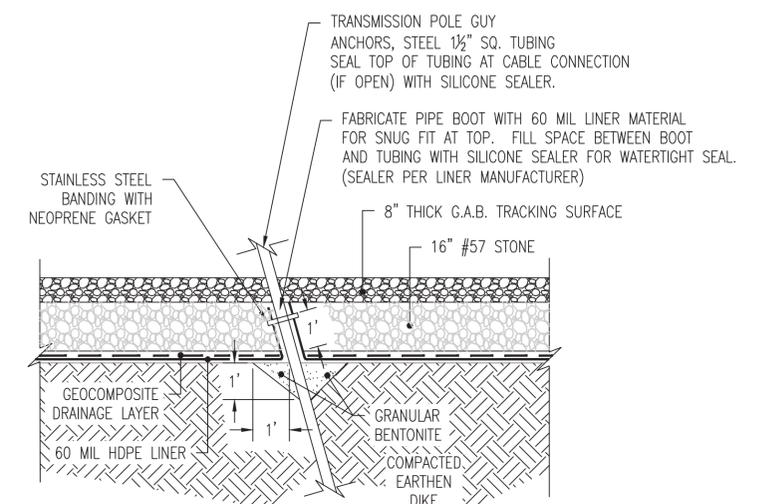
PLOT DATE: 06/19/2019 USER: SAMS\_BRAIN D:\175618707\TECHNICAL\_PRODUCTION\DRAWING\SHEET\_FILES\ASH\_POND\_3\PERMIT\1006\_SUB\07-12\_18707C-501-DT1.DWG



**1**  
**8** TRANSMISSION ACCESS LINER SECTION  
NOT TO SCALE



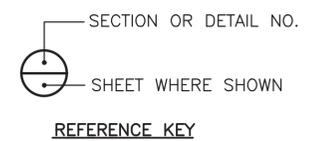
**2**  
**8** TYPICAL LINER ATTACHMENT AT POLE FOUNDATION  
NOT TO SCALE



**3**  
**8** TYPICAL LINER ATTACHMENT AT GUY ANCHOR  
NOT TO SCALE



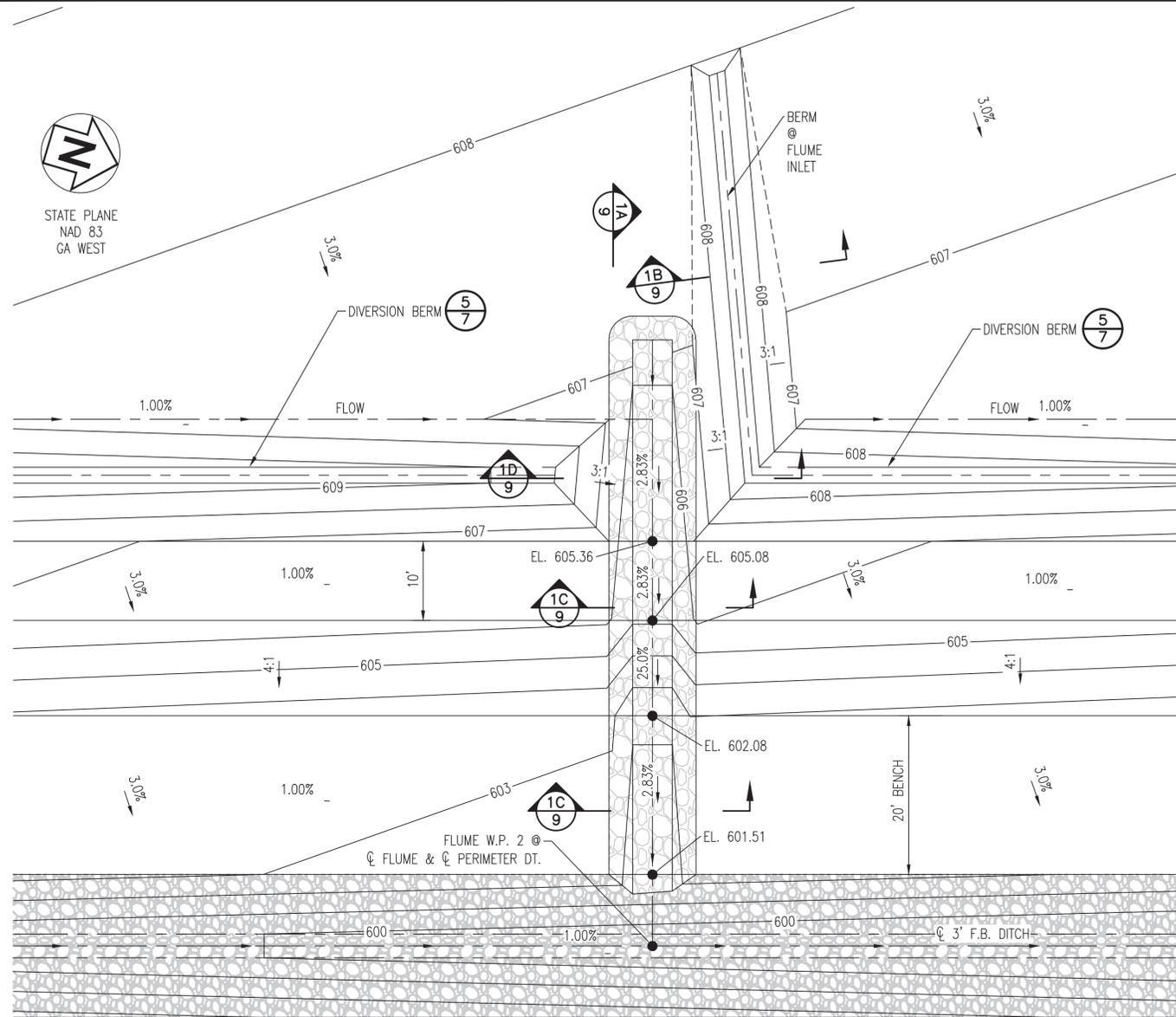
DETAILS			
<b>CLOSURE DRAWINGS</b>			
FOR			
PLANT HAMMOND - GEORGIA POWER			
ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT			
FLOYD COUNTY, GEORGIA			
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com			
PROJ. NO.	175618707	DWG.	07-12_18707C-501-DT1
SCALE	AS SHOWN	EDIT	MM/DD/YY
DATE	MAY 2021	SHEET	8



PLOT DATE: 06/19/2019 USER: SAMS\_BRAIN D:\175618707\TECHNICAL\_PRODUCTION\DRAWING\SHEET\_FILES\ASB\175618707C-501-DT1.DWG

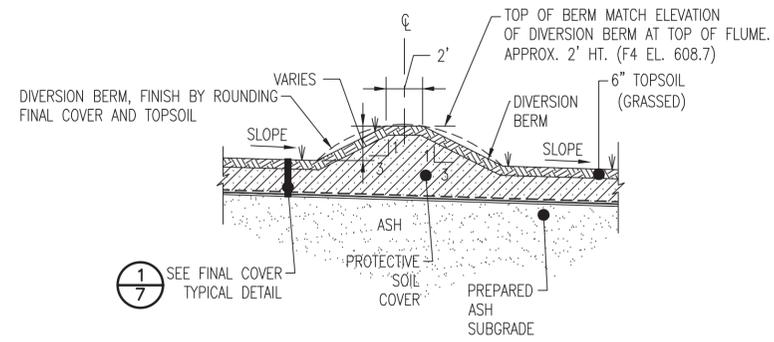


STATE PLANE  
NAD 83  
GA WEST

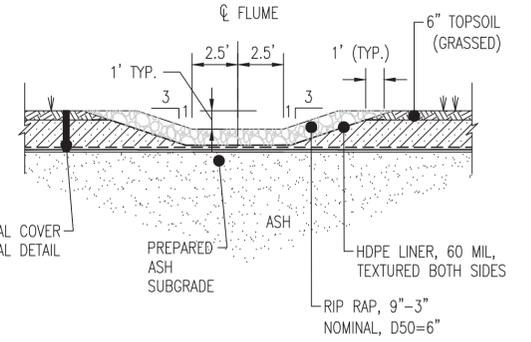


NOTE:  
CONTOUR ELEVATIONS SHOWN ARE TYPICAL AND MAY BE ADJUSTED  
BASED ON CONDITIONS ENCOUNTERED IN THE FIELD.

1  
9  
TYPICAL RIP RAP FLUME PLAN  
NOT TO SCALE



1B  
9  
BERM AT FLUME INLET  
NOT TO SCALE



1C  
9  
FLUME SECTION  
NOT TO SCALE

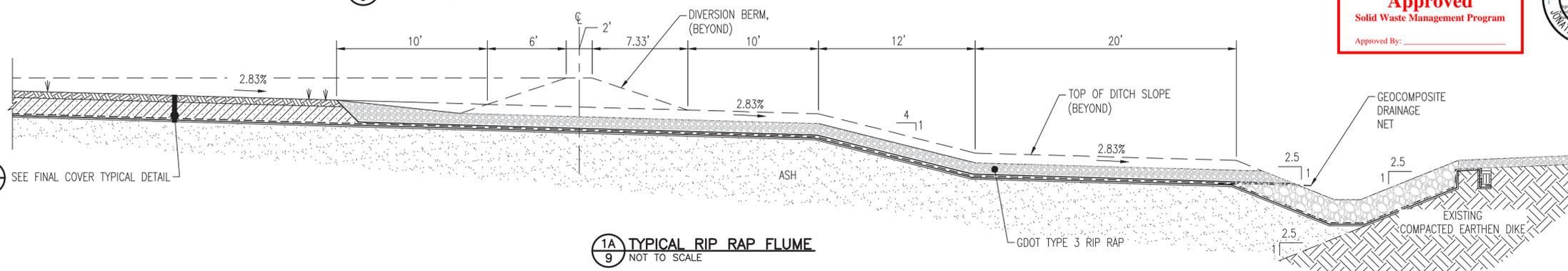
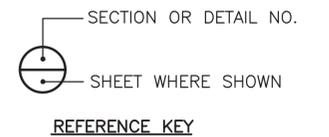
1  
7  
SEE FINAL COVER  
TYPICAL DETAIL

1  
7  
SEE FINAL COVER  
TYPICAL DETAIL

1  
7  
SEE FINAL COVER TYPICAL  
DETAIL (PROTECTIVE SOIL  
COVER DEPTH VARIES)

1D  
9  
FLUME SECTION  
NOT TO SCALE

NOTE:  
CONTOURS ARE TYPICAL AND MAY BE ADJUSTED IN FIELD.



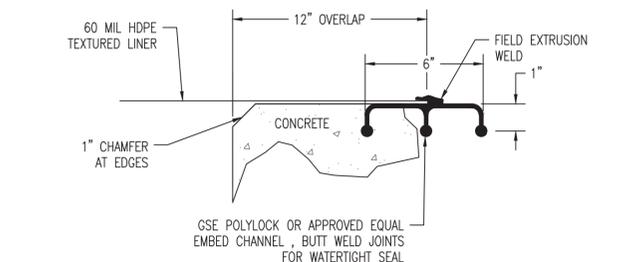
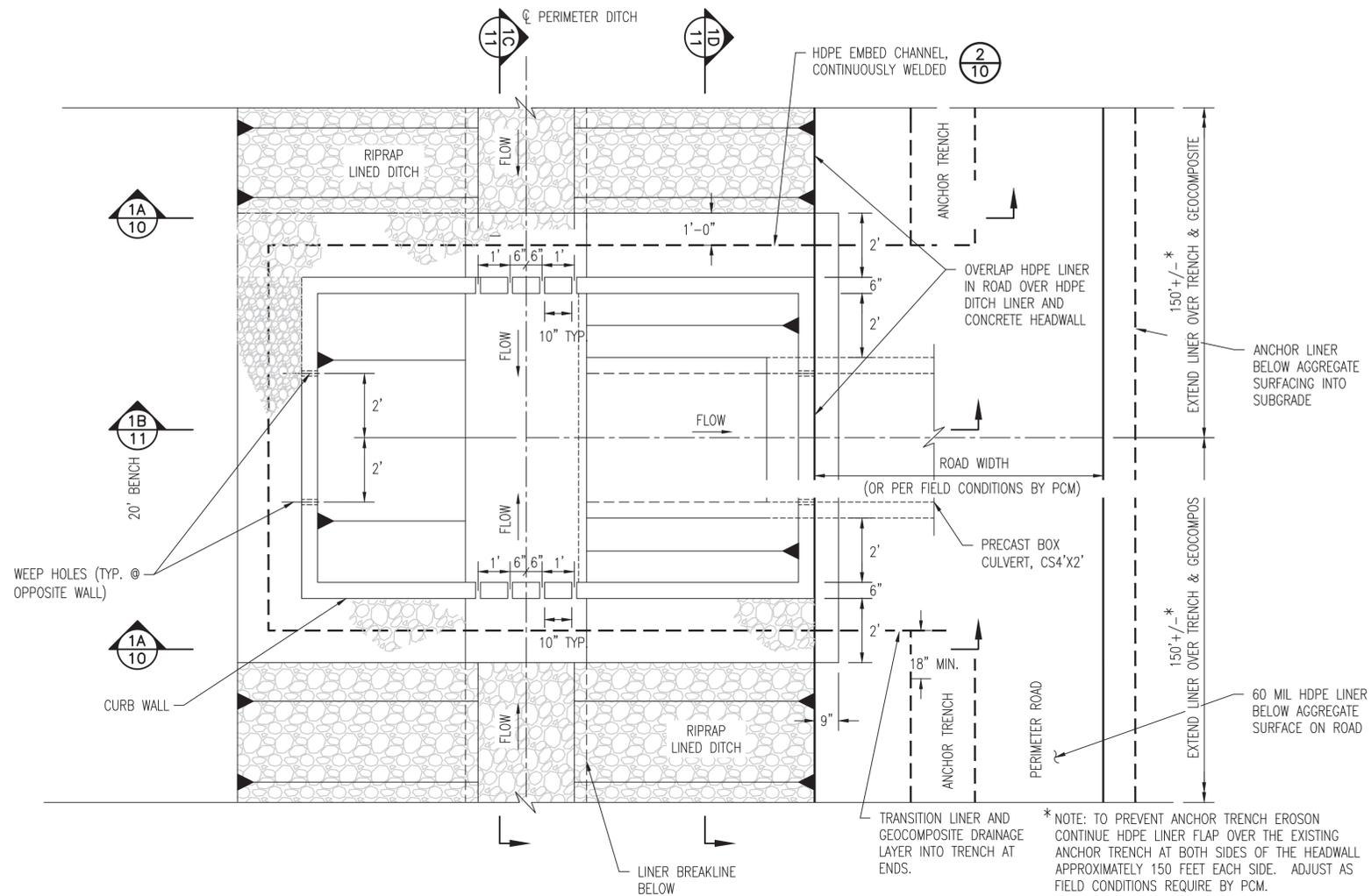
1A  
9  
TYPICAL RIP RAP FLUME  
NOT TO SCALE

1  
7  
SEE FINAL COVER TYPICAL DETAIL

DETAILS		
CLOSURE DRAWINGS FOR PLANT HAMMOND - GEORGIA POWER ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT FLOYD COUNTY, GEORGIA		
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com		
PROJ. NO.	175618707	DWG. 07-12_18707C-501-DT1
SCALE	AS SHOWN	EDIT MM/DD/YY
DATE	MAY 2021	SHEET 9

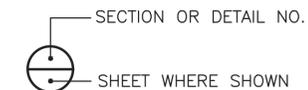
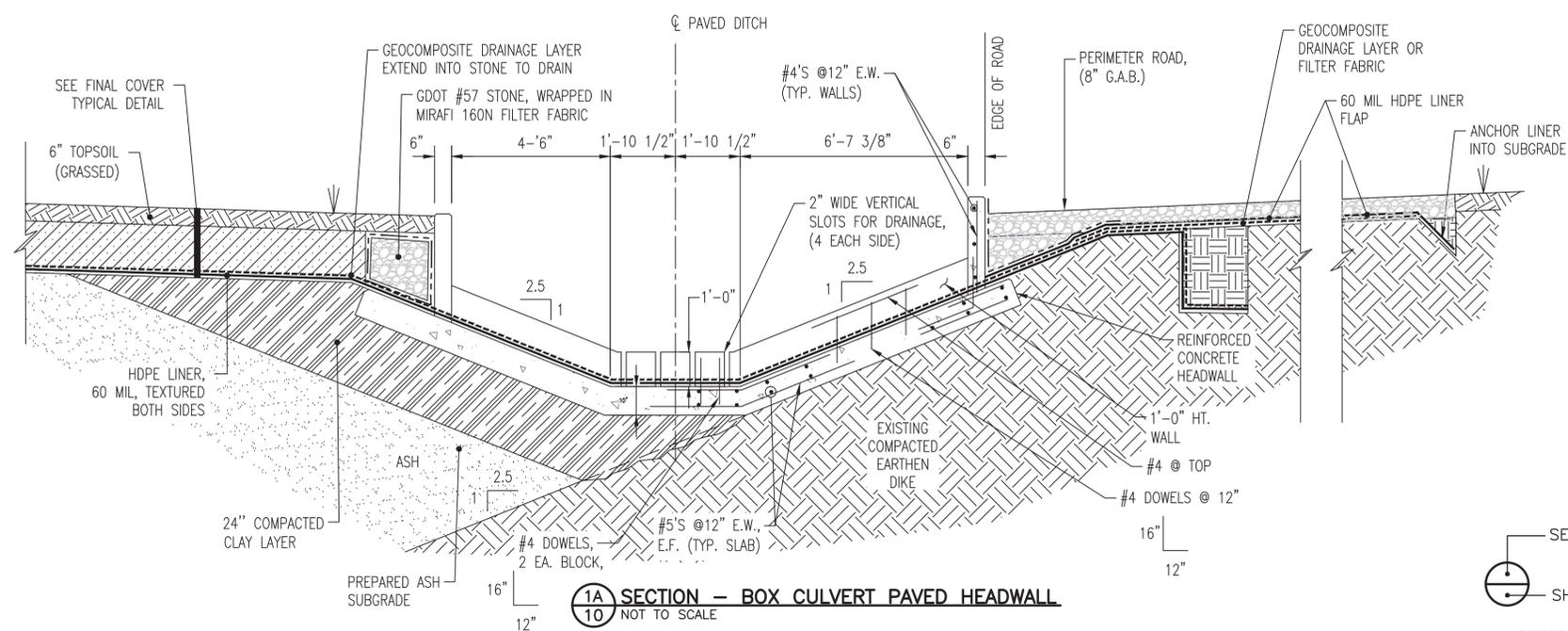


PLT DATE: 06/19/2019 USER: SAMS, BRANN  
D:\175618707\TECHNICAL\_PRODUCTION\DRAWING\SHEET\_FILES\POLY\_T\PERMIT\100K\_SUB\07-12\_18707C-501-DT1.DWG



2/10 TYPICAL EMBED CHANNEL HDPE LINER ATTACHMENT  
NOT TO SCALE

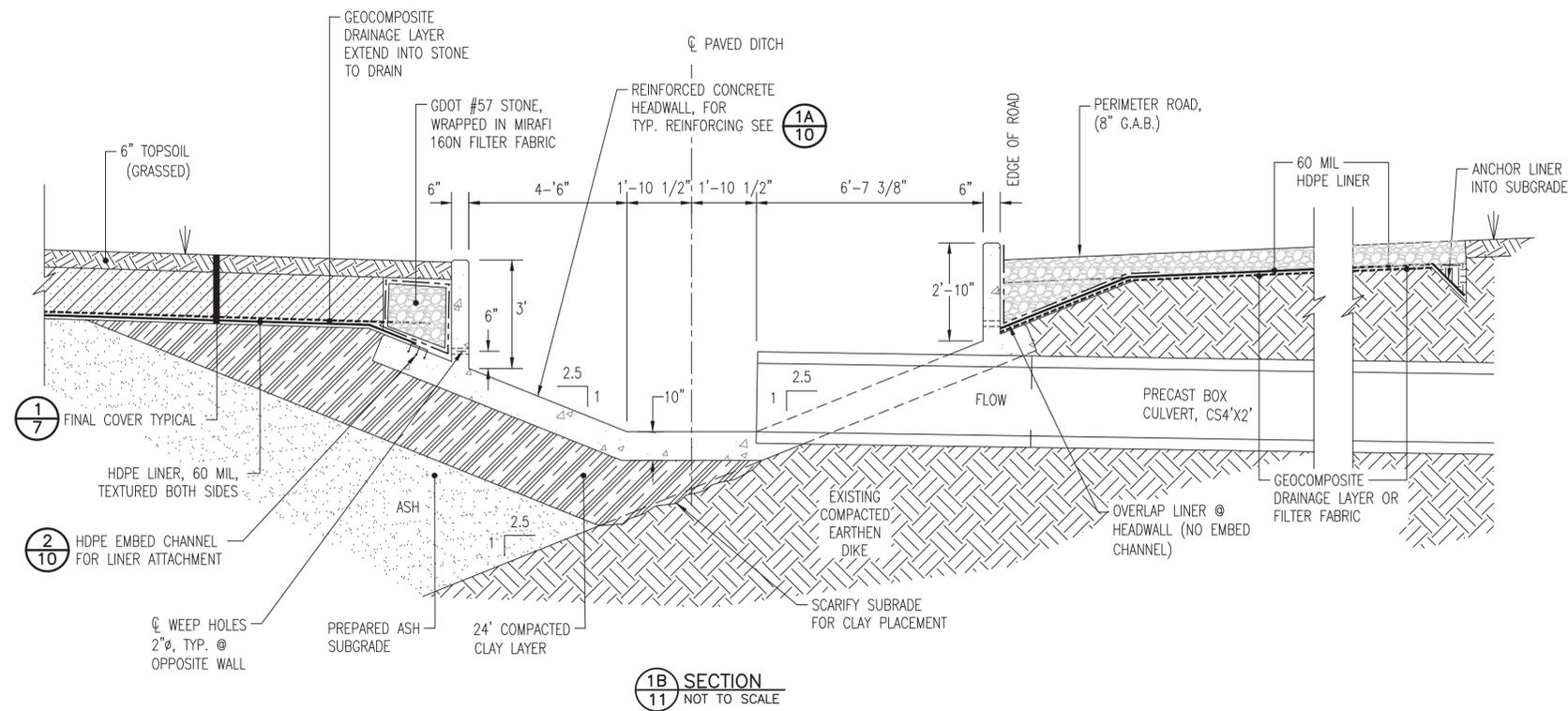
1/10 PLAN - BOX CULVERT PAVED HEADWALL  
NOT TO SCALE



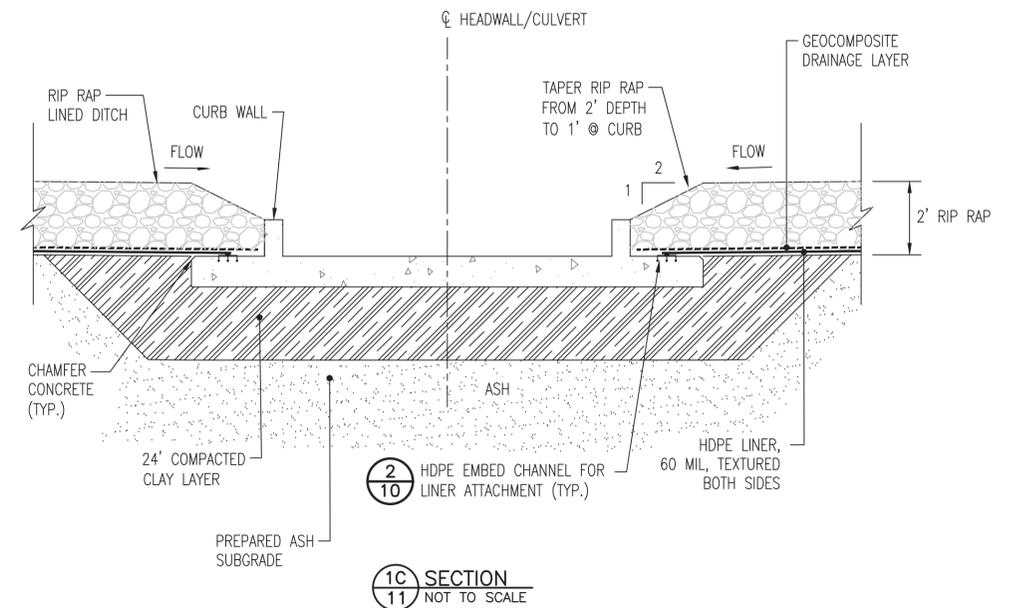
REFERENCE KEY



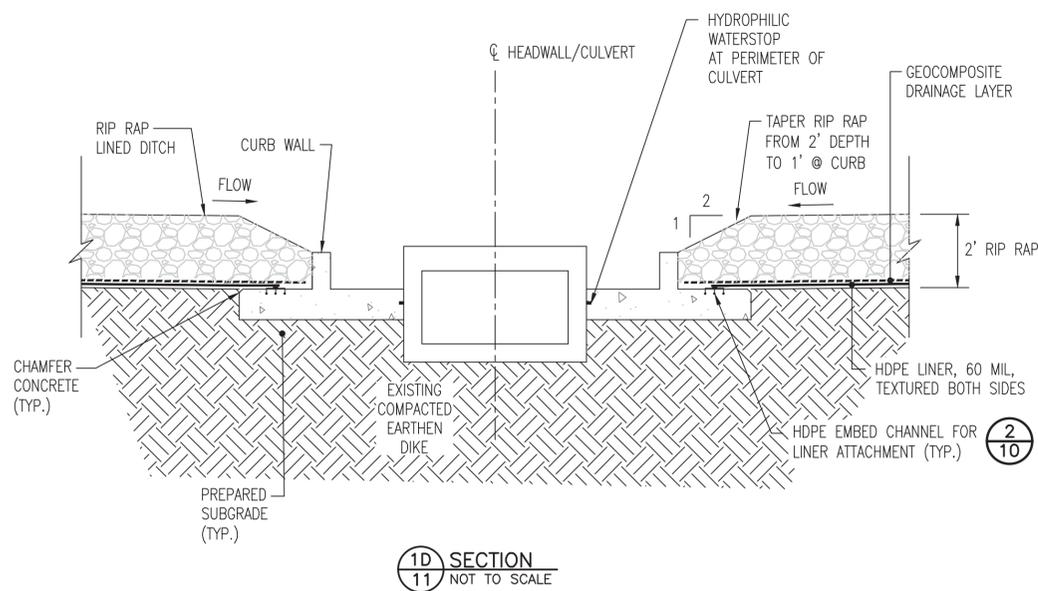
DETAILS		
<b>CLOSURE DRAWINGS</b> FOR PLANT HAMMOND - GEORGIA POWER ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT FLOYD COUNTY, GEORGIA		
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com		
PROJ. NO.	175618707	DWG. 07-12_18707C-501-DT1
SCALE	AS SHOWN	EDIT MM/DD/YY
DATE	MAY 2021	SHEET 10



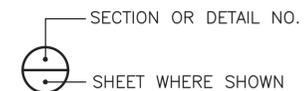
**1B SECTION**  
11 NOT TO SCALE



**1C SECTION**  
11 NOT TO SCALE



**1D SECTION**  
11 NOT TO SCALE



REFERENCE KEY



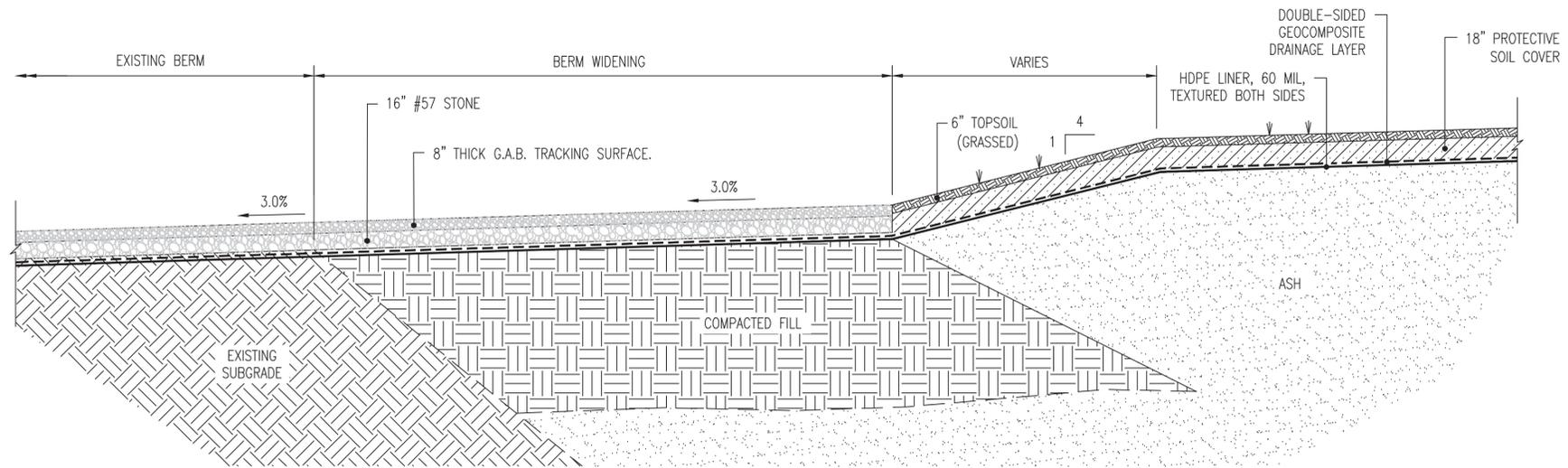
DETAILS  
**CLOSURE DRAWINGS**  
 FOR  
 PLANT HAMMOND - GEORGIA POWER  
 ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT  
 FLOYD COUNTY, GEORGIA

1110 Market Street, Suite 214A  
 Chattanooga, Tennessee 37402-2863  
 www.stantec.com

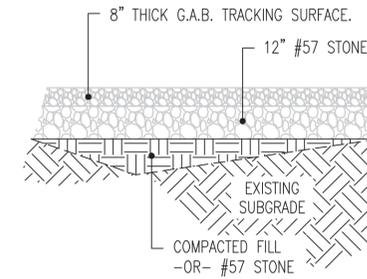


PROJ. NO.	175618707	DWG.	07-12_18707C-501-DT1	EDIT	MM/DD/YY
SCALE	AS SHOWN				
DATE	MAY 2021	<b>SHEET 11</b>			

PLOT DATE: 06/19/2019 USER: SAMS\_BRAIN D:\175618707\TECHNICAL\_PRODUCTION\DRAWING\SHEET\_FILES\ASH\_POND\_3\PERMIT\100%\_SUB\07-12\_18707C-501-DT1.DWG

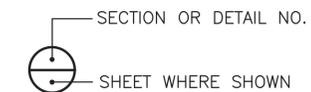


1 70' TRANSMISSION ACCESS DRIVE—WIDENING  
12 NOT TO SCALE



NOTE:  
THIS BUILDUP IS FOR AREAS ABOVE EXISTING EARTHEN DIKE.  
LOCATIONS WHERE DIKE IS TO BE WIDENED SHALL HAVE SUBGRADE  
OF COMPACTED CLAY

2 70' TRANSMISSION ACCESS DRIVE BUILDUP  
12 NOT TO SCALE

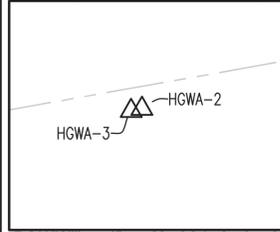
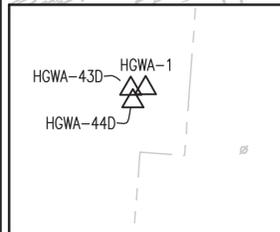
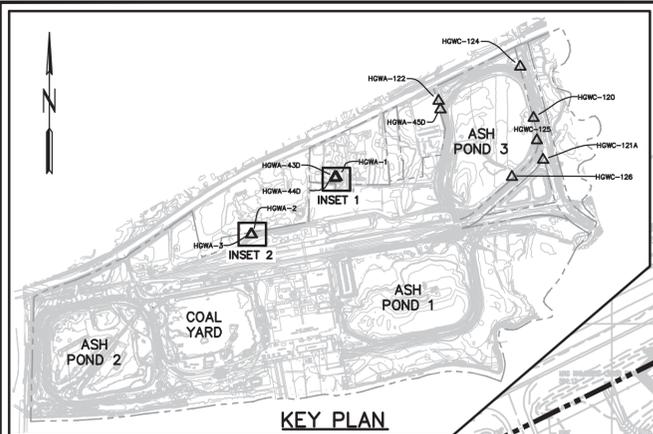
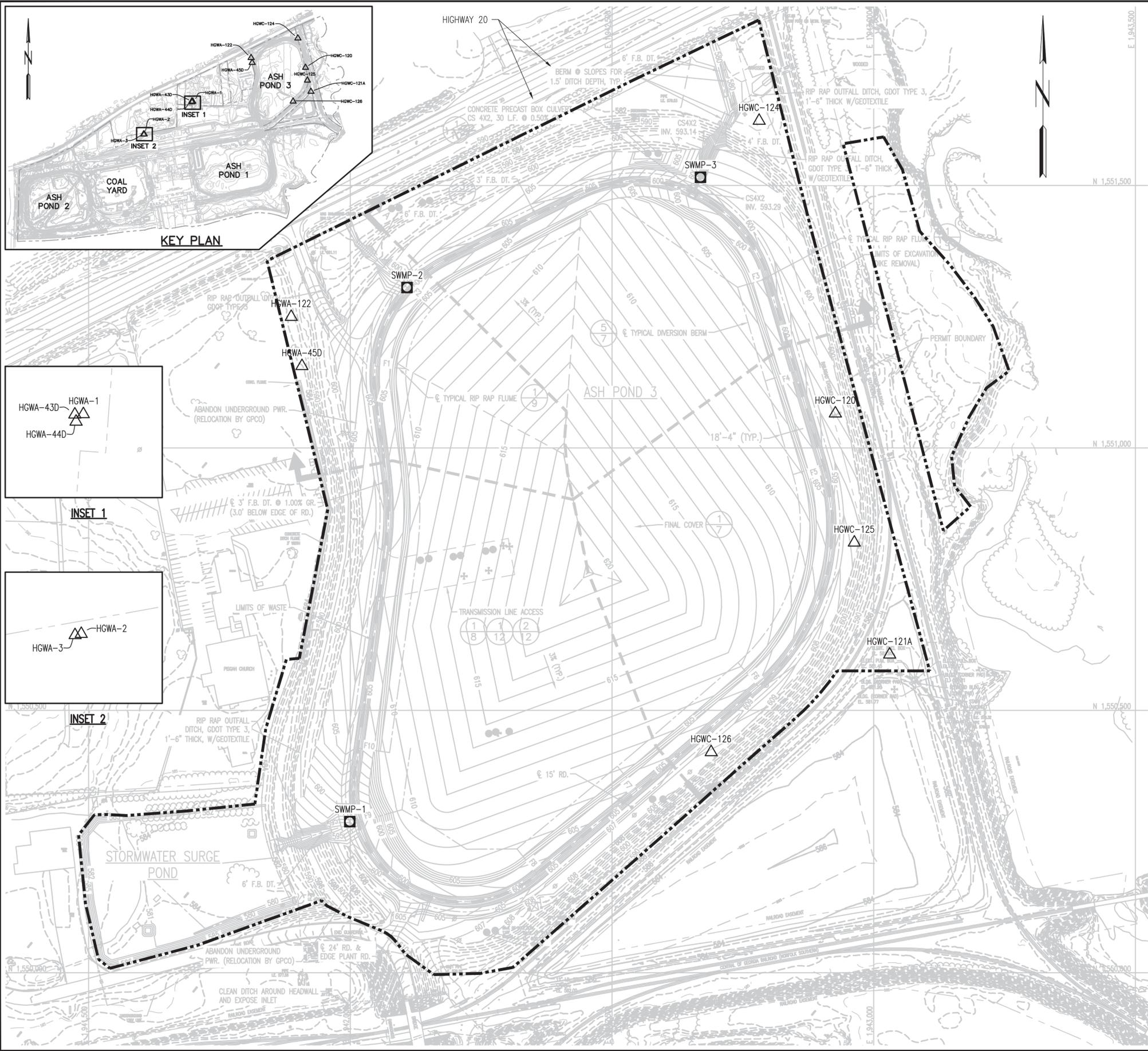


REFERENCE KEY

DETAILS			
<b>CLOSURE DRAWINGS</b> FOR <b>PLANT HAMMOND - GEORGIA POWER</b> <b>ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT</b> FLOYD COUNTY, GEORGIA			
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com			
PROJ. NO.	175618707	DWG.	07-12_18707C-501-DT1
SCALE	AS SHOWN	DATE	MAY 2021
			SHEET 12



PLOT DATE: 06/19/2019 USER: SAMS\_BRAIN  
 U:\175618707\TECHNICAL\_PRODUCTION\DRAWING\SHEET\_FILES\ASH\_POND\_3\PERMIT\DDK\_SUB\07-12\_18707C-501-DT1.DWG



**MAPPING NOTE:**

TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM AN AERIAL SURVEY PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN DECEMBER 2012 SUPPLEMENTED WITH THE TOP SOIL SURVEY (BOILER POND) DRAWING BY HUGHES-RAY COMPANY, INC. DATED NOVEMBER 11, 2017, THE SURGE POND FINAL AS-BUILT MAP ASH POND 3 CLOSURE PROJECT DRAWING BY PHILLIPS & JORDAN DATED MARCH 6, 2018, AND TOPOGRAPHIC AERIAL AND BATHYMETRIC SURVEYS PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN JUNE 2018. MONITORING WELL AND PIEZOMETER SURVEY DATA WERE CERTIFIED BY GEL SOLUTIONS ON MAY 19, 2020 FOR ALL WELLS EXCEPT FOR HGWA-43D, HGWA-44D, HGWA-45D AND MW 46D, WHICH WERE CERTIFIED ON SEPTEMBER 10, 2020. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

**NOTES:**

- NORFOLK SOUTHERN (NS) HAS BEEN GRANTED AN EASEMENT TO MAINTAIN THE RAILROAD TRACKS AROUND AP-3. APPROPRIATE NOTIFICATION AND COORDINATION WITH NS IS REQUIRED FOR ANY WORK WITHIN THE EASEMENT.
- GROUNDWATER MONITORING WELL LOCATIONS AND SURFACE WATER MONITORING POINTS SHOWN ARE TAKEN FROM GROUNDWATER MONITORING PLAN AS SHOWN IN PART "A" OF THE PERMIT APPLICATION.

**LEGEND**

- - - - -600- - - EXISTING CONTOURS (MAJOR)
- - - - - EXISTING CONTOURS (MINOR)
- x 590.0 EXISTING SPOT ELEV.
- 590.0 FINISH SPOT ELEV.
- ⊕ DITCHES
- EXISTING ROADS/BUILDINGS
- x EXISTING FENCE
- x FENCE
- PROPERTY LINE
- EXISTING TREE LINE
- STREAM
- PERMIT BOUNDARY
- ⊕ GUY ANCHOR
- ⊕ MONITORING WELL
- ⊕ SURFACE WATER MONITORING POINT
- EXISTING BUILDINGS
- EXISTING UNDERGROUND UTILITIES/ PIPES
- STORM PIPE
- EXISTING STORM PIPE
- GUARD RAIL
- EXISTING POTABLE WATER
- \* LIGHT POLE
- GP GUARDPOST
- UG EXISTING UNDERGROUND ELEC. LINES
- TRANSMISSION TOWER
- POWER POLE
- TRANSMISSION BASE
- LIMITS OF WASTE

**SURFACE WATER MONITORING POINT LOCATION TABLE**

MONITORING POINT	NORTHING	EASTING
SWMP-1	1,550,288.11	1,941,999.01
SWMP-2	1,551,305.48	1,942,108.38
SWMP-3	1,551,515.54	1,942,669.15

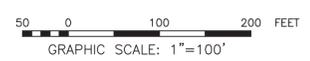
**MONITORING WELL LOCATION TABLE**

WELL ID	NORTHING (NAD83)	EASTING (NAD83)	GROUND ELEVATION (FEET) (NAVD88)
HGWA-1	1,550,423.32	1,940,770.00	592.32
HGWA-2	1,549,796.87	1,939,845.15	585.29
HGWA-3	1,549,794.41	1,939,833.39	585.23
HGWA-43D	1,550,422.85	1,940,753.80	592.08
HGWA-44D	1,550,409.13	1,940,756.18	592.01
HGWA-45D	1,551,157.68	1,941,907.54	584.08
HGWA-122	1,551,251.42	1,941,887.11	585.04
HGWC-120	1,551,067.24	1,942,926.62	602.83
HGWC-121A	1,550,607.97	1,943,030.44	582.31
HGWC-124	1,551,624.93	1,942,781.05	579.80
HGWC-125	1,550,821.41	1,942,962.87	605.70
HGWC-126	1,550,422.03	1,942,689.40	608.72



SECTION OR DETAIL NO.  
SHEET WHERE SHOWN

**REFERENCE KEY**

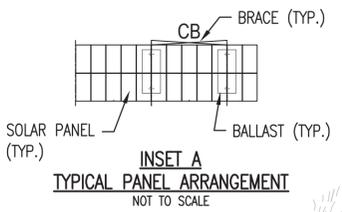
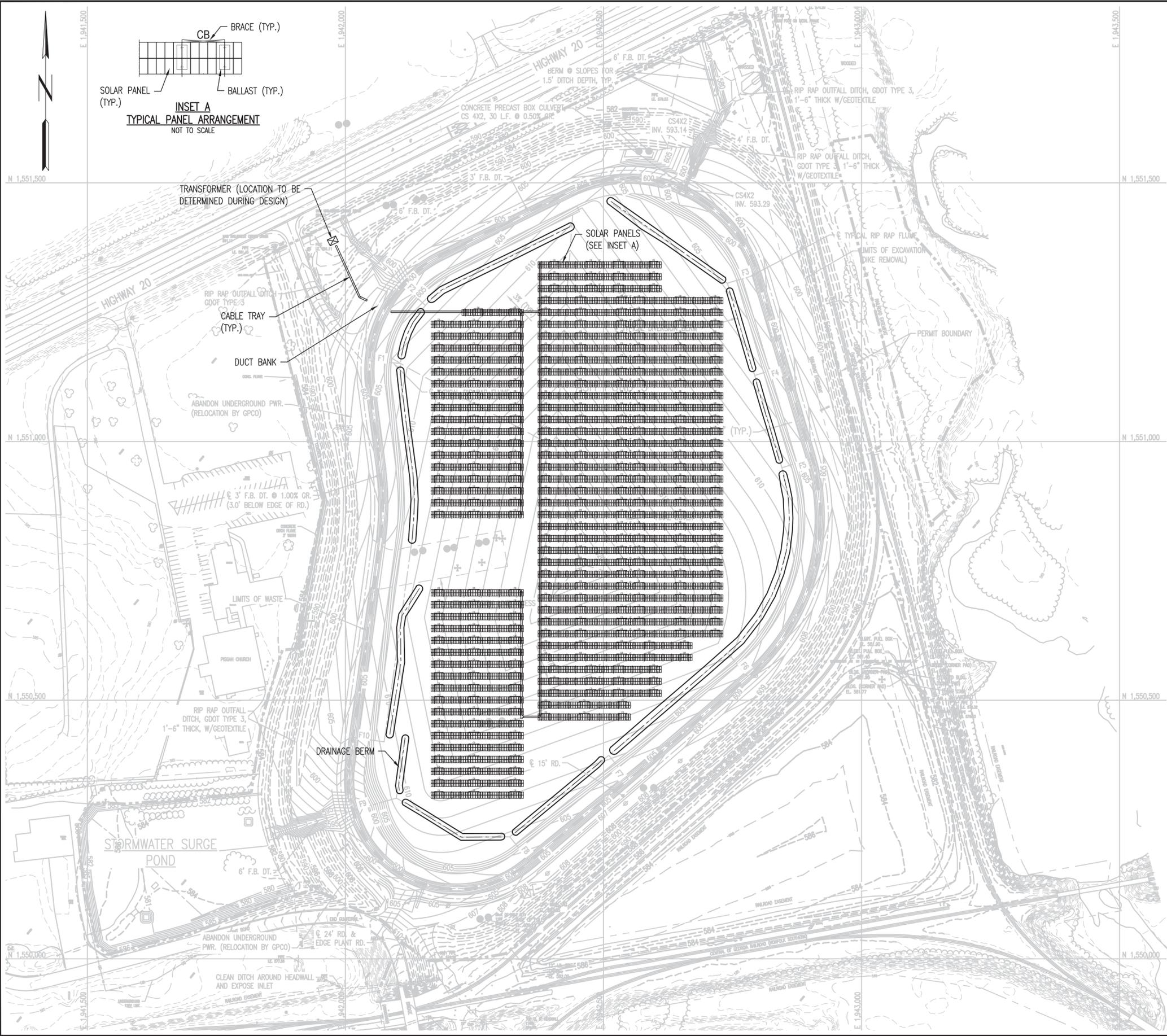


COMPLIANCE MONITORING NETWORK  
**CLOSURE DRAWINGS**  
FOR  
PLANT HAMMOND - GEORGIA POWER  
ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT  
FLOYD COUNTY, GEORGIA

1110 Market Street, Suite 214A  
Chattanooga, Tennessee 37402-2863  
www.stantec.com

PROJ. NO.	175618707	DWG.	13_18707C-102-CMP	EDIT	MM/DD/YY
SCALE	AS SHOWN	<b>SHEET 13</b>			
DATE	MAY 2021				

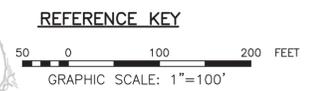
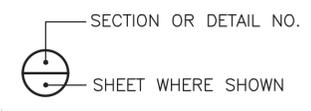
PLOT DATE: 04/29/2021 USER: BMD\_PJ D:\175618707\TECHNICAL\PRODUCTION\DRAWING\SHEET\_FILES\DWG\13\_18707C-102-CMP.DWG



- NOTES:**
- NORFOLK SOUTHERN (NS) HAS BEEN GRANTED AN EASEMENT TO MAINTAIN THE RAILROAD TRACKS AROUND AP-3. APPROPRIATE NOTIFICATION AND COORDINATION WITH NS IS REQUIRED FOR ANY WORK WITHIN THE EASEMENT.
  - THE BASEMAP AND SITE FEATURES IN THIS DRAWING WERE PREPARED AND HAVE BEEN SEALED BY STANTEC CONSULTING SERVICES INC. SOLAR PANEL LAYOUT WAS SOURCED FROM SOUTHERN COMPANY SERVICES DRAWING SK-0001 SOURCED FROM DC-HM-HAM20002-001 REVISION B (MAY 2021).
  - FOR SOLAR PANEL DETAILS, REFER TO THE "POST-CLOSURE SOLAR DEVELOPMENT FOR ASH POND CLOSURE" REPORT PREPARED BY SOUTHERN COMPANY (DATED NOVEMBER 2018).

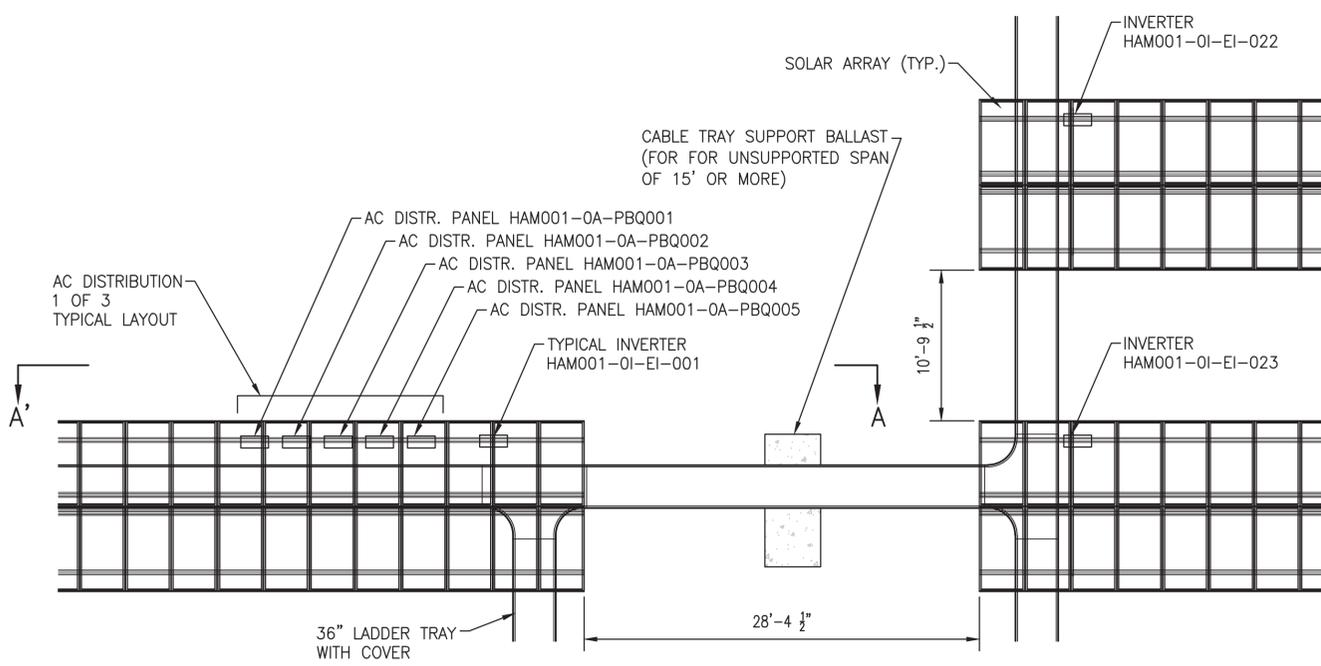
**LEGEND**

--- 600 ---	EXISTING CONTOURS (MAJOR)	[Symbol]	EXISTING BUILDINGS
--- 590.0 ---	EXISTING CONTOURS (MINOR)	---	EXISTING UNDERGROUND UTILITIES/ PIPES
x 590.0	EXISTING SPOT ELEV.	[Symbol]	STORM PIPE
590.0	FINISH SPOT ELEV.	[Symbol]	EXISTING STORM PIPE
[Symbol]	DITCHES	[Symbol]	GUARD RAIL
[Symbol]	EXISTING ROADS/BUILDINGS	[Symbol]	EXISTING POTABLE WATER
x	EXISTING FENCE	*	LIGHT POLE
x	FENCE	o GP	GUARDPOST
---	PROPERTY LINE	us	EXISTING UNDERGROUND ELEC. LINES
[Symbol]	EXISTING TREE LINE	+	TEST WELL
---	STREAM	[Symbol]	TRANSMISSION TOWER
---	PERMIT BOUNDARY	600	FINISH CONTOURS (5-FOOT)
+	GUY ANCHOR	1-FOOT	FINISH CONTOURS (1-FOOT)
		[Symbol]	POWER POLE
		[Symbol]	TRANSMISSION BASE
		---	LIMITS OF WASTE

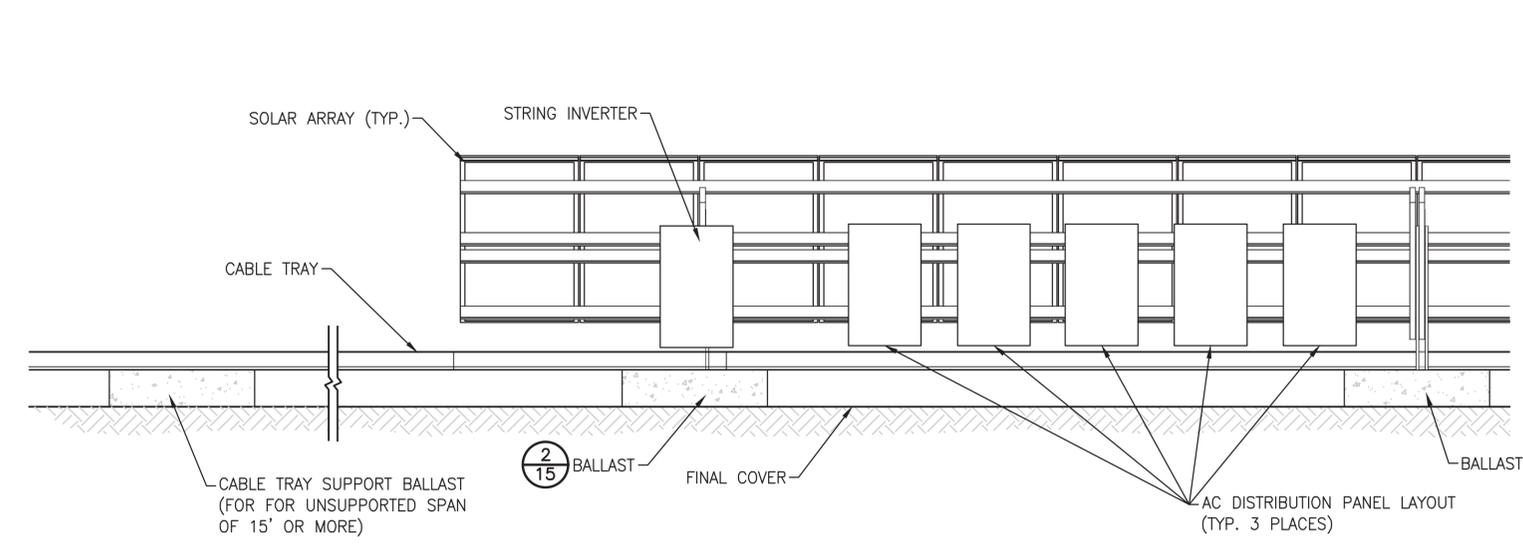


SOLAR PANEL LAYOUT PLAN			
<b>CLOSURE DRAWINGS</b>			
FOR			
PLANT HAMMOND - GEORGIA POWER			
ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT			
FLOYD COUNTY, GEORGIA			
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com			
PROJ. NO.	175618707	DWG.	14_18707C-601-SOL
SCALE	AS SHOWN	EDIT	MM/DD/YY
DATE	MAY 2021	<b>SHEET 14</b>	

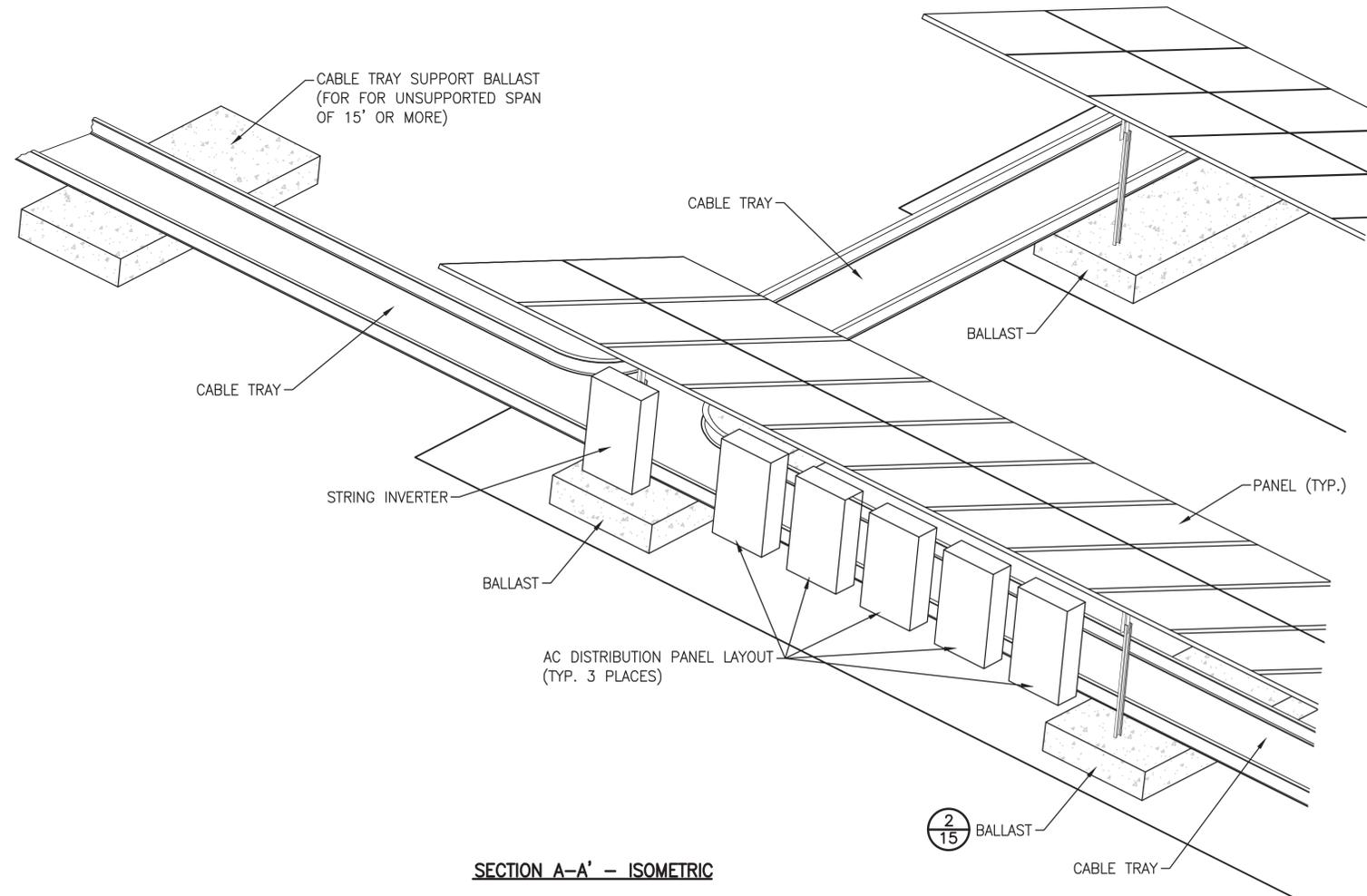
PLOT DATE: 05/19/2021 USER: JOHNSON, TRACY D:\175618707\TECHNICAL\_PRODUCTION\DRAWING\SHEET\_FILES\14\_18707C-601-SOL.DWG



PLAN

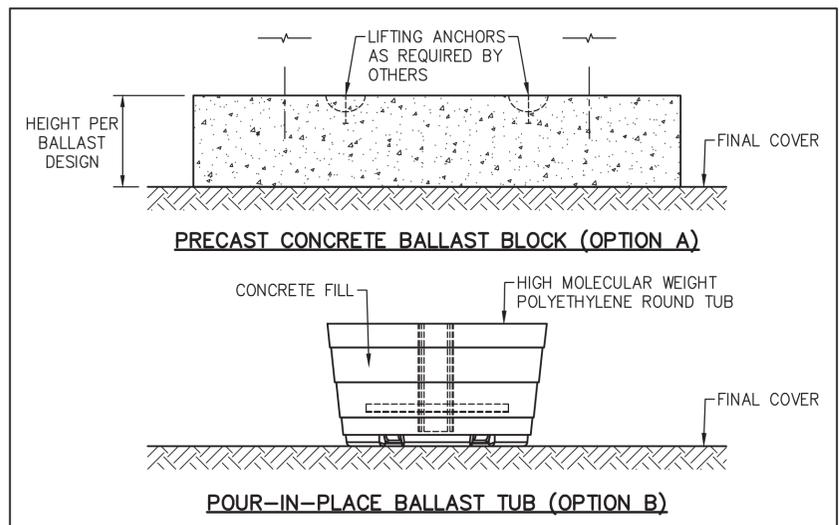


SECTION A-A' - ELEVATION



SECTION A-A' - ISOMETRIC

1/15 DETAIL - SOLAR PANELS NOT TO SCALE



NOTES:

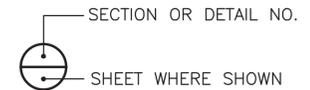
1. THE NON-PENETRATING ANCHOR SYSTEM OPTIONS ARE BASED ON DETAILS PROVIDED IN ATTACHMENT A AND B OF THE "POST-CLOSURE SOLAR DEVELOPMENT FOR ASH POND CLOSURE" REPORT PREPARED BY SOUTHERN COMPANY (DATED NOVEMBER 2018).
2. THE NEED FOR A LEVELING GRAVEL OR SAND LAYER BETWEEN THE FINAL COVER AND NON-PENETRATING ANCHOR SYSTEM WILL BE DETERMINED DURING CONSTRUCTION.

2/15 DETAIL - NON-PENETRATING ANCHOR SYSTEM OPTIONS SCALE: 1"=1'-0"



NOTES:

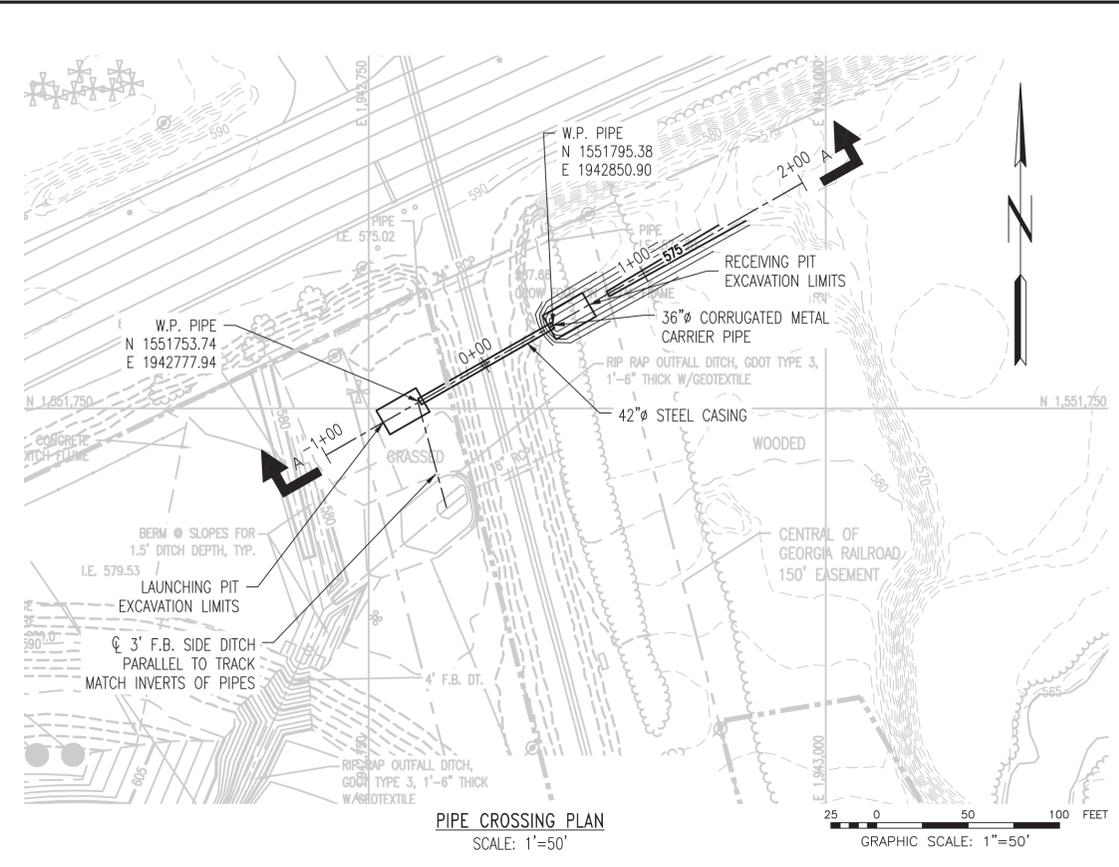
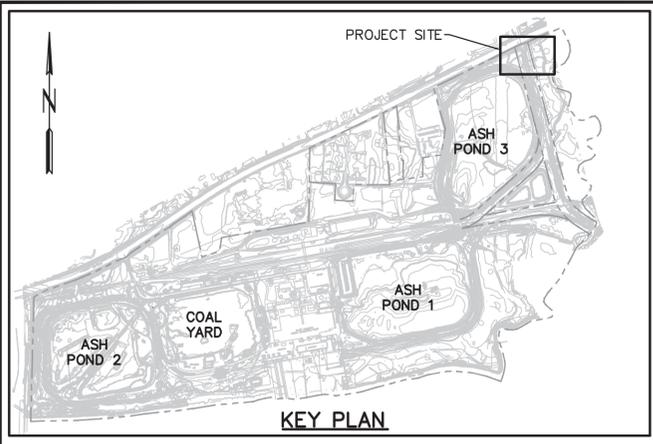
1. SOLAR PANEL DETAIL WAS SOURCED FROM SOUTHERN COMPANY SERVICES DRAWING SK-0003 SOURCED FROM DC-HM-HAM20002-001 REVISION B (MAY 2021) AND THE POST-CLOSURE SOLAR DEVELOPMENT FOR ASH POND CLOSURE REPORT (DATED NOVEMBER 2018).
2. ANCHOR SYSTEM OPTION DETAILS WERE SOURCED FROM RBI SOLAR VENDOR DRAWING S-502 AND GAMECHANGE SOLAR VENDOR DRAWINGS 2 THROUGH 5 WHICH ARE INCLUDED IN THE "POST-CLOSURE SOLAR DEVELOPMENT FOR ASH POND CLOSURE" REPORT PREPARED BY SOUTHERN COMPANY (DATED NOVEMBER 2018).



REFERENCE KEY

SOLAR PANEL DETAILS			
<b>CLOSURE DRAWINGS</b>			
FOR PLANT HAMMOND - GEORGIA POWER ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT FLOYD COUNTY, GEORGIA			
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com			
PROJ. NO.	175618707	DWG.	15_18707C-602-SPD
SCALE	AS SHOWN	DATE	MAY 2021
			SHEET 15

PLOT DATE: 06/17/2021 USER: RMD\_PJ D:\175618707\TECHNICAL\_PRODUCTION\DRAWING\SHEET\_FILES\175618707C-602-SPD.DWG

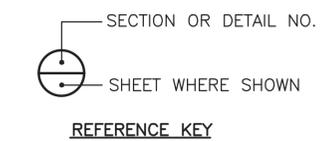
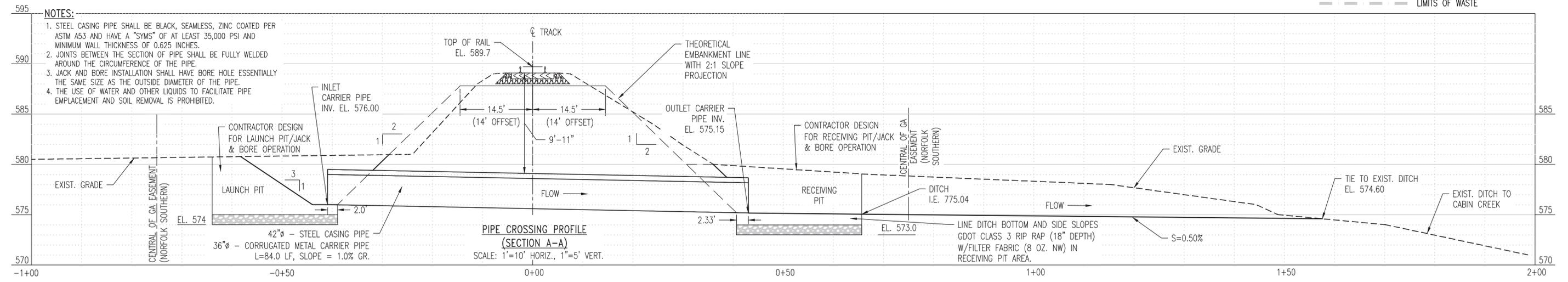


**MAPPING NOTE:**  
TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM AN AERIAL SURVEY PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN DECEMBER 2012 SUPPLEMENTED WITH THE TOP SOIL SURVEY (BOILER POND) DRAWING BY HUGHES-RAY COMPANY, INC. DATED NOVEMBER 11, 2017, THE SURGE POND FINAL AS-BUILT MAP ASH POND 3 CLOSURE PROJECT DRAWING BY PHILLIPS & JORDAN DATED MARCH 6, 2018, AND TOPOGRAPHIC AERIAL AND BATHYMETRIC SURVEYS PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN JUNE 2018. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

- NOTES:**
- NORFOLK SOUTHERN (NS) HAS BEEN GRANTED AN EASEMENT TO MAINTAIN THE RAILROAD TRACKS AROUND AP-3. APPROPRIATE NOTIFICATION AND COORDINATION WITH NS IS REQUIRED FOR ANY WORK WITHIN THE EASEMENT.
  - THE BASEMAP AND SITE FEATURES DEPICTED IN THIS DRAWING WERE PREPARED BY STANTEC CONSULTING SERVICES INC. THE PIPE CROSSING PLAN AND PROFILE DEPICTED ON THIS DRAWING WAS DEVELOPED BY SOUTHERN COMPANY SERVICES. THIS DRAWING HAS BEEN SEALED BY THE RESPECTIVE ENGINEER-OF-RECORD FOR EACH CONSULTANT.
  - CLOSURE OF THE ASH POND WITH THE ADDITION OF SOLAR PANELS WILL CHANGE THE HYDRAULIC CHARACTERISTICS OF THE FINAL COVER SYSTEM BY INCREASING STORMWATER RUNOFF AND REDUCING WATER STORAGE IN THE COVER SOIL. AN ADDITIONAL 36-INCH DIAMETER PIPE AT THE NORTHEAST DISCHARGE PIPE HAS BEEN DESIGNED TO PROVIDE ADDITIONAL CAPACITY FOR THE HIGHER STORMWATER RUNOFF FROM THE FINAL COVER SYSTEM.

**LEGEND**

- - - 600 - - -	EXISTING CONTOURS (MAJOR)	[Symbol]	EXISTING BUILDINGS
- - - - -	EXISTING CONTOURS (MINOR)	[Symbol]	EXISTING UNDERGROUND UTILITIES/ PIPES
x 590.0	EXISTING SPOT ELEV.	[Symbol]	STORM PIPE
590.0	FINISH SPOT ELEV.	[Symbol]	EXISTING STORM PIPE
[Symbol]	☉ DITCHES	[Symbol]	GUARD RAIL
[Symbol]	EXISTING ROADS/BUILDINGS	[Symbol]	EXISTING POTABLE WATER
x - - -	EXISTING FENCE	*	LIGHT POLE
- - - x - - -	FENCE	○ GP	GUARDPOST
- - - - -	PROPERTY LINE	⊕	EXISTING UNDERGROUND ELEC. LINES
[Symbol]	EXISTING TREE LINE	[Symbol]	TEST WELL
- - - - -	STREAM	[Symbol]	TRANSMISSION TOWER
- - - - -	PERMIT BOUNDARY	[Symbol]	600 - FINISH CONTOURS (5-FOOT)
+	GUY ANCHOR	[Symbol]	1-600 - FINISH CONTOURS (1-FOOT)
		○	POWER POLE
		●	TRANSMISSION BASE
		- - - - -	LIMITS OF WASTE



SOLAR PIPE CROSSING - PLAN AND PROFILE

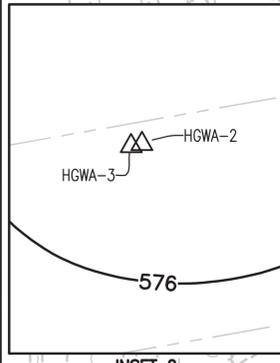
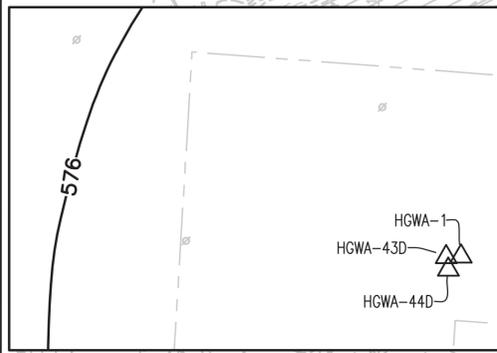
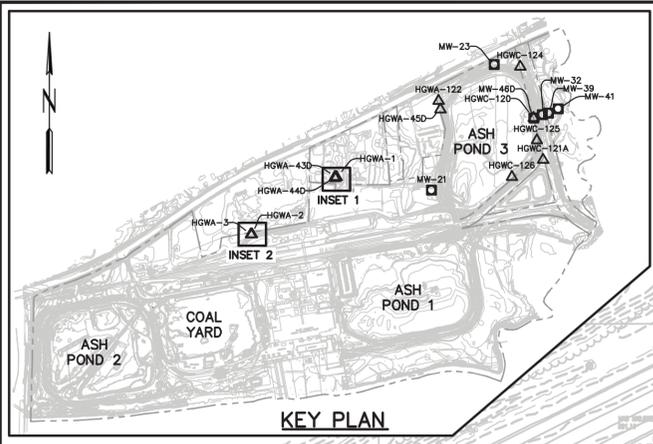
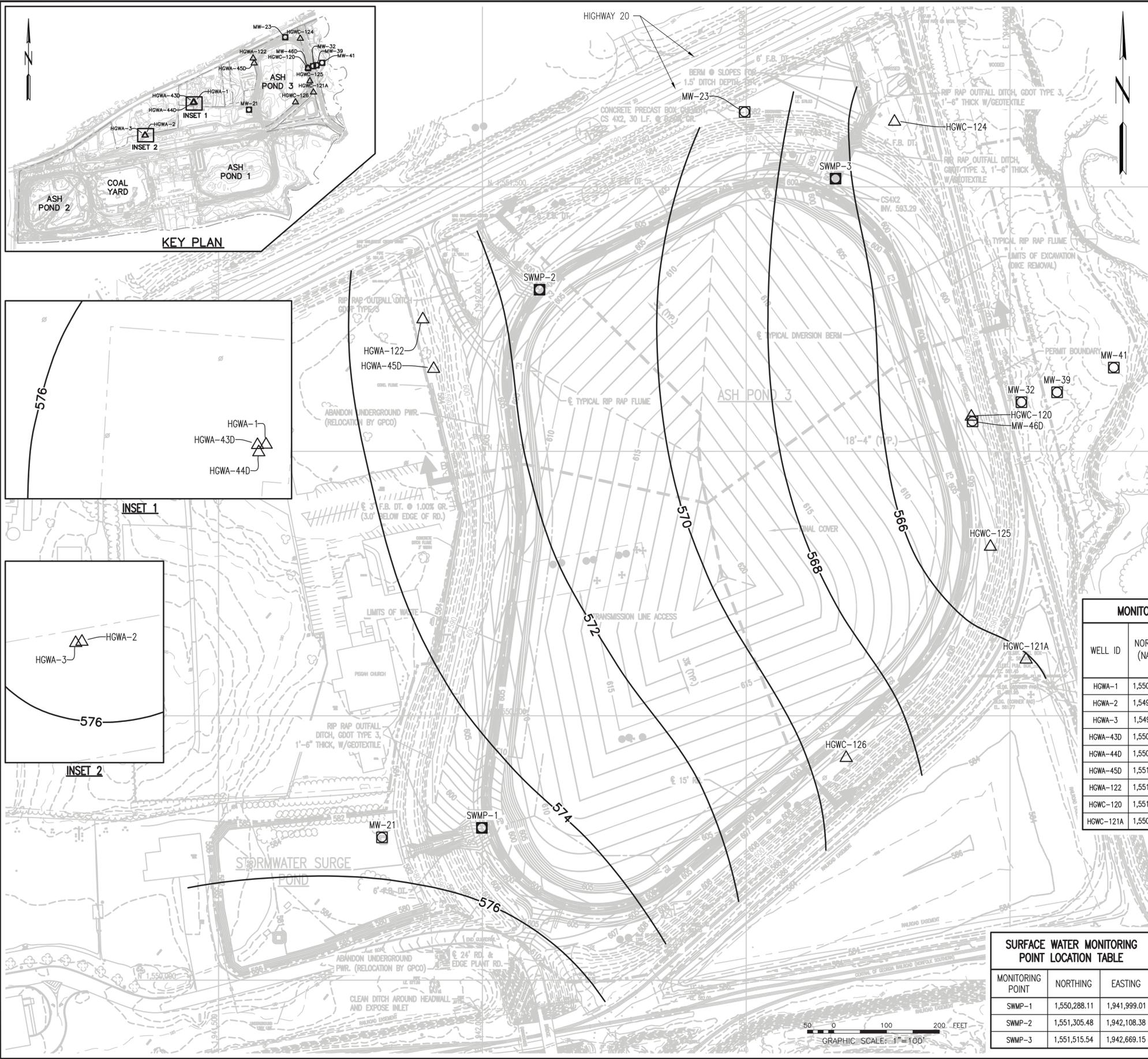
**CLOSURE DRAWINGS**  
FOR  
PLANT HAMMOND - GEORGIA POWER  
ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT  
FLOYD COUNTY, GEORGIA

1110 Market Street, Suite 214A  
Chattanooga, Tennessee 37402-2863  
www.stantec.com

**Stantec**

PROJ. NO.	175618707	DWG.	16_18707C-101-SPIPE	EDIT	MM/DD/YY
SCALE	AS SHOWN	<b>SHEET 16</b>			
DATE	MAY 2021				

PLOT DATE: 06/17/2021 USER: BMD\_PJ D:\1\1818707\TECHNICAL\PRODUCTION\DRAWING\SHEET\_FILES\ASB\_V\PERMIT\100A\_SWB\_VL\_18707C-101-SPIPE.DWG



**MAPPING NOTE:**  
 TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM AN AERIAL SURVEY PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN DECEMBER 2012 SUPPLEMENTED WITH THE TOP SOIL SURVEY (BOILER POND) DRAWING BY HUGHES-RAY COMPANY, INC. DATED NOVEMBER 11, 2017, THE SURGE POND FINAL AS-BUILT MAP ASH POND 3 CLOSURE PROJECT DRAWING BY PHILLIPS & JORDAN DATED MARCH 6, 2018, AND TOPOGRAPHIC AERIAL AND BATHYMETRIC SURVEYS PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN JUNE 2018. MONITORING WELL AND PIEZOMETER SURVEY DATA WERE CERTIFIED BY GEL SOLUTIONS ON MAY 19, 2020 FOR ALL WELLS EXCEPT FOR HGWA-43D, HGWA-44D, HGWA-45D AND MW 46D, WHICH WERE CERTIFIED ON SEPTEMBER 10, 2020. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

- NOTES:**
- NORFOLK SOUTHERN (NS) HAS BEEN GRANTED AN EASEMENT TO MAINTAIN THE RAILROAD TRACKS AROUND AP-3. APPROPRIATE NOTIFICATION AND COORDINATION WITH NS IS REQUIRED FOR ANY WORK WITHIN THE EASEMENT.
  - THE BASEMAP AND SITE FEATURES DEPICTED ON THIS DRAWING WERE PREPARED BY STANTEC CONSULTING SERVICES, INC. THE POTENTIOMETRIC SURFACE DEPICTED ON THIS DRAWING WAS DEVELOPED BY GEOSYNTEC CONSULTANTS, INC. THIS DRAWING HAS BEEN SEALED BY THE RESPECTIVE ENGINEER-OF-RECORD FOR EACH CONSULTANT.

**LEGEND**

- - - - -600-	EXISTING CONTOURS (MAJOR)	[Symbol]	EXISTING BUILDINGS
- - - - -	EXISTING CONTOURS (MINOR)	[Symbol]	EXISTING UNDERGROUND UTILITIES/ PIPES
x 590.0	EXISTING SPOT ELEV.	[Symbol]	STORM PIPE
590.0	FINISH SPOT ELEV.	[Symbol]	EXISTING STORM PIPE
[Symbol]	DITCHES	[Symbol]	GUARD RAIL
[Symbol]	EXISTING ROADS/BUILDINGS	[Symbol]	EXISTING POTABLE WATER
x	EXISTING FENCE	*	LIGHT POLE
x	FENCE	o	GP GUARDBOOST
[Symbol]	PROPERTY LINE	UG	EXISTING UNDERGROUND ELEC. LINES
[Symbol]	EXISTING TREE LINE	[Symbol]	TRANSMISSION TOWER
- - - - -	STREAM	[Symbol]	POWER POLE
- - - - -	PERMIT BOUNDARY	[Symbol]	TRANSMISSION BASE
+	GUY ANCHOR	[Symbol]	MONITORING WELL
- - - - -570-	POTENTIOMETRIC SURFACE (SEPTEMBER 2020)	[Symbol]	PIEZOMETER
		[Symbol]	SURFACE WATER MONITORING POINT
		[Symbol]	LIMITS OF WASTE

**MONITORING WELL AND PIEZOMETER LOCATION TABLE**

WELL ID	NORTHING (NAD83)	EASTING (NAD83)	GROUNDWATER ELEVATION (SEPTEMBER 2020, FEET) (NAVD88)	WELL TYPE
HGWA-1	1,550,423.32	1,940,770.00	574.32	MONITORING WELL
HGWA-2	1,549,796.87	1,939,845.15	576.78	MONITORING WELL
HGWA-3	1,549,794.41	1,939,833.39	576.78	MONITORING WELL
HGWA-43D	1,550,422.85	1,940,753.80	574.33	MONITORING WELL
HGWA-44D	1,550,409.13	1,940,756.18	575.20	MONITORING WELL
HGWA-45D	1,551,157.68	1,941,907.54	572.87	MONITORING WELL
HGWA-122	1,551,251.42	1,941,887.11	572.77	MONITORING WELL
HGWC-120	1,551,067.24	1,942,926.62	564.62	MONITORING WELL
HGWC-121A	1,550,607.97	1,943,030.44	566.13	MONITORING WELL

**MONITORING WELL AND PIEZOMETER LOCATION TABLE**

WELL ID	NORTHING (NAD83)	EASTING (NAD83)	GROUNDWATER ELEVATION (SEPTEMBER 2020, FEET) (NAVD88)	WELL TYPE
HGWC-124	1,551,624.93	1,942,781.05	564.36	MONITORING WELL
HGWC-125	1,550,821.41	1,942,962.87	564.38	MONITORING WELL
HGWC-126	1,550,422.03	1,942,689.40	569.38	MONITORING WELL
MW-21	1,550,270.15	1,941,809.76	575.57	PIEZOMETER
MW-23	1,551,641.44	1,942,496.83	569.71	PIEZOMETER
MW-32	1,551,092.83	1,943,021.47	564.66	PIEZOMETER
MW-39	1,551,111.45	1,943,089.26	564.58	PIEZOMETER
MW-41	1,551,158.16	1,943,196.47	564.46	PIEZOMETER
MW-46D	1,551,056.48	1,942,929.10	564.67	PIEZOMETER

**SURFACE WATER MONITORING POINT LOCATION TABLE**

MONITORING POINT	NORTHING	EASTING
SWMP-1	1,550,288.11	1,941,999.01
SWMP-2	1,551,305.48	1,942,108.38
SWMP-3	1,551,515.54	1,942,669.15

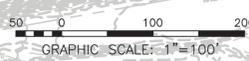
**GEORGIA**  
 DEPARTMENT OF NATURAL RESOURCES  
 ENVIRONMENTAL PROTECTION DIVISION  
**Approved**  
 Solid Waste Management Program  
 Approved By: \_\_\_\_\_

ENVIRONMENTAL MONITORING PLAN  
**CLOSURE DRAWINGS**  
 FOR  
 PLANT HAMMOND - GEORGIA POWER  
 ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT  
 FLOYD COUNTY, GEORGIA

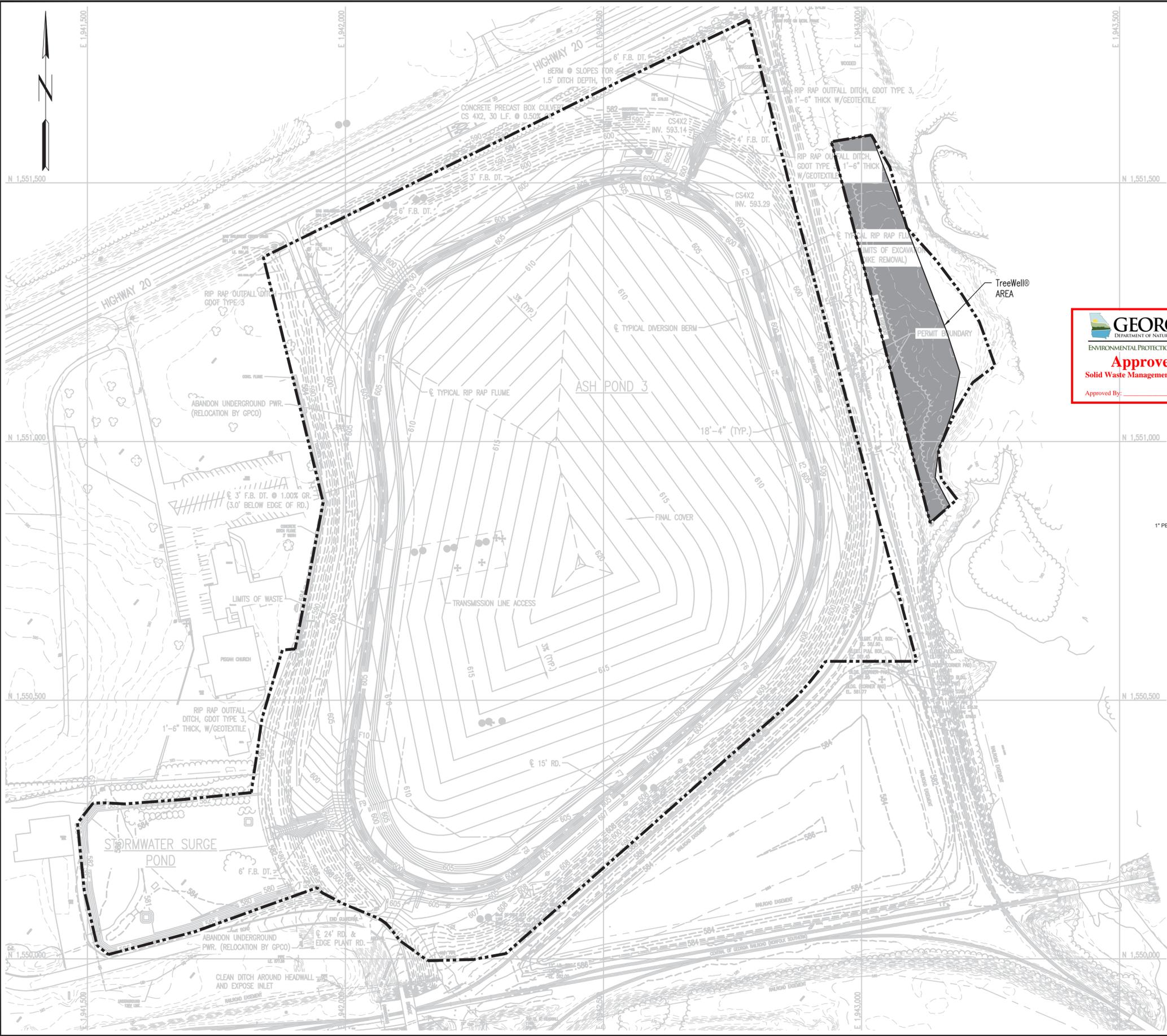
1110 Market Street, Suite 214A  
 Chattanooga, Tennessee 37402-2863  
 www.stantec.com

**Stantec**

PROJ. NO.	175618707	DWG.	17_18707C-901-EMP	EDIT	MM/DD/YY
SCALE	AS SHOWN	SHEET 17			
DATE	MAY 2021				



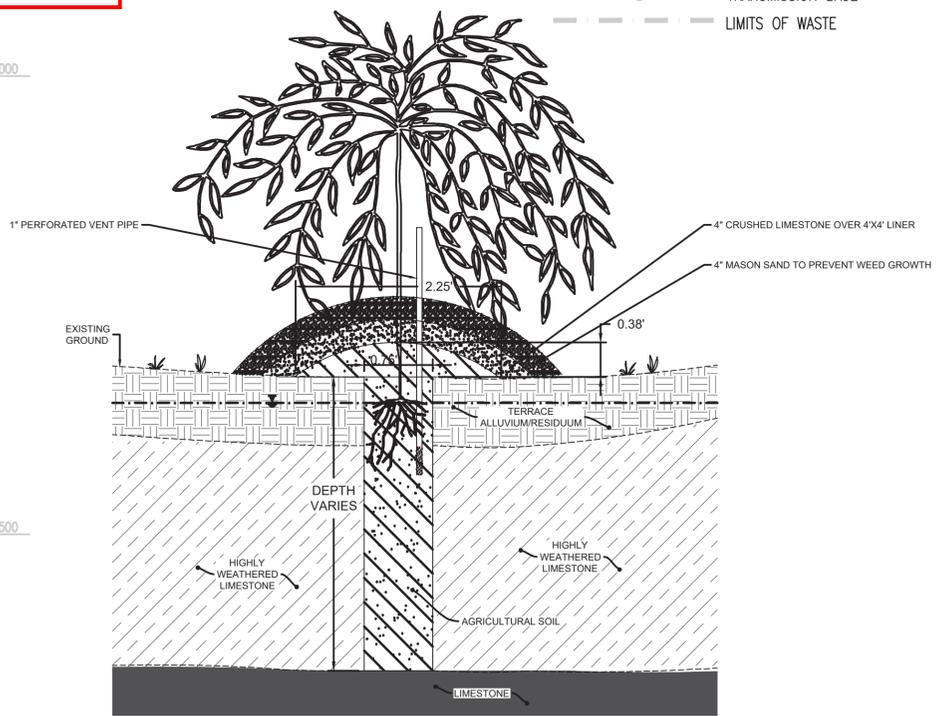
PLOT DATE: 04/29/2021 USER: BOND, P. L:\175618707\TECHNICAL\PRODUCTION\DRAWING\SHEET\_FILES\175618707C-901-EMP.DWG



**NOTE:**

- NORFOLK SOUTHERN (NS) HAS BEEN GRANTED AN EASEMENT TO MAINTAIN THE RAILROAD TRACKS AROUND AP-3. APPROPRIATE NOTIFICATION AND COORDINATION WITH NS IS REQUIRED FOR ANY WORK WITHIN THE EASEMENT.
- THE BASEMAP AND SITE FEATURES DEPICTED IN THIS DRAWING WERE PREPARED AND HAVE BEEN SEALED BY STANTEC CONSULTING SERVICES, INC. THE ADVANCED ENGINEERING METHOD INCLUDING THE TREEWELL UNIT DETAIL DEPICTED ON THIS DRAWING WAS DEVELOPED BY GEOSYNTEC CONSULTANTS, INC. AND ARE PRESENTED CONCEPTUALLY FOR THIS PERMIT.

LEGEND			
--- 600 ---	EXISTING CONTOURS (MAJOR)		EXISTING BUILDINGS
---	EXISTING CONTOURS (MINOR)		EXISTING UNDERGROUND UTILITIES/ PIPES
x 590.0	EXISTING SPOT ELEV.		STORM PIPE
590.0	FINISH SPOT ELEV.		EXISTING STORM PIPE
	DITCHES		GUARD RAIL
---	EXISTING ROADS/BUILDINGS		EXISTING POTABLE WATER
x	EXISTING FENCE		LIGHT POLE
x	FENCE		GUARDPOST
---	PROPERTY LINE		EXISTING UNDERGROUND ELEC. LINES
	EXISTING TREE LINE		TEST WELL
---	STREAM		TRANSMISSION TOWER
---	PERMIT BOUNDARY		FINISH CONTOURS (5-FOOT)
+	GUY ANCHOR		FINISH CONTOURS (1-FOOT)
			POWER POLE
			TRANSMISSION BASE
			LIMITS OF WASTE

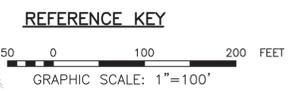


TreeWell® UNIT  
SCALE: NTS



SECTION OR DETAIL NO.

SHEET WHERE SHOWN



TreeWell® LAYOUT PLAN		
<b>CLOSURE DRAWINGS</b>		
FOR PLANT HAMMOND - GEORGIA POWER ASH POND 3 (AP-3) - INACTIVE CCR SURFACE IMPOUNDMENT FLOYD COUNTY, GEORGIA		
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com		
PROJ. NO.	175618707	DWG. 18_18707C-301-TWL
SCALE	AS SHOWN	EDIT MM/DD/YY
DATE	MAY 2021	<b>SHEET 18</b>



PLOT DATE: 06/17/2021 USER: JOHNSON, TRACY  
D:\175618707\TECHNICAL\_PRODUCTION\DRAWING\SHEET\_FILES\ASH\_POND\_3\PERMIT\_LAYOUT\_TWL.DWG

**PLAT ABBREVIATIONS**

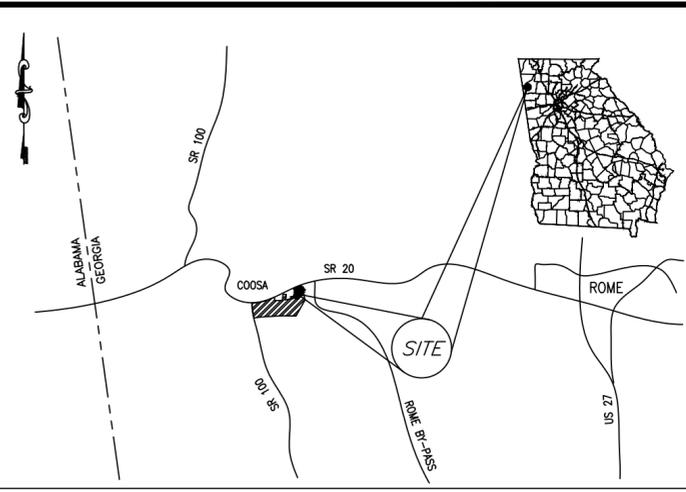
- IPF - Iron Pin Found
- IPS - Iron Pin Set
- FPS - Fence Post Set
- OTP - Open Top Pipe
- CTP - Crimp Top Pipe
- RB - Rebar
- Conc. - Concrete
- Alumn. - Aluminum
- P/L - Property Line
- R/W - Right of Way
- C/L - Centerline
- F/L - Fenceline
- T/L - Transmission Line
- N/F - Now or Formerly
- DB - Deed Book
- PB - Plat Book
- MF - Map File No.
- N.T.S. - Not to Scale
- P.O.C. - Point of Commencement
- P.O.B. - Point of Beginning
- R.R. - Railroad
- AC. - Acre(s)
- SQ. FT. - Square Feet
- FND. - Found
- BH - Geotechnical Bore Hole
- UGP - Underground Power
- OHU - OverHead Utilities
- GPC - Georgia Power Company
- EOW - Edge of Water

**UTILITY LEGEND**

- ⊕ Electric Manhole
- ⊖ Electric Meter
- ⊙ Gas Manhole
- ⊕ Gas Valve
- ⊙ Gas Meter
- ⊙ Sanitary Sewer Manhole
- ⊙ Sanitary Sewer Cleanout
- ⊙ Storm Sewer Manhole
- ⊙ Telephone Manhole
- ⊙ Water Manhole
- ⊙ Water Valve
- ⊙ Water Meter
- ⊕ Fire Hydrant
- ⊙ Well
- ⊙ Power Pole
- ⊙ Transmission Tower
- ⊕ Guy Wire

**MONUMENTATION LEGEND**

- ⊙ Iron Pin Set
- Iron Pin Found
- ⊙ Monument Set
- ⊙ Monument Found
- ⊙ Computed Point
- ⊙ Control or Traverse Point
- ⊙ Geodetic Control Point
- ⊙ Benchmark or Temporary Benchmark (TBM)



**LOCATION MAP - NOT TO SCALE**

- REFERENCES:**
1. SURVEY OF CONTIGUOUS PLANT HAMMOND FOR GEORGIA POWER COMPANY, PREPARED BY LOWE ENGINEERS, DATED 2/2/2018.
  2. CLOSURE DRAWING FOR GEORGIA POWER COMPANY BY STANTEC, DATED JULY 6, 2018.

**Plant Hammond Ash Pond 3 Permitted Site Boundary Legal Description TRACT 1**

All That Tract or parcel of land lying and being in Land Lots 177 and 184 of the 4th District, 4th Section of Floyd County, Georgia, being more particularly described as follows:

COMMENCING at a point located at the intersection of the Central of Georgia R.R. centerline (having a 150 foot R/W), with the southeastern R/W of GA Hwy. 20; running thence S65°14'00"W a distance of 22.25 feet to an iron pin set and the TRUE POINT OF BEGINNING; thence leaving said right of way and running the following courses and distances: 1) S14°05'48"E a distance of 407.30 feet to an iron pin set; 2) S15°04'29"E a distance of 874.76 feet to an iron pin set; 3) N90°00'00"W a distance of 176.70 feet to an iron pin set; 4) southwest, along a curve to the right, an arc distance of 124.76 feet to an iron pin set (said arc having a radius of 490.21 feet and being subtended by a chord having a bearing S41°44'01"W and a chord distance of 124.43 feet); 5) S48°43'28"W a distance of 158.38 feet to an iron pin set; 6) S48°24'42"W a distance of 170.79 feet to an iron pin set; 7) S48°40'49"W a distance 201.20 feet to an iron pin set; 8) S48°51'32"W a distance of 184.61 feet to an iron pin set; 9) S79°40'31"W a distance of 64.30 feet to an iron pin set; 10) S88°38'04"W a distance of 87.66 feet to an iron pin set; 11) N54°21'57"W a distance of 66.25 feet to an iron pin set; 12) N37°51'46"W a distance of 33.24 feet to an iron pin set; 13) northwest along a curve to the left, an arc distance of 31.60 feet to an iron pin set (said arc having a radius of 64.95 feet and being subtended by a chord having a bearing of N53°38'21"W and a chord distance of 31.29 feet); 14) N67°34'37"W a distance of 69.81 feet to an iron pin set; 15) N62°28'04"W a distance of 45.79 feet to an iron pin set; 16) N45°30'24"W a distance of 14.03 feet to an iron pin set; 17) S70°14'31"W a distance of 251.14 feet to an iron pin set; 18) S75°14'44"W a distance of 173.55 feet to an iron pin set; 19) N51°51'22"W a distance of 27.89 feet to an iron pin set; 20) N13°06'16"W a distance of 110.19 feet to an iron pin set; 21) N05°45'02"W a distance of 129.98 feet to an iron pin set; 22) N38°09'50"E a distance of 49.16 feet to an iron pin set; 23) N88°20'09"E a distance of 19.39 feet to an iron pin set; 24) N87°09'05"E a distance of 42.73 feet to an iron pin set; 25) N85°36'06"E a distance of 116.79 feet to an iron pin set; 26) N84°07'48"E a distance of 128.51 feet to an iron pin set; 27) N08°17'40"E a distance of 145.25 feet to an iron pin set; 28) N16°37'48"E a distance of 137.08 feet to an iron pin set; 29) N84°26'54"E a distance of 25.00 feet to an iron pin set; 30) N10°50'15"E a distance of 288.36 feet to an iron pin set; 31) N13°44'46"W a distance of 487.97 feet to an R.R. iron found, located at the southwest R/W of GA Hwy. 20; 32) N63°47'43"E along the right of way of GA HWY 20 a distance of 771.58 feet to an iron pin set; 33) northwest, along a curve to the right, an arc distance of 273.70 feet (said arc having a radius of 11409.18 feet and being subtended by a chord having a bearing of N64°28'57"E and a chord distance of 273.69 feet) to the TRUE POINT OF BEGINNING.

Said tract being 36.96 ACRES, more or less.

**Plant Hammond Ash Pond 3 Permitted Site Boundary Legal Description TRACT 2**

All that tract or parcel of land lying and being in Land Lots 177 and 184 of the 4th District, 4th Section, Floyd County, Georgia and being more particularly described as follows:

BEGINNING at a point located at the intersection of the centerline of the Central of Georgia R.R. (having a 150 foot width right-of-way), with the southeasterly right-of-way line of GA Hwy. 20 (having a variable width right-of-way), said point having coordinates of N 1,551,824.32 and E 1,942,800.36, NAD83, Georgia State Plane, NAD83(94) West; thence run northeasterly along said southeasterly right-of-way line along the arc of a curve to the right, an arc distance of 76.08 feet to a point located at the intersection of said southeasterly right-of-way line with the easterly right-of-way line of the Central of Georgia R.R., having a radius of 11,409.18 feet, being subtended by a chord bearing N 65°28'14" E a chord distance of 76.08 feet; thence leave said intersection and run southeasterly along said easterly right-of-way line of the Central of Georgia R.R. S 14°34'48.23" E a distance of 285.72 feet to an iron pin set, said iron pin set having coordinates of N 1,551,579.37 and E 1,942,941.46, NAD83, Georgia State Plane, NAD83(94) West, said iron pin set being the TRUE POINT OF BEGINNING.

FROM THE TRUE POINT OF BEGINNING AS THUS ESTABLISHED, thence leave said easterly right-of-way line and run the following courses and distances: 36) N 80°25'32" E a distance of 78.45 feet to a point; 37) S 30°06'24" E a distance of 71.38 feet to a point; 38) S 15°43'59" W a distance of 122.37 feet to a point; 39) S 41°56'28" E a distance of 86.73 feet to a point; 40) S 37°11'05" E a distance of 78.99 feet to a point; 41) S 32°37'08" E a distance 64.41 feet to a point; 42) S 19°44'49" E a distance of 89.92 feet to a point; 43) S 53°07'47" W a distance of 54.25 feet to a point; 44) S 30°57'51" W a distance of 63.27 feet to a point; 45) S 24°04'18" W a distance of 83.10 feet to a point; 46) N 05°44'35" E a distance of 56.79 feet to a point; 47) S 37°52'29" E a distance of 49.49 feet to a point; 48) S 48°33'46" W a distance of 69.12 feet to an iron pin set located on the easterly right-of-way line of the Central of Georgia R.R.; 49) thence run northwesterly along said easterly right-of-way line N 14°34'23" W a distance of 761.30 feet to an iron pin set, said iron pin set being the TRUE POINT OF BEGINNING.

Said tract or parcel of land containing 2.00 ACRES.

**Plant Hammond Ash Pond 3 Tract 1 Call Table**

Course	Bearing	Distance	Arc	Radius
1	S 14°05'48" E	407.30'		
2	S 15°04'29" E	874.76'		
3	N 90°00'00" W	176.70'		
4	S 41°44'01" W	124.43'	124.76'	490.21'
5	S 48°43'28" W	158.38'		
6	S 48°24'42" W	170.79'		
7	S 48°40'49" W	201.20'		
8	S 48°51'32" W	184.61'		
9	S 79°40'31" W	64.30'		
10	S 88°38'04" W	87.66'		
11	N 54°21'57" W	66.25'		
12	N 37°51'46" W	33.24'		
13	N 53°38'21" W	31.29'	31.60'	64.95'
14	N 67°34'37" W	69.81'		
15	N 62°28'04" W	45.79'		
16	N 45°30'24" W	14.03'		
17	S 70°14'31" W	251.14'		
18	S 75°14'44" W	173.55'		
19	N 51°51'22" W	27.89'		
20	N 13°06'16" W	110.19'		
21	N 05°45'02" W	129.98'		
22	N 38°09'50" E	49.16'		
23	N 88°20'09" E	19.39'		
24	S 87°09'05" E	42.73'		
25	N 85°36'06" E	116.79'		
26	N 84°07'48" E	128.51'		
27	N 08°17'40" E	145.25'		
28	N 16°37'48" E	137.08'		
29	N 84°26'54" E	25.00'		
30	N 10°50'15" E	288.36'		
31	N 13°44'46" W	487.97'		
32	N 63°47'43" E	771.58'		
33	N 64°28'57" E	273.69'	273.70'	11409.18'

**Plant Hammond Ash Pond 3 Tract 2 Call Table**

Course	Bearing	Distance	Arc	Radius
34	N 65°28'14" E	76.08'	76.08'	11,409.18'
35	S 14°34'23" E	285.72'		
36	N 80°25'32" E	78.45'		
37	S 30°06'24" E	71.38'		
38	S 15°43'59" E	122.37'		
39	S 41°56'28" E	86.73'		
40	S 37°11'05" E	78.99'		
41	S 32°37'08" E	64.41'		
42	S 19°44'49" E	89.92'		
43	S 53°07'47" W	54.25'		
44	S 30°57'51" W	63.27'		
45	S 24°04'18" W	83.10'		
46	S 05°44'35" E	56.79'		
47	S 37°52'29" E	49.49'		
48	S 48°33'46" W	69.12'		
49	N 14°34'23" W	761.30'		

**SURVEY CLOSURE STATEMENT**

The Field Data upon which this plat is based has a closure precision of one foot in 58,769 feet, and an angular error of <1" per angle point, and was adjusted using the Least Squares method.

This plat has been calculated for closure and is found to be accurate within one foot in 567,035 feet.

Linear and Angular Measurements obtained using Leica TS-15 & Trimble SPS730.

Initial Field Work completed 11/29/17.

Subsequent Field Work completed 01/04/21.

**NOTE: BACKGROUND IMPROVEMENTS PER CONTIGUOUS PLAT HAMMOND BY LOWE ENGINEERS, LLC, DATED AUGUST 15, 2018**

**F.I.R.M. FLOOD NOTE: BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS LOCATED WITHIN FLOOD HAZARD AREAS AE, X\* AND X\*\* AS PER THE FLOOD INSURANCE RATE MAP (F.I.R.M.) OF FLOYD COUNTY, GEORGIA, MAP NUMBERS 13115C0163E, 13115C0164E & 13115C0251E, ALL HAVING AN EFFECTIVE DATE OF SEPTEMBER 25, 2009.**

**X\*: AREA OF MINIMAL FLOOD HAZARD**  
**X\*\*: 0.2% ANNUAL CHANCE FLOOD HAZARD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN ONE SQUARE MILE**

SURVEYOR: WILLIAM J. DANIEL III  
 P.L.S. #2257  
 LOWE ENGINEERS LLC  
 990 HAMMOND DRIVE, SUITE 900  
 ATLANTA, GA. 30328  
 PHONE (770) 857-8400



I hereby certify that this survey has been prepared in conformity with The Technical Standards for Property Surveys in Georgia as set forth in Chapter 180-7 on the Rules of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in the Georgia Plat Act O.C.G.A. 15-6-67.

And further certify that according to Georgia Code Section 15-6-67(d), this plat is not required to be reviewed by any local governing authorities prior to recording. Per said section, "No approval shall be required if no new streets or roads are created or no new utility improvements are required or no new sanitary sewer or approval of a septic tank is required." No such improvements are required hereon.

Date: January 5, 2021

12-24-2020 ADD ADDITIONAL PERMIT AREA  
 01-05-2021 PER CLIENT COMMENTS

**GEORGIA POWER CO., ATLANTA, GA. Land Department**

**PLANT HAMMOND ASH POND 3 PERMITTED SITE BOUNDARY**

LAND LOTS 177 & 184, 4TH DISTRICT, 4TH SECTION, FLOYD COUNTY, GEORGIA

APPROVALS	DR.	TR.	Checked
	DE		WJD/III
	SCALE 1" = 200'		DATE 9.4.2020
DRAWING NUMBER <b>P467-3</b>			
SHEET 1 OF 2			

