# CLOSURE DRAWINGS PLANT HAMMOND - GEORGIA POWER ASH POND 2 (AP-2) EXISTING CCR SURFACE IMPOUNDMENT

FLOYD COUNTY, GEORGIA

PREPARED FOR

# GEORGIA POWER

PREPARED BY



# **INDEX OF SHEETS**

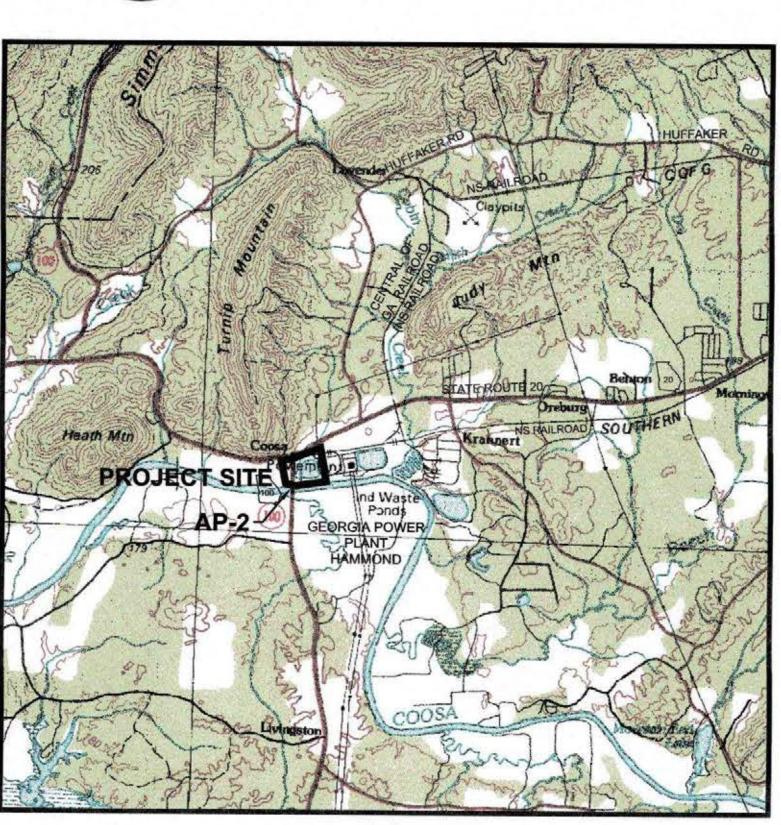
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- DEWATERING PLAN
- EXCAVATION PLAN
- FINAL GRADE PLAN
- EROSION CONTROL PLAN BASELINE PROFILE
- CROSS SECTIONS
- 10-11 DETAILS
- COMPLIANCE MONITORING NETWORK
- P467(2) PLANT HAMMOND ASH POND 2 PERMITTED SITE BOUNDARY
- 1 OF 1 ENVIRONMENTAL MONITORING PLAN

RESPONSIBLE OFFICIAL GENERAL MANAGER GEORGIA POWER ENVIRONMENTAL AFFAIRS 241 RALPH MCGILL BLVD NE

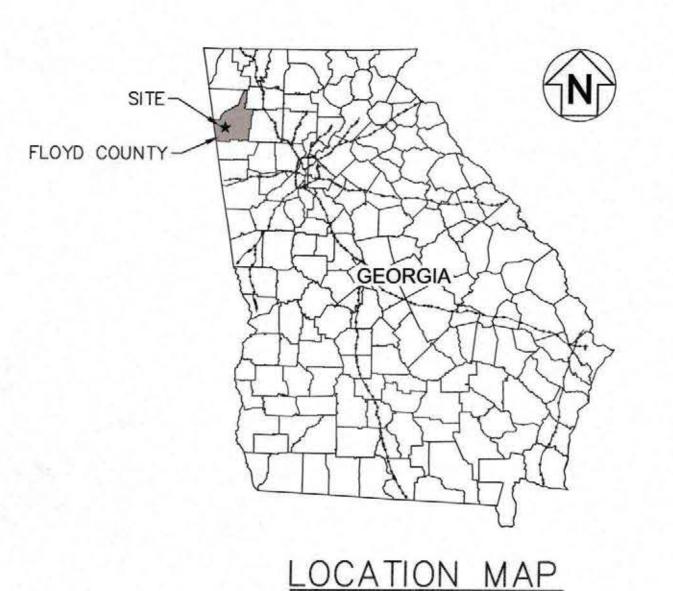
ATLANTA, GEORGIA 30308

404-506-6505

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



SITE LOCATION MAP SCALE: 1"=5000"





COVER SHEET

## **CLOSURE DRAWINGS**

PLANT HAMMOND - GEORGIA POWER ASH POND 2 (AP-2) - EXISTING CCR SURFACE IMPOUNDMENT FLOYD COUNTY, GEORGIA

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

NOT TO SCALE



PROJ. NO. 175618707 DWG. 01\_18707-001-CVR EDIT 07/29/19 SCALE AS SHOWN SHEET 1 OF 12 DATE DECEMBER 2019

#### ABBREVIATIONS:

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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
    CONC. 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
      PV'D_PAVED
     PERF._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
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#### GENERAL NOTES

- 1. PROJECT GRID IS GEORGIA STATE PLANE GRID, NAD 83, WEST ZONE.
- 2. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 8. EXISTING ACCESS AND PLANT ROADS SHALL BE MAINTAINED AND REPAIRED AS NECESSARY DURING CONSTRUCTION.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. 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.
- 13. THE CLEAN-UP OF ALL ON-SITE DITCHES, PIPES, MANHOLES, INLETS, ETC. THAT RECEIVE STORMWATER RUNOFF FROM SITE CONSTRUCTION ACTIVITIES SHALL BE PERFORMED.
- 14. THE CCR REMOVAL STRATEGY IS PROVIDED IN THE CQA PLAN.







**GENERAL NOTES** 

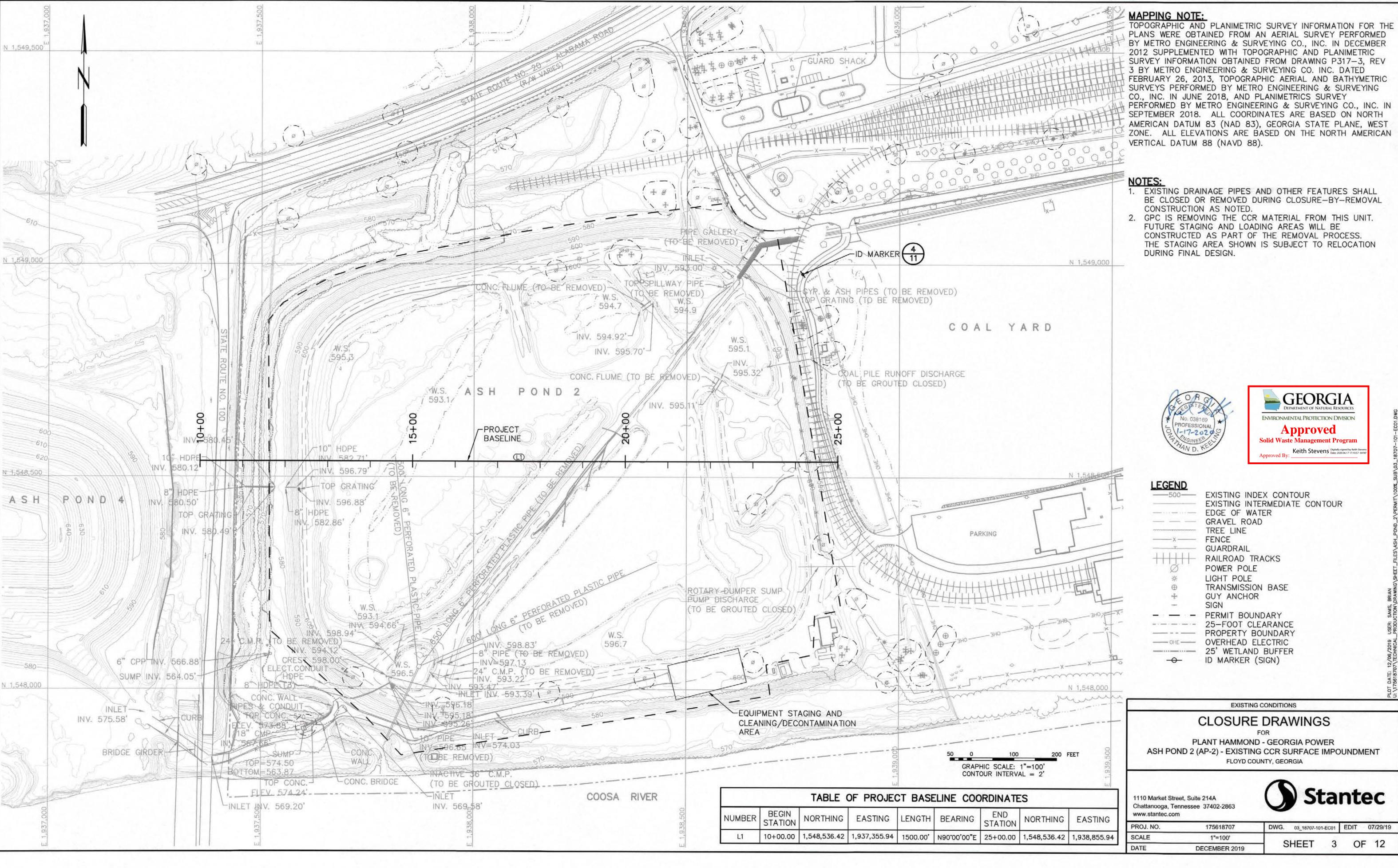
#### **CLOSURE DRAWINGS**

PLANT HAMMOND - GEORGIA POWER ASH POND 2 (AP-2) - EXISTING CCR SURFACE IMPOUNDMENT FLOYD COUNTY, GEORGIA

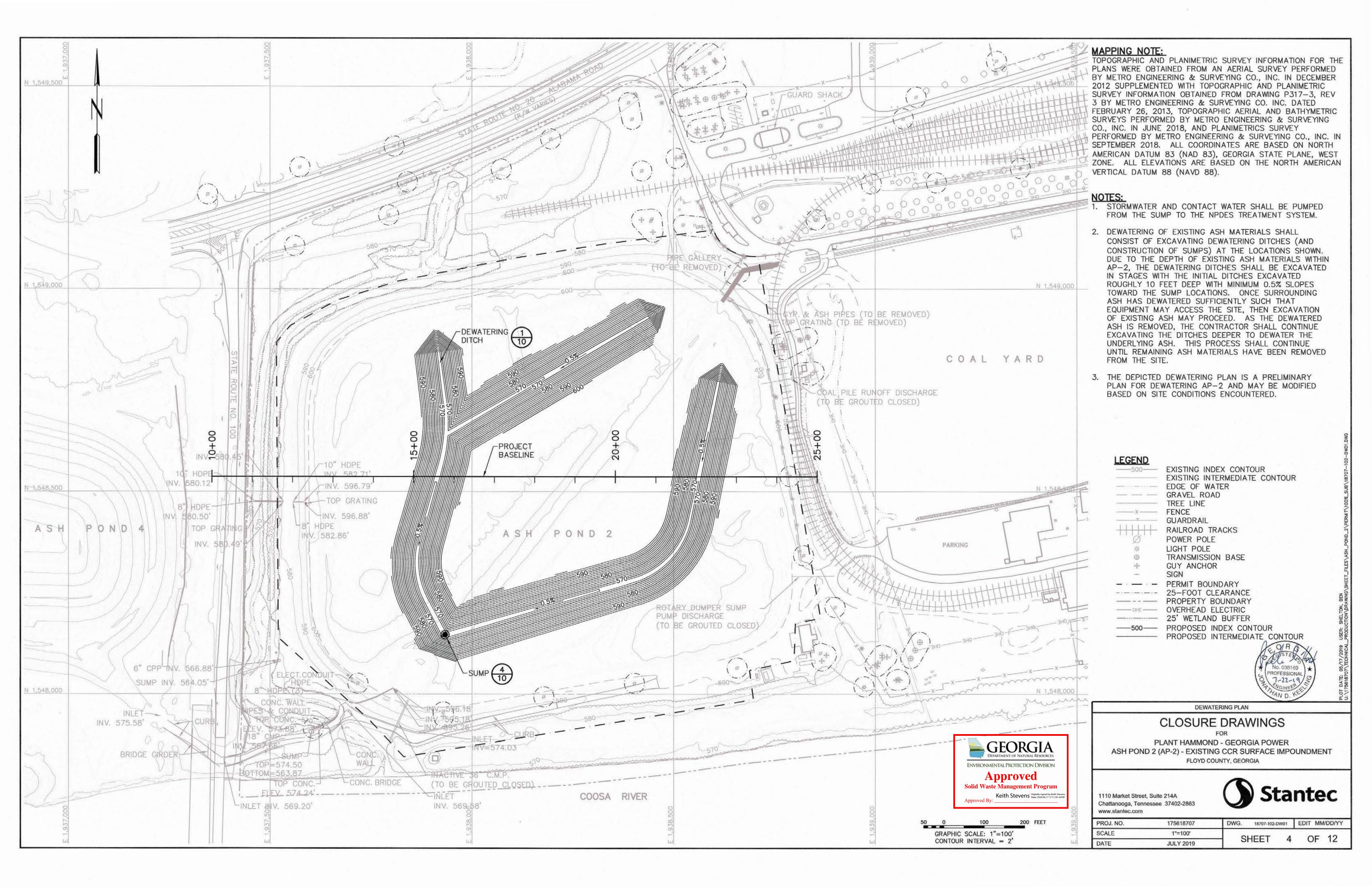
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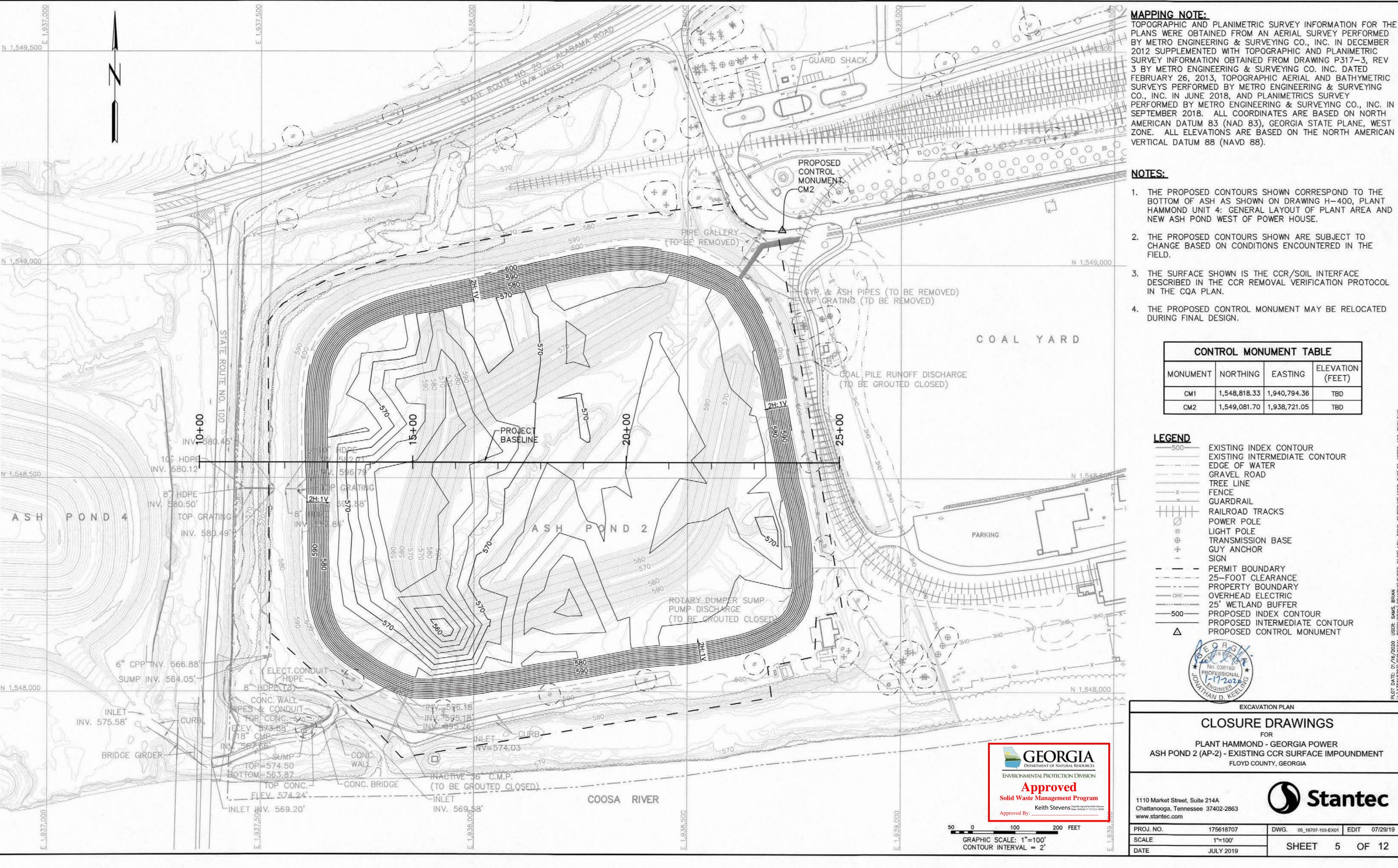


PROJ. NO.	175618707	DWG. 18707-002-	GN1	EDIT MM	//DD/YY
SCALE	AS SHOWN	SHEET 2		OF 12	12
DATE	JULY 2019	SHEET	2	OF	12



PROJ. NO.	175618707	DWG. 03_18707-101-E	C01	EDIT	07/29/19	
SCALE	1"=100'	OUEET	^	0.5	40	
DATE	DECEMBER 2019	SHEET 3		OF 12		





PLANS WERE OBTAINED FROM AN AERIAL SURVEY PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN DECEMBER 2012 SUPPLEMENTED WITH TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION OBTAINED FROM DRAWING P317-3, REV 3 BY METRO ENGINEERING & SURVEYING CO. INC. DATED FEBRUARY 26, 2013, TOPOGRAPHIC AERIAL AND BATHYMETRIC SURVEYS PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN JUNE 2018, AND PLANIMETRICS SURVEY PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN SEPTEMBER 2018. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATION'S ARE BASED ON THE NORTH AMERICAN

- 1. THE PROPOSED CONTOURS SHOWN CORRESPOND TO THE BOTTOM OF ASH AS SHOWN ON DRAWING H-400, PLANT HAMMOND UNIT 4: GENERAL LAYOUT OF PLANT AREA AND
- 2. THE PROPOSED CONTOURS SHOWN ARE SUBJECT TO CHANGE BASED ON CONDITIONS ENCOUNTERED IN THE
- DESCRIBED IN THE CCR REMOVAL VERIFICATION PROTOCOL
- 4. THE PROPOSED CONTROL MONUMENT MAY BE RELOCATED

MONUMENT	NORTHING	EASTING	ELEVATION (FEET)
CM1	1,548,818.33	1,940,794.36	TBD
CM2	1,549,081.70	1,938,721.05	TBD

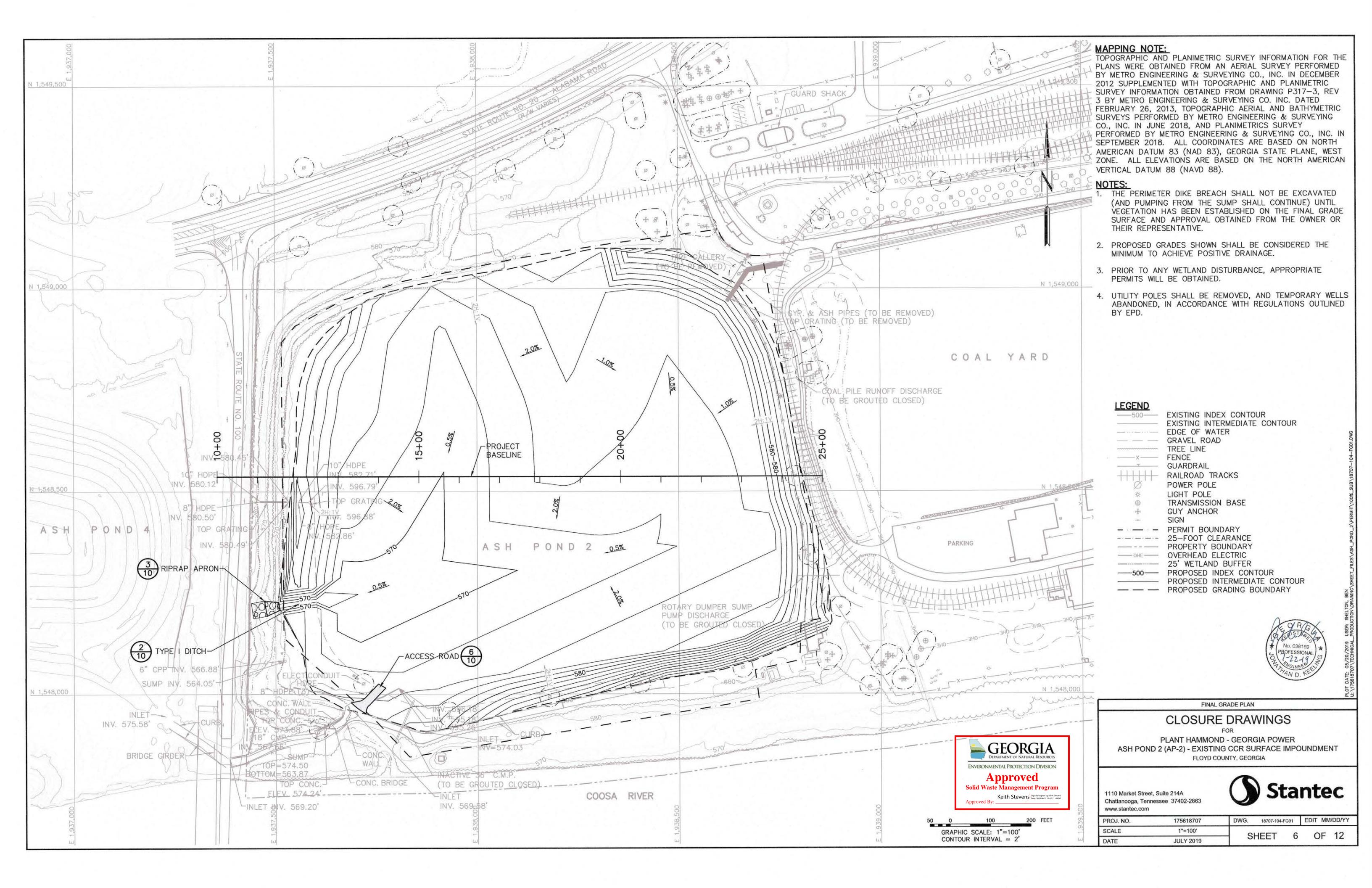


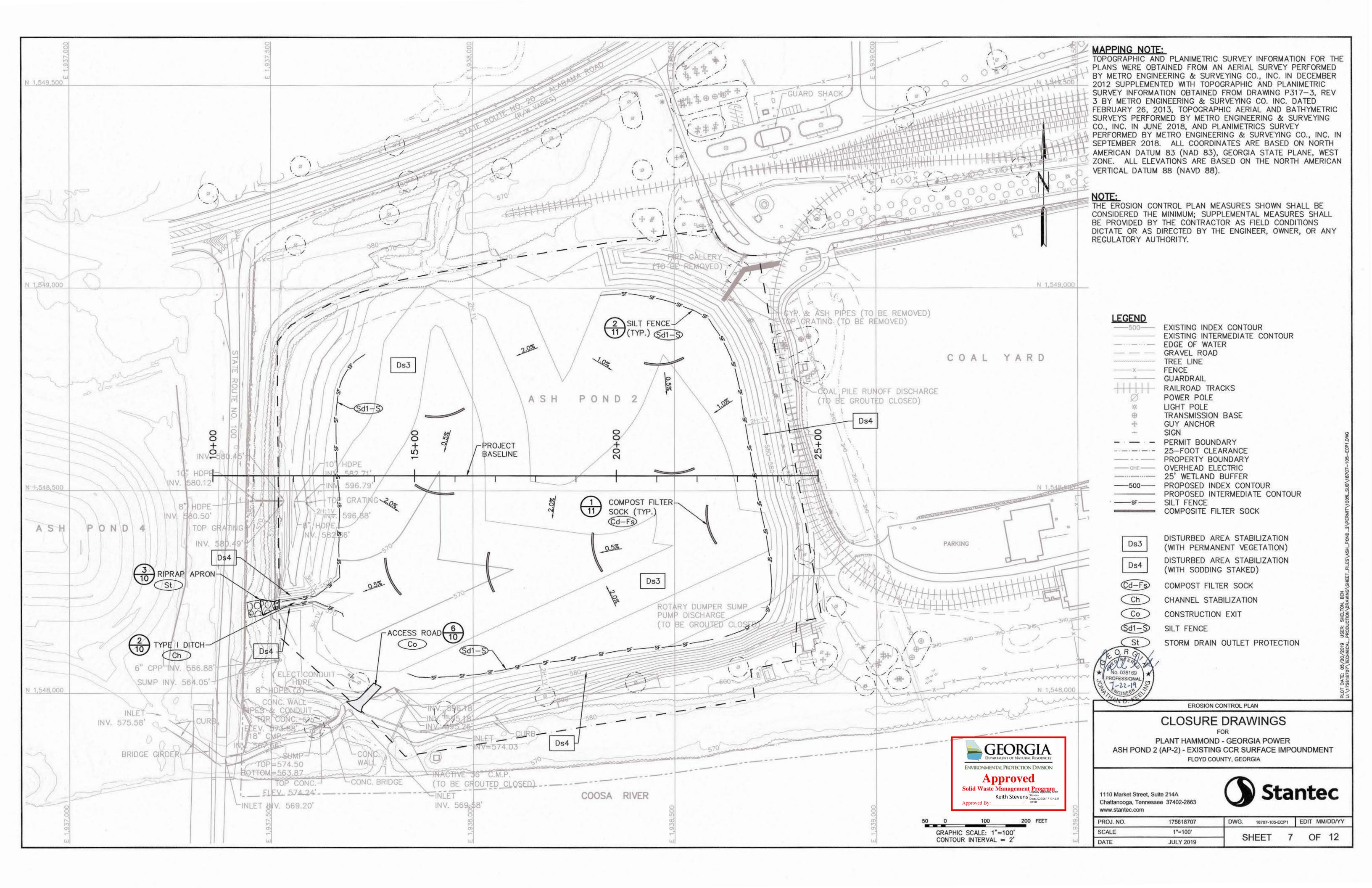
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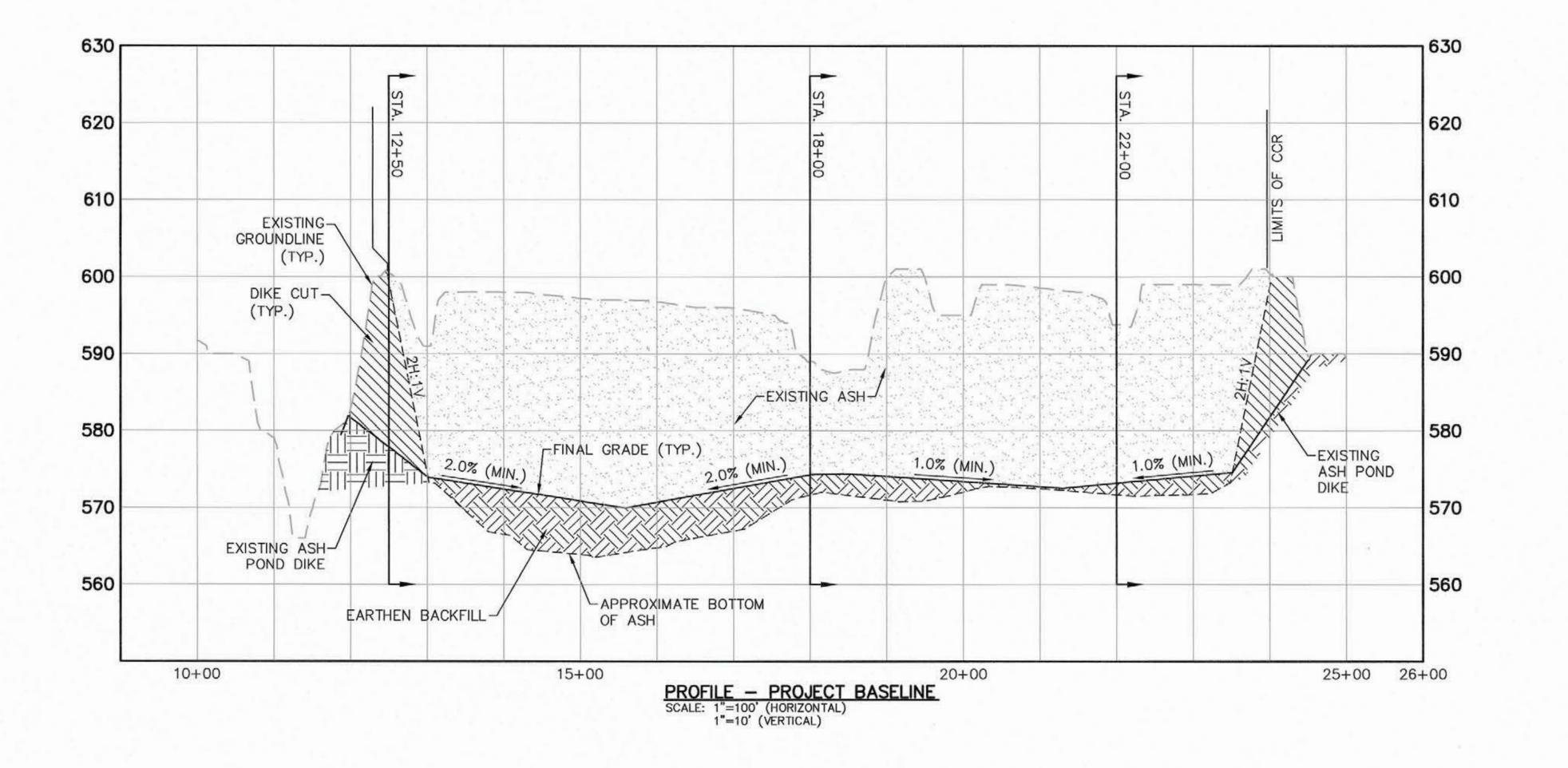
PLANT HAMMOND - GEORGIA POWER ASH POND 2 (AP-2) - EXISTING CCR SURFACE IMPOUNDMENT

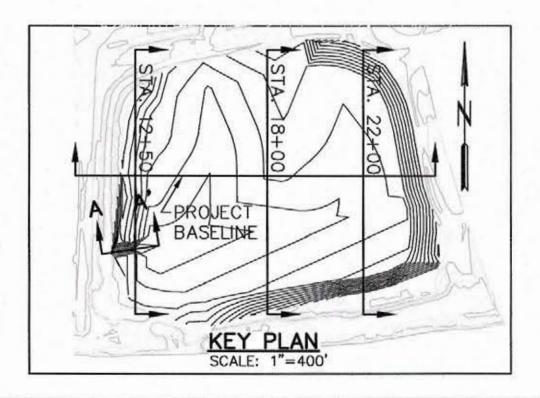


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SCALE	1"=100'	OUEET 5 OF 10
DATE	JULY 2019	SHEET 5 OF 12













BASELINE PROFILE

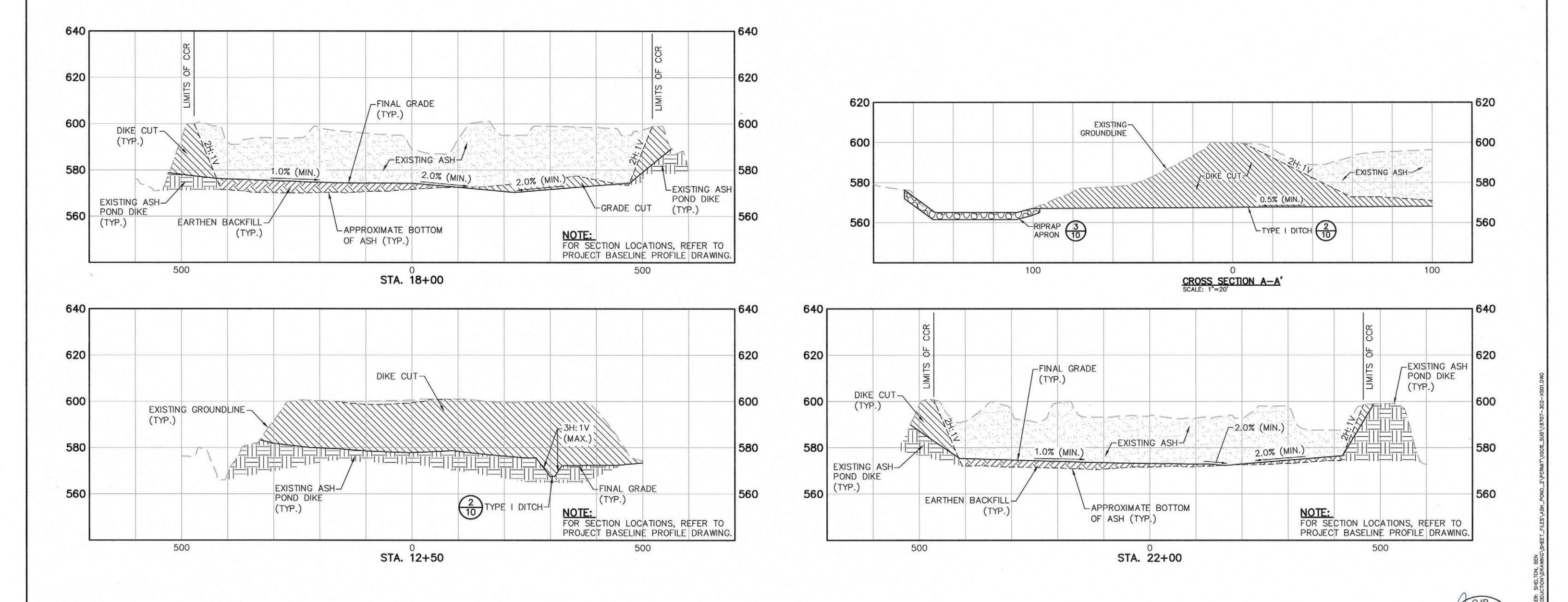
# **CLOSURE DRAWINGS**

PLANT HAMMOND - GEORGIA POWER ASH POND 2 (AP-2) - EXISTING CCR SURFACE IMPOUNDMENT FLOYD COUNTY, GEORGIA

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DATE	JULY 2019	SHEET	8	OF	12



CROSS SECTIONS
SCALE: 1"=100' (HORIZONTAL)
1=20' (VERTICAL)



-SECTION OR DETAIL NO. - SHEET WHERE SHOWN

REFERENCE KEY

# **CLOSURE DRAWINGS**

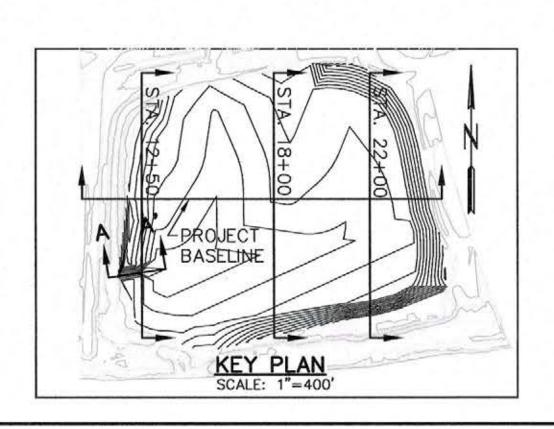
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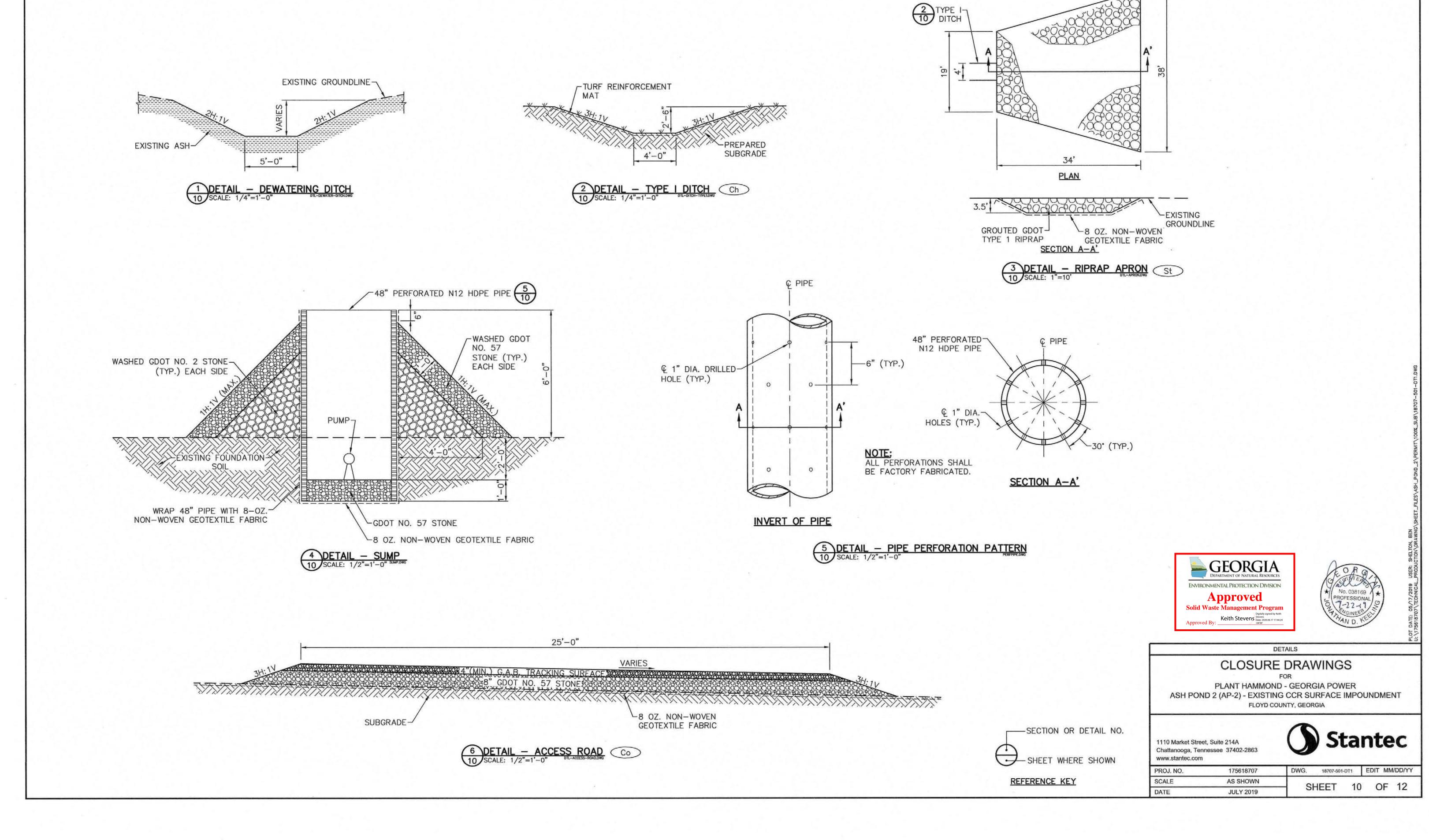
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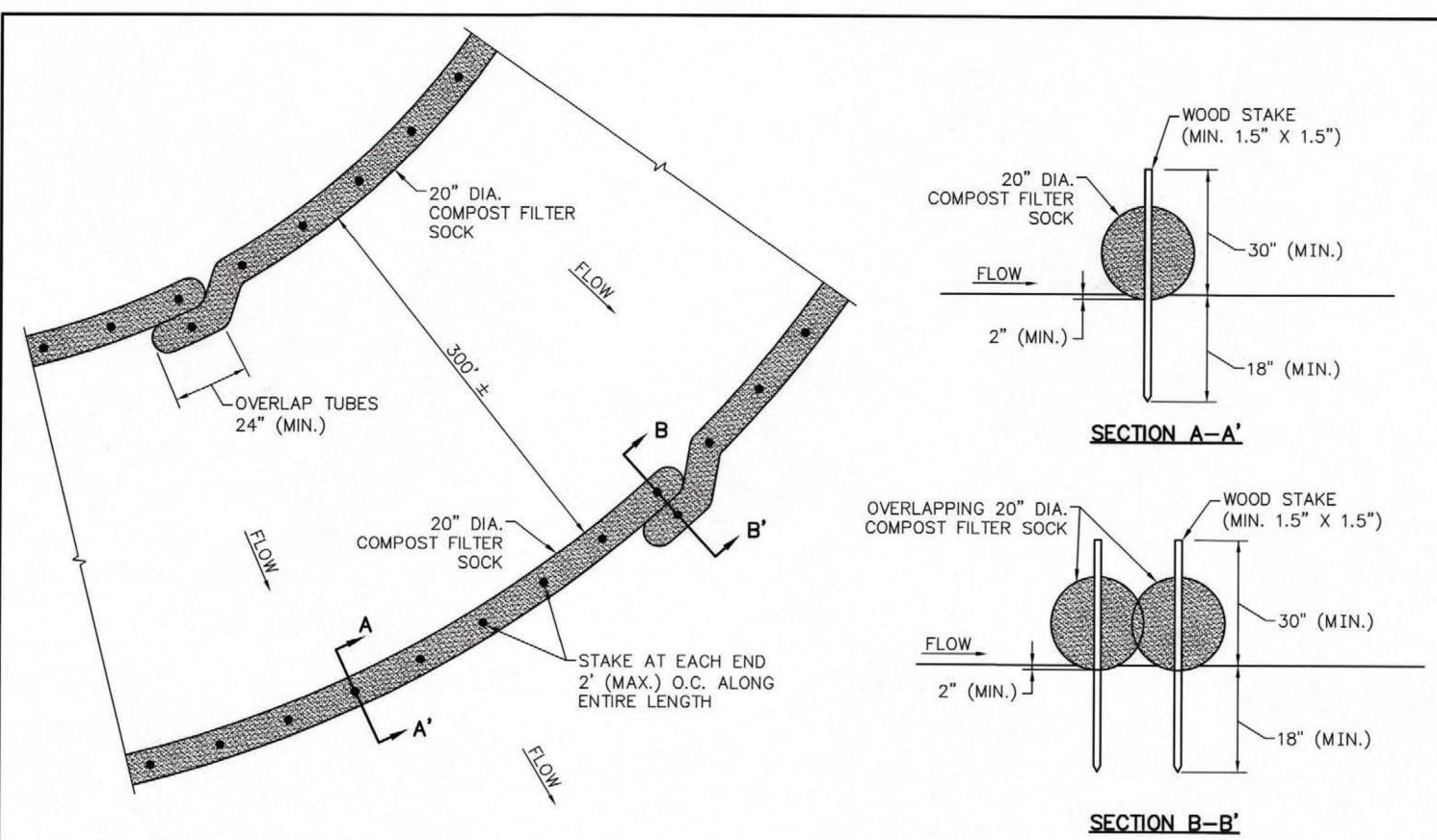
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DWG. 18707-302-XS01 EDIT MM/DD/YY PROJ. NO. 175618707 SCALE AS SHOWN SHEET 9 OF 12 DATE JULY 2019



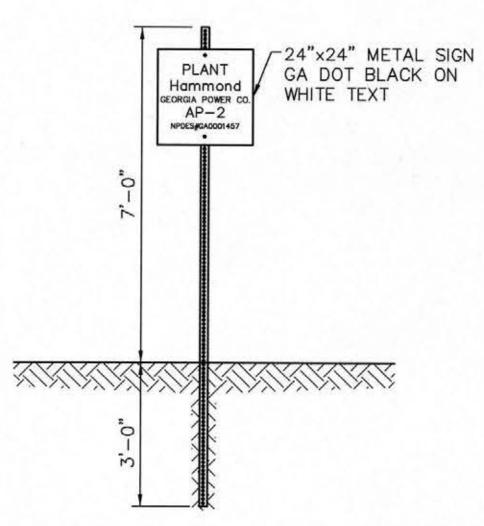


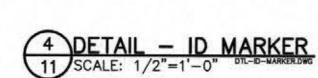


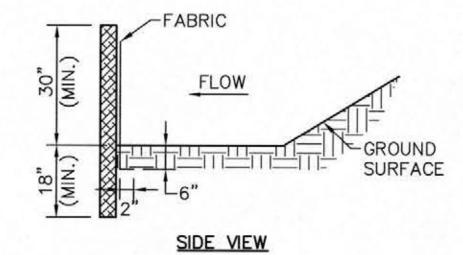
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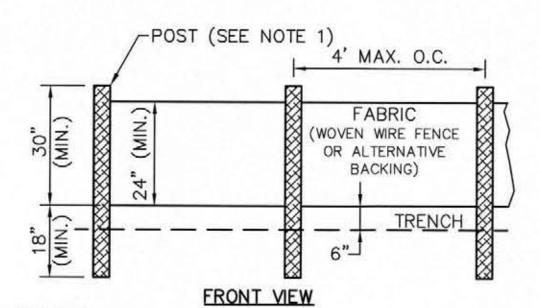
- 1. COMPOST FILTER SOCKS SHALL BE INSTALLED WITH WOODEN STAKES (MIN. 1.5" X 1.5" ACTUAL). THE STAKE SHALL BE EMBEDDED A MINIMUM OF 18 INCHES.
- 2. COMPOST FILTER SOCKS SHALL BE TRENCHED IN A MINIMUM OF 2 INCHES.
- 3. IF MORE THAN ONE COMPOST FILTER SOCK IS PLACED IN A ROW IN SLOPE APPLICATION, THE COMPOST FILTER SOCKS SHALL BE OVERLAPPED A MINIMUM OF 24 INCHES TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT. WHEN USED IN DITCHES, TWO ROWS OF FILTER SOCKS SHALL BE PLACED ON THE CHANNEL BOTTOM WITH STAGGERED JOINTS AS SHOWN.
- 4. CONSTRUCTED IN ACCORDANCE WITH CHAPTER 6 BMP STANDARDS AND SPECIFICATIONS FOR GENERAL LAND-DISTURBING ACTIVITIES OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION.









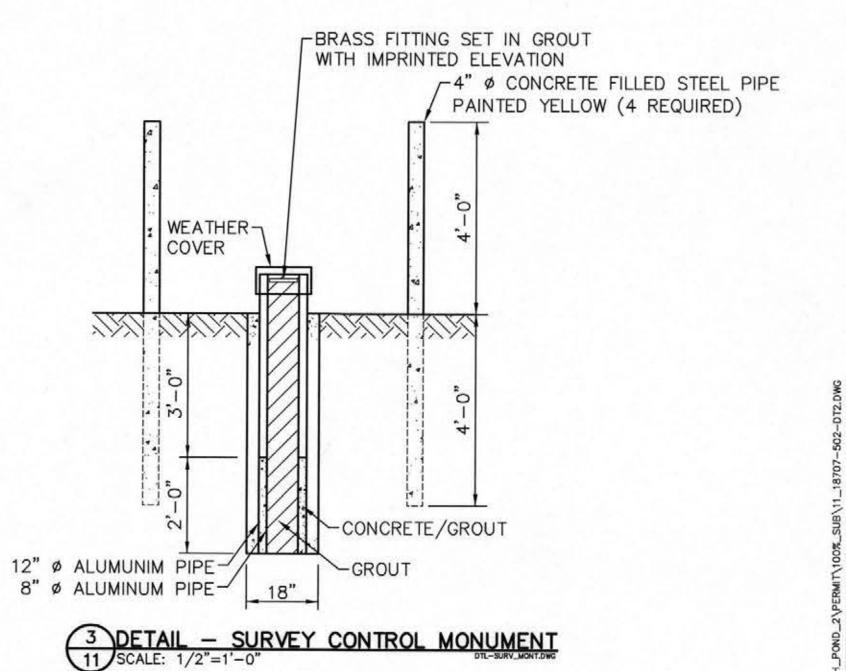


NOTES:

1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

 CONSTRUCTED IN ACCORDANCE WITH CHAPTER 6 BMP STANDARDS AND SPECIFICATIONS FOR GENERAL LAND DISTURBING ACTIVITIES OF GEORGIA SOIL AND WATER CONSERVATION COMMISSION.

2 DETAIL - SILT FENCE - TYPE C Sd1-S







DETAILS

#### **CLOSURE DRAWINGS**

PLANT HAMMOND - GEORGIA POWER
ASH POND 2 (AP-2) - EXISTING CCR SURFACE IMPOUNDMENT
FLOYD COUNTY, GEORGIA

SHEET WHERE SHOWN

REFERENCE KEY

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PROJ. NO.	175618707	DWG. 11_18707-502-DT2	EDIT 07/29/19
SCALE	AS SHOWN	OUEET 4	4 05 40
DATE	DECEMBER 2019	SHEET 1	1 OF 12

