

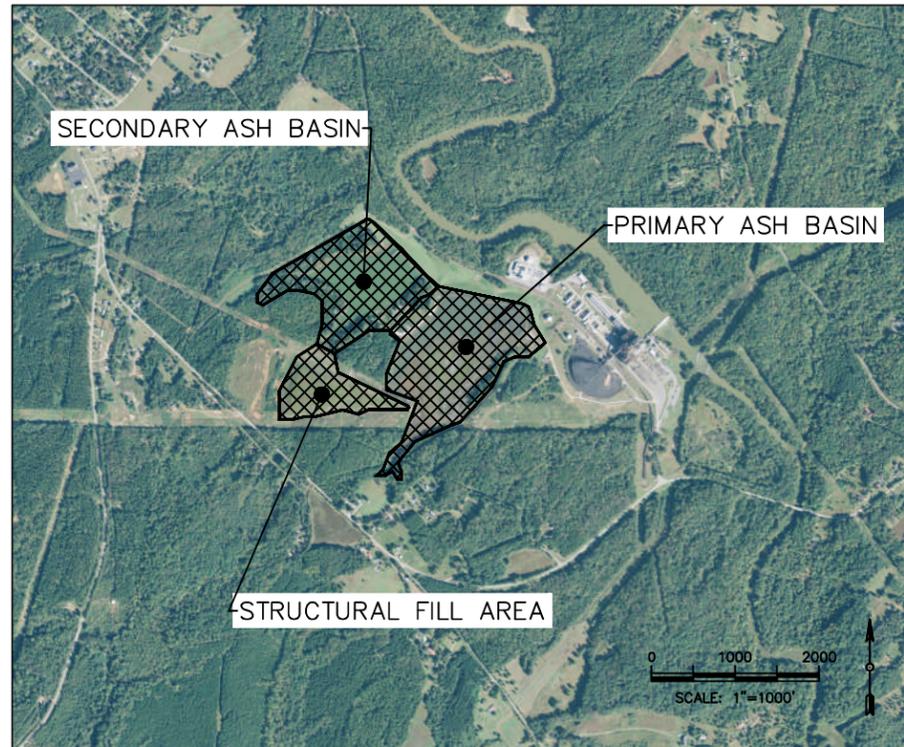
## DRAWINGS

# W.S. LEE STEAM STATION

BELTON, ANDERSON COUNTY, SOUTH CAROLINA

## CONCEPTUAL CLOSURE PLAN - PRIMARY ASH BASIN, SECONDARY ASH BASIN AND STRUCTURAL FILL AREA

SOUTH CAROLINA REGULATION R61-82 - NPDES PERMIT # - SC0002291  
DECEMBER 15, 2015



**DWG NO.**

- 01
- 02
- 03
- 04
- 05A
- 05B
- 06
- 07
- 08
- 09
- 10
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- 13
- 14
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- 16

**DWG DESCRIPTION**

- COVER SHEET
- GENERAL NOTES
- EXISTING SITE FEATURES
- EXISTING SITE CONDITIONS PLAN - TOPOGRAPHIC CONTOURS
- CONSTRUCTION SEQUENCE
- CONSTRUCTION SEQUENCE (CONT.)
- SITE PLAN
- SITE PREPARATION PLAN
- PRE-CONSTRUCTION STORMWATER MANAGEMENT PLAN
- POST-CLOSURE STORMWATER MANAGEMENT PLAN
- SECONDARY ASH BASIN EXCAVATION AND CONCEPTUAL DEWATERING PLAN
- PRIMARY ASH BASIN CONCEPTUAL DEWATERING PLAN
- STRUCTURAL FILL AREA EXCAVATION PLAN
- PRIMARY ASH BASIN EXCAVATION PLAN
- LANDFILL CONCEPTUAL FINAL GRADE PLAN
- EROSION AND SEDIMENT CONTROL DETAILS
- CONCEPTUAL STORMWATER MANAGEMENT CONTROLS

**PREPARED FOR:**  
DUKE ENERGY (OWNER)  
526 SOUTH CHURCH STREET  
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**PREPARED BY:**  
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CONCEPTUAL PLANS

NOT FOR  
CONSTRUCTION

TITLE CONCEPTUAL CLOSURE PLAN - PRIMARY ASH BASIN, SECONDARY ASH BASIN AND STRUCTURAL FILL AREA		
COVER SHEET		
FOR W.S. LEE STEAM STATION		
	SCALE: NTS DWG TYPE: JOB NO: 60432646 DATE: 12-15-2015	DES: KRA DFTR: MLS CHKD: ARS ENGR: FM APPD: JDP
FILENAME: DWG SIZE: ARCH D 24.0"x36.0"	DRAWING NO. <b>01</b>	REVISION <b>0</b>

LEGEND

	EXISTING TOPOGRAPHIC CONTOUR
	POST EXCAVATION TOPOGRAPHIC CONTOUR
	TRUCK ACCESS ROUTES
	EXISTING TRANSMISSION TOWER
	EXISTING SOIL ROAD
	EXISTING GRAVEL ROAD
	EXISTING RIP RAP
	EXISTING VEGETATION
	EXISTING SLUICE PIPE
	EXISTING MONITORING WELL
	EXISTING PIEZOMETER
	EXISTING TREE LINE
	EXISTING WETLAND
	EXISTING RAIL TRACKS
	EXISTING PROPERTY BOUNDARY
	EXISTING ASH MANAGEMENT AREA BOUNDARY
	EXISTING ASH MANAGEMENT AREA BOUNDARY (INFERRED)
	EXISTING WATER LEVEL
	100-YEAR FLOODPLAIN
	PROPOSED ROAD IMPROVEMENTS
	PROPOSED ROAD
	PROPOSED STORMWATER DITCH
	CONTACT WATER CONVEYANCE TO TEMPORARY TREATMENT FACILITY
	SILT FENCE
	PROPOSED ROCK CHECK DAM
	DEWATERING PERIMETER CHANNEL / RIM DITCH
	DEWATERING TRENCHES (MAXIMUM 10' DEPTH) AND WINDROWS
	GENERAL DEWATERING FLOW DIRECTION

ABBREVIATIONS

CURTALMENT/ACRONYM

ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT	
BMP	BEST MANAGEMENT PRACTICES
CCR	COAL COMBUSTION RESIDUALS
C/L	CENTER LINE
CMP	CORRUGATED METAL PIPE
CO#	CLEANOUT FOR SEEPAGE PIPE
CL	CLEARANCE
CY	CUBIC YARD
C-SWPPP	COMPREHENSIVE STORMWATER POLLUTION PREVENTION PLAN
DIA	DIAMETER
EL., ELEV.	ELEVATION
HDPE	HIGH DENSITY POLYETHYLENE
HORZ.	HORIZONTAL
I.D.	INNER DIAMETER
INV.	INVERT
K.V.	KILOVOLT
L/D	LIMIT OF DISTURBANCE
M.H., MH	MANHOLE
MAX.	MAXIMUM
MIN.	MINIMUM
N/A	NOT APPLICABLE
N.T.S.	NOT TO SCALE
NO., #	NUMBER
O.C.	ON CENTER
O.D.	OUTER DIAMETER
OS-SWPPP	ON-SITE STORMWATER POLLUTION PREVENTION PLAN
RCP	REINFORCED CONCRETE PIPE
SCDHEC	SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONCERN
SCDOT	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
SDR	STANDARD DIMENSIONAL RATIO
SP#	SEEPAGE PIPE
STA	STATION OR STATIONING
SY	SQUARE YARD
TBD	TO BE DETERMINED
T.L.	TRANSMISSION LINE
TBR&R	TO BE REMOVED AND REPLACED
TYP.	TYPICAL
VERT.	VERTICAL
WOS	WATERS OF THE STATE
WSE	WATER SURFACE ELEVATION
WWF	WELDED WIRE FABRIC
WP	WORK PLAN

EROSION AND SEDIMENT CONTROL NOTES:

- IF NECESSARY, AS DETERMINED BY THE ENGINEER, SLOPES WHICH EXCEED MORE THAN TEN (10) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL SLOPE IS BROUGHT TO GRADE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- PROVIDE SILT FENCE AND / OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER GRADING COMPLETION.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAYS FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL REMOVE MUD / SOIL FROM PAVEMENT DAILY, AS REQUIRED.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, WITHIN THE DISTURBED AREAS ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CANT BE MAINTAINED BETWEEN DISTURBED AREAS AND ALL WOS. A 10-FOOT BUFFER SHALL BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- A COPY OF THE C-SWPPP, INSPECTION RECORDS AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION, EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR 7 OR MORE CALENDAR DAYS.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, DEWATERING TRENCHES AND EXCAVATED AREAS.
- THE FOLLOWING DISCHARGES FROM THE SITE ARE PROHIBITED:
  - FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
  - SOAPS AND SOLVENTS USED IN EQUIPMENT AND VEHICLE WASHING.
- ALL EROSION AND SEDIMENT CONTROLS SHALL BE AS SPECIFIED IN THE SOUTH CAROLINA STORMWATER MANAGEMENT BMP HANDBOOK AND IN THE EROSION AND SEDIMENT CONTROL DETAIL SHEET, INCLUDED HEREIN.

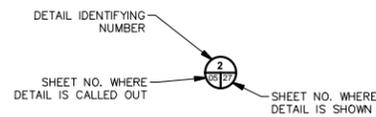
GENERAL NOTES:

- DEFINITIONS**
  - THE OWNER IS DUKE ENERGY CORPORATION (DUKE ENERGY). THE ENGINEER, AECOM, HAS PREPARED THE PLANS AND NOTES HEREIN. THE CONTRACTOR IS DUKE ENERGY OR THE ENTITY WITH WHOM DUKE ENERGY HAS CONTRACTED AN AGREEMENT WITH TO PERFORM THE CONSTRUCTION OF THE PROJECT.
- PERMITTING**
  - PERMITTING REQUIREMENTS ASSOCIATED WITH THIS WORK SHALL BE COMPILED BY AECOM AND SHALL BE MAINTAINED/VERIFIED BY THE ENVIRONMENTAL GROUP OF DUKE ENERGY.
- DELINEATED WETLANDS**
  - DELINEATED WETLANDS ARE SHOWN ON DRAWINGS. CONTRACTOR SHALL NOT ENCRONCH UPON THESE AREAS WITH ANY EQUIPMENT OR MATERIALS PLACEMENT WITHOUT APPROVAL OF DUKE ENERGY. ORANGE CONSTRUCTION FENCING OR OTHER DELINEATION AS APPROVED BY DUKE ENERGY ENVIRONMENTAL GROUP SHALL BE USED TO IDENTIFY THE LIMITS OF DELINEATED WETLANDS ADJACENT TO THE WORK AREA TO AVOID UNCONTROLLED ENCRONCHMENT BY DUKE ENERGY AND SHALL BE MAINTAINED/VERIFIED BY THE DUKE ENERGY ENVIRONMENTAL GROUP.
- REFERENCE MATERIALS**
  - WHENEVER REFERENCE IS MADE TO THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SCDHEC) STANDARD SPECIFICATIONS, AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM), AND OTHER PUBLISHED STANDARDS OR SPECIFICATIONS, IT SHALL MEAN THE LATEST VERSION IN ITS ENTIRETY.
- GENERAL SITEWORK REQUIREMENTS**
  - ALL EXISTING PIEZOMETERS AND MONITORING WELLS SHALL BE PROTECTED BY CONTRACTOR DURING CONSTRUCTION ACTIVITIES, UNLESS SPECIFICALLY DESIGNATED FOR DECOMMISSIONING. IF NECESSARY CONTRACTOR TO EXTEND OR LOWER PIEZOMETER/WELL AND RE-FINISH IF CONSTRUCTION COVERS OR INHIBITS THE ABILITY TO CONTINUE MONITORING. IF DAMAGE TO AN EXISTING PIEZOMETER/WELL OCCURS CONTRACTOR IS RESPONSIBLE FOR RELOCATION AND/OR REPLACEMENT OF THE PIEZOMETER/WELL.
  - EXISTING UNDERGROUND UTILITY LOCATIONS AS SHOWN ON THESE PLANS ARE APPROXIMATE AND ARE TO BE FIELD VERIFIED. CONTRACTOR SHALL EXERCISE EXTREME CAUTION. SHOULD PIPING OR OTHER UTILITIES THAT ARE NOT SHOWN ON THE DRAWINGS BE ENCOUNTERED, CONTRACTOR SHALL NOTIFY DUKE ENERGY AND THE ENGINEER IMMEDIATELY. WHERE APPLICABLE, THE CONTRACTOR SHALL PROVIDE NECESSARY MEASURES TO PROTECT UTILITIES FROM DAMAGE BY THE CONTRACTOR'S WORK. CONTRACTOR SHALL CONTACT DUKE ENERGY WSL PLANT ENGINEER AND AN INDEPENDENT UNDERGROUND UTILITY LOCATOR FOR LOCATION VERIFICATION BEFORE EXCAVATION.
  - THE SCOPE DESCRIBED HEREIN INVOLVES WORK IN THE VICINITY OF EXISTING OVERHEAD HIGH-VOLTAGE LINES. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL COORDINATE WITH DUKE ENERGY REGARDING THE CONSTRAINTS, CLEARANCE REQUIREMENTS, AND RESTRICTIONS ASSOCIATED WITH WORK IN THE VICINITY OF THESE FEATURES.
- ACCESS**
  - VEHICULAR ACCESS TO THE SITE SHALL BE DETERMINED BY DUKE ENERGY. NO CONSTRUCTION ACTIVITIES SHALL BE PERFORMED THAT CAUSE AN INTERFERENCE WITH DUKE ENERGY OPERATIONS. CONTRACTOR SHALL PROVIDE APPROVED SIGNAGE, BARRIERS, AND TRAFFIC SAFETY PERSONNEL RESPONSIBLE FOR DIRECTING CONSTRUCTION AND PLANT TRAFFIC AT ALL POINTS OF INGRESS AND EGRESS.
  - ACCESS INTO THE WORK AREA FOR DELIVERY OF EQUIPMENT, MATERIALS AND WORKFORCE SHALL BE REVIEWED DAILY BY THE CONTRACTOR, AND CONTROLLED AS NEEDED TO PREVENT ANY DAMAGE TO THE CREST OR SLOPES OF THE DIKES SURROUNDING THE ASH PONDS PRIOR TO THEIR REMOVAL. IF EQUIPMENT OR MATERIAL HAULING CAUSES DAMAGE, THE DAMAGE SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR, AND THE METHODS FOR HAULING SHALL BE ALTERED TO PREVENT FURTHER DAMAGE. THE CONTRACTOR SHALL NOT MAKE ANY UNPLANNED EXCAVATIONS INTO THE DIKE WITHOUT THE APPROVAL OF THE OWNER AND THE ENGINEER. DURING DEWATERING, THE CONTRACTOR IS RESPONSIBLE FOR PRECAUTIONS REQUIRED TO PROTECT THE INTEGRITY OF THE DIKES, EXISTING DISCHARGE SYSTEM AND APPURTENANCES NEEDED FOR THE SAFE OPERATION OF THE ASH PONDS.
- CONTRACTOR LAYOUT/SURVEY**
  - CONTRACTOR SHALL EMPLOY A COMPETENT SURVEYOR LICENSED IN THE STATE OF SOUTH CAROLINA TO ESTABLISH OR CONFIRM ALL LINES, ELEVATIONS, REFERENCE MARKS, ETC. NEEDED BY THE CONTRACTOR AND ENGINEER DURING CONSTRUCTION. THE QUANTITIES OF MATERIALS PRESENTED HEREIN SHALL BE CONSIDERED APPROXIMATE AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.
  - CONTRACTOR SHALL BASE ALL MEASUREMENTS, BOTH VERTICAL AND HORIZONTAL, ON ESTABLISHED BENCHMARKS AND MONUMENTS AS PROVIDED BY DUKE ENERGY. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE DUKE ENERGY MONUMENTATION AND ALL CONSTRUCTION LAYOUT. EXISTING GRADES AS WELL AS DIMENSIONS AND CONDITIONS AT THE SITE AFTER CONSTRUCTION SHALL BE VERIFIED BY PERFORMING AN AS-BUILT SURVEY.
  - ADJUSTMENTS WILL BE NECESSARY AS THE FIELD WORK PROGRESSES AND SHOULD BE AGREED UPON BY THE OWNER, ENGINEER AND CONTRACTOR PRIOR TO IMPLEMENTATION.
  - CONTRACTOR SHALL FIELD-ESTABLISH THE BASELINE SHOWN ON DRAWINGS AND SHALL ESTABLISH OFFSETS FOR THE CONSTRUCTION OF THE FEATURES AS SHOWN ON DRAWINGS. CONTRACTOR SHALL LOCATE LAYOUT PROJECT BASELINE TO THE EXTENT NECESSARY TO DETERMINE BEGINNING AND END OF CONSTRUCTION FEATURES, AND AS IS SUFFICIENT FOR FIELD LOCATION ALONG ITS ALIGNMENT.

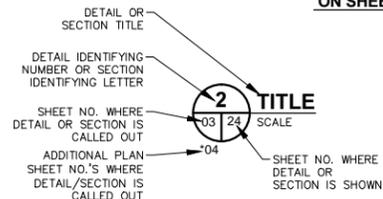
8. ACTIVITIES

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE HEALTH AND SAFETY OF ITS PERSONNEL AND SHALL MEET ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS, INCLUDING BUT NOT LIMITED TO OSHA STANDARDS AND DUKE ENERGY SAFETY REQUIREMENTS.
- CONTRACTOR SHALL CONFINE EQUIPMENT, STORAGE, AND OPERATIONS TO ONLY THE LIMITS OF WORK AND AREAS DESIGNATED FOR THOSE USES BY DUKE ENERGY. WHERE TEMPORARY ENTRY IS REQUIRED, THE CONTRACTOR SHALL ENTER THOSE AREAS ONLY FOR THE DURATION OF TIME REQUIRED TO COMPLETE THE WORK. THE OWNER MAY HAVE OTHER CONTRACTORS PERFORMING WORK WITHIN THESE DEFINED CONSTRUCTION LIMITS AND AT NEARBY AREAS DURING THE TIME OF THIS WORK. THE CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS IN THE EXECUTION OF THE WORK AND SHALL ACCOMMODATE ACCESS ROUTE REVISIONS, MINOR DELAYS, AND SHARE WORK AREAS AND OTHER COORDINATION EFFORTS WITHOUT ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR FUGITIVE DUST CONTROL TO PREVENT THE GENERATION OF AIRBORNE DUST DURING SITE OPERATIONS IN ACCORDANCE WITH THE WSL AIR PERMIT (INFORMATION ON THIS PERMIT MAY BE PROVIDED BY DUKE). DUST SUPPRESSION MAY BE ACCOMPLISHED USING THE FOLLOWING SUGGESTED MEANS:
  - CONTRACTOR SHALL PLACE THIN LIFTS (6" OR LESS) OF EXCAVATED ASH OVER A PROPORTIONALLY LARGE AREA. WHEN THE MOISTURE IN THE EMPLACED ASH HAS EVAPORATED AND CEASES TO CONTROL THE DUST EFFECTIVELY, ADDITIONAL THIN LIFTS SHALL BE PLACED IN THE SAME MANNER.
  - IF ADDITIONAL LIFTS OF EXCAVATED ASH CANNOT BE PLACED IN A TIMELY FASHION, AN APPROVED POLYMER-BASED EMULSION MAY BE USED TO SUPPRESS DUST IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. TEMPORARY SOIL COVER MAY BE PLACED OVER FILL TO BE EXPOSED MORE THAN 30-DAYS OR EMBANKMENT THAT HAS REACHED FINAL GRADE. TEMPORARY SOIL COVER MAY BE USED ALONE OR IN CONJUNCTION WITH SEEDING OR POLYMER-BASED EMULSION, AS APPROPRIATE, TO STABILIZE THE AREA.
- DELIVERED MATERIALS FOR INCORPORATION INTO THE WORK MAY BE TEMPORARILY STORED IN AREAS DESIGNATED FOR SUCH USE BY THE OWNER. ALL MATERIAL STOCKPILES SHALL CONFORM WITH CONSTRUCTION BEST MANAGEMENT PRACTICES SPECIFIED HEREIN.
- ALL EXCESS CONSTRUCTION SPOILS AND DEBRIS SHALL BE DEWATERED AND DISPOSED OFFSITE IN AREAS AS APPROVED BY THE OWNER.
- UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL PERSONNEL AND EQUIPMENT FROM THE SITE, INCLUDING ANY TEMPORARY ITEMS INSTALLED BY THE CONTRACTOR DURING THE COURSE OF THE WORK. THE SITE SHALL BE LEFT IN A SIGHTLY CONDITION WITH ALL TRASH AND RUBBISH REMOVED. ANY PARKING AND STAGING AREAS PREPARED BY THE CONTRACTOR SHALL BE REMOVED AND RESTORED TO THEIR ORIGINAL CONDITION, AT MINIMUM.
- AREAS WHICH WILL BE EXCAVATED SHALL BE CLEARED OF BRUSH, PROJECTING ROOTS, WEEDS, LOGS AND OTHER PROTRUDING OBSTRUCTIONS. ALL TREES, STUMPS, BRUSH, PROJECTING ROOTS, WEEDS LOGS, AND PROTRUDING OBSTRUCTIONS SHALL BE CUT TO WITHIN 3 INCHES OF EXISTING GROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROVED REUSE, OR DISPOSAL, OF ANY CLEARED AND GRUBBED MATERIALS.
- ACCEPTABLE CONSTRUCTION TOLERANCES FROM PLAN DIMENSIONS, ELEVATIONS, AND GRADES SHALL BE IN ACCORDANCE WITH THE CQA PLAN.
- NO DEVIATIONS FROM THE PLANS, ASSOCIATED SPECIFICATIONS, OR APPROVED SHOP DRAWINGS SHALL BE MADE WITHOUT PRIOR APPROVAL FROM THE ENGINEER. THE CONTRACTOR SHALL KEEP A RECORD PLAN SET NOTING ALL DEVIATIONS IN LOCATION OR ELEVATION OF ANY INSTALLATION FROM THAT SHOWN ON THE PLANS, AND ANY DEVIATIONS IN INSTALLATIONS FROM APPROVED SHOP DRAWINGS. AT COMPLETION OF THE PROJECT A PLAN SET OF FINAL RECORD DRAWINGS SHALL BE PREPARED BY THE ENGINEER. THE CONTRACTOR SHALL COOPERATE FULLY AND ASSIST WITH PREPARATION OF THE FINAL RECORD DRAWINGS.
- CONSTRUCTION SEQUENCING**
  - FIELD-ESTABLISH CONSTRUCTION BASELINE AND OTHER LAYOUT CONTROLS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE DUKE ENERGY MONUMENTATION.
  - INSTALLATION OF EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES MUST BE COMPLETE PRIOR TO COMMENCEMENT OF ANY FILL ACTIVITIES OR SOIL DISTURBANCE.
  - PERIMETER DRAINAGE IMPROVEMENTS SHALL BE INSTALLED AT THE EARLIEST POSSIBLE OPPORTUNITY.
  - ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED UPON THE PROJECT COMPLETION. BEFORE EROSION CONTROLS ARE REMOVED, THIS STABILIZATION INCLUDES SEEDING AND MULCHING, OR OTHER APPROVED STABILIZATION TECHNIQUES.

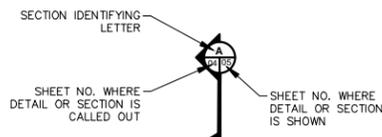
DETAILING & SECTION IDENTIFICATION NOMENCLATURE



DETAIL REFERENCE ON SHEET WHERE DETAIL IS CALLED OUT



DETAIL OR SECTION, NUMBER OR LETTER & TITLE ON SHEET WHERE DETAIL OR SECTION IS SHOWN

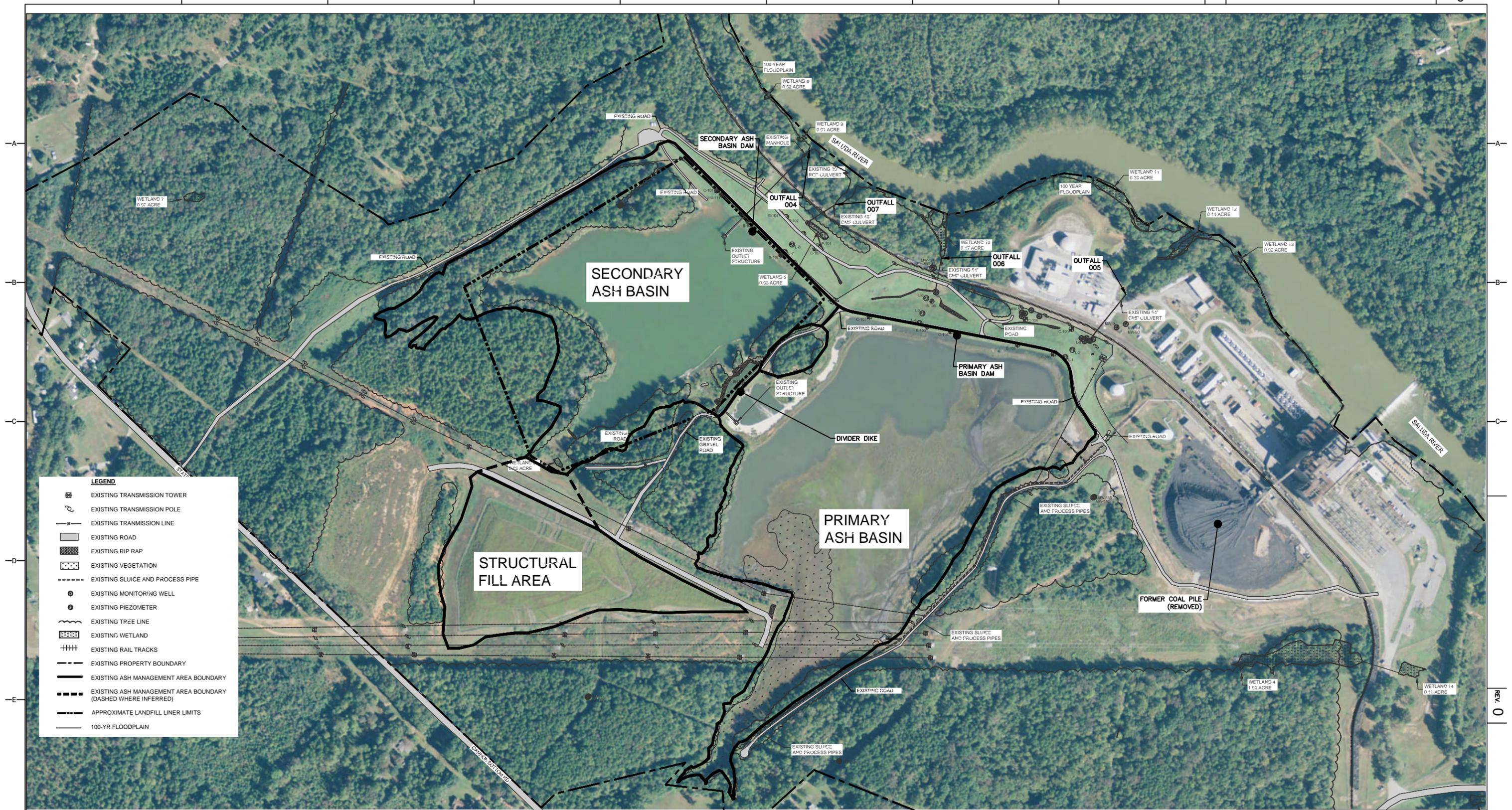


SECTION REFERENCE ON SHEET WHERE SECTION IS CALLED OUT

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CONCEPTUAL PLANS

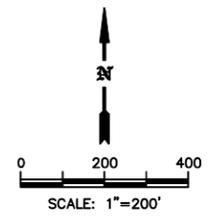




**LEGEND**

- EXISTING TRANSMISSION TOWER
- EXISTING TRANSMISSION POLE
- EXISTING TRANSMISSION LINE
- EXISTING ROAD
- EXISTING RIP RAP
- EXISTING VEGETATION
- EXISTING SLUICE AND PROCESS PIPE
- EXISTING MONITORING WELL
- EXISTING PIEZOMETER
- EXISTING TREE LINE
- EXISTING WETLAND
- EXISTING RAIL TRACKS
- EXISTING PROPERTY BOUNDARY
- EXISTING ASH MANAGEMENT AREA BOUNDARY
- EXISTING ASH MANAGEMENT AREA BOUNDARY (DASHED WHERE INFERRED)
- APPROXIMATE LANDFILL LINER LIMITS
- 100-YR FLOODPLAIN

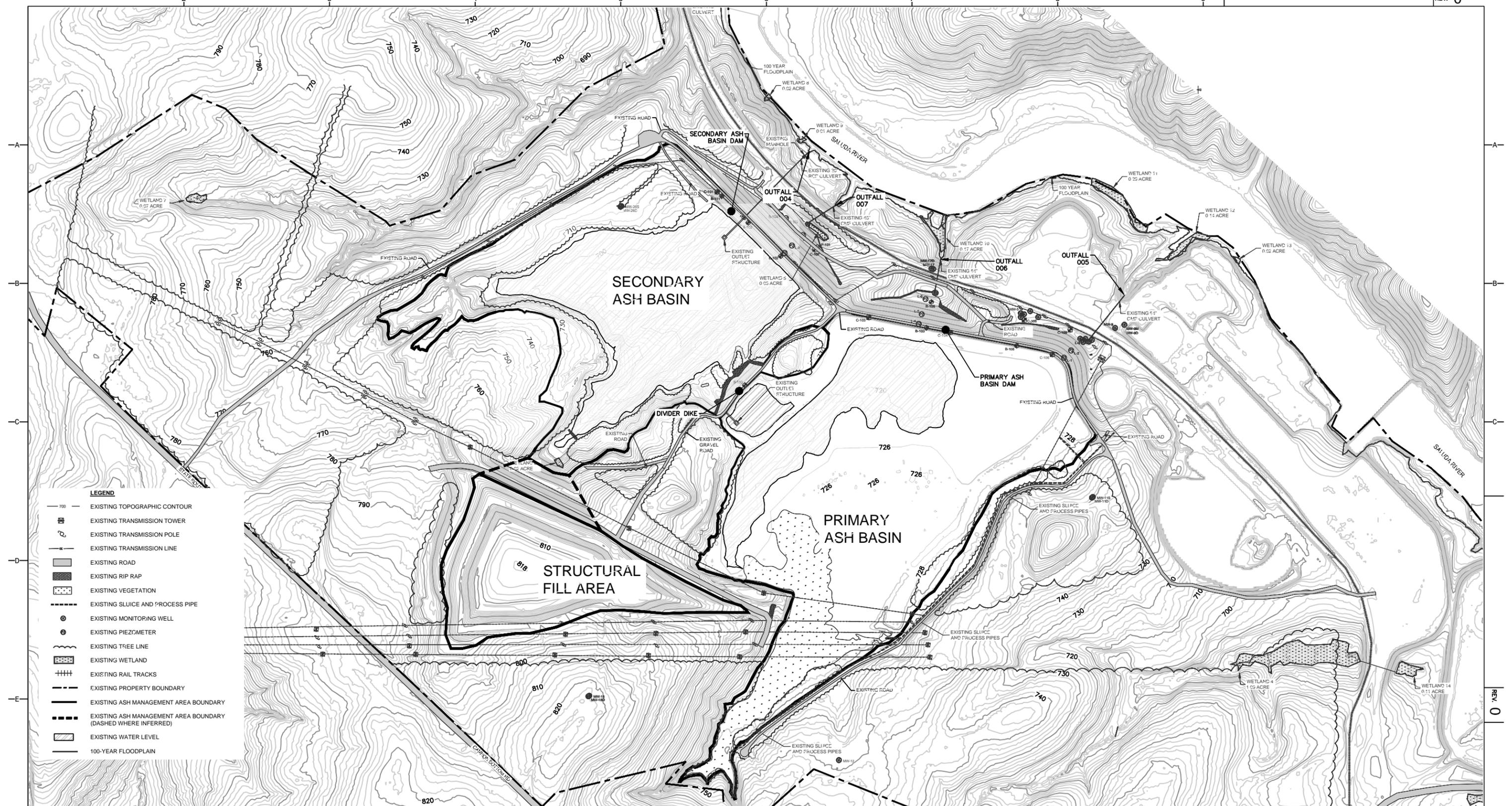
**NOTES:**  
 1. WETLANDS SHOWN AS DEPICTED IN JURISDICTIONAL DETERMINATION REQUEST SUBMITTED DECEMBER 2014 TO US ARMY CORPS OF ENGINEERS.



**CONCEPTUAL PLANS**

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FOR W.S. LEE STEAM STATION		
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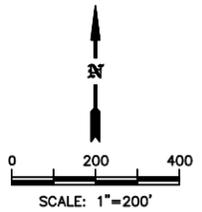


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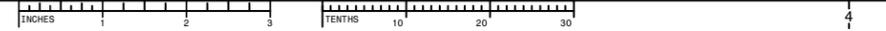
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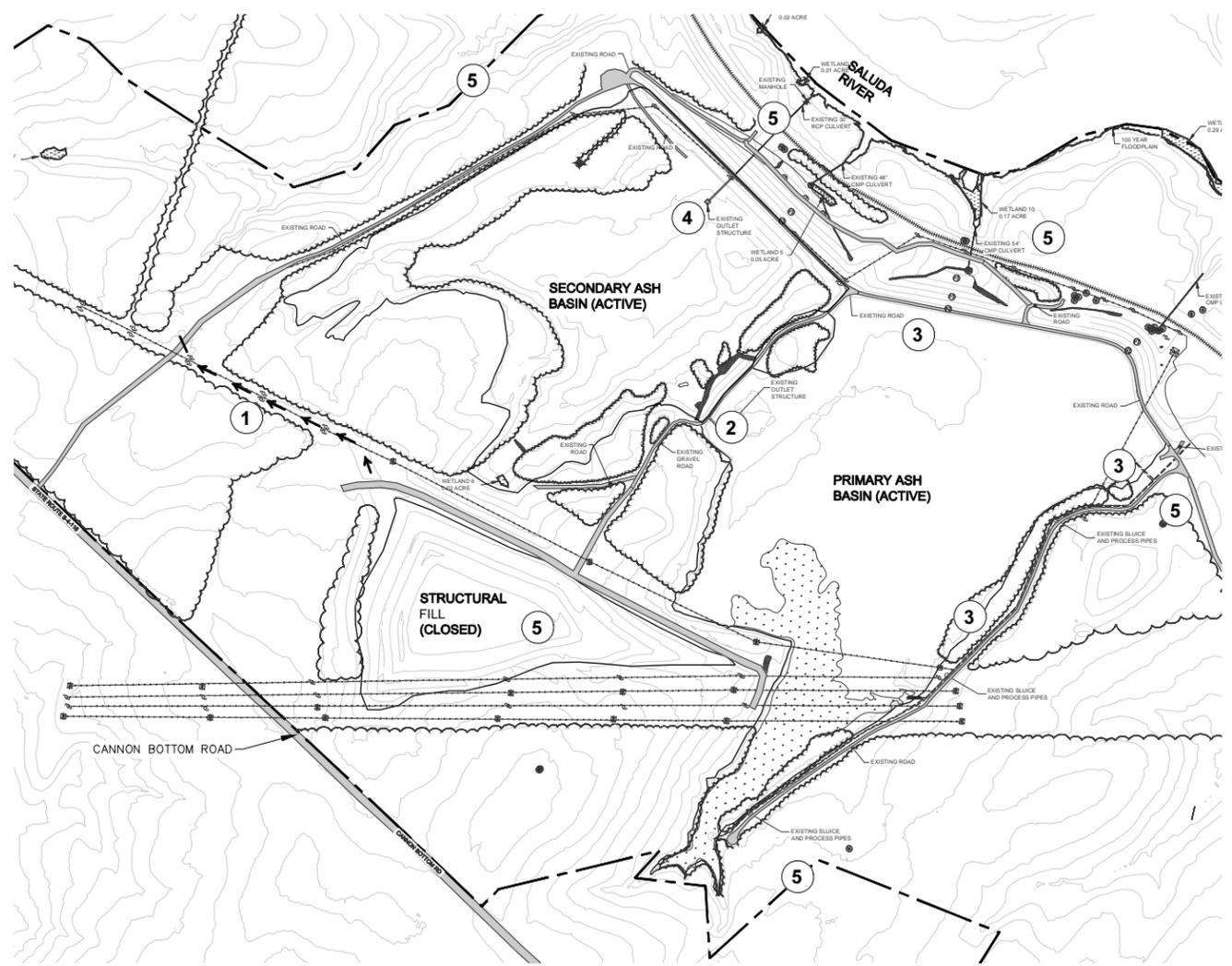
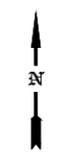
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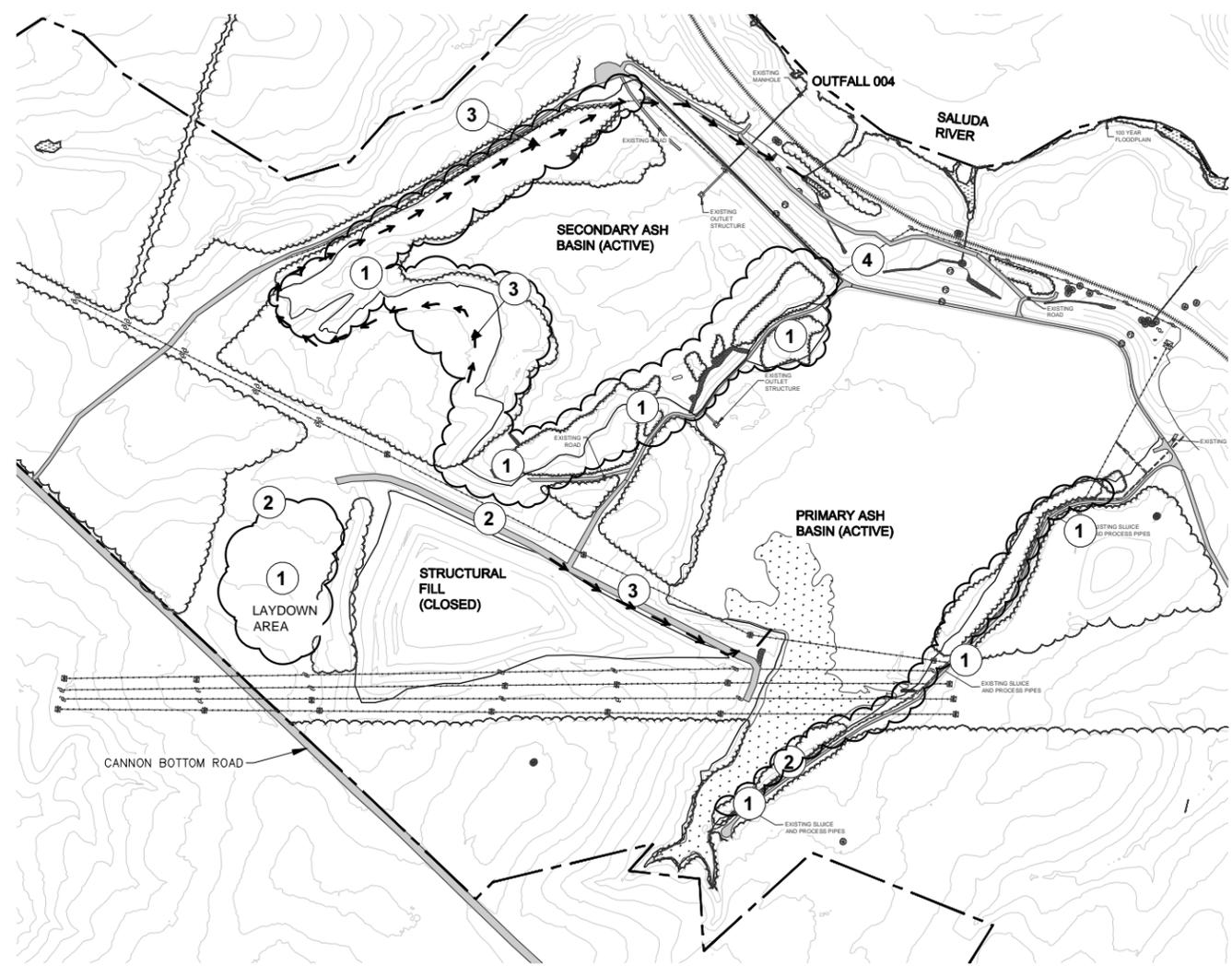


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  - PROPOSED STORMWATER MANAGEMENT DITCH
  - 100-YR FLOODPLAIN



**PHASE 0 - PRE-CONSTRUCTION SEQUENCE - PLAN VIEW**  
NTS

- PHASE 0 - PRE-CONSTRUCTION SEQUENCE** (TO BE CONDUCTED DURING DETAILED LANDFILL DESIGN PHASE AND PRIOR TO CONTRACTOR SELECTION)
1. SELECTIVELY CLEAR TREES AND CONSTRUCT SECONDARY ASH BASIN DIVERSION DITCH
  2. INCREMENTALLY REMOVE STOP LOGS TO LOWER PRIMARY ASH BASIN WATER ELEVATION TO APPROXIMATELY 722-FT EL. TO ALLOW FOR STORMWATER STORAGE
  3. PROMOTE DRAINAGE WITHIN THE PRIMARY ASH BASIN BY CREATING DRAINAGE CHANNELS AND/OR IMPROVING PERIMETER RIM DITCHES
  4. INCREMENTALLY REMOVE STOP LOGS TO LOWER SECONDARY ASH BASIN WATER ELEVATION TO APPROXIMATELY 695-FT EL.
  5. MONITOR GROUNDWATER LEVELS ADJACENT TO ASH BASINS



**PHASE 1 - CLOSURE/SITE PREPARATION - PLAN VIEW**  
NTS

- PHASE 1 - CLOSURE SITE PREPARATION**
1. CLEAR TREES AND REMOVE/CAP SLUICE AND PROCESS PIPES, CLEAR LAYDOWN AREA OF TREES/BRUSH
  2. CONSTRUCT AND/OR IMPROVE ACCESS ROADS
  3. START IMPLEMENTATION OF PRE- AND POST-CONSTRUCTION STORMWATER MANAGEMENT CONTROLS AND DIVERSION DITCHES.
  4. INSTALL WASTEWATER TREATMENT SYSTEM, ACCESSORY PUMPS, PIPES, ETC TO DISCHARGE TO PERMITTED OUTFALL 004.

**CONCEPTUAL PLANS**

TITLE CONCEPTUAL CLOSURE PLAN – PRIMARY ASH BASIN, SECONDARY ASH BASIN AND STRUCTURAL FILL AREA		
FOR W.S. LEE STEAM STATION		
	SCALE:	DES: KRA
	DWG TYPE:	DFTR: MLS
	JOB NO: 60432646	CHKD: ARS
	DATE: 12-15-2015	ENGR: FM
FILENAME:		APPD: JDP
DWG SIZE ARCH D 24.0"x36.0"	DRAWING NO. <b>05A</b>	REVISION <b>0</b>

