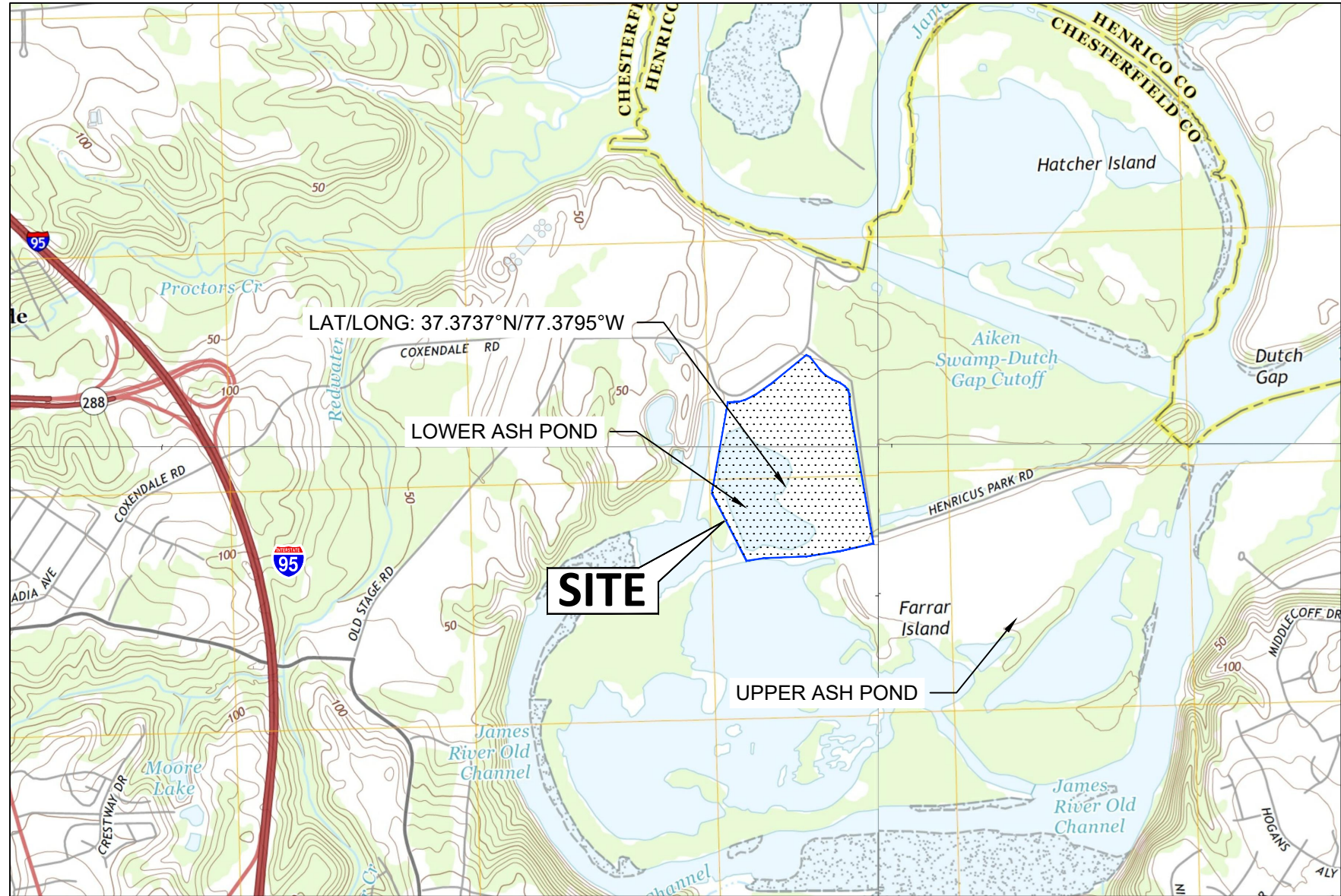


CONTACT INFORMATION

OWNER: DOMINION ENERGY
CHRIS M. GEE
800 E. CANAL ST.
RICHMOND, VIRGINIA 23219
PHONE: (804) 205-0527
FAX: (804) 273-2876
EMAIL: CHRIS.M.GEE@DOMINIONENERGY.COM

ENGINEER: AECOM
STEPHEN WALKER, P.E.
564 WHITE POND DRIVE
AKRON, OHIO 44313
PHONE: (330) 289-4233
EMAIL: STEVE.WALKER@AECOM.COM

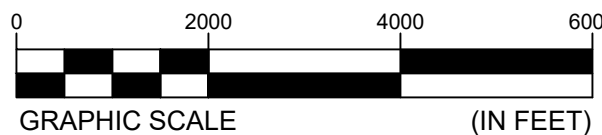
DOMINION ENERGY
CHESTERFIELD POWER STATION
CLOSURE PLAN - LOWER ASH POND
PERMIT APPLICATION DRAWINGS
NOT FOR CONSTRUCTION
CHESTERFIELD COUNTY, VIRGINIA
JULY 22, 2024



SOURCE: 2013 USGS VIRGINIA QUAD MAPS: CHESTER, DREWRY'S BLUFF, DUTCH GAP AND HOPEWELL.

VICINITY MAP

1" = 2,000'



NO. DWG DESCRIPTION

2	001	COVER SHEET
	002	EXISTING CONDITIONS AND UTILITY PLAN
	003	DEMOLITION PLAN
	004	ESTIMATED BOTTOM OF CCR MATERIAL PLAN
	005	FINAL GRADING PLAN
	006	EROSION AND SEDIMENT CONTROL PLAN
	007	FINAL GRADING PROFILE AND CROSS SECTIONS LAYOUT PLAN
	008	FINAL GRADING PROFILES AND CROSS SECTIONS I
	009	FINAL GRADING PROFILES AND CROSS SECTIONS II
	010	PROPOSED STORMWATER STRUCTURES
2	011	FINAL GRADING AND STORMWATER DETAILS
	012	DAM DECOMMISSIONING PLAN
	013	DAM DECOMMISSIONING CROSS SECTIONS

VSMP COMPLIANCE

WATER QUALITY COMPLIANCE IN ACCORDANCE WITH 9VAC25-870-65 IS ACHIEVED THROUGH THE CHIAP PROJECT VSMP VAR10G662.

THIS PROJECT IS COVERED UNDER THE UMBRELLA VSMP VAR10G662.

GENERAL SITE INFORMATION

PARCEL ADDRESS (AS RECORDED IN CHESTERFIELD COUNTY GIS):	701 COXENDALE ROAD CHESTER, VIRGINIA 23836
LAT-LONG:	37.3737°N 77.3795°W
TAX ID:	808-6612255-00000
GPIN NUMBER:	8086612255
OFFSITE LAND DISTURBANCE:	NONE
COUNTY LAND DISTURBANCE PERMIT:	A CHESTERFIELD COUNTY LAND DISTURBANCE PERMIT IS REQUIRED FOR THIS PROJECT
VIRGINIA STORMWATER MANAGEMENT PROGRAM PERMIT (VSMP):	UMBRELLA VSMP VAR10G662 IS ALREADY IN PLACE.
FLOODPLAIN:	FLOOD ZONE A AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FIRM PANELS 51041C0335D AND 51041C0169D, EFFECTIVE DATE: DECEMBER 18, 2012.
NAME OF RECEIVING WATERS	JAMES RIVER
VA HU6 FOUR-DIGIT WATERSHED CODE	JL06
VA HU6 TWELVE-DIGIT WATERSHED CODE:	020802060106
FIRE:	EXISTING FIRE HYDRANT LOCATION SUFFICIENT FOR THIS PROJECT
WETLANDS:	WETLANDS AND RPA FIELD DELINEATED BY GOLDR ASSOCIATES JUNE 2018 AND BY AECOM ON MARCH 11, 2020.

ZONING/LAND USE INFORMATION

MAGISTERIAL DEVELOPMENT DISTRICT:	BERMUDA
ZONING/LAND USE OF AREA IN QUESTION:	I-3 (HEAVY INDUSTRIAL)
EXISTING ZONING/LAND USE OF WHOLE PROPERTY (PER CITIZEN GIS, 2010):	I-3 (HEAVY INDUSTRIAL)
LAND USE (PER CITIZEN GIS 2010):	INDUSTRIAL 151 ACRES
VPDES PERMIT NUMBER	VA0004146
ZONING CASE(S)	15SN0647

IMPACTS TO WETLAND AND OTHER WATERS OF THE U.S. ARE BEING SUBMITTED FOR APPROVAL UNDER SECTION 404 AND 401 OF THE CLEAN WATER ACT AND THE VIRGINIA TIDAL WETLANDS ACT THROUGH A PENDING MINOR PERMIT MODIFICATION REQUEST - CHESTERFIELD POWER STATION FOSSIL FUEL COMBUSTION PRODUCTS MANAGEMENT FACILITY, DEPARTMENT OF THE ARMY PERMIT NO. 2007-02441; 10-V1787 AND VIRGINIA WATER PROTECTION PERMIT NO. 10-1787. THESE PLANS MAY REQUIRE MODIFICATIONS PENDING PERMIT CONDITIONS AS REQUIRED BY FEDERAL OR STATE REVIEW AGENCIES. PERMIT CONDITIONS AMENDED TO THE PLANS SHALL BE FOLLOWED.

CBPA COMPLIANCE

- A. TIDAL WETLANDS MINIMALLY IMPACTED
B. NON-TIDAL WETLANDS PERMITTED VIA USACE JD #NAO-2007-02441
C. TIDAL SHORES NOT IMPACTED
D. VEGETATED CONSERVATION AREA WITHIN 100 FEET OF PROPERTY LINE NOT IMPACTED
E. 100-YEAR FLOODPLAIN NOT FILLED
F. HIGHLY ERODIBLE SOILS OR STEEP SLOPES SHOWN ON PLANS AND PROTECTED BY EROSION AND SEDIMENT CONTROL MEASURES SHOWN IN THIS SITE PLAN
G. NO HIGHLY PERMEABLE SOILS
H. THE PURPOSE OF THE PROJECT IS TO COMPLY WITH THE FEDERAL CCR RULE TO PERMANENTLY CLOSE THE EXISTING CCR IMPOUNDMENT. WATER QUALITY COMPLIANCE IN ACCORDANCE WITH 9VAC 25-870-65.

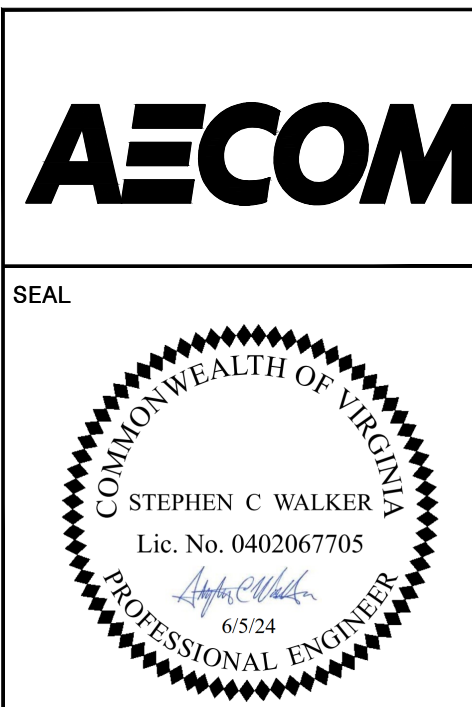
THIS PROJECT WILL HAVE A LAND DISTURBANCE GREATER THAN 2,500 S.F.; THEREFORE THE VSMP REGULATIONS FOR STORMWATER ARE APPLICABLE AND ADMINISTERED BY THE COUNTY.

CALL MISS UTILITY
BEFORE DIGGING

1-800-552-7001
OR
811

PREPARED FOR:
DOMINION ENERGY (OWNER)
500 COXENDALE RD
CHESTER, VA 23836

PREPARED BY:
AECOM
4840 COX RD
GLEN ALLEN, VA 23060



TITLE	COVER SHEET		
	CHESTERFIELD POWER STATION CLOSURE PLAN - LOWER ASH POND CHESTERFIELD COUNTY, VIRGINIA		
FOR	PERMIT APPLICATION DRAWINGS		
	SCALE:	NONE	DES: AMC
	DWG TYPE:	.DWG	DFTR: AMC
	JOB NO:	60614683	CHKD: RJB
	DATE:	07/22/2024	ENGR: SCW
FILENAME:	001 COVER SHEET DEQ R2.DWG		
DWG SIZE	DRAWING NO.		REVISION
ANSI D 22.0"x34.0"	001		2

Stormwater Outfall Table														
Site Area (Acres)	117 +/-													
Drainage Area (Acres)	Outfall W1		Outfall W2		Outfall E1		Outfall E2		Outfall E3					
Runoff Reduction (cf)	39.3		31.8		10.7		9.8		15.6					
	0		0		0		0		0					
Channel Protection Compliance Method	Natural		Natural		Natural		Natural		Natural					
Flood Protection Compliance Method	N/A		N/A		N/A		N/A		N/A					
	1 - Year	2 - Year	10 - Year	1 - Year	2 - Year	10 - Year	1 - Year	2 - Year	10 - Year	1 - Year	2 - Year	10 - Year	1 - Year	2 - Year
CN Existing ¹	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
RV Existing (AC-FT) ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q Existing (CFS) ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CN Developed	84		84		84		84		84		84		84	
RV Developed (AC-FT)	4.36	5.96	11.05	3.53	4.82	8.95	1.18	1.62	3.00	1.08	1.48	2.74	1.73	2.37
Q Developed (CFS)	30.35	41.10	71.22	25.49	34.60	61.54	12.93	17.56	30.70	13.75	18.75	33.82	20.78	28.09
Q Allowed (CFS) ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
V Developed (ft/s)	6.87	7.28	8.09	6.51	6.90	7.73	4.98	5.35	6.09	3.28	3.64	4.43	3.77	5.84
Outfall Location (Lats/Long)	N 37.3751 W 77.3828		N 37.3716 W 77.3820		N 37.3787 W 77.3780		N 37.3755 W 77.3759		N 37.3724 W 77.3752					

¹ Not computed since the existing condition was a regulated basin.

Stormwater Compliance Table					
Site Area (acres)	117 +/-	BMP Type	A BMP is not needed because the TP load is zero following the VRRM		Location of BMP (Lat/Long)
Required Removal for the Site (lbs)	0				N/A
Total Load Removed (lbs)	0				Receiving water
Offset Generating Facility					VAHUC6
Amount of Phosphorus Purchased (lbs)					MS4 Operator
Equivalent Nitrogen Amount (lbs)					Dominion Virginia Power
		N/A			TMDL
					Not Required *
					Downstream BMP
					N/A
8-digit HUC of Generating Facility		N/A			Location of storm sewer
					outfalls 30 inches in diameter
					W1, W2, E1

* The Farrar Gut is considered a category 4A water, and so a TMDL s not required because the TMDL for specific pollutant(s) is complete.

TOTAL SITE ACREAGE:	151 ±	DISTURBED AREA ACREAGE:	117 ±
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REVISIONS			
REV NO	DATE	INITIALS	DESCRIPTION
1	8/12/2022	AMC	ADD TRD ALIGNMENT TO FINAL GRADING PLAN
2	7/19/2024	AMC	REMOVE LOW PERM FILL FROM BACKFILL DETAIL

LEGEND

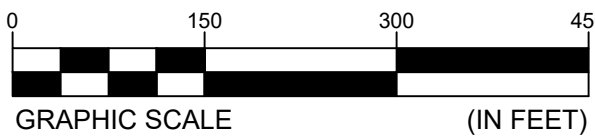
- 10 EXISTING TOPO MAJOR (10FT)
- 2 EXISTING TOPO MINOR (2FT)
- EXISTING HIKING TRAIL
- EXISTING ROAD
- ASH POND BOUNDARY (APPROX)
- 100-YEAR FLOOD ELEVATION
- EXISTING WATER LINE
- PROPERTY BOUNDARY
- RPA RESOURCE PROTECTION AREA
- RMA RESOURCE MANAGEMENT AREA
- EXISTING FENCELINE
- P-X EXISTING PIEZOMETER
- INC-X EXISTING INCLINOMETER
- OW-X EXISTING OBSERVATION WELL
- MW-X EXISTING MONITORING WELL
- GS-LAPB-X EXISTING BORING
- OVERHEAD TRANSMISSION LINE POLE
- FORESTED WETLANDS
- OPEN WATER WETLANDS
- PONDED WATER ON LINER COVER

NOTES

1. BASIS OF BEARINGS: NAD83, VIRGINIA STATE PLANE, SOUTH ZONE. ELEVATIONS ARE BASED ON NAVD88.
2. LOWER ASH POND IS CURRENTLY PROTECTED BY WIND DEFENDER. CONTRACTOR TO REMOVE DURING EXCAVATION.
3. LOCATIONS AND EXTENTS OF EXISTING UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. THE LOCATIONS AND EXTENTS OF UTILITIES ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.

REFERENCES

1. THE EXISTING SURVEY INFORMATION (TOPOGRAPHY, PLANIMETRICS, ETC.) PRESENTED IN THESE DRAWINGS WAS OBTAINED FROM THE SURVEY COMPILED BY TUCK MAPPING SOLUTIONS OF BIG STONE GAP, VIRGINIA; THE LIDAR FLIGHT DATE WAS JUNE 8, 2016 AND THE AIRBORNE SURVEY FLIGHT DATE WAS MAY 11, 2018. THE EXISTING SURVEY INFORMATION WAS AMENDED WITH A SURVEY OF UNDERGROUND UTILITIES PERFORMED BY D&M SURVEYORS P.C., DATED SEPTEMBER 23, 2019, AS WELL AS WITH LOWER ASH POND INTERIM AS-BUILT SURFACE, SURVEY PERFORMED BY MCKIM & CREED ON AUGUST 8, 2019.
2. THE PROPERTY BOUNDARY PRESENTED IN THESE DRAWINGS IS BASED ON A METES AND BOUNDS SURVEY PERFORMED BY D&M SURVEYORS P.C. ON MARCH 16 AND 29, 2016.
3. THE EXISTING WETLANDS AND RESOURCE PROTECTION AREA (RPA) PRESENTED IN THESE DRAWINGS WERE OBTAINED FROM THE WETLAND DELINEATION MAP PREPARED BY GOLDER ASSOCIATES, DATED AUGUST 20, 2015, JUNE 2018 AND BY AECOM ON MARCH 11, 2020.
4. THE EXISTING BASE FLOOD ELEVATION PRESENTED IN THESE DRAWINGS IS THE 100-YEAR FLOOD ELEVATION 16 CONTOUR, BASED ON FEMA FIRM PANEL MAPS 5104C0335D AND 51041C0169D, DATED APRIL 26, 2017.



AECOM

SEAL



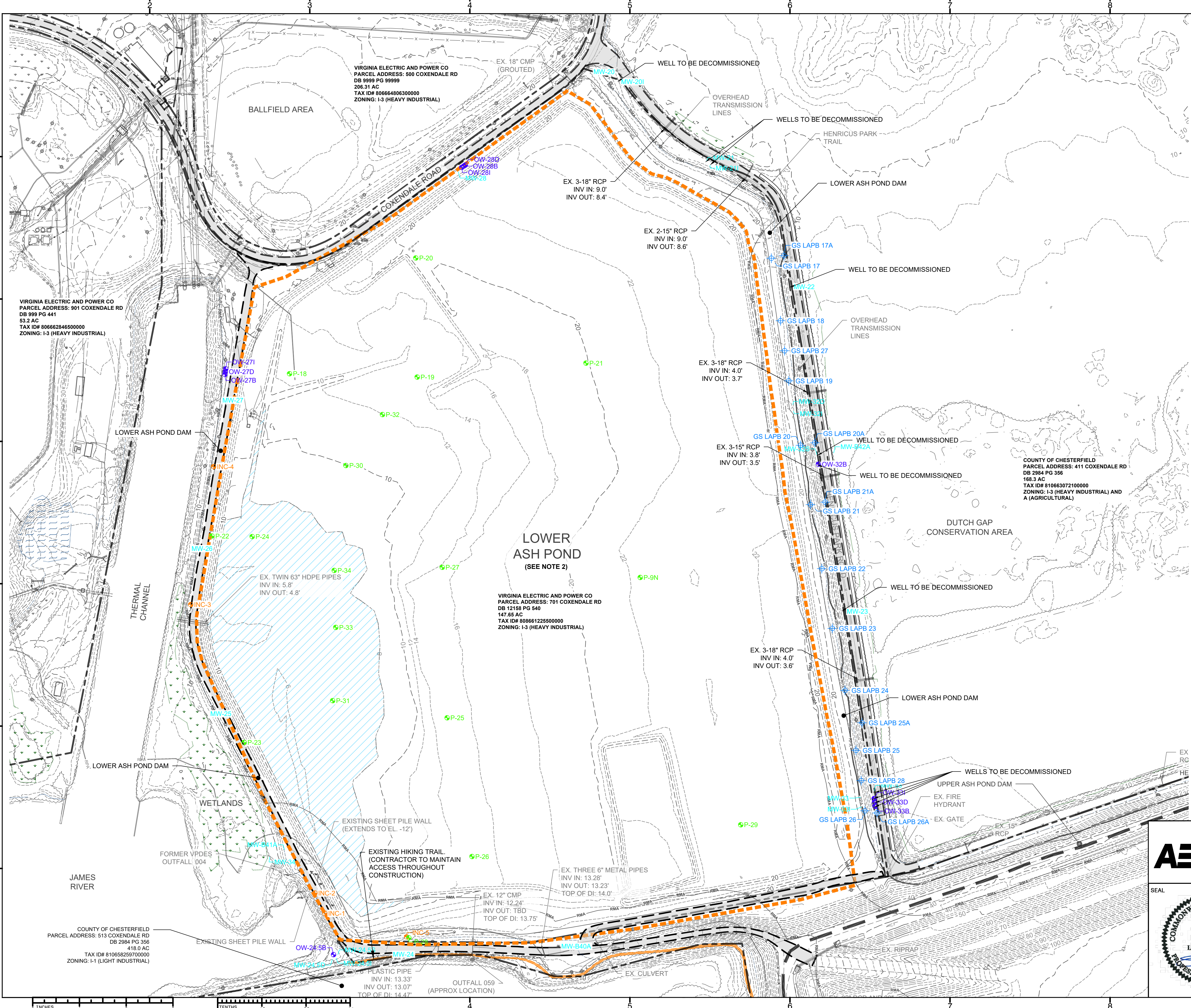
TITLE
EXISTING CONDITIONS AND UTILITY PLAN
CHESTERFIELD POWER STATION
CLOSURE PLAN - LOWER ASH POND
CHESTERFIELD COUNTY, VIRGINIA

FOR
PERMIT APPLICATION DRAWINGS



SCALE: 1"=150'
DWG TYPE: .DWG
JOB NO: 60614683
DATE: 11/13/2020
DES: AMC
DFTR: AMC
CHKD: RJB
ENGR: GWL

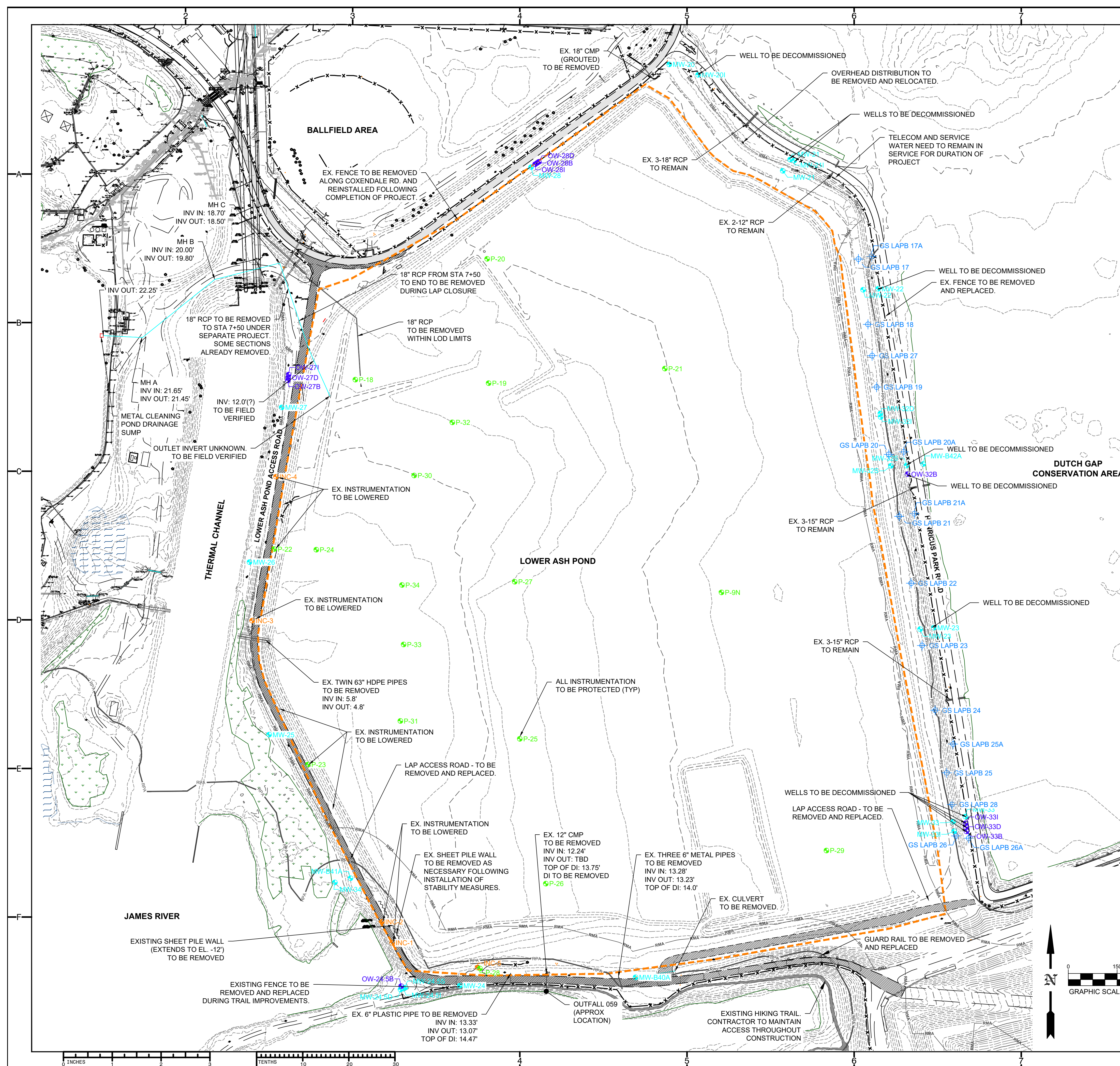
FILENAME: 002 EXISTING CONDITIONS AND UTILITY PLAN.DWG
DWG SIZE: 22.0"x34.0"
DRAWING NO. 002
REVISION 0

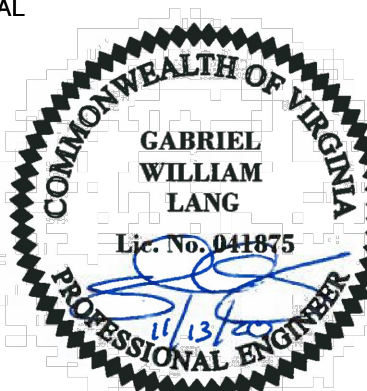


	EXISTING TOPO MAJOR (10FT)		EXISTING UG ELECTRIC
	EXISTING TOPO MINOR (2FT)		EXISTING UG WATER
	EXISTING ROAD		EXISTING FENCELINE
	EXISTING ROAD TO BE REMOVED		EXISTING UG PIPE
	ASH POND BOUNDARY (APPROX)		EXISTING CULVERT
	RESOURCE PROTECTION AREA		PROPERTY LINE
	RESOURCE MANAGEMENT AREA		EXISTING PIEZOMETER
	EXISTING UG TELEPHONE		EXISTING INCLINOMETER
	UNKNOWN UG UTILITY		EXISTING OBSERVATION WELL
	FORESTED WETLANDS		EXISTING MONITORING WELL
	OPEN WATER WETLANDS		EXISTING BORING
			OVERHEAD TRANSMISSION LINE POLE

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4. THE EXISTING BASE FLOOD ELEVATION PRESENTED IN THESE DRAWINGS IS THE 100-YEAR FLOOD ELEVATION 16 CONTOUR, BASED ON FEMA EIRM PANEL MAPS 5104CQ335D AND 51041CQ169D, DATED APRIL 26, 2017.

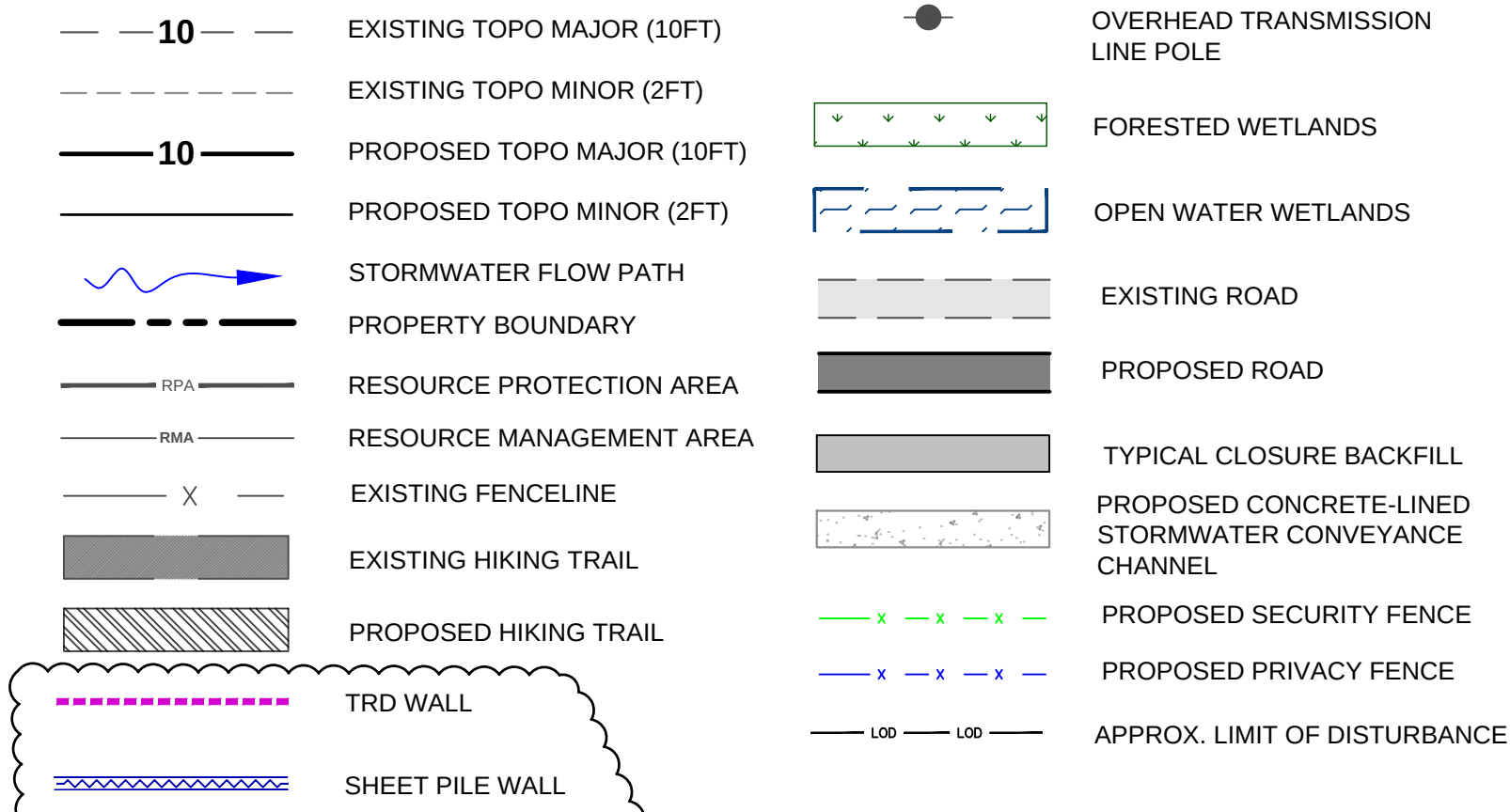
1. BASIS OF BEARINGS: NAD83, VIRGINIA STATE PLANE, SOUTH ZONE. ELEVATIONS ARE BASED ON NAVD88.
2. HENRICUS PARK ROAD IMPROVEMENTS ARE ANTICIPATED TO BE COMPLETED IN ADVANCE OF THE LAP CLOSURE. COORDINATION OF ACTIVITIES BETWEEN THE TWO PROJECTS WILL BE REQUIRED.
3. EXISTING MONITORING WELLS TO BE PROTECTED.
4. EXISTING INSTRUMENTATION ALONG THE WESTERN LAP ACCESS ROAD TO BE LOWERED DURING DAM DECOMMISSIONING.
5. EXISTING PIEZOMETERS AND INCLINOMETERS MAY BE MODIFIED, WITH APPROVAL FROM DOMINION, FOLLOWING COMPLETION OF CONSTRUCTION.
6. LOWERING AND REMOVAL OF SPECIFIED EXISTING MONITORING WELLS TO BE PERFORMED IN ACCORDANCE WITH WELL MODIFICATION AND WELL ABANDONMENT SPECIFICATION SECTIONS, RESPECTIVELY..
7. LOCATIONS AND EXTENTS OF EXISTING UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. THE LOCATIONS AND EXTENTS OF UTILITIES ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.
8. DOMINION TO COORDINATE ALL UTILITY RELOCATION. CONTRACTOR TO COORDINATE UTILITY RELOCATION TIMING WITH DOMINION.
9. DCR STORMWATER COMPLIANCE ITEMS CANNOT BE REMOVED UNTIL APPROVED BY DCR. DOMINION TO COORDINATE WITH DCR, AND CONTRACTOR TO COORDINATE TIMING WITH DOMINION.



	TITLE DEMOLITION PLAN CHESTERFIELD POWER STATION CLOSURE PLAN - LOWER ASH POND CHESTERFIELD COUNTY, VIRGINIA			
	SEAL 	FOR PERMIT APPLICATION DRAWINGS		
		 Dominion Energy	SCALE: 1"=150' DWG TYPE: .DWG JOB NO: 60614683 DATE: 11/13/2020	DES: AMC DFTR: AMC CHKD: RJB ENGR: GWL
FILENAME:		003 DEMOLITION PLAN.DWG		APPD: GWL
DWG SIZE ANSI D 22.0"x34.0"		DRAWING NO.		
		003		0



LEGEND



REFERENCES

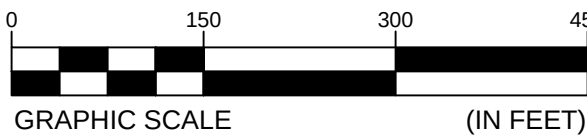
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NOTES

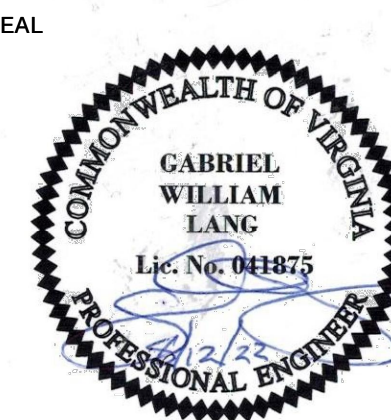
1. BASIS OF BEARINGS: NAD83 VIRGINIA STATE PLANE, SOUTH ZONE. ELEVATIONS ARE BASED ON NAVD88.
2. CONTRACTOR TO MANAGE STORMWATER RUNOFF FROM STORM EVENTS UP TO AND INCLUDING THE 0.9 PROBABLE MAXIMUM PRECIPITATION (PMP) EVENT UNTIL ALL CCR HAS BEEN REMOVED. ONCE CCR HAS BEEN REMOVED, CONTRACTOR TO MANAGE STORMWATER RUNOFF FROM STORM EVENTS UP TO AND INCLUDING THE 100-YEAR EVENT.
3. THE MINIMUM DAM ELEVATION MUST BE MAINTAINED AT ELEVATION 16.0 FEET OR HIGHER TO PREVENT THE 100-YEAR FLOODPLAIN FROM COMING IN CONTACT WITH CCR MATERIAL.
4. TRD WALL AND SHEET PILE WALL SHOWN IN THESE PLANS WERE DESIGNED BY HAI, AND SHOWN ON THE PLAN SETS TITLED "LAP TRUCK WASH" DATED DECEMBER 3, 2021, "LAP SW CORNER IMPROVEMENTS (IFC)" DATED MARCH 9, 2022, AND "TRD WALL CONSTRUCTION (IFP)" DATED JUNE 7, 2022.

REVISIONS

REV NO	DATE	INITIALS	DESCRIPTION
1	8/12/2022	AMC	ADD TRD WALL AND SHEET PILE WALL ALIGNMENTS



AECOM



TITLE FINAL GRADING PLAN CHESTERFIELD POWER STATION CLOSURE PLAN - LOWER ASH POND CHESTERFIELD COUNTY, VIRGINIA			
FOR PERMIT APPLICATION DRAWINGS			
SCALE: 1"=150' DWG TYPE: .DWG JOB NO: 60614683 DATE: 8/12/2022	DES: AMC DFT: AMC CHKD: RJB ENGR: GWL		
	APPD: GWL		
FILENAME: 005 FINAL GRADING PLAN DEQ REV1.DWG DWG SIZE ANSI D 22.0"x34.0"	DRAWING NO. 005		REVISION 1



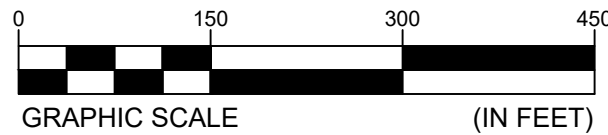


0 150 300 450

GRAPHIC SCALE (IN FEET)

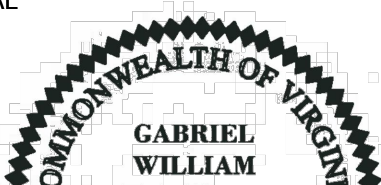
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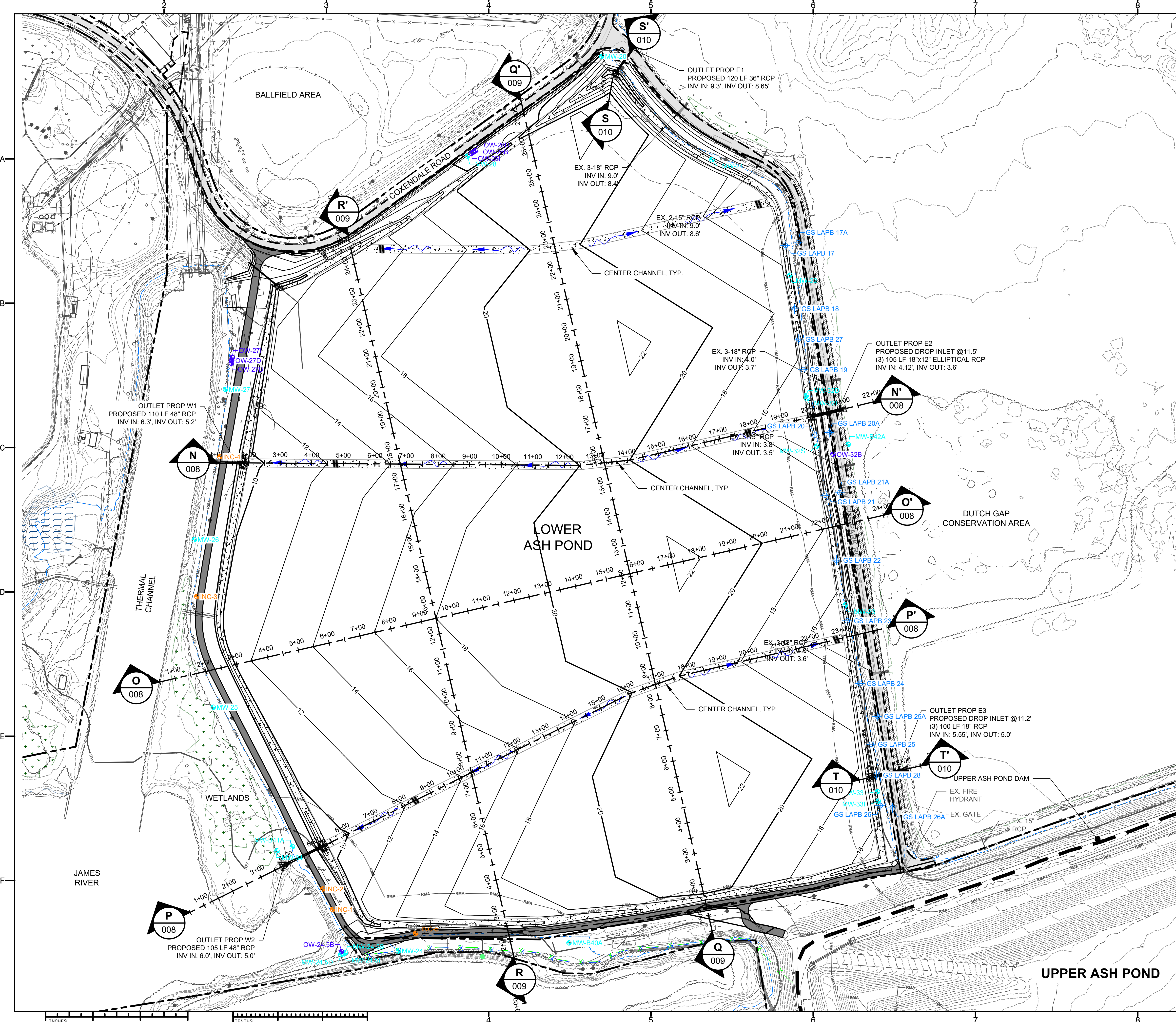
1. BASIS OF BEARINGS, NAD83, VIRGINIA STATE PLAN SOUTH ZONE. ELEVATIONS ARE BASED ON NAVD88.
2. ONCE VEGETATION IS ESTABLISHED AND SITE IS CONSIDERED STABILIZED, REMOVE TEMPORARY SEDIMENT BASINS AND TEMPORARY SEDIMENT BASIN RISERS AND RECONFIGURE WEST AND EAST OUTLETS BASED ON FINAL POST CLOSURE CONDITIONS. TEMPORARY CULVERT INLET PROTECTION MAY BE REQUIRED IN THE INTERIM CONDITION.
3. CULVERT OUTLET PROTECTION FOR OUTLETS W1, W2, E2, AND E3 SHALL BE TIED CONCRETE BLOCK MAT. OUTLET PROTECTION FOR E1 SHALL BE RIPRAP.
4. CONTRACTOR TO MANAGE STORMWATER RUNOFF FROM STORM EVENTS UP TO AND INCLUDING THE 0.9 PROBABLE MAXIMUM PRECIPITATION (PMP) EVENT UNTIL ALL CCR HAS BEEN REMOVED. ONCE CCR HAS BEEN REMOVED, CONTRACTOR TO MANAGE STORMWATER RUNOFF FROM STORM EVENTS UP TO AND INCLUDING THE 100-YEAR EVENT.
5. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL MEET THE GENERAL REQUIREMENTS OF THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (VDEQ) EROSION & SEDIMENT CONTROL HANDBOOK (VESCH).



	EXISTING TOPO MAJOR (10FT)
	EXISTING TOPO MINOR (2FT)
	PROPOSED TOPO MAJOR (10FT)
	PROPOSED TOPO MINOR (2FT)
	STORMWATER FLOW PATH
	100-YEAR FLOOD ELEVATION
	PROPERTY BOUNDARY
	RESOURCE PROTECTION AREA
	RESOURCE MANAGEMENT AREA
	EXISTING FENCELINE
	EXISTING HIKING TRAIL
	PROPOSED HIKING TRAIL
	OVERHEAD TRANSMISSION LINE POLE
	FORESTED WETLANDS
	OPEN WATER WETLANDS
	EXISTING ROAD
	PROPOSED ROAD
	PROPOSED CONCRETE-LINED STORMWATER CONVEYANCE CHANNEL
	PROPOSED SECURITY FENCE
	PROPOSED PRIVACY FENCE

- | | | |
|------------|---|--|
| SSF |  | SUPER SILT FENCE |
| TC |  | TURBIDITY CURTAIN |
| FGM |  | HYDRAULICALLY APPLIED FLEXIBLE GROWTH MEDIUM (FLEX TERRA OR APPROVED EQUAL) |
| CIP |  | CULVERT INLET PROTECTION |
| OP |  | CULVERT OUTLET PROTECTION (SEE NOTE 6) |
| CD |  | ROCK CHECK DAM |
| IP |  | INLET PROTECTION |
| PS |  | PERMANENT SEEDING |
| MU |  | MULCHING |
| SB |  | SEDIMENT BASIN |
| SCC |  | CONCRETE-LINED STORMWATER CONVEYANCE CHANNEL |

	TITLE EROSION AND SEDIMENT CONTROL PLAN		
	CHESTERFIELD POWER STATION CLOSURE PLAN - LOWER ASH POND CHESTERFIELD COUNTY, VIRGINIA		
	FOR PERMIT APPLICATION DRAWINGS		
		 Dominion Energy	SCALE: NONE DWG TYPE: DWG JOB NO: 60614683 DATE: 11/13/2020
FILENAME: 006 EROSION AND SEDIMENT CONTROL PLAN.DWG			
DWG SIZE ANSI D 22.0"x34.0"	DRAWING NO. 006		REVISION 0



LEGEND

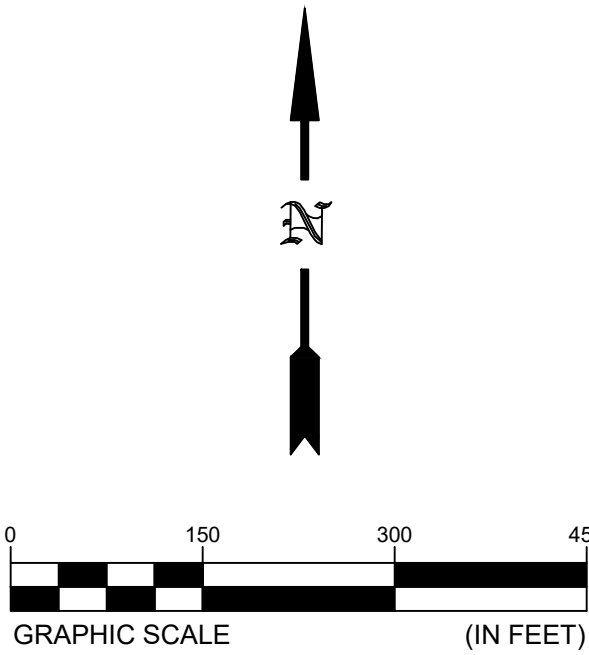
- 10 EXISTING TOPO MAJOR (10FT)
- 10 EXISTING TOPO MINOR (2FT)
- 10 PROPOSED TOPO MAJOR (10FT)
- 10 PROPOSED TOPO MINOR (2FT)
- STORMWATER FLOW PATH
- PROPERTY BOUNDARY
- RPA RESOURCE PROTECTION AREA
- RMA RESOURCE MANAGEMENT AREA
- X EXISTING FENCELINE
- EXISTING HIKING TRAIL
- PROPOSED HIKING TRAIL
- OVERHEAD TRANSMISSION LINE POLE
- FORESTED WETLANDS
- OPEN WATER WETLANDS
- EXISTING ROAD
- PROPOSED ROAD
- PROPOSED CONCRETE-LINED STORMWATER CONVEYANCE CHANNEL
- PROPOSED SECURITY FENCE
- PROPOSED PRIVACY FENCE
- APPROX. LIMIT OF DISTURBANCE
- EXISTING INCLINOMETER
- EXISTING OBSERVATION WELL
- EXISTING MONITORING WELL
- EXISTING BORING

REFERENCES

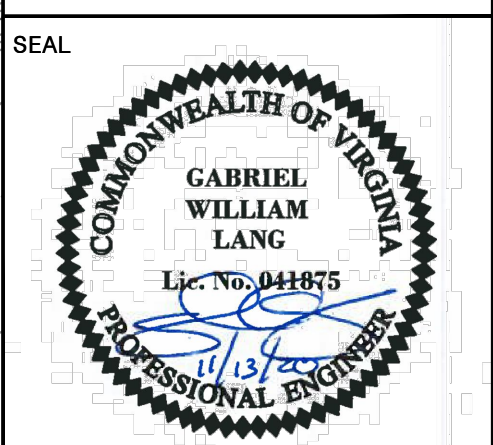
1. THE EXISTING SURVEY INFORMATION (TOPOGRAPHY, PLANIMETRICS, ETC.) PRESENTED IN THESE DRAWINGS WAS OBTAINED FROM THE SURVEY COMPILED BY TUCK MAPPING SOLUTIONS OF BIG STONE GAP, VIRGINIA. THE LIDAR FLIGHT DATE WAS JUNE 8, 2016 AND THE AIRBORNE SURVEY FLIGHT DATE WAS MAY 11, 2018. THE EXISTING SURVEY INFORMATION WAS AMENDED WITH A SURVEY OF UNDERGROUND UTILITIES PERFORMED BY D&M SURVEYORS P.C., DATED SEPTEMBER 23, 2019, AS WELL AS WITH LOWER ASH POND INTERIM AS-BUILT SURFACE, SURVEY PERFORMED BY MCKIM & CREED ON AUGUST 8, 2019.
2. THE PROPERTY BOUNDARY PRESENTED IN THESE DRAWINGS IS BASED ON A METES AND BOUNDS SURVEY PERFORMED BY D&M SURVEYORS P.C. ON MARCH 16 AND 29, 2016.
3. THE EXISTING WETLANDS AND RESOURCE PROTECTION AREA (RPA) PRESENTED IN THESE DRAWINGS WERE OBTAINED FROM THE WETLAND DELINEATION MAP PREPARED BY GOLDER ASSOCIATES, DATED AUGUST 20, 2015, JUNE 2018, AND BY AECOM ON MARCH 11, 2020.
4. THE EXISTING BASE FLOOD ELEVATION PRESENTED IN THESE DRAWINGS IS THE 100-YEAR FLOOD ELEVATION 16 CONTOUR, BASED ON FEMA FIRM PANEL MAPS 5104C0335D AND 51041C0169D, DATED APRIL 26, 2017.

NOTES

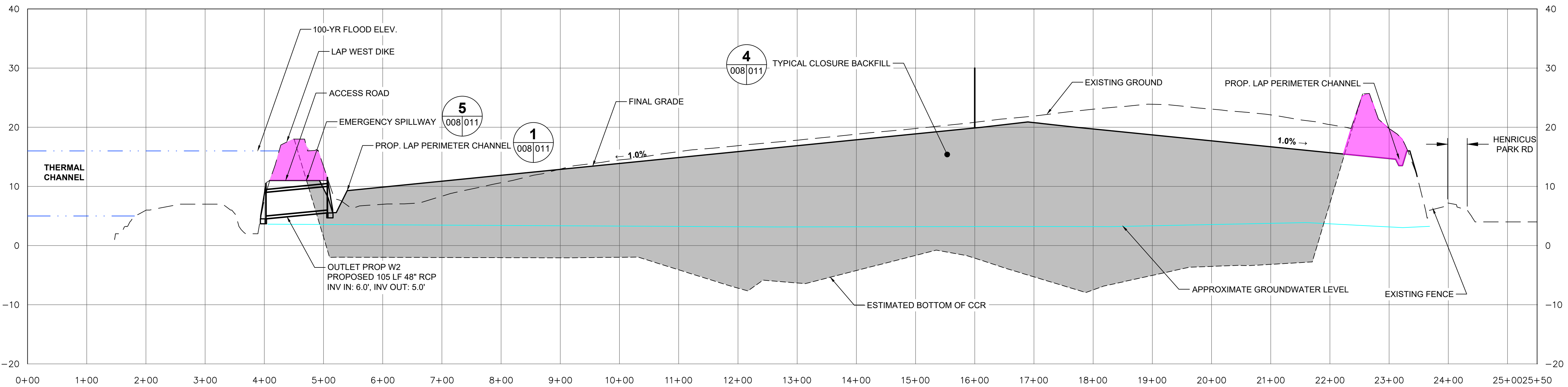
1. BASIS OF BEARINGS: NAD83, VIRGINIA STATE PLANE, SOUTH ZONE. ELEVATIONS BASED ON NAVD88.



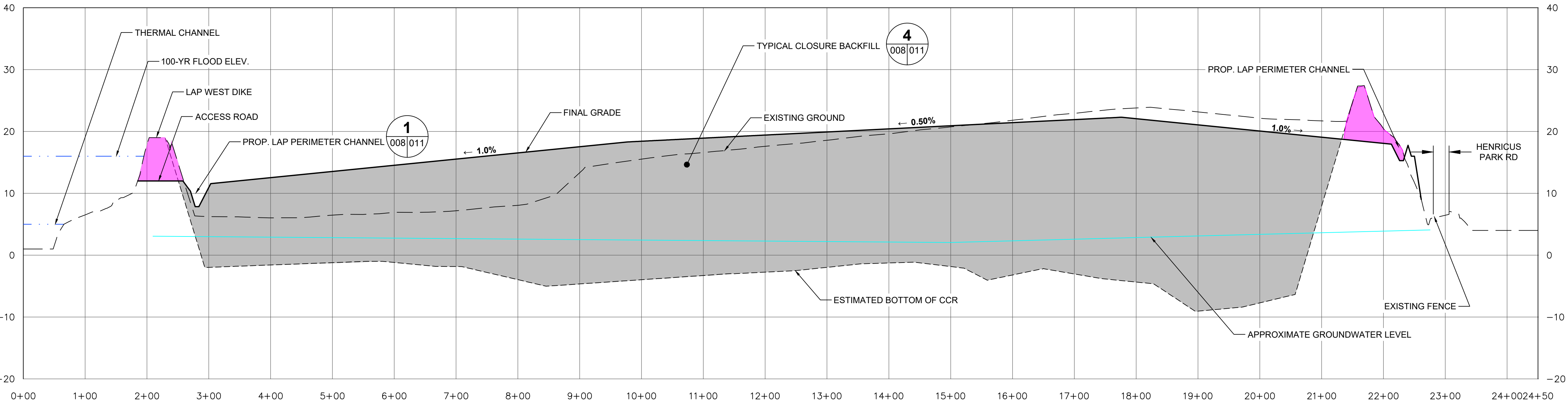
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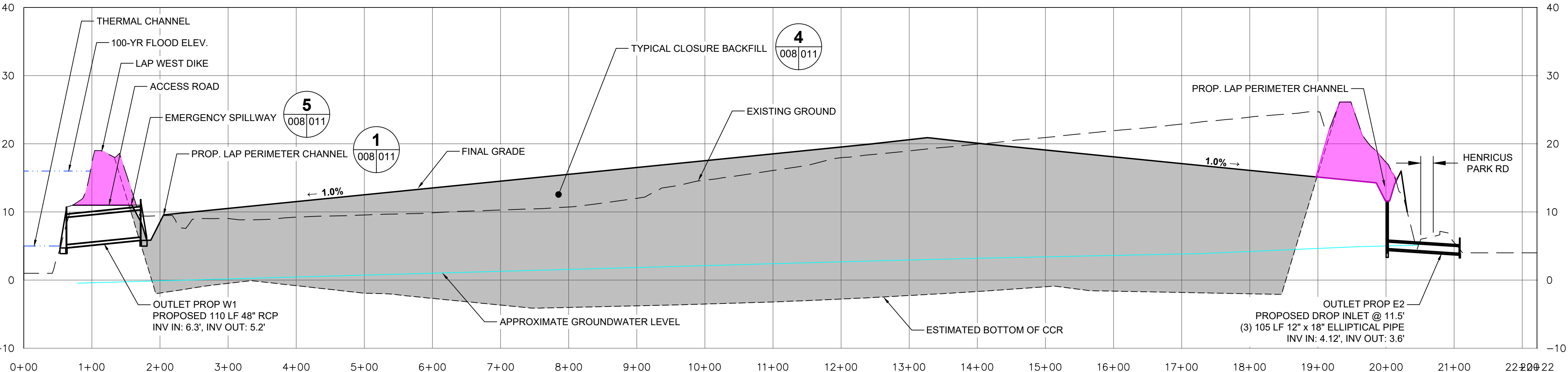
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FOR		PERMIT APPLICATION DRAWINGS	
FILENAME:	007 FINAL GRADING CROSS SECTIONS II.DWG		APPD: GWL
	DWG SIZE	DRAWING NO.	REVISION
ANSI D 22.0"x34.0"	007		0



PROFILE - P-P'



PROFILE - O-O'



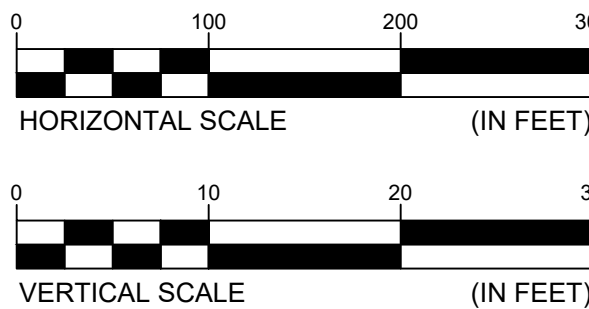
PROFILE - N-N'

LEGEND

- EXISTING GRADES
- - - ESTIMATED BOTTOM OF CCR
- ESTIMATED GROUNDWATER LEVEL
- WATER ELEVATION
- PROPOSED FINAL GRADE
- TYPICAL CLOSURE BACKFILL
- AREA OF DIKE REMOVAL

NOTES

- BASIS OF BEARINGS: NAD83, VIRGINIA STATE PLANE, SOUTH ZONE. ELEVATIONS BASED ON NAVD88.
- APPROXIMATE EXISTING GROUNDWATER LEVELS ARE BASED UPON A SINGLE DATA POINT AND ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS TO VERIFY INFORMATION PROVIDED IN DEVELOPMENT OF WATER MANAGEMENT PLAN.



SEAL

TITLE

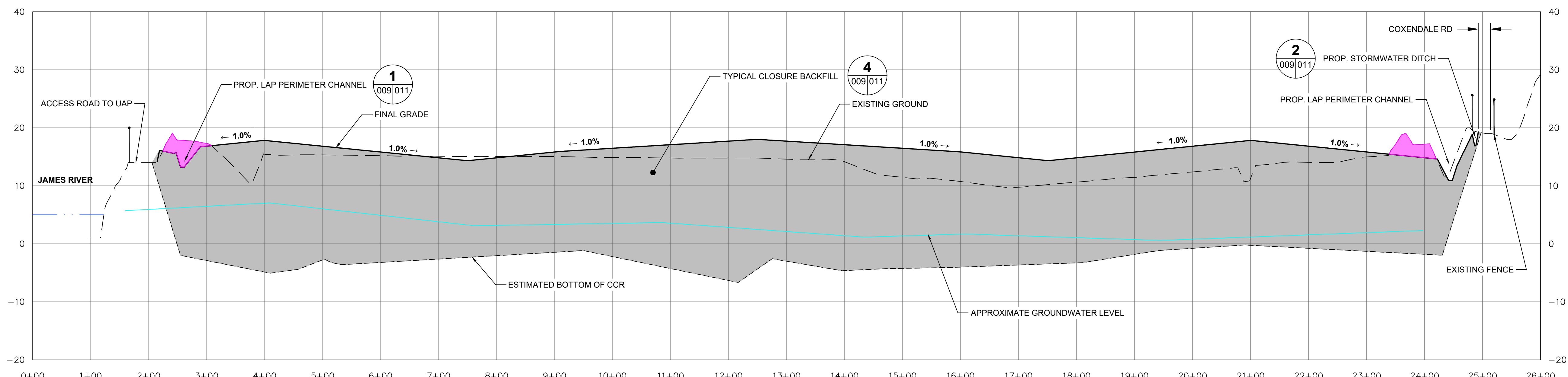
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CHESTERFIELD POWER STATION
CLOSURE PLAN - LOWER ASH POND
CHESTERFIELD COUNTY, VIRGINIA

FOR

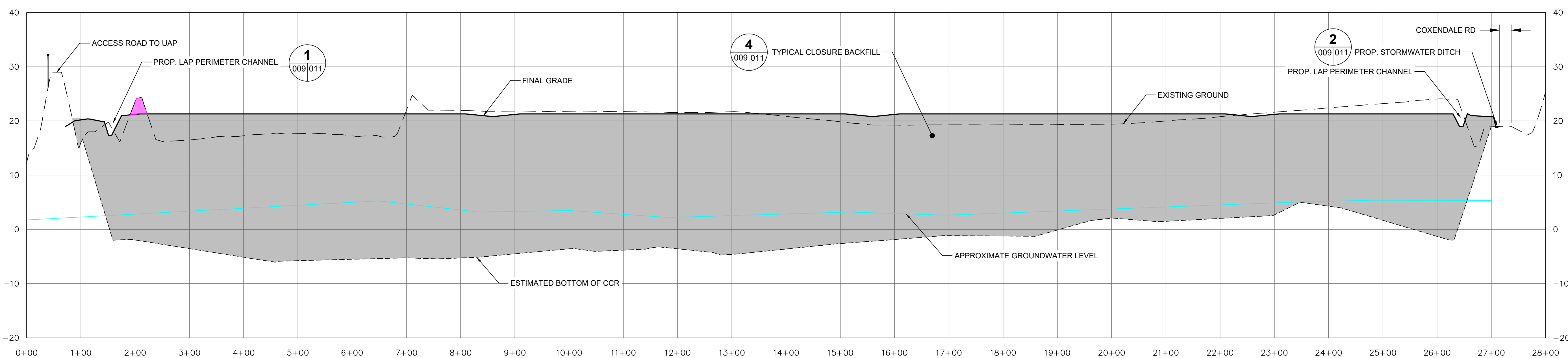
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JOB NO: 60614683	CHKD: RJB
DATE: 11/13/2020	ENGR: GWL

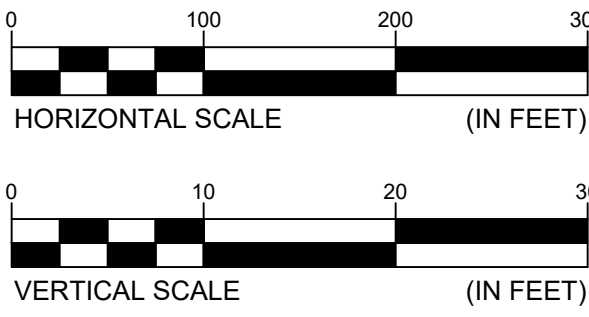
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DWG SIZE	DRAWING NO.
ANSI D 22.0"x34.0"	008
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PROFILE - R-R'



PROFILE - Q-Q'



LEGEND

- EXISTING GRADES
- - - - - ESTIMATED BOTTOM OF CCR
- ESTIMATED GROUNDWATER LEVEL
- . - . - WATER ELEVATION
- PROPOSED FINAL GRADE
- TYPICAL CLOSURE BACKFILL
- AREA OF DIKE REMOVAL

NOTES

- BASIS OF BEARINGS: NAD83, VIRGINIA STATE PLANE, SOUTH ZONE. ELEVATIONS BASED ON NAVD88.
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TITLE

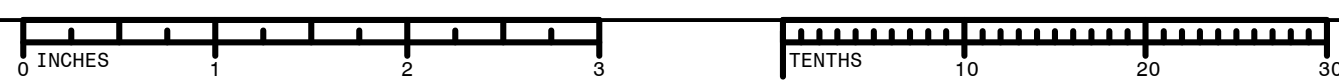
FINAL GRADING PROFILES AND CROSS SECTIONS II
CHESTERFIELD POWER STATION
CLOSURE PLAN - LOWER ASH POND
CHESTERFIELD COUNTY, VIRGINIA

FOR

PERMIT APPLICATION DRAWINGS

SCALE: 1"=100'	DES: AMC
DWG TYPE: .DWG	DFTR: AMC
JOB NO: 60614683	CHKD: RJB
DATE: 11/13/2020	ENGR: GWL

FILENAME: 007 FINAL GRADING CROSS SECTIONS II.DWG	APPD: GWL
DWG SIZE: ANSI D 22.0"x34.0"	REVISION: 009 0



A

B

C

D

E

F

A

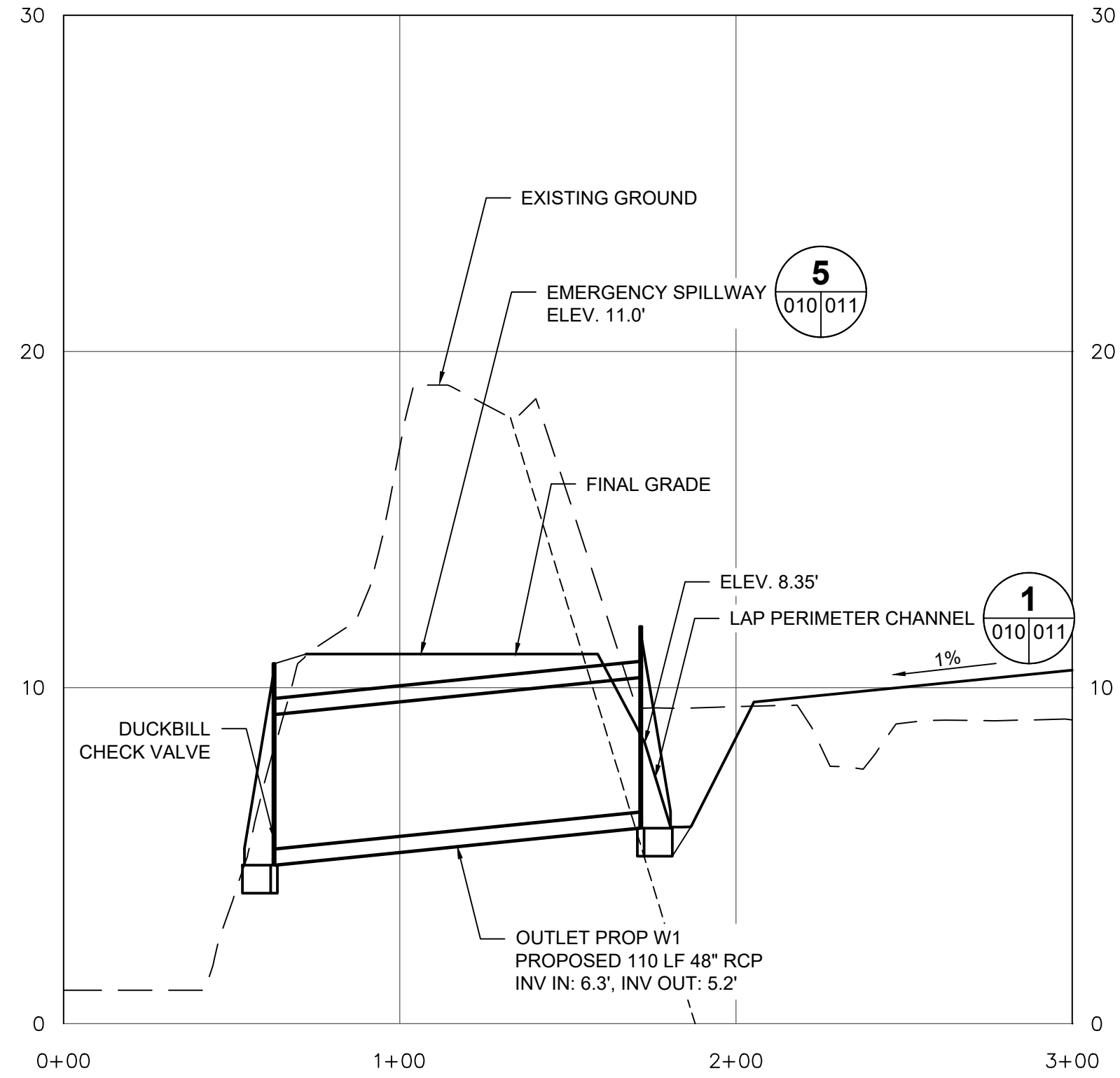
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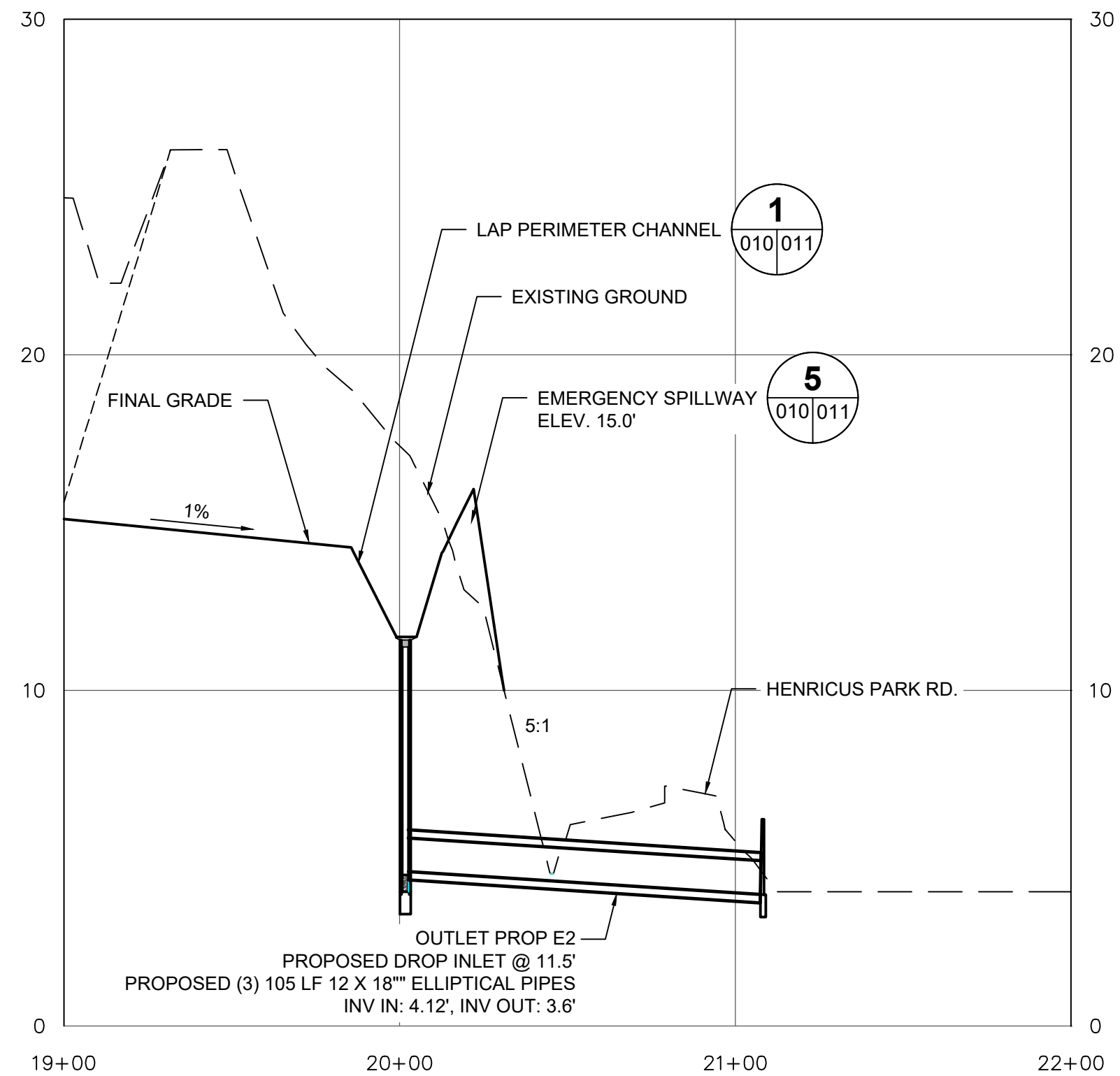
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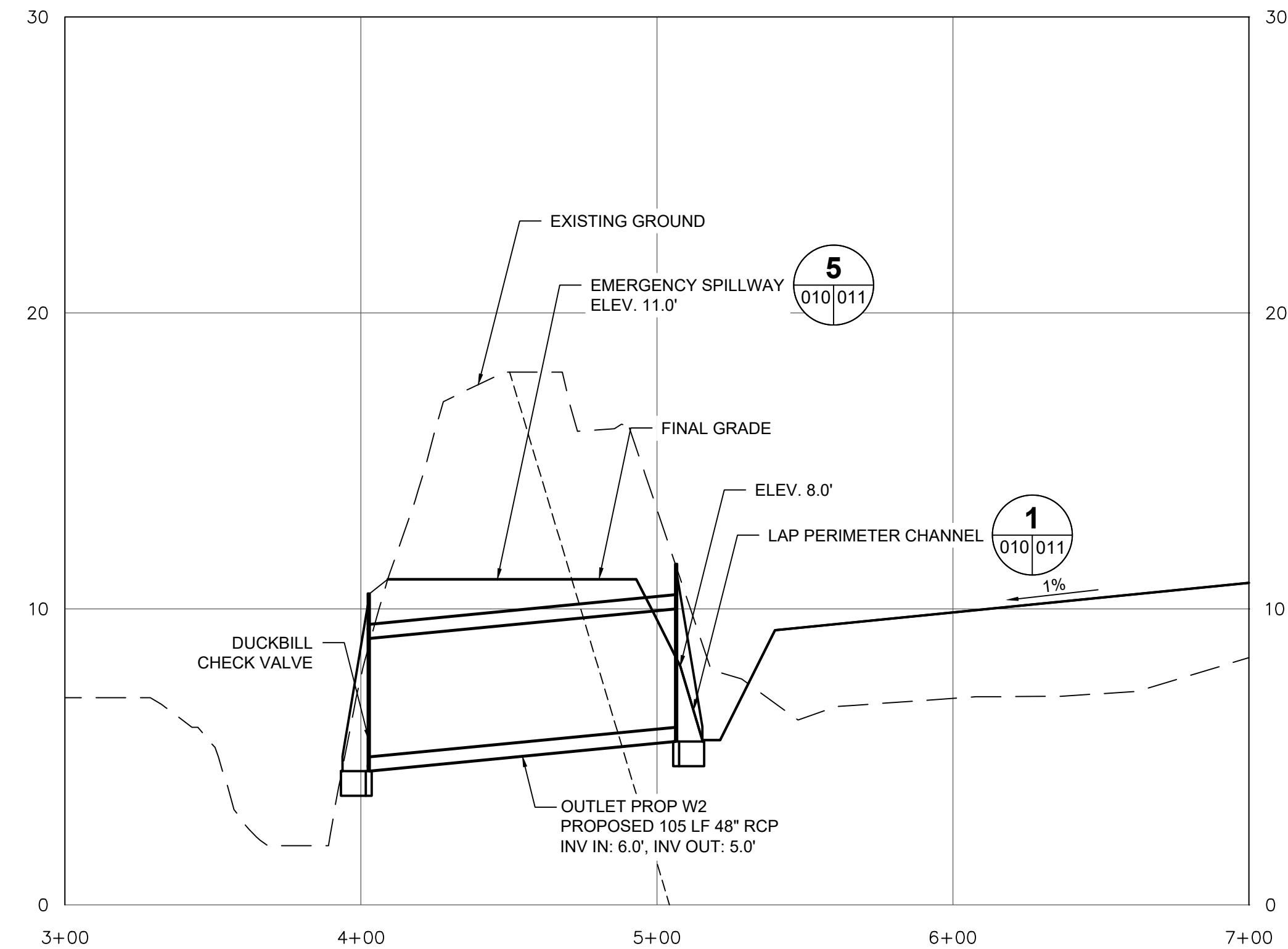
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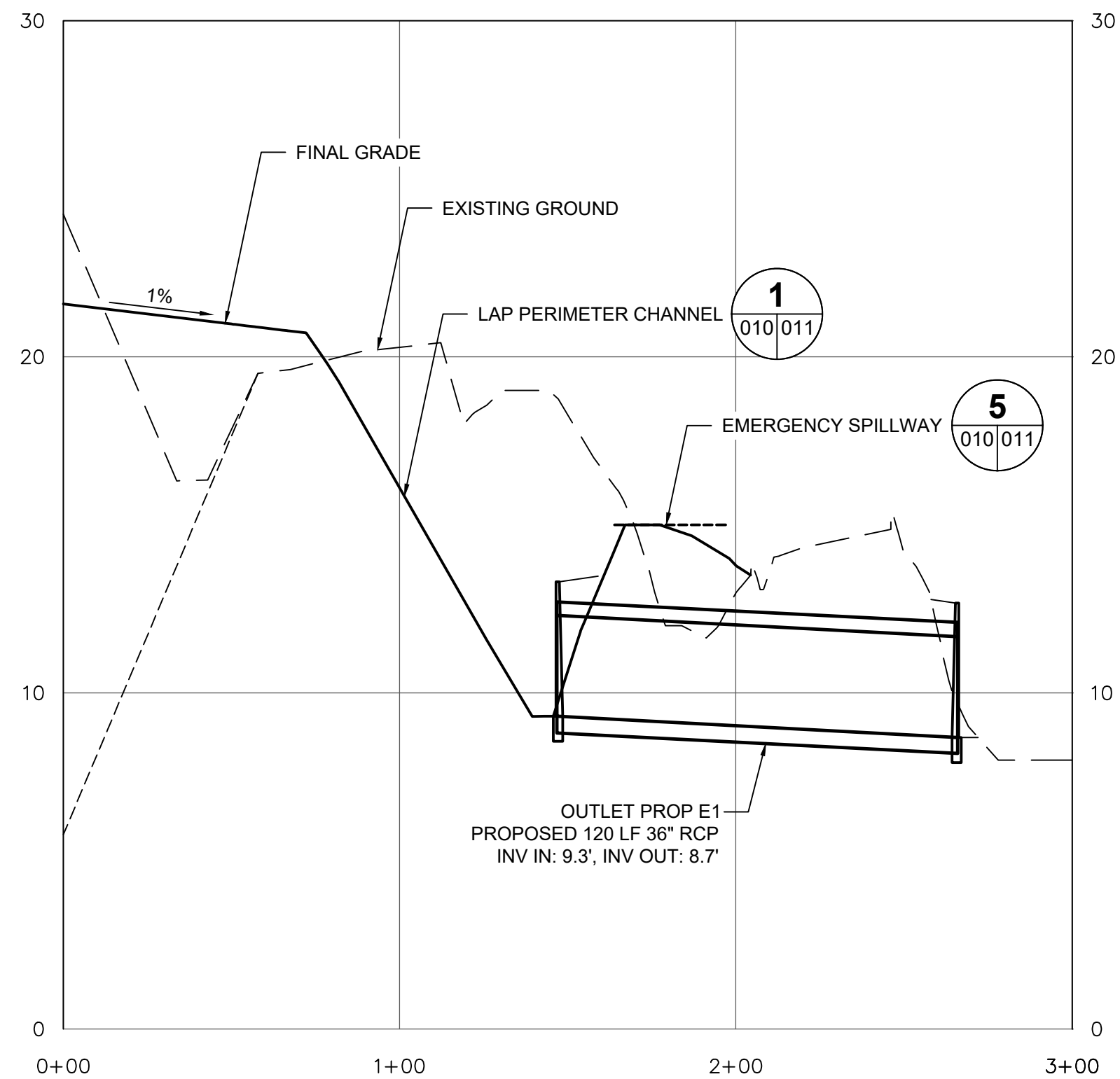
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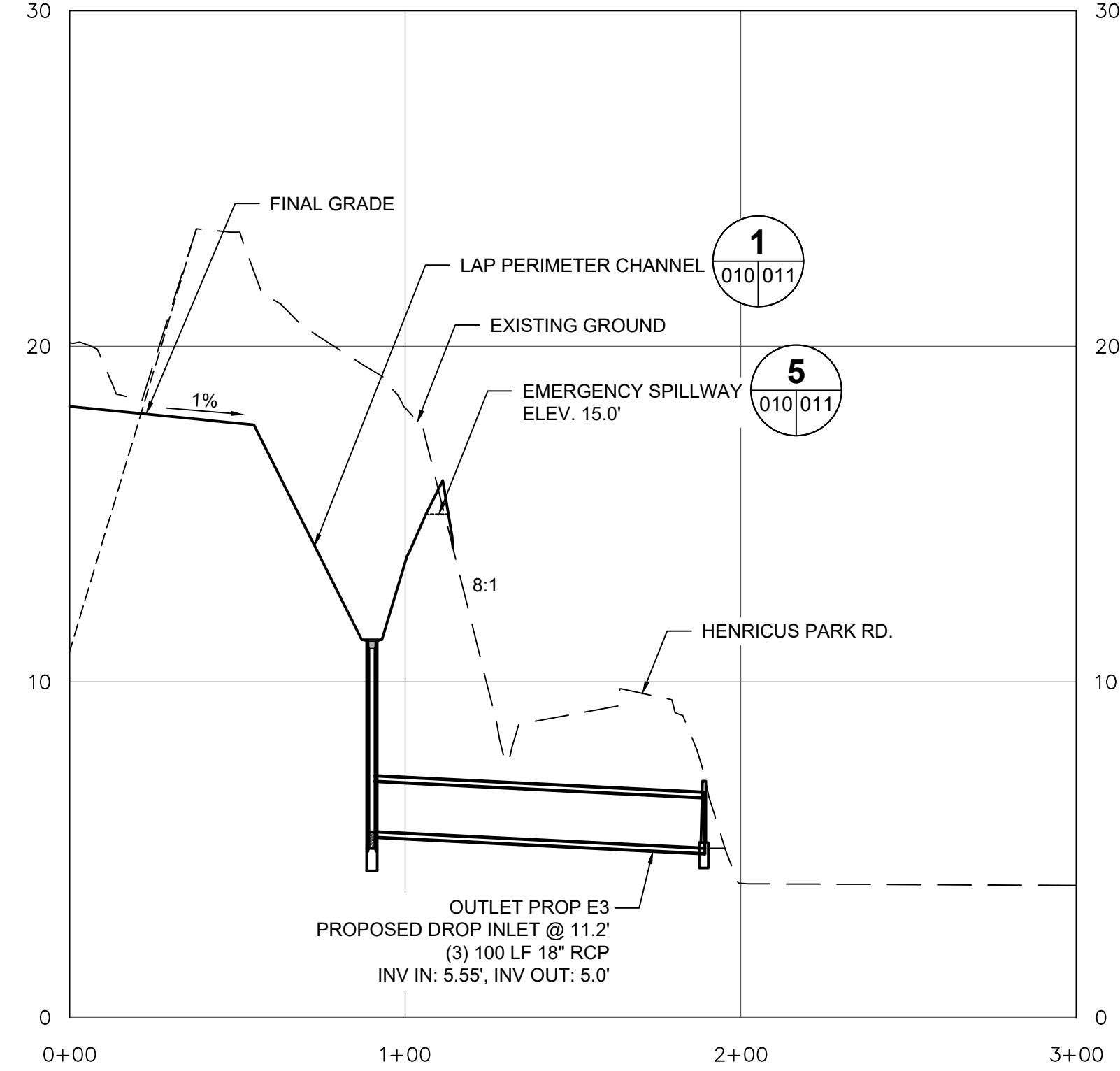
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PROFILE - (P-P') 3+00 TO 7+00



PROFILE - (S-S') 0+00 TO 3+00



PROFILE - (T-T') 0+00 TO 3+00

LEGEND

- EXISTING GRADES
- ESTIMATED BOTTOM OF CCR
- PROPOSED FINAL GRADE

NOTE:

- FOR PROFILE REFERENCES, SEE FINAL GRADING CROSS SECTIONS PLAN, SHEET 007.

TITLE

PROPOSED STORMWATER STRUCTURES

CHESTERFIELD POWER STATION
CLOSURE PLAN - LOWER ASH POND
CHESTERFIELD COUNTY, VIRGINIA

FOR

PERMIT APPLICATION DRAWINGS

SCALE: NONE

DES: AMC

DWG TYPE: .DWG

DFTR: AMC

JOB NO: 60614683

CHKD: RJB

DATE: 11/13/2020

ENGR: GWL

FILENAME: 010 FINAL GRADING DETAILS I.DWG

APPD: GWL

DWG SIZE

DRAWING NO.

REVISION

ANSI D 22.0"x34.0"

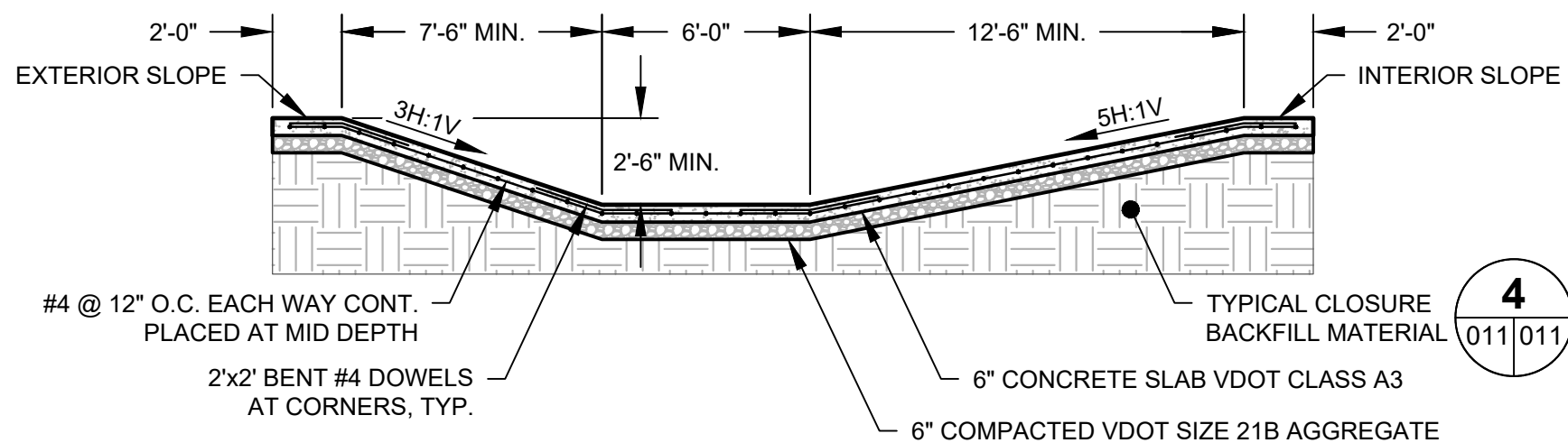
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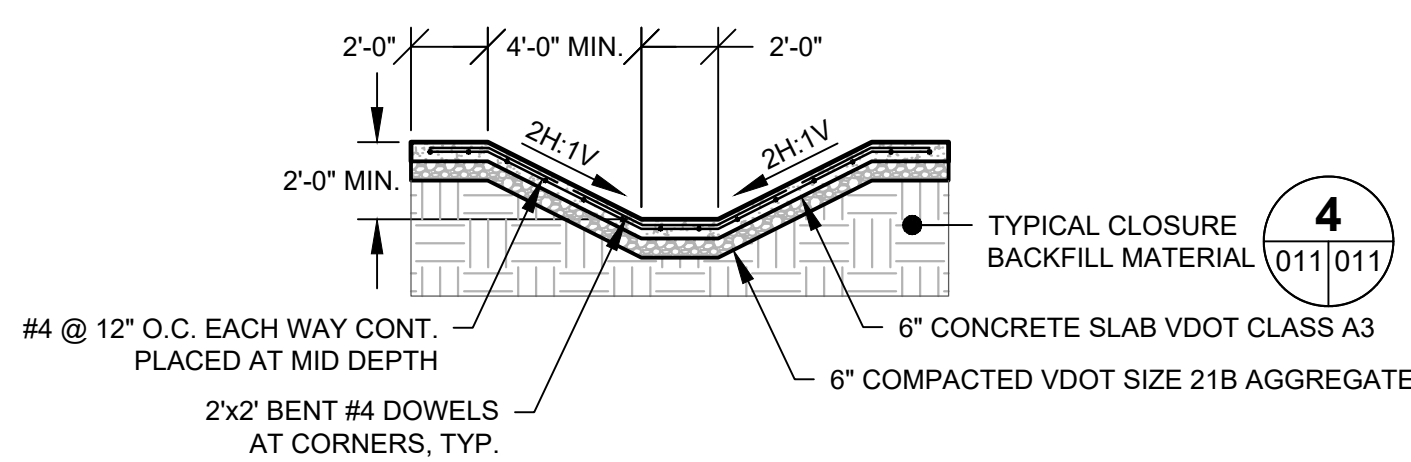


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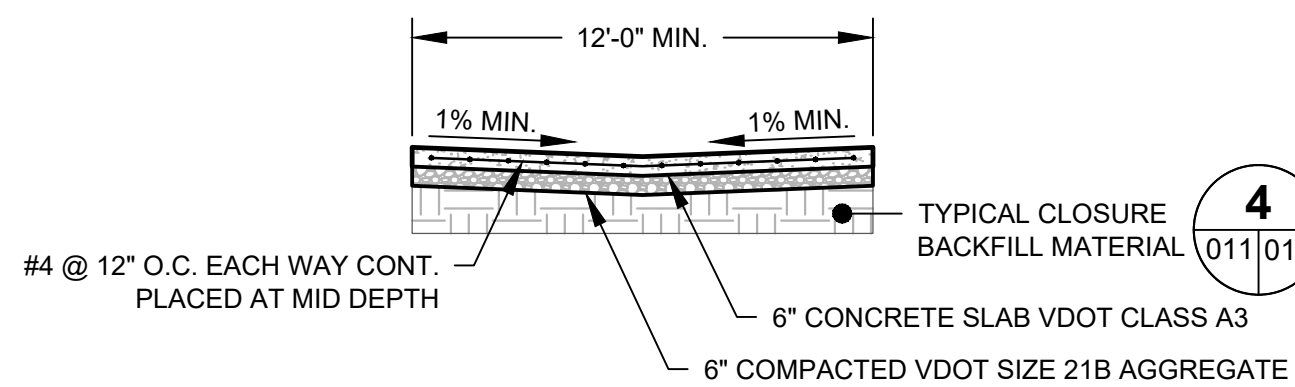
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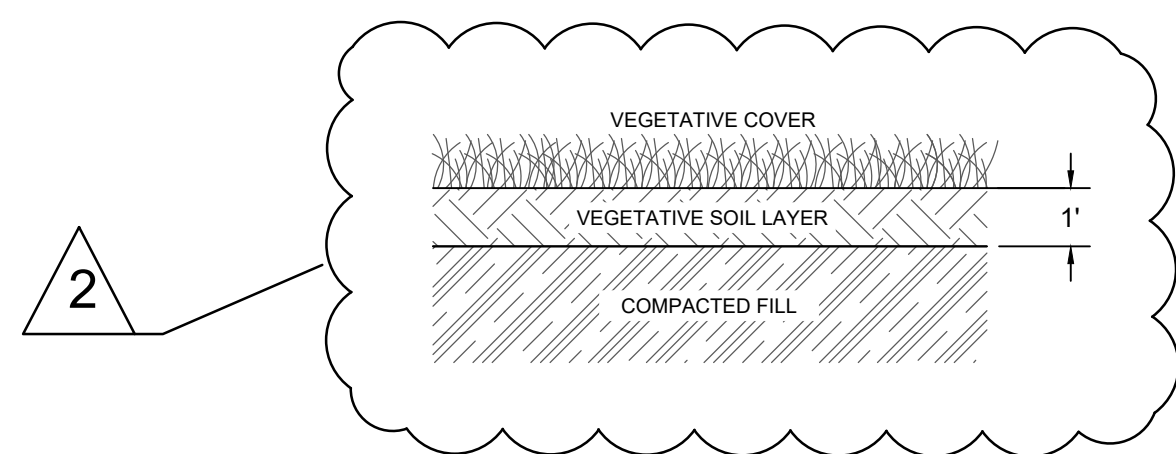
1 TYPICAL PERIMETER DITCH
NOT TO SCALE



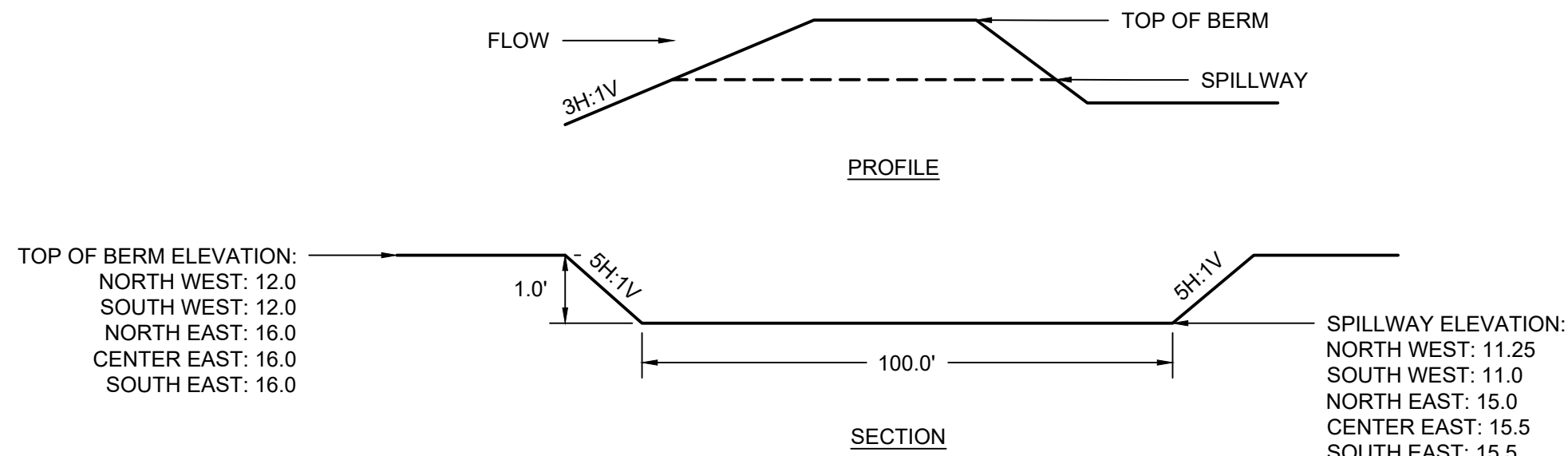
2 TYPICAL STORMWATER DITCH
NOT TO SCALE



3 TYPICAL CENTER CHANNEL
NOT TO SCALE

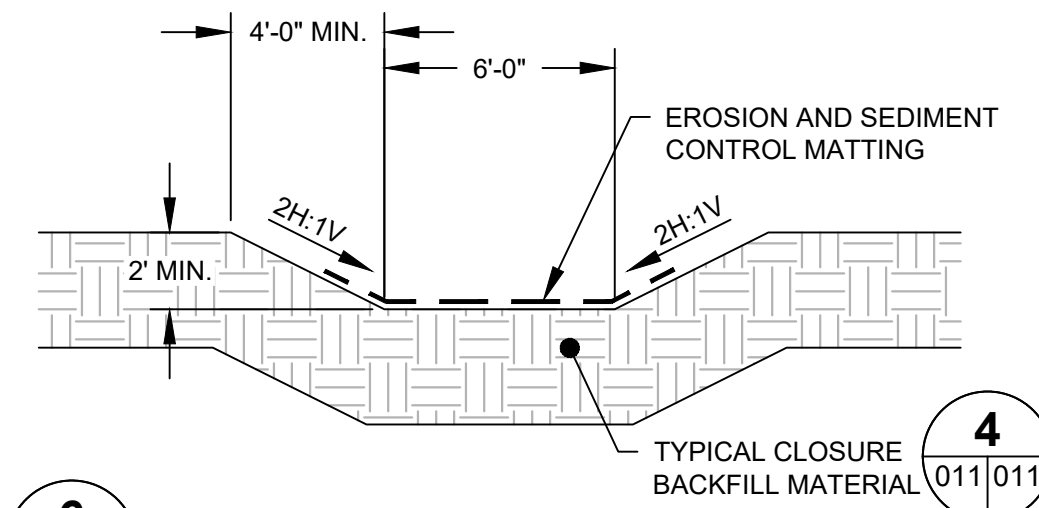


4 TYPICAL CLOSURE BACKFILL DETAIL
NOT TO SCALE



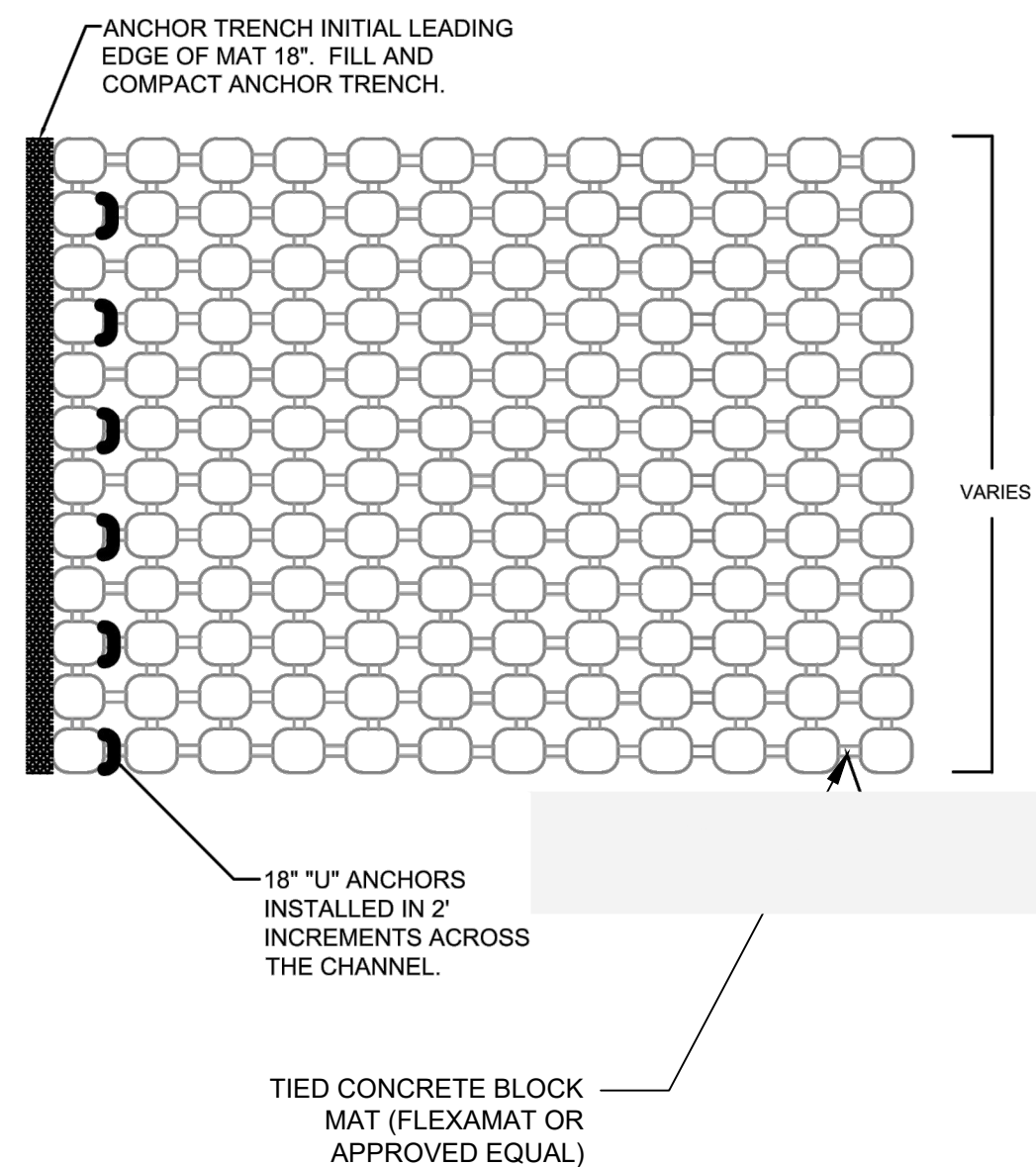
- NOTES:
- SOIL STABILIZATION BLANKET AND MATTING SHALL BE INSTALLED AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN ON SHEET 006.
 - EMERGENCY SPILLWAY SIZED TO CONVEY THE 100-YEAR STORM EVENT.
 - THESE ELEVATIONS REPRESENT POST-CLOSURE CONDITIONS.

5 EMERGENCY SPILLWAY DETAIL
NOT TO SCALE

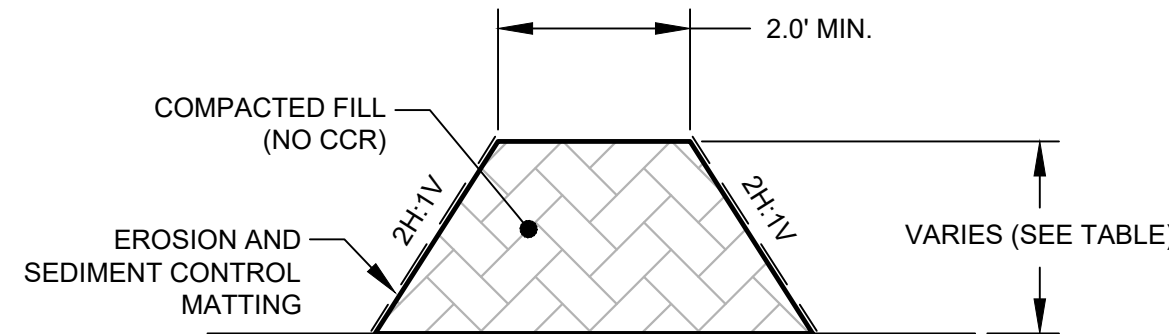
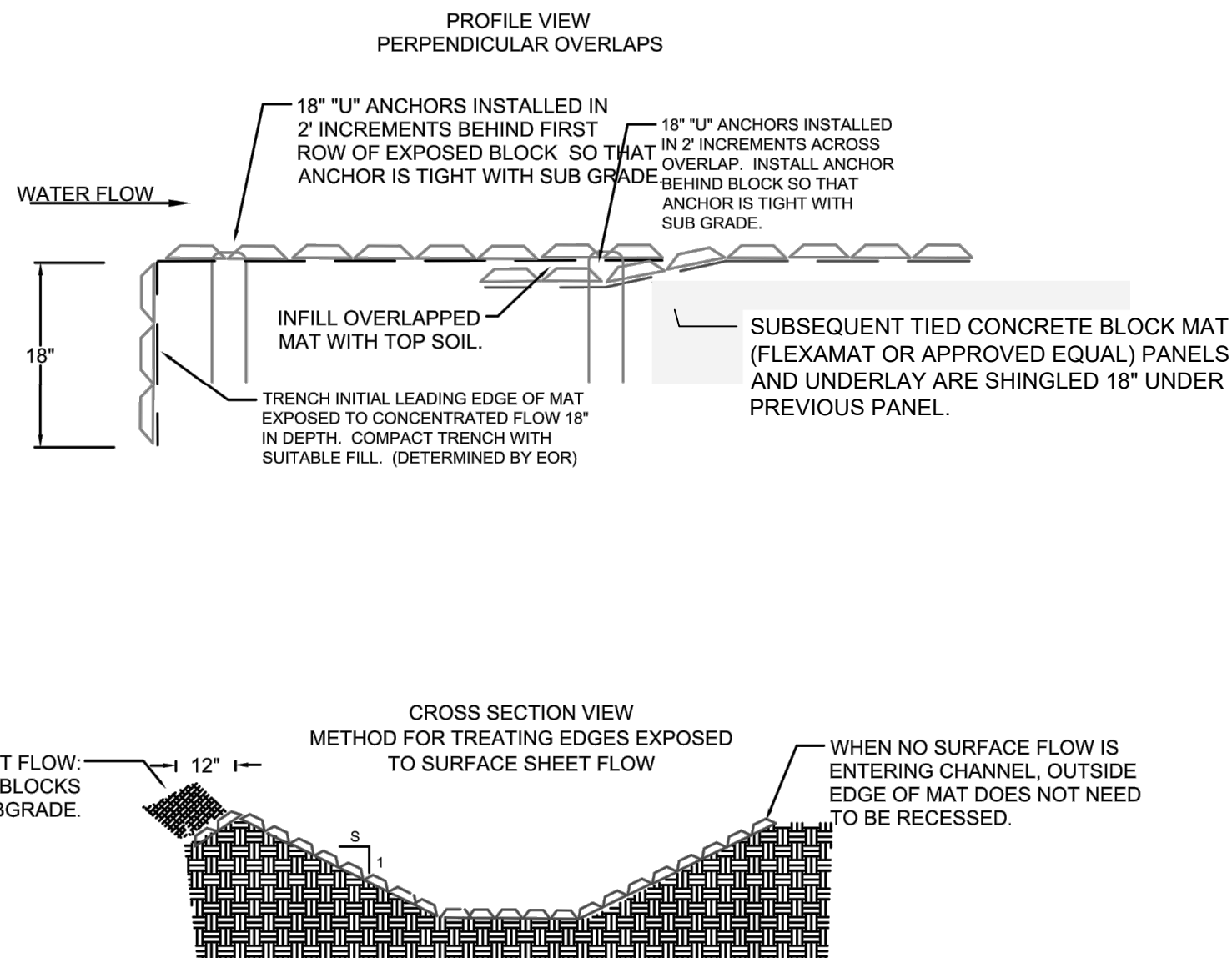


6 STORMWATER LETDOWN
NOT TO SCALE

- NOTES:
- EROSION AND SEDIMENT CONTROL MATTING TO EXTEND A MINIMUM HEIGHT OF 1 FOOT ABOVE DITCH INVERT.



7 TIED CONCRETE BLOCK MAT (FLEXAMAT OR APPROVED EQUAL) STORMWATER CONVEYANCE CHANNEL (ALTERNATE)
NOT TO SCALE

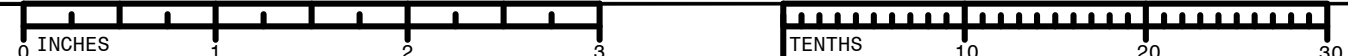


8 TYPICAL DIVERSION BERM
NOT TO SCALE

- NOTES:
- DIVERSION BERMS SIZED TO HANDLE THE 100-YEAR STORM EVENT WITHOUT OVERTOPPING.
 - THE ESTIMATED BERM HEIGHT (PROVIDED IN THE TABLE ON THIS SHEET) IS BASED ON AN ESTIMATED DRAINAGE AREA. CONTRACTOR TO CONFIRM THE REQUIRED BERM HEIGHT BASED ON THE ACTUAL DRAINAGE AREA DURING CONSTRUCTION.

DRAINAGE ACREAGE	BERM HEIGHT (FT)
10	2.0
15	2.5
20	2.5
25	3.0
30	3.5
35	3.5
40	4.0

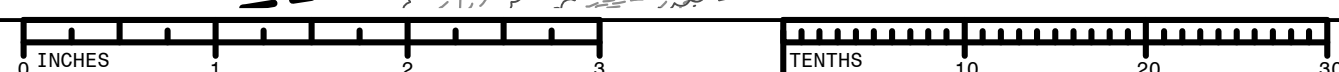
- CONSTRUCTION NOTES:**
- GRADE CHANNEL SO THAT WATER WILL FLOW DOWN THE CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM, UNYIELDING FOUNDATION FOR THE MATS.
 - APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO TIED CONCRETE BLOCK MAT (FLEXAMAT OR APPROVED EQUAL) INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
 - INSTALL TIED CONCRETE BLOCK MAT (FLEXAMAT OR APPROVED EQUAL). AVAILABLE WIDTHS ARE 5', 5.5', 8', 10', 12' & 16'. AVAILABLE IN CUSTOM LENGTHS. FOR WIDER WIDTHS, INSTALL MATS ADJACENT TO EACH OTHER. (CONTACT MANUFACTURER FOR DETAIL ADDRESSING LONGITUDINAL SEAMS.)
 - AT THE TOP OF THE CHANNEL, THE INITIAL LEADING EDGE OF TIED CONCRETE BLOCK MAT (FLEXAMAT OR APPROVED EQUAL) EXPOSED TO CONCENTRATED FLOWS SHALL BE EMBEDDED 18" VERTICALLY INTO THE SUBGRADE TO SERVE AS AN ANCHOR TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY ENGINEER OF RECORD).
 - FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25' OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL-COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
 - INSTALL 18" "U" ANCHORS IN 2' INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. "U" ANCHORS CONSIST OF #3 REBAR "U" ANCHOR WITH 18" LEGS.
 - AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SOIL.



REVISIONS

REV NO	DATE	INITIALS	DESCRIPTION
2	7/22/2024	AMC	REMOVE LOW PERMEABILITY FILL FROM BACKFILL DETAIL

AECOM	TITLE FINAL GRADING AND STORMWATER DETAILS CHESTERFIELD POWER STATION CLOSURE PLAN - LOWER ASH POND CHESTERFIELD COUNTY, VIRGINIA		
	FOR PERMIT APPLICATION DRAWINGS		
		SCALE: NONE	DES: AMC
		DWG TYPE: .DWG	DFTR: AMC
FILENAME: 010_FINAL GRADING DETAILS I.DWG		APPD: SCW	
DWG SIZE ANSI D 22.0"x34.0"	DRAWING NO. 011		
REVISION		2	



OVERHEAD TRANSMISSION
LINE POLE

FORESTED WETLANDS

OPEN WATER WETLANDS

EXISTING ROAD

PROPOSED ROAD

PROPOSED CONCRETE-LINED
STORMWATER CONVEYANCE
CHANNEL

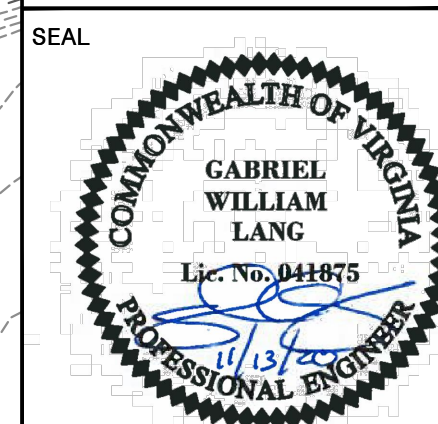
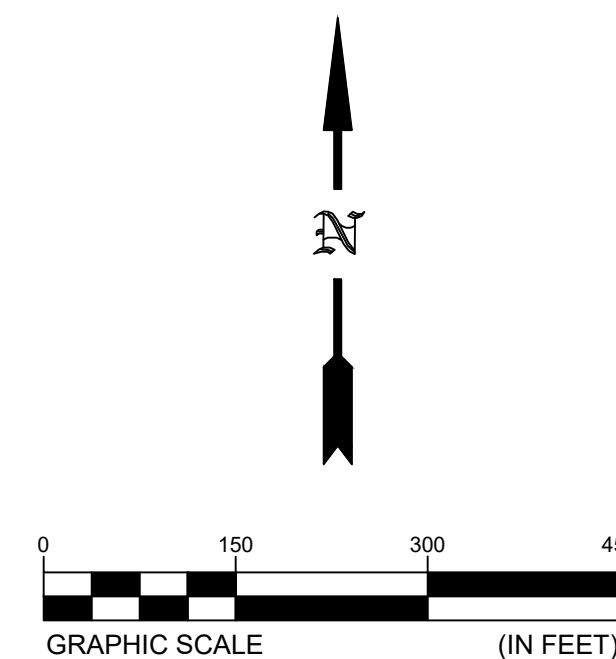
PROPOSED SECURITY FENCE

PROPOSED PRIVACY FENCE

APPROX. LIMIT OF DISTURBANCE

1. THE EXISTING SURVEY INFORMATION (TOPOGRAPHY, PLANIMETRICS, ETC.) PRESENTED IN THESE DRAWINGS WAS OBTAINED FROM THE SURVEY COMPILED BY TUCK MAPPING SOLUTIONS OF BIG STONE GAP, VIRGINIA; THE LIDAR FLIGHT DATE WAS JUNE 8, 2016 AND THE AIRBORNE SURVEY FLIGHT DATE WAS MAY 11, 2018. THE EXISTING SURVEY INFORMATION WAS AMENDED WITH A SURVEY OF UNDERGROUND UTILITIES PERFORMED BY D&M SURVEYORS P.C., DATED SEPTEMBER 23, 2019, AS WELL AS WITH LOWER ASH POND INTERIM AS-BUILT SURFACE, SURVEY PERFORMED BY MCKIM & CREED ON AUGUST 8, 2019.
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1. BASIS OF BEARINGS: NAD83, VIRGINIA STATE PLANE, SOUTH ZONE. ELEVATIONS ARE BASED ON NAVD88.
2. PERIMETER DIKE CAN BE LOWERED WITH THE EXCAVATION OR SLOPED TEMPORARILY AT 3H:1V OR FLATTER. THE DIKE MUST REMAIN ABOVE ELEVATION 16 FEET UNTIL ALL CCR IS REMOVED TO PROVIDE ADEQUATE SEPARATION FROM THE 100-YEAR FLOOD. IF SLOPES ARE CONSTRUCTED, THE CONTRACTOR SHALL ASSESS CONSTRUCTION STABILITY OF THE SLOPES AND DETERMINE IN ADDITIONAL MEASURES ARE NECESSARY TO SUPPORT CONSTRUCTION LOADS.
3. THE CONTRACTOR IS REQUIRED TO LOWER PERIMETER DIKE AS NECESSARY TO INSTALL EMERGENCY SPILLWAYS AT EACH FINAL STORMWATER OUTLET, PER DETAIL 5 ON SHEET 011.
4. IF CCR MATERIAL IS DISCOVERED IN THE PERIMETER DIKE, CONTRACTOR TO SUBMIT A PLAN FOR THE REMOVAL TO THE OWNER AND OWNER'S ENGINEER FOR APPROVAL.



CHESTERFIELD POWER STATION
CLOSURE PLAN - LOWER ASH POND
CHESTERFIELD COUNTY, VIRGINIA



**Dominion
Energy®**

SCALE: 1"=150'	DES: AMC
DWG TYPE: DWG	DFTR: AMC
JOB NO: 60614683	CHKD: RJB
DATE: 11/13/2020	ENGR: GWI

DWG SIZE	DRAWING NO	REVISION
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ANSI D 22.0"x34.0"	012	0
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012

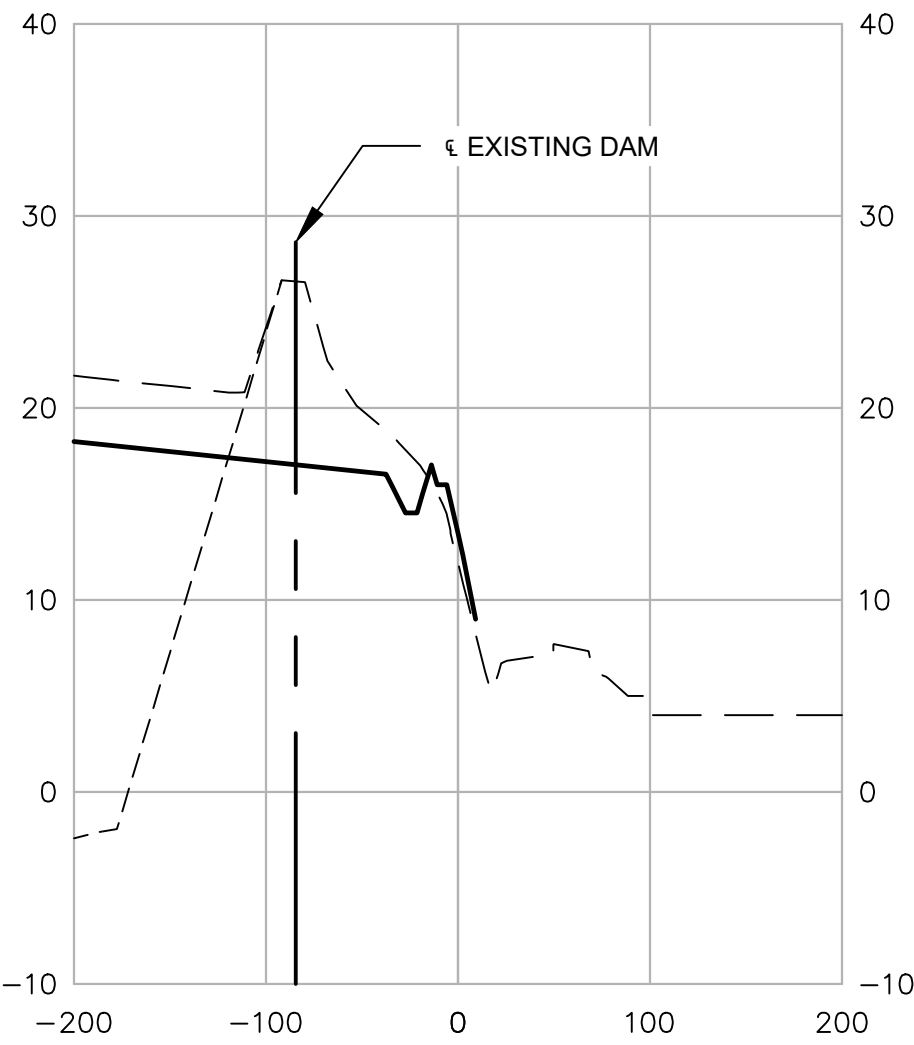
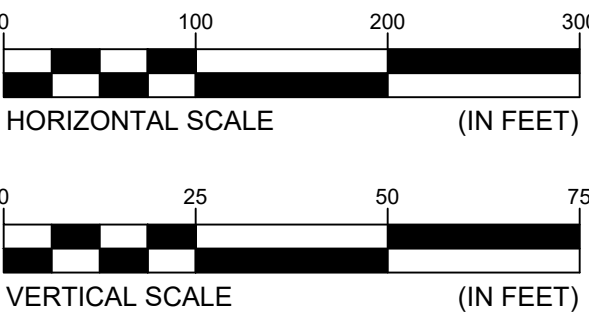
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LEGEND

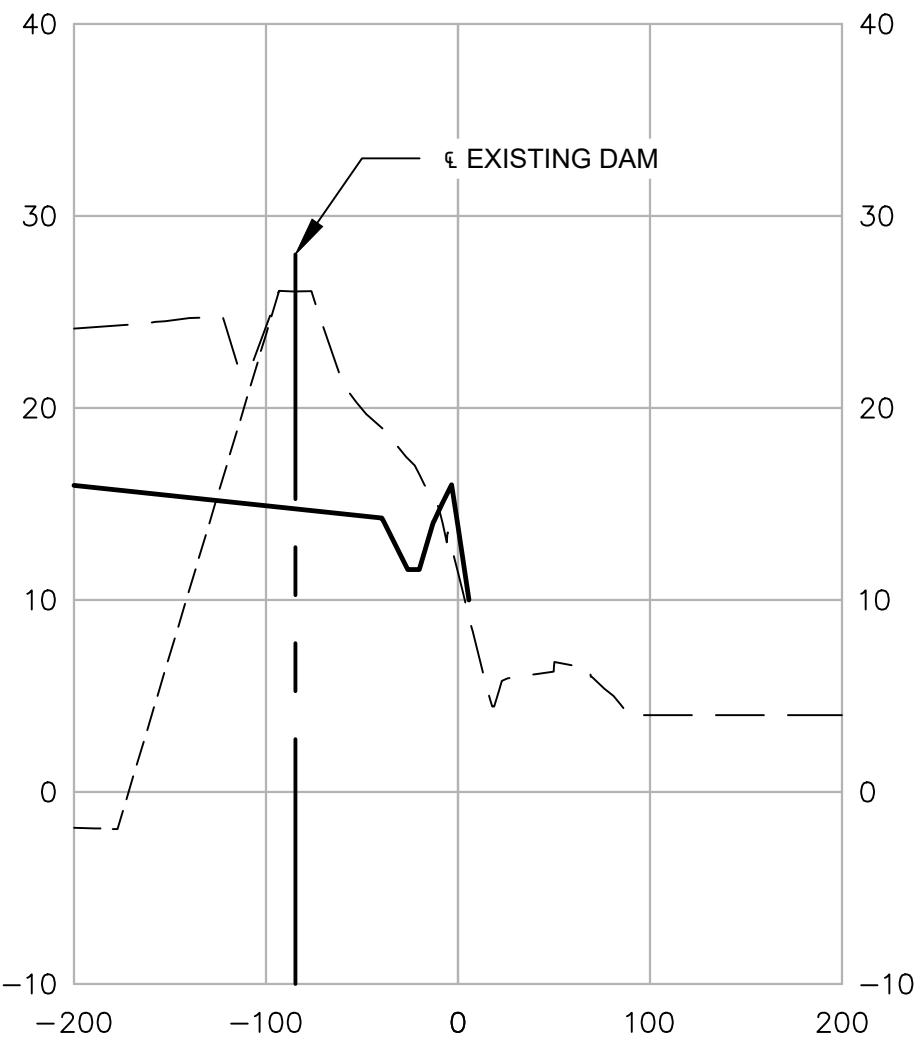
- EXISTING GRADES
- ESTIMATED BOTTOM OF ASH
- PROPOSED FINAL GRADE

NOTES

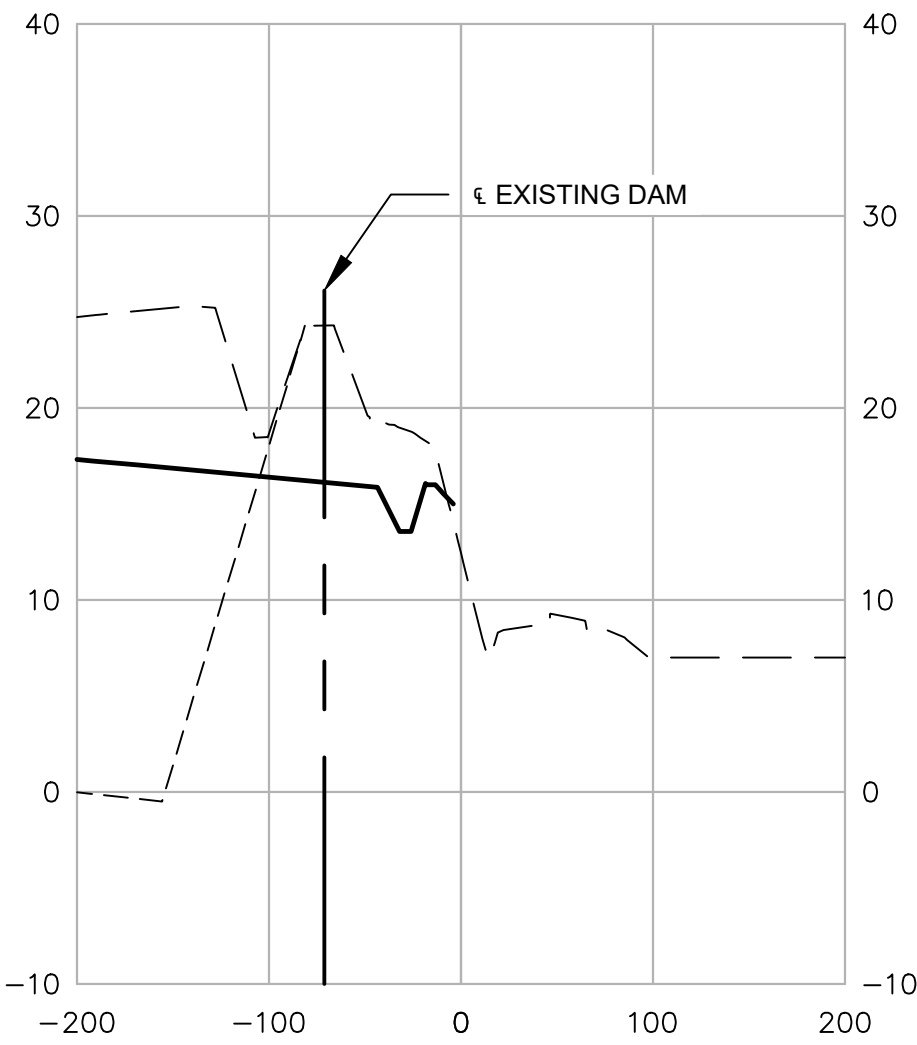
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- IF CCR MATERIAL IS DISCOVERED IN THE PERIMETER DIKE, CONTRACTOR TO SUBMIT A PLAN FOR THE REMOVAL TO THE OWNER AND OWNER'S ENGINEER FOR APPROVAL.



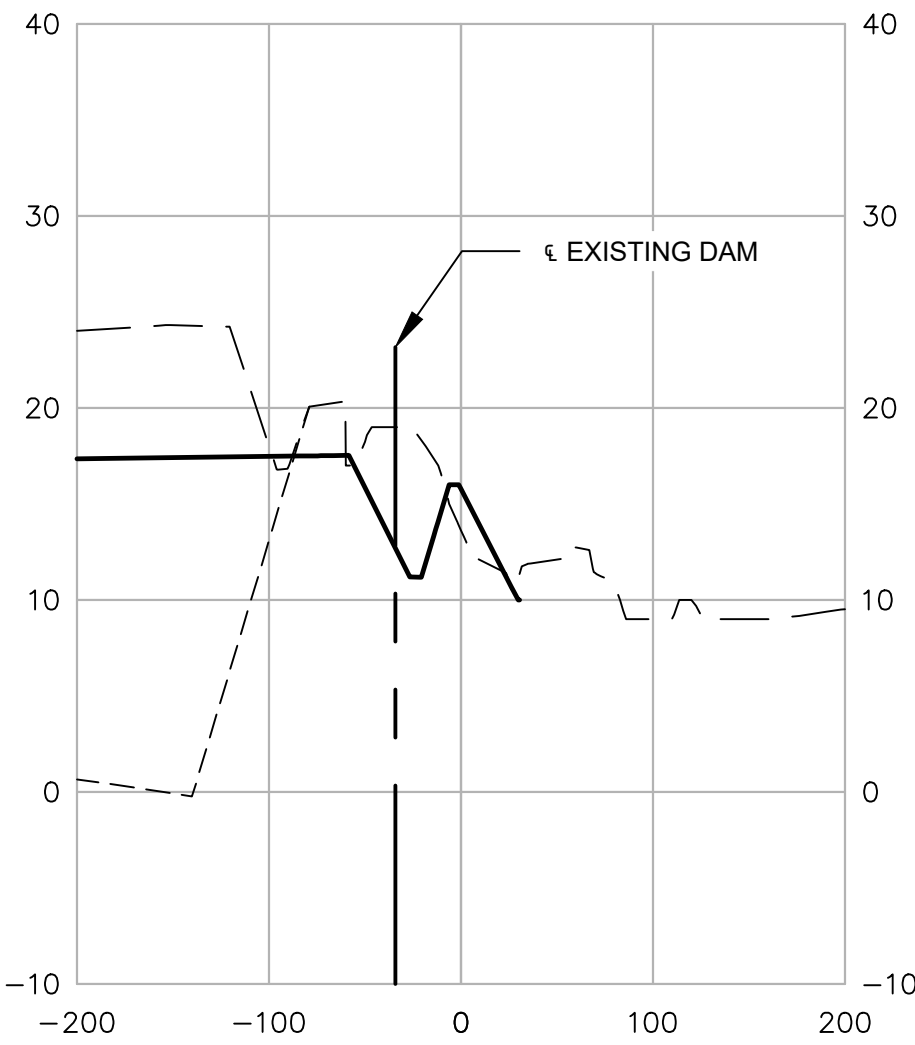
STA. 50+00



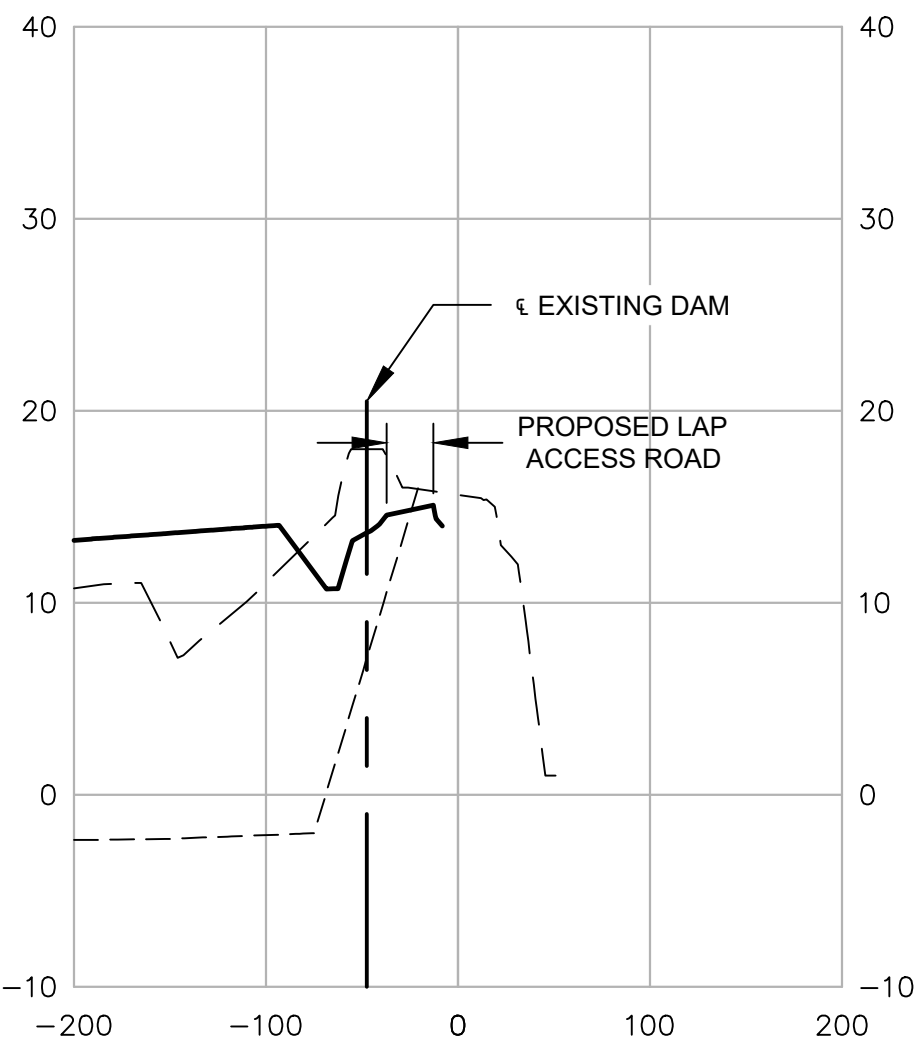
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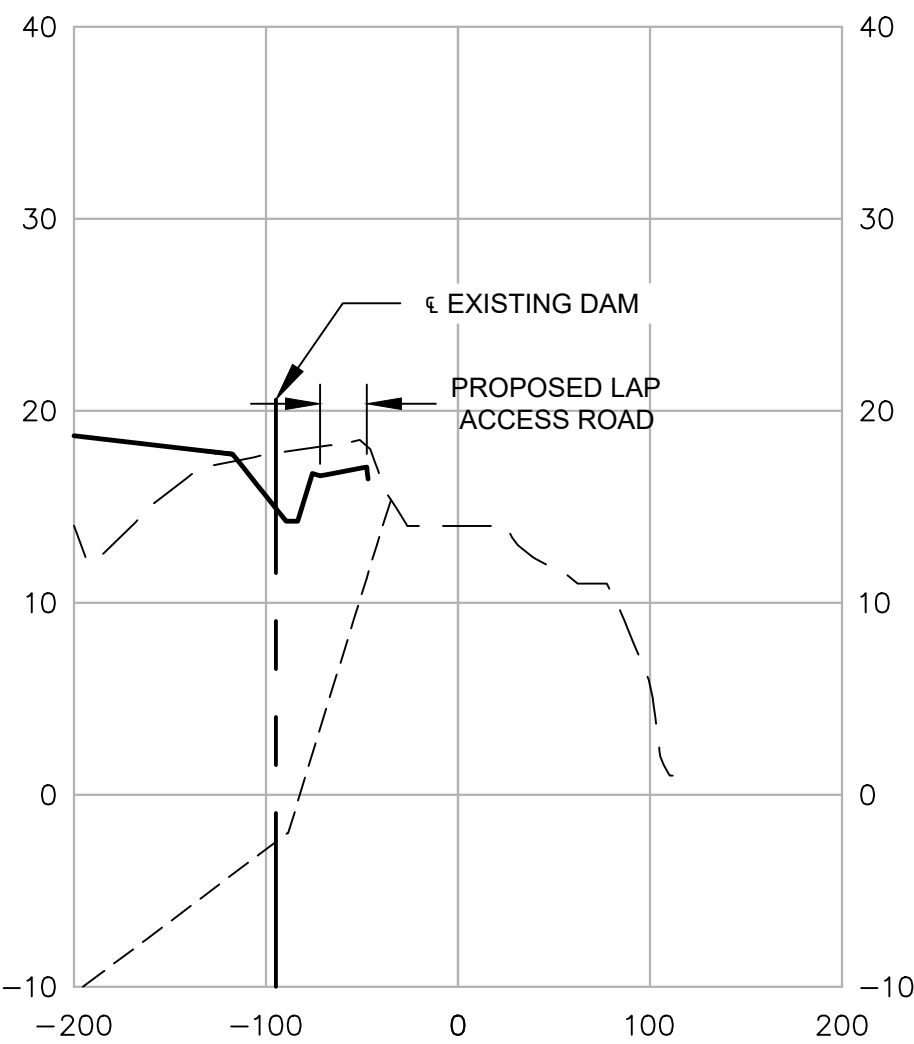
STA. 60+00



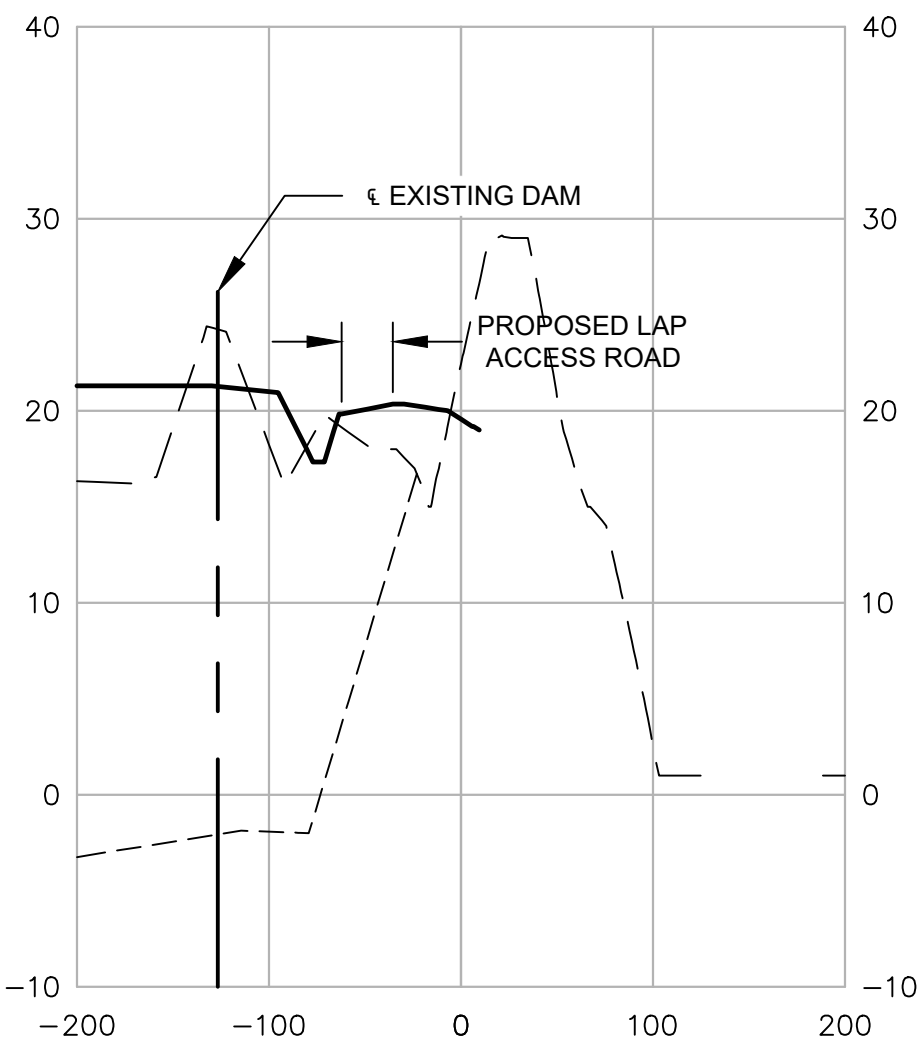
STA. 65+00



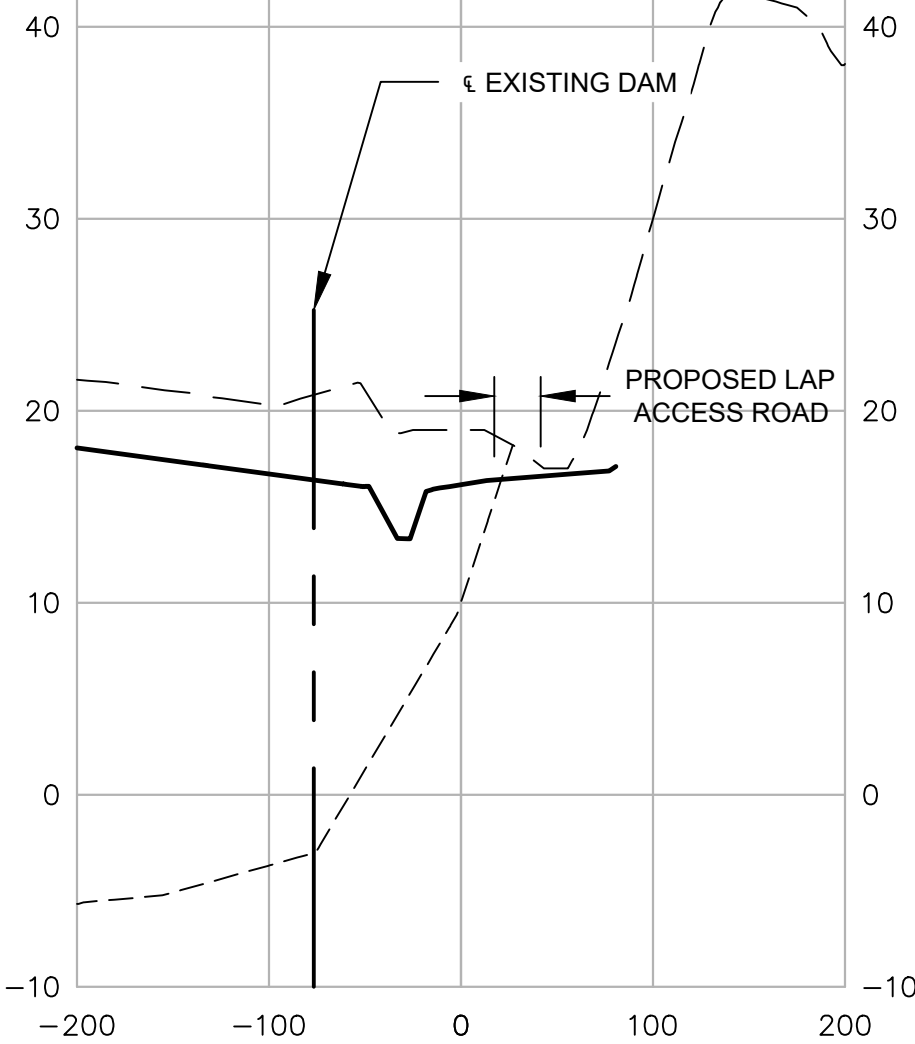
STA. 25+00



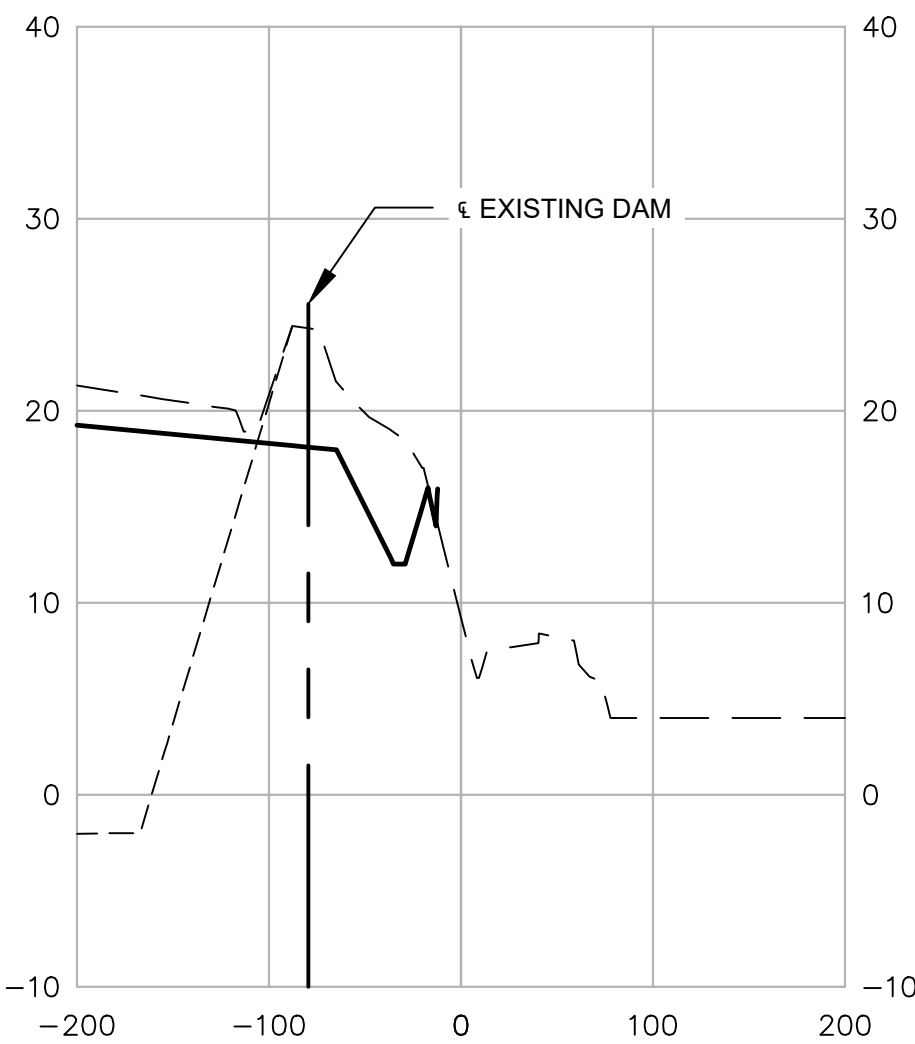
STA. 30+00



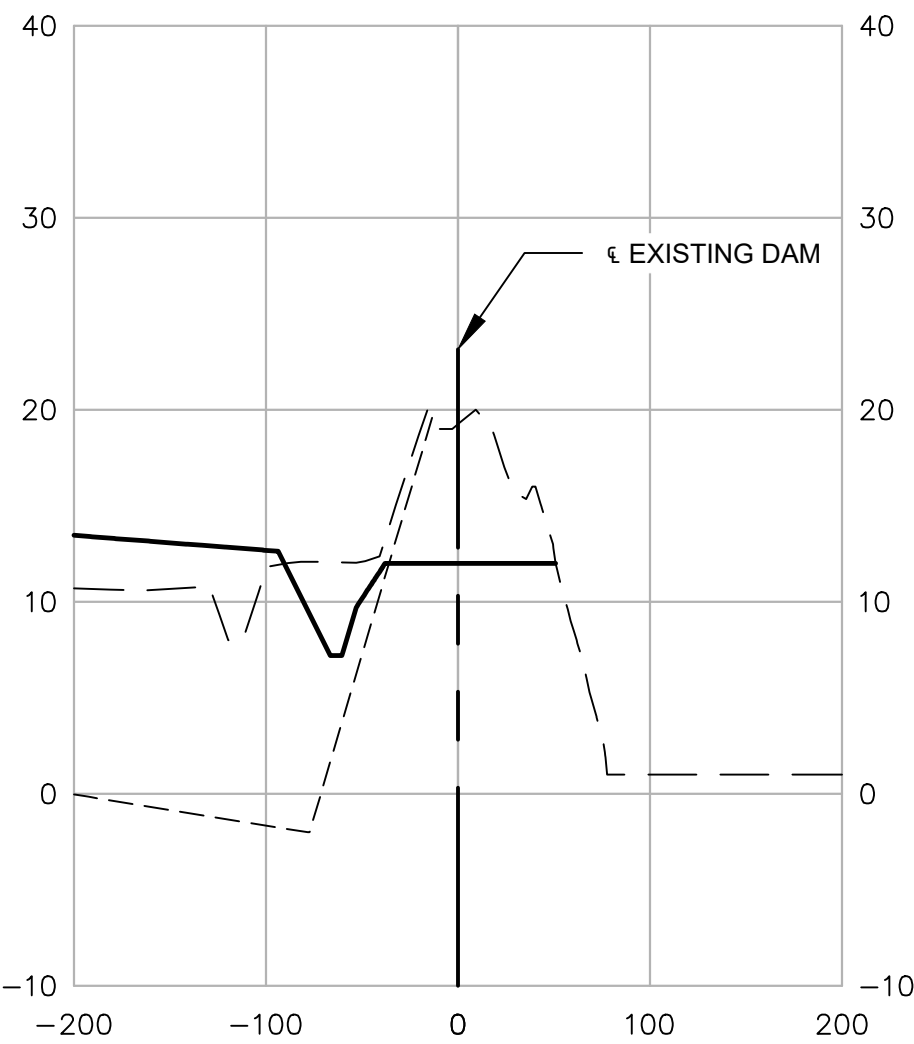
STA. 35+00



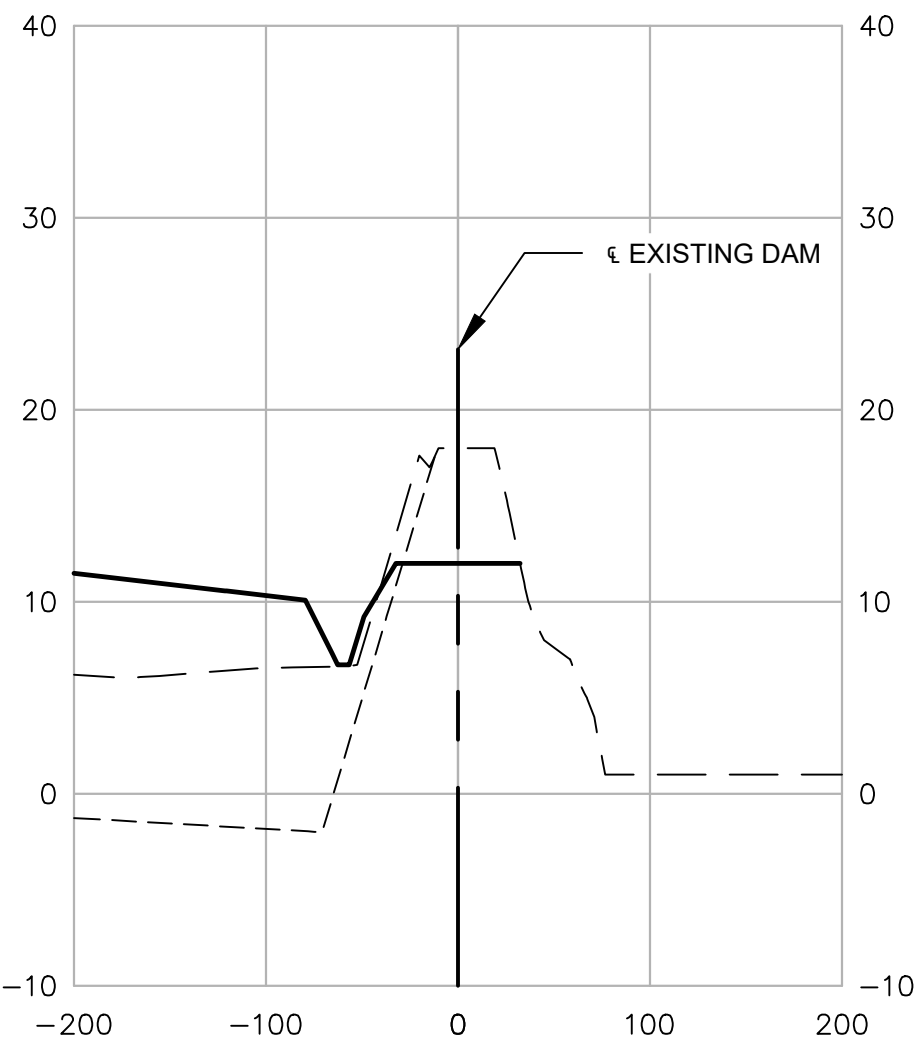
STA. 40+00



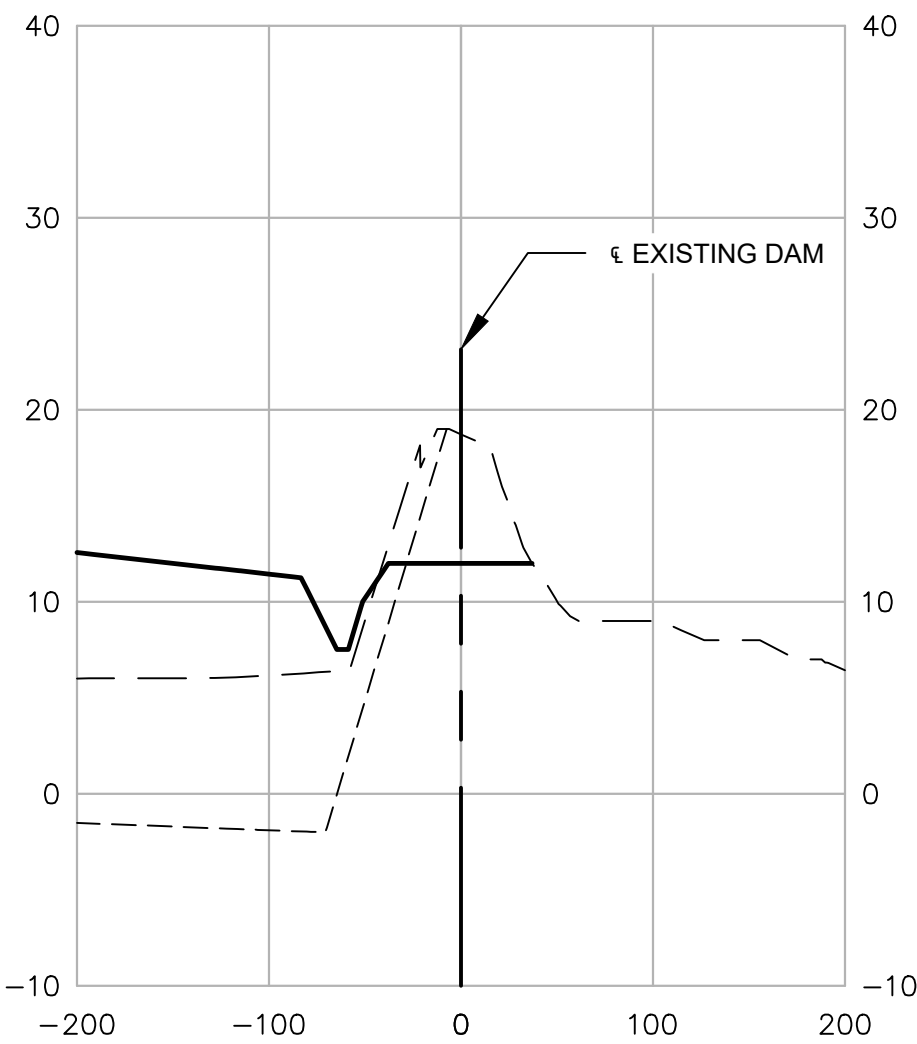
STA. 45+00



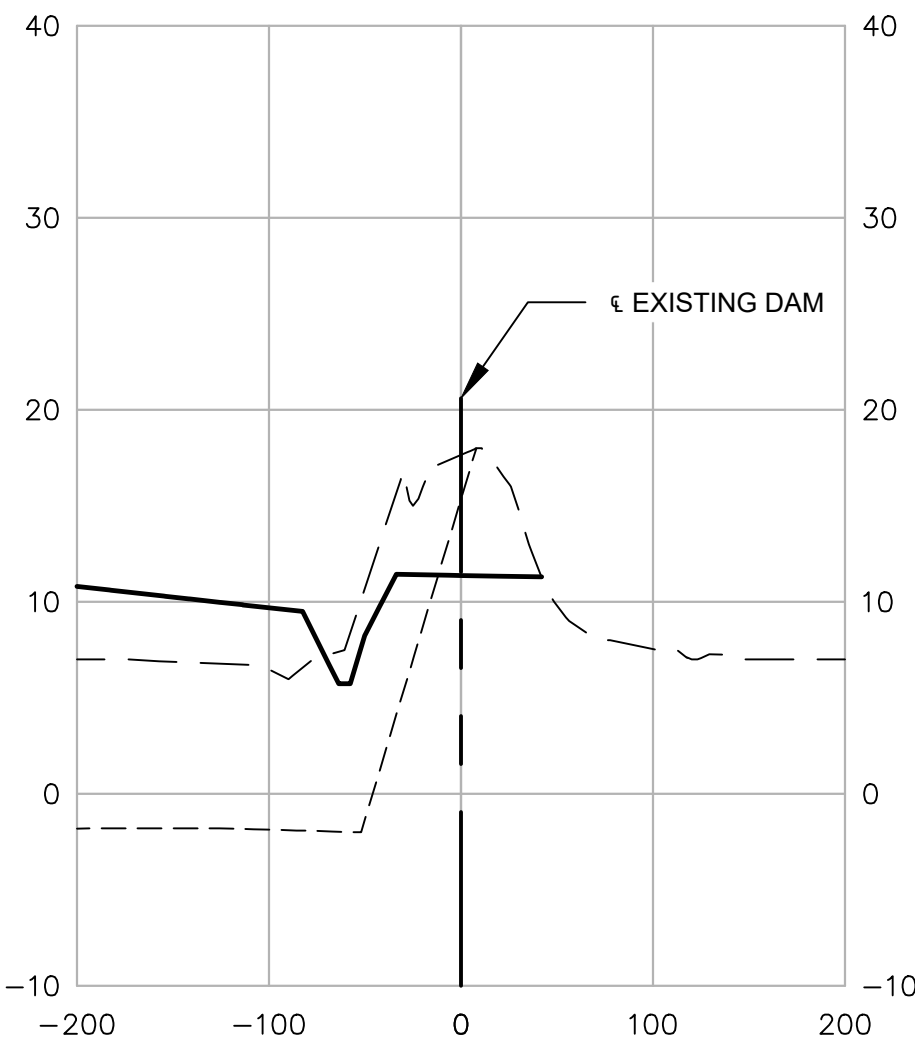
STA. 5+00



STA. 10+00



STA. 15+00



STA. 20+00

REVISIONS

REV NO	DATE	INITIALS	DESCRIPTION
1	8/21/2020	AMC	UPDATE HENRICUS PARK RD GRADING, ADD PAVEMENT IMPROVEMENTS LOD

AECOM

SEAL



TITLE
DAM DECOMMISSIONING PLAN
CROSS SECTIONS
CHESTERFIELD POWER STATION
CLOSURE PLAN - LOWER ASH POND
CHESTERFIELD COUNTY, VIRGINIA

FOR
PERMIT APPLICATION DRAWINGS



SCALE: 1"=100'	DES: AMC
DWG TYPE: .DWG	DFTR: AMC
JOB NO: 60614683	CHKD: RJB
DATE: 11/13/2020	ENGR: GWL

FILENAME: 012 DAM DECOMMISSIONING PLAN.DWG APPD: GWL

DWG SIZE: 22.0"x34.0" DRAWING NO. 013 REVISION 0