

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

The Electronic Application Of Kentucky Power)	
Company For A Certificate Of Public Convenience)	
And Necessity To Construct 69 kV Transmission)	Case No. 2023-00040
Lines And Associated Facilities In Pike County,)	
Kentucky ("Belfry Area Transmission Line Project"))	

Kentucky Power Company's Notice of Filing of Survey

In accordance with Paragraph 2 of the Commission's October 6, 2023 Order in this proceeding, Kentucky Power files as **EXHIBIT A** to this notice a copy of survey for the Orinoco Station.

Respectfully submitted,



Katie M. Glass
STITES & HARBISON PLLC
421 West Main Street
P. O. Box 634
Frankfort, Kentucky 40602-0634
Telephone: (502) 223-3477
kglass@stites.com
COUNSEL FOR KENTUCKY POWER
COMPANY

EXHIBIT A

OWNER / APPLICANT:

AMERICAN ELECTRIC POWER
APPALACHIAN POWER COMPANY
1 RIVERSIDE PLAZA
COLUMBUS, OHIO 43215

PROJECT MANAGER: WAYNE COOPER
PHONE: 304-348-4608
EMAIL: LWCOOPER@AEP.COM

CIVIL ENGINEER: LOGAN MCKINNEY
PHONE: 540-494-4591
EMAIL: LKMCKINNEY@AEP.COM

STATION ENGINEER: MIKE LIVELY (GANNETT FLEMING)
PHONE: 540-769-9911
EMAIL: MLIVELY@GFNET.COM

TCR: CHAD HOWELL
PHONE: 606-331-1414
EMAIL: CDHOWELL@AEP.COM

AEP WERS: DARREN KIDWELL
PHONE: 540-449-8826
EMAIL: DWKIDWELL@AEP.COM

CIVIL/SITE DESIGN CONSULTANT:

POWER ENGINEERS, INC.
235 CLAIBORNE AVENUE
ROCKY MOUNT, VA 24151

STUART TORAASON, PE
PHONE: (513) 326-1504
EMAIL: STUART.TORAASON@POWERENG.COM

SURVEY CONSULTANT:

MPower RESOURCES, LLC.
BECKLEY, WEST VIRGINIA

TIM KOSUT
PHONE: (304) 573-2165
EMAIL: TKOSUT@MPWRR.COM

AMERICAN ELECTRIC POWER
FOR KENTUCKY POWER COMPANY

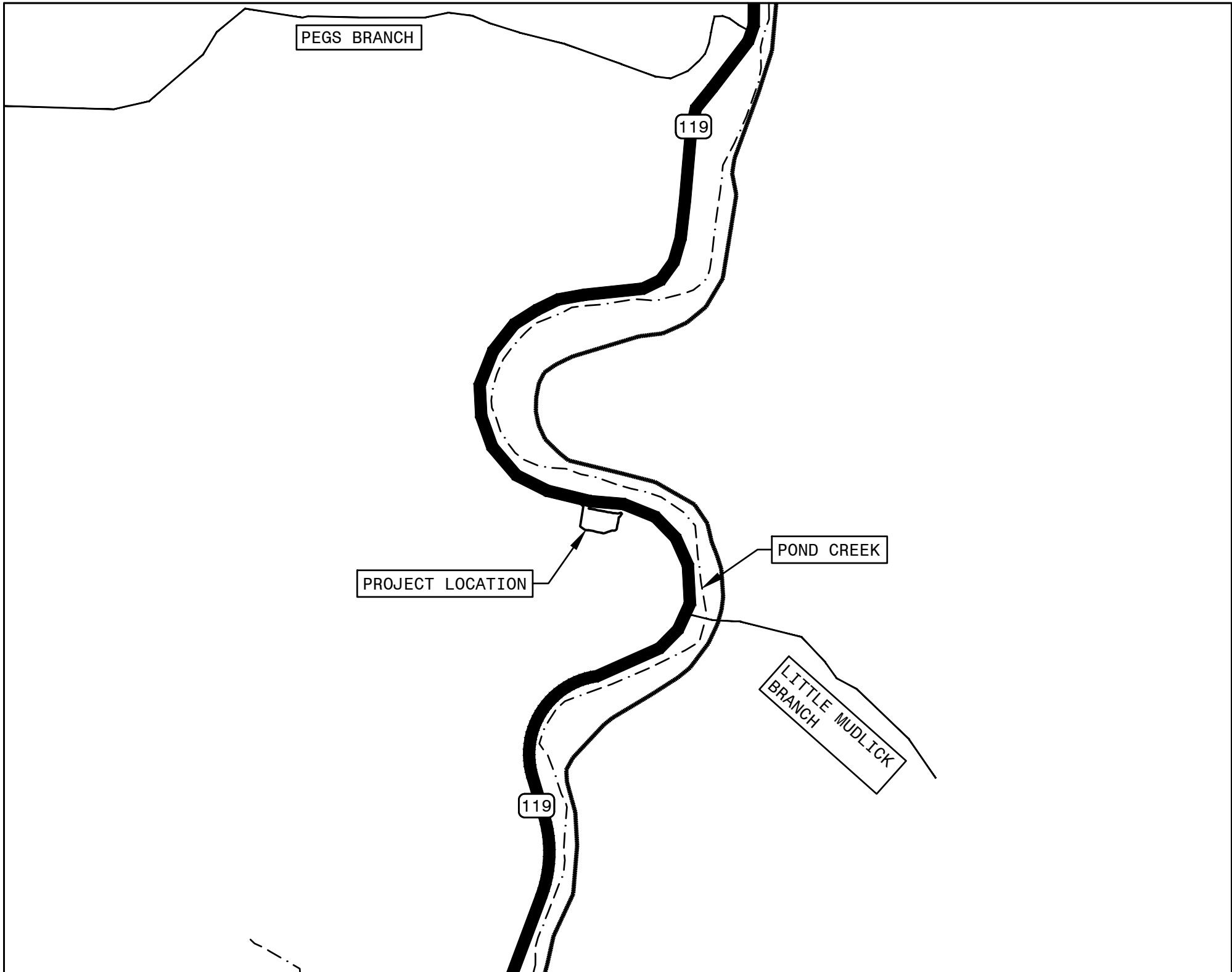
ORINOCO STATION

BELFRY, KENTUCKY

PIKE COUNTY

SITE/CIVIL GRADING PACKAGE

(STATION COORDINATES: 37.613097°, -82.271433°)



VICINITY MAP

N.T.S.

DRAWING INDEX

SHEET #	SHEET TITLE	REV 0
E-1220	COVER SHEET	6/14/2024
E-1221	GENERAL NOTES (WITH MINIMUM STANDARDS)	6/14/2024
E-1222	EROSION AND SEDIMENT CONTROL PLAN (SOILS MAP & DESCRIPTIONS)	6/14/2024
E-1223	STATION LAYOUT PLAN (EXISTING CONDITIONS AND DEMOLITION)	6/14/2024
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E-1226	GRADING PLAN (PHASE II - EROSION AND SEDIMENT CONTROL PLAN)	6/14/2024
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E-1229	GRADING SECTION VIEWS (ACCESS ROADS)	6/14/2024
E-1230	GRADING SECTION VIEWS (SCC PROFILE)	6/14/2024
E-1231	EROSION AND SEDIMENT CONTROL PLAN (PRE DRAINAGE AREAS)	6/14/2024
E-1232	EROSION AND SEDIMENT CONTROL PLAN (POST DRAINAGE AREAS)	6/14/2024
E-1233	EROSION AND SEDIMENT CONTROL DETAILS	6/14/2024
E-1234	EROSION AND SEDIMENT CONTROL DETAILS	6/14/2024

QUANTITY ESTIMATE

ESTIMATE OF QUANTITIES (TOTAL)		
SITE WORK & CLEARING/SURVEYING		
EARTHWORK		
DESCRIPTION	UNIT	QUANTITY
GRADING		
CLEARING AND GRUBBING: REMOVAL AND DISPOSAL OF EXISTING VEGETATION WITHIN CONSTRUCTION LIMITS AND DISPOSAL OFF-SITE IN AN AEP APPROVED FACILITY.	ACRE	1.25
DEMOLITION AND DISPOSAL	LS	1.00
EARTHWORK: CUT SOIL	CY	605.00
EARTHWORK: FILL (15% ADDED FOR COMPACTION)	CY	340.00
STATION PAD CONSTRUCTION		
STONE # 57 WASHED LESTONE - 3" WORKING SURFACE - STATION PAD:	TON	615.00
STONE # 57 WASHED LESTONE - 5" FINISH DEPTH- STATION PAD:	TON	1,025.00
CHAIN LINK FENCE w/ APPURTENANCES PER AEP STANDARDS:	LF	696.00
4' MAN GATE:	EACH	1.00
24'-0" WIDE DOUBLE ACCESS GATE INCLUDING CONCRETE GRADE BEAM FOUNDATION:	EACH	2.00
ACCESS ROAD AND PARKING LOT		
4" STONE #57 OR EQUIVALENT - PARKING:	TON	180.00
5" STONE #304 OR EQUIVALENT - PARKING:	TON	125.00
MIRAFI 600X GEOTEXTILE FABRIC OR EQUIVALENT: BASED ON SQUARE FOOTAGE OF ACCESS ROAD AND PARKING LOT.	SY	808.00
CONSTRUCTION AREAS OF NECESSITY:		
CONCRETE WASHOUT:	EACH	1.00
EROSION AND CONTROL MEASURES:		
SILT FENCE - INSTALL/MAINTAIN/REMOVE: (BELTED SILT FENCE)	LF	1,000.00
CONSTRUCTION ENTRANCE:	EACH	1.00
DIVERSION	LF	420.00
SEEDING AND MULCHING (HYDROSEED): INCLUDES ALL AREAS NOT COVERED BY STONE.	ACRE	0.54
CULVERT INLET PROTECTION:	EACH	1.00
CULVERT OUTLET PROTECTION:	EACH	1.00
ROCK CHECK DAMS PER STATE STANDARD:	EACH	5.00
STORMWATER MANAGEMENT & OUTFALL:		
CONCRETE LINED DITCHES:	CY	43.00
18" RCP CLASS IV PIPE:	LF	24.00
CONCRETE HEADWALL/ENDWALL - RDH-005-02:	EACH	2.00

NOTES:

PROVIDED QUANTITIES ARE ESTIMATED AND NOT GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UNITS PRIOR TO PREPARING AND SUBMITTING A FORMAL BID.

QUANTITIES DETERMINED USING THE FOLLOWING VALUES:

- WASHED, CRUSHED LIMESTONE AGGREGATE NO. 57: 2 TONS/CY.
- CRUSHER RUN AGGREGATE: 2 TONS/CY.
- WASHED, CRUSHED LIMESTONE AGGREGATE NO. 304: 2 TONS/CY.

SUITABILITY OF ALL MATERIALS SHALL BE DETERMINED BY GEOTECHNICAL ENGINEER ONSITE DURING CONSTRUCTION.

PROJECT STATISTICS:

STATION ADDRESS:
ORINOCO STATION
KY-119
BELFRY, KENTUCKY 41514

PARCEL NUMBER: N/A
ZONING DESIGNATION: N/A

CENTER OF SITE LATITUDE AND LONGITUDE
LAT: 37°16'47.15"
LONG: 82°16'17.16"

FLOOD INFORMATION:
FLOOD INSURANCE RATE MAP PANEL: 21195C0070J
EFFECTIVE DATE: 09/16/2015
FLOOD HAZARD ZONE: X

PROJECT LIMITS OF DISTURBANCE: 1.59 ACRES

NWBD HYDROLOGIC UNIT CODE (HUC 12): 050702010313
DEQ REGION: POND CREEK

TMDL CLASSIFICATION: N/A

LEGEND

EXISTING	PROPOSED

NOTE: THE LEGEND & SHEET INDEX IS TO BE USED THROUGHOUT THE CONSTRUCTION PLANS. IT HAS NOT BEEN PLACED ON REMAINING PLAN SHEETS FOR THE PURPOSE OF CLARITY AND READABILITY.

NOTIFY UTILITY COMPANIES BEFORE YOU DIG

THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVE-GROUND STRUCTURES. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 811 TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.



CM 1 2 3 4 5 6 7

3/16 INCH

4

8

12

16

TENTHS

10

20

30

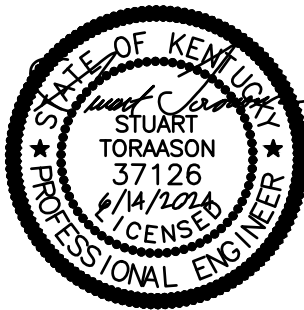
INCHES

1

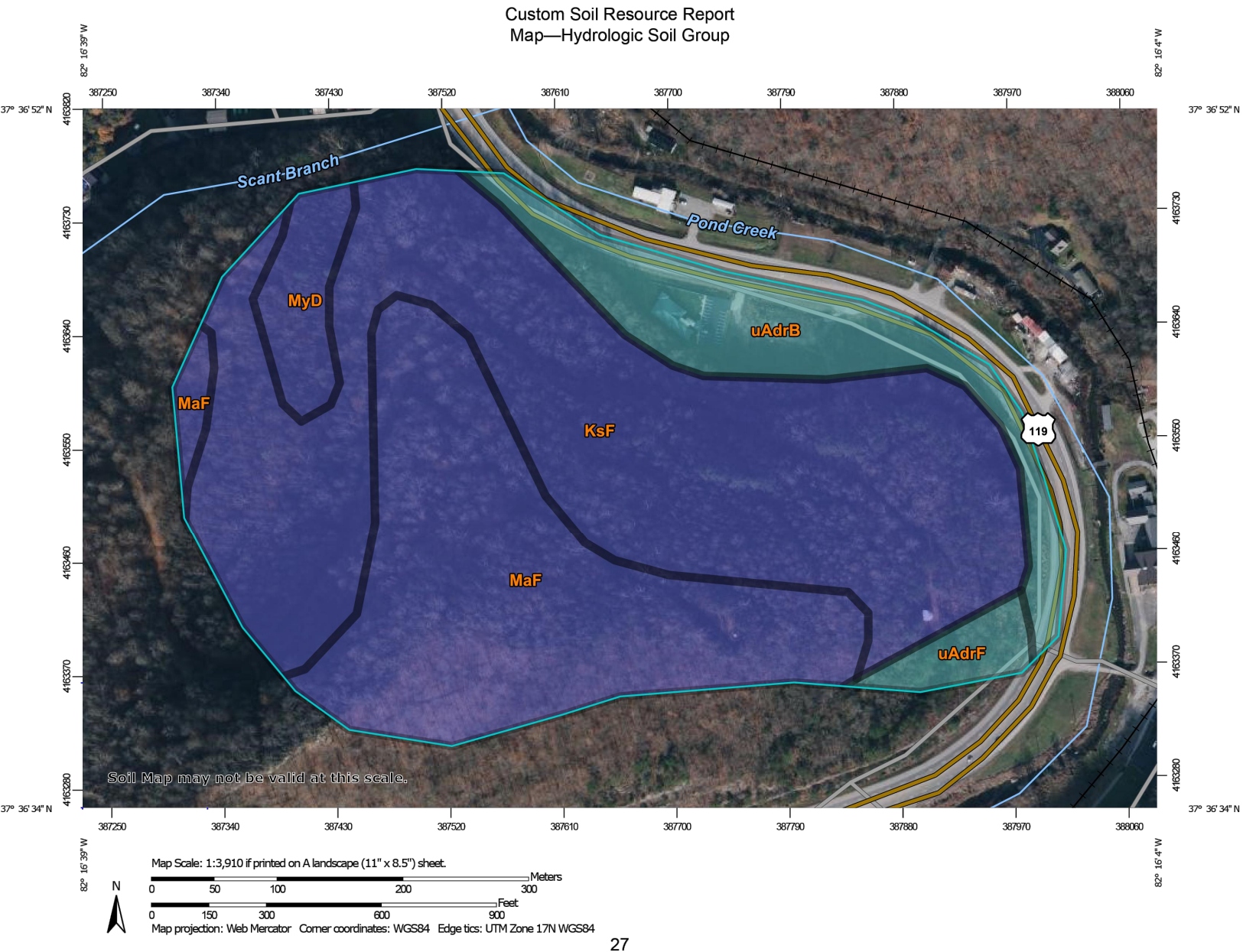
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NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#
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OLD DWG :		STD DWG :	
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AMERICAN ELECTRIC POWER			
ORINOCO STATION			
BELFRY		KENTUCKY	
138KV			
COVER SHEET			
SCALE: NONE		DR: AKS	ENG: AKS
WO#: 101484400		APPD: LKM	CH: ST
DATE: 06/14/2024			
1 RIVERSIDE PLAZA COLUMBUS, OH 43215		DWG. NO.	E-1220
BOUNDLESS ENERGY®		REV 0	



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals
- Transportation
 - Rails
 - Interstate Highways
 - US Routes
 - Major Roads
 - Local Roads

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: [Web Soil Survey URL](#)
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Pike County, Kentucky
Survey Area Date: Version 21, Sep 2, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 14, 2020—Dec 10, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Custom Soil Resource Report

Table—Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
KsF	Kimper-Sharondale-Muskingum complex, 30 to 80 percent slopes, very stony	B	30.1	51.0%
MaF	Marrowbone-Clifftop-Matewan complex, 35 to 75 percent slopes, very rocky	B	18.1	30.6%
MyD	Myra very channery silt loam, 5 to 30 percent slopes	B	2.3	3.9%
uAdrB	Anthroportic Udorthents-Urban land-Grigsby complex, 0 to 6 percent slopes, occasionally flooded	C	7.2	12.1%
uAdrF	Anthroportic Udorthents-Urban land-Rock outcrop complex, 0 to 80 percent slopes, benched	C	1.4	2.4%
Totals for Area of Interest			59.1	100.0%

Pike County, Kentucky

KsF—Kimper-Sharondale-Muskingum complex, 30 to 80 percent slopes, very stony

Map Unit Setting
National map unit symbol: lgc5
Elevation: 630 to 2,360 feet
Mean annual precipitation: 39 to 50 inches
Mean annual air temperature: 46 to 70 degrees F
Frost-free period: 166 to 211 days
Farmland classification: Not prime farmland

Map Unit Composition
Kimper and similar soils: 50 percent
Sharondale and similar soils: 25 percent
Muskingum and similar soils: 10 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimper

Setting
Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy colluvium derived from sedimentary rock

Typical profile
H1 - 0 to 8 inches: very channery loam
H2 - 8 to 52 inches: channery loam
H3 - 52 to 75 inches: very channery fine sandy loam
R - 75 to 85 inches: unweathered bedrock

Properties and qualities
Slope: 30 to 80 percent
Surface area covered with cobbles, stones or boulders: 2.0 percent
Depth to restrictive feature: 60 to 99 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: High (about 9.9 inches)

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: F125XY002WV - Interbedded Sedimentary Colluvium
Hydric soil rating: No

uAdrB—Anthroportic Udorthents-Urban land-Grigsby complex, 0 to 6 percent slopes, occasionally flooded

Map Unit Setting
National map unit symbol: 2x5j3
Elevation: 640 to 800 feet
Mean annual precipitation: 28 to 54 inches
Mean annual air temperature: 42 to 68 degrees F
Frost-free period: 156 to 222 days
Farmland classification: Not prime farmland

Map Unit Composition
Anthroportic udorthents, unstable fill, and similar soils: 40 percent
Urban land, rarely flooded: 35 percent
Grigsby, occasionally flooded, and similar soils: 15 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Anthroportic Udorthents, Unstable Fill

Setting
Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy or loamy-skeletal mine spoil or earthy fill derived from interbedded sedimentary rock over sandy and gravelly alluvium

Typical profile
*Ap - 0 to 5 inches: very channery silt loam
*C1 - 5 to 22 inches: very channery silt loam
*C2 - 22 to 35 inches: very channery silt loam
*C3 - 35 to 52 inches: channery loam
*C4 - 52 to 64 inches: channery loam
2C5 - 64 to 76 inches: extremely gravelly loamy sand

Properties and qualities
Slope: 0 to 6 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: NoneOccasional
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 7.1 inches)

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3s

Custom Soil Resource Report

Hydrologic Soil Group: C
Hydric soil rating: No

MaF—Marrowbone-Clifftop-Matewan complex, 35 to 75 percent slopes, very rocky

Map Unit Setting
National map unit symbol: 2tqhc
Elevation: 800 to 2,000 feet
Mean annual precipitation: 39 to 50 inches
Mean annual air temperature: 46 to 70 degrees F
Frost-free period: 166 to 211 days
Farmland classification: Not prime farmland

Map Unit Composition
Marrowbone, very stony, and similar soils: 35 percent
Clifftop, very stony, and similar soils: 25 percent
Matewan, very stony, and similar soils: 15 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Custom Soil Resource Report

Description of Marrowbone, Very Stony

Setting
Landform: Ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Mountaintop
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Coarse-loamy residuum weathered from sandstone

Typical profile
O1 - 0 to 1 inches: slightly decomposed plant material
A - 1 to 5 inches: fine sandy loam
Bw1 - 5 to 10 inches: loam
Bw2 - 10 to 17 inches: fine sandy loam
Bw3 - 17 to 23 inches: loam
BC - 23 to 28 inches: channery loam
R - 28 to 38 inches: bedrock

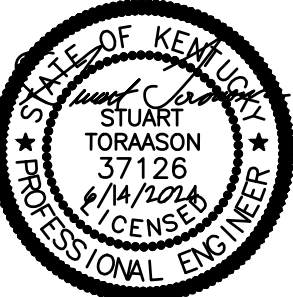
Properties and qualities
Slope: 35 to 75 percent
Surface area covered with cobbles, stones or boulders: 1.0 percent
Depth to restrictive feature: 24 to 32 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: F125XY003WV - Interbedded Sedimentary Uplands
Hydric soil rating: No

NOTIFY UTILITY COMPANIES BEFORE YOU DIG

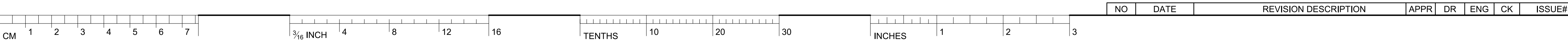


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OLD DWG :
STD DWG :
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AMERICAN ELECTRIC POWER			
ORINOCO STATION			
BELFRY		KENTUCKY	
138kV			
EROSION AND SEDIMENT CONTROL PLAN			
SOIL MAPS & DESCRIPTIONS			
SCALE: NONE	DR: AKS	ENG: AKS	CH: ST
WO#: 101484400	APPD: LKM	DATE: 06/14/2024	
1 RIVERSIDE PLAZA COLUMBUS, OH 43215		DWG. NO.	E-1222
SOURCES: ENERGY		REV	0



DEMOLITION NOTES:

- CONTRACTOR TO MAKE ARRANGEMENTS WITH AMERICAN ELECTRIC POWER TO SHUT OFF ELECTRICAL POWER TO ALL AFFECTED AREAS PRIOR TO PERFORMING DEMOLITION OPERATIONS.
- CONTRACTOR SHALL CONTACT MISS UTILITY (OR SIMILAR LOCATOR SERVICE) TO CONFIRM UTILITY LOCATIONS BEFORE BEGINNING CONSTRUCTION, CONTRACTOR SHALL VERIFY LOCATIONS AND / OR PRESENCE OF EXISTING UTILITIES.
- VERIFY THAT ELECTRICAL CONNECTIONS AND ANY OTHER UTILITIES HAVE BEEN DISCONNECTED & CAPPED PROPERLY.
- CONTRACTOR TO PROPERLY GROUND, DISCONNECT, REMOVE, SEAL OR CAP ELECTRICAL EQUIPMENT, WIRING, ETC. BEFORE THE REMOVAL OF STRUCTURAL COMPONENTS.
- AMERICAN ELECTRIC POWER PERSONNEL SHALL VALIDATE CONTRACTOR'S ELECTRICAL DEMOLITION OPERATIONS FOR SAFETY. CONTRACTOR SHALL NOT PROCEED WITH STRUCTURAL DEMOLITION WITHOUT SIGN-OFF FROM UTILITIES' DULY AUTHORIZED REPRESENTATIVE.
- CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS IN A MANNER AS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO EXISTING STRUCTURES & FACILITIES DESIGNATED TO REMAIN.
- ERECT TEMPORARY PROTECTION, AS REQUIRED BY OSHA STANDARDS, LATEST EDITION TO PROTECT SURROUNDING AREAS.
- ERECT & MAINTAIN DUST CONTROL MEASURES DURING DEMOLITION OPERATIONS, SUCH AS WATER MIST, TEMPORARY ENCLOSURES, AND OTHER SUITABLE MATERIALS TO PREVENT THE SPREAD OF DUST & DIRT PARTICLES.
- PROVIDE TEMPORARY WEATHER PROTECTION, DURING INTERVAL BETWEEN DEMOLITION & REMOVAL OF EXISTING CONSTRUCTION, AND ON EXTERIOR SURFACES OF NEW CONSTRUCTION TO ENSURE NO WATER LEAKAGE OR DAMAGE OCCURS.
- COVER & PROTECT ALL CONDUIT, WIRING & EQUIPMENT DESIGNATED TO REMAIN.
- REMOVE STRUCTURAL FRAMING MEMBERS & LOWER TO GROUND BY METHOD SUITABLE TO AVOID FREE FALL AND TO PREVENT GROUND IMPACT OR DUST GENERATION.
- DO NOT USE CUTTING TORCHES FOR STURCTURAL DEMOLITION WITHOUT WRITTEN AUTHORIZATION FROM AMERICAN ELECTRIC POWER.
- DEMOLISH AND/OR REMOVE DRILLED CONCRETE PIER FOUNDATIONS IN SECTION LENGTHS NECESSARY TO AVOID CONFLICT WITH OVERHEAD OR ADJACENT STRUCTURES, WIRES, ETC.
- BREAK UP & REMOVE CONCRETE SLABS ON GRADE IN PIECES SUITABLE FOR DUMP TRUCK LOADING & DISPOSAL.
- DISPOSE OF DEMOLISHED ITEMS & MATERIALS PROPERLY. ON-SITE STORAGE OR SALE OF REMOVED ITEMS IS PROHIBITED.
- ALL BACKFILL MATERIAL FOR VOIDED AREAS RESULTING FROM DEMOLITION SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN ELECTRIC POWER DOCUMENT NO. SS-160102, "TECHNICAL SPECIFICATION FOR SUBSTATION AND SWITCHING STATION CONSTRUCTION."

DEMOLITION KEY	
ITEM	NOTES
	REMOVE EXISTING GRAVEL
	REMOVE EXISTING ASPHALT
	RELOCATE EXISTING UTILITY POLE

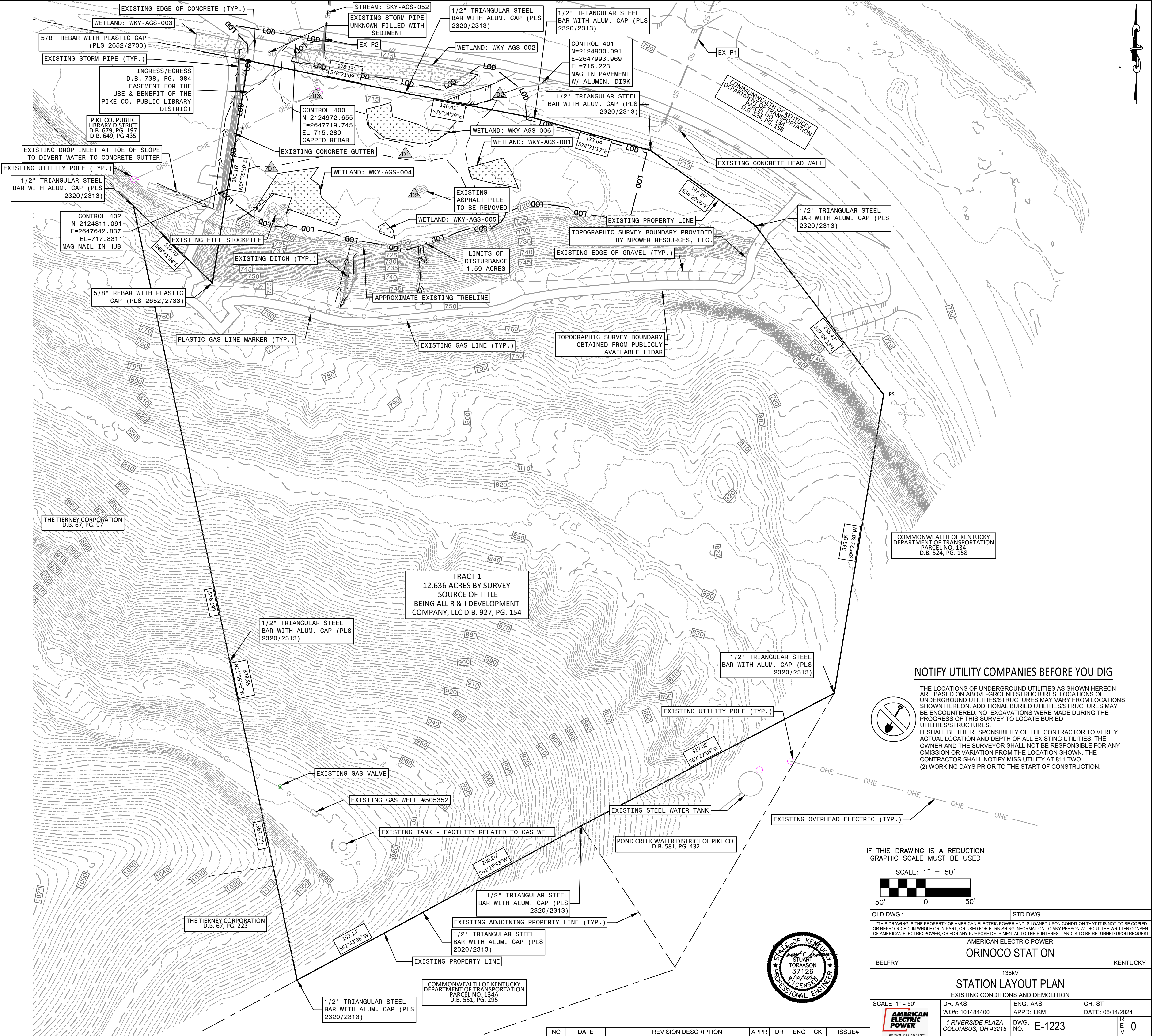
EXISTING PIPE TABLE						
NAME	SIZE (IN)	TYPE	LENGTH (LF)	INVERT IN	INVERT OUT	SLOPE (%)
EX-P1	18	CMP	153	710.40	709.84	0.37%
EX-P2	30	CMP	122	709.69	708.59	0.90%

STREAM TABLE			
STREAM ID	TYPE	DISTURBANCE (LF)	DESCRIPTION
SKY-AGS-052	INT	0	INTERMITTENT

WETLAND TABLE				
WETLAND ID	TYPE	JURISDICTION	ACREAGE	DISTURBANCE (AC)
WKY-AGS-001	PSS	ADJACENT	0.024	0.024
WKY-AGS-002	PEM	ABUTTING	0.083	0.008
WKY-AGS-003	PEM	ADJACENT	0.017	0
WKY-AGS-004	PEM/PSS	WETLAND	0.061	0.061
WKY-AGS-005	PEM	WETLAND	0.004	0.004
WKY-AGS-006	PEM	ADJACENT	0.044	0.044
TOTAL:			0.233	0.141

REFERENCE DRAWING:

- E-1220
- E-1221
- E-1222
- *E-1223
- E-1224
- E-1225
- E-1226
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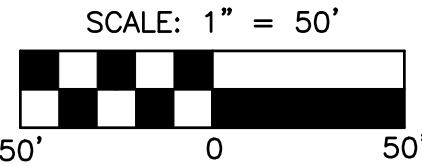



NOTIFY UTILITY COMPANIES BEFORE YOU DIG

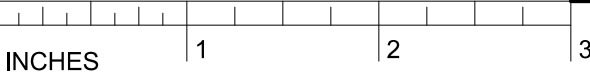
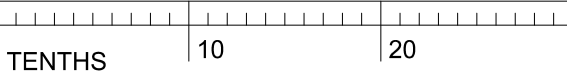
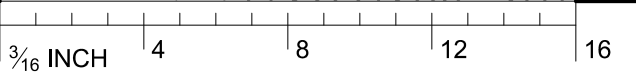
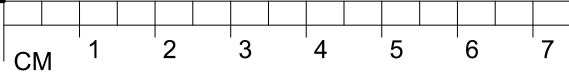
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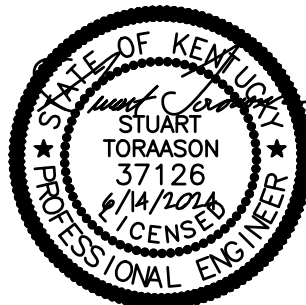
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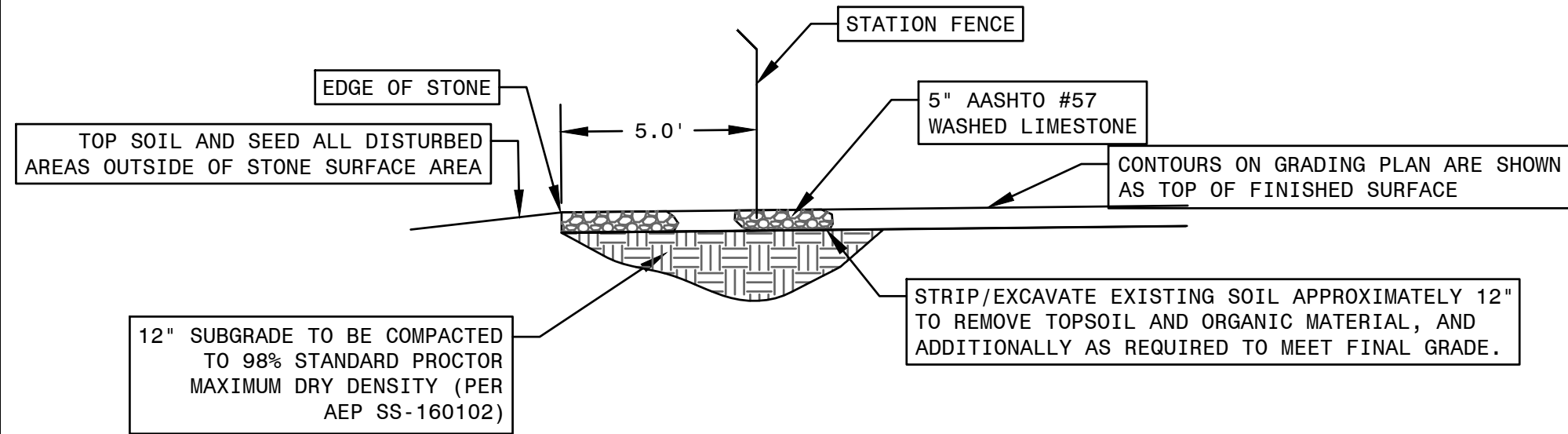


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AMERICAN ELECTRIC POWER			
ORINOCO STATION			
BELFRY		KENTUCKY	
138kV			
STATION LAYOUT PLAN			
EXISTING CONDITIONS AND DEMOLITION			
SCALE: 1" = 50'	DR: AKS	ENG: AKS	CH: ST
 <small>AMERICAN ELECTRIC POWER</small>	WO#: 101484400	APPD: LKM	DATE: 06/14/2024
	1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. NO.	E-1223
	REV 0		



NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#
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TYPICAL STATION YARD DETAIL
N.T.S.

SCC TABLE					
STR ID	SHAPE	DEPTH (FT)	LENGTH (FT)	SLOPE (%)	LINING
SCC-A	VEE	2	404	1.00%	CONCRETE

EXISTING PIPE TABLE						
NAME	SIZE (IN)	TYPE	LENGTH (LF)	INVERT IN	INVERT OUT	SLOPE (%)
EX-P1	18	CMP	153	710.40	709.84	0.37%
EX-P2	30	CMP	122	709.69	708.59	0.90%

PROPOSED PIPE TABLE						
NAME	SIZE (IN)	TYPE	LENGTH (LF)	INVERT IN	INVERT OUT	SLOPE (%)
P1	18	RCP TYPE IV	24	714.44	714.20	1.00%

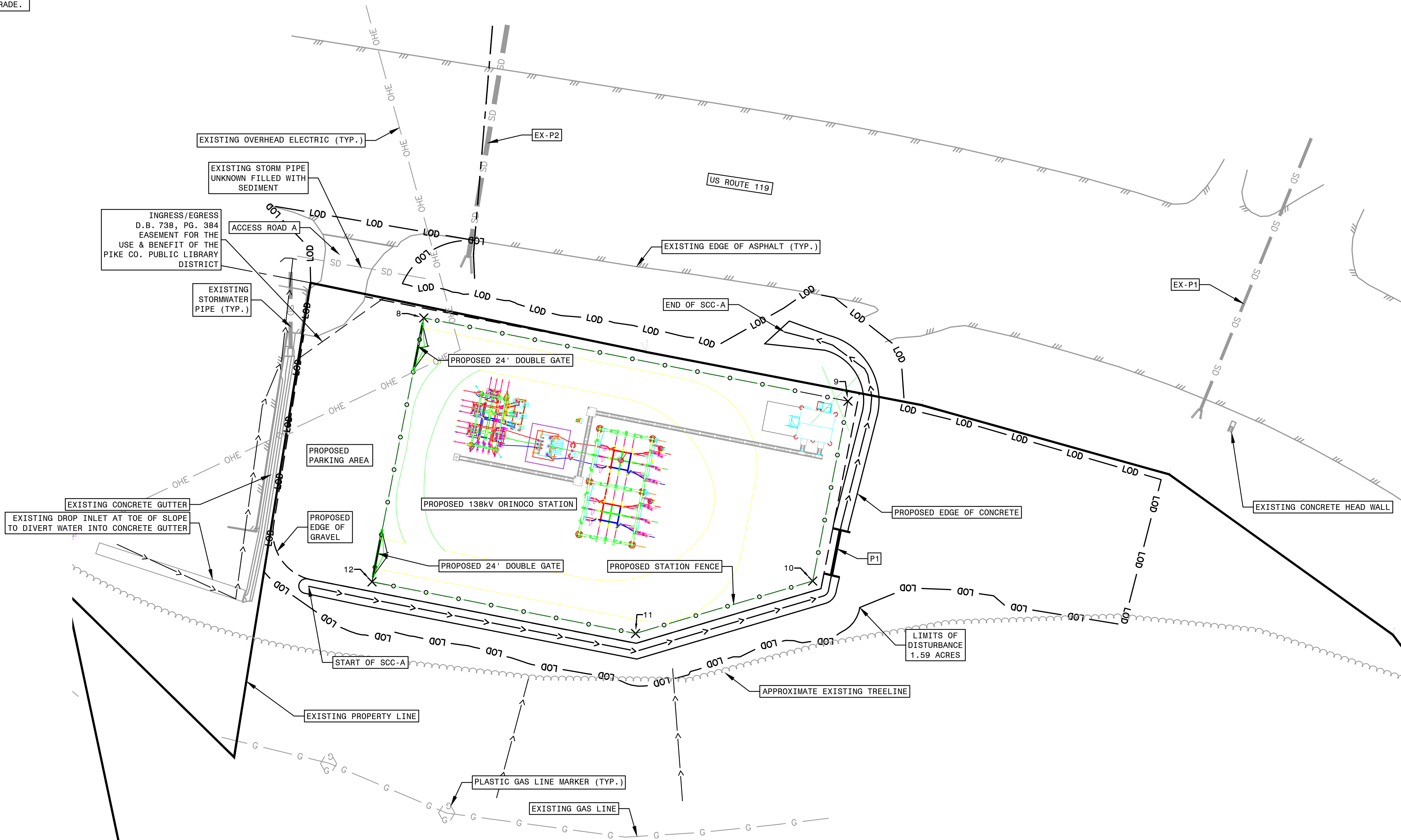
Point Table					
Point #	Elevation	Northing	Easting	Description	
8	715.12	2124936.50	2647726.03	FC	
9	715.07	2124893.20	2647946.83	FC	
10	716.38	2124799.53	2647928.46	FC	
11	717.08	2124772.22	2647836.26	FC	
12	717.94	2124799.12	2647699.09	FC	

NOTIFY UTILITY COMPANIES BEFORE YOU DIG

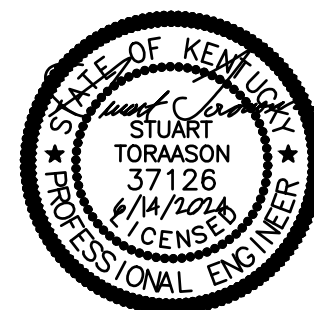
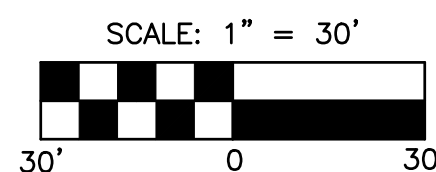
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REFERENCE DRAWING:

- E-1220 COVER SHEET
- E-1221 GENERAL NOTES (WITH MINIMUM STANDARDS)
- E-1222 EROSION AND SEDIMENT CONTROL PLAN (SOILS MAP & DESCRIPTIONS)
- E-1223 STATION LAYOUT PLAN (EXISTING CONDITIONS AND DEMOLITION)
- E-1224 STATION LAYOUT PLAN
- E-1225 GRADING PLAN (PHASE I - EROSION AND SEDIMENT CONTROL PLAN)
- E-1226 GRADING PLAN (PHASE II - EROSION AND SEDIMENT CONTROL PLAN)
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- E-1229 GRADING SECTION VIEWS (ACCESS ROADS)
- E-1230 GRADING SECTION VIEWS (SCC PROFILES)
- E-1231 EROSION AND SEDIMENT CONTROL PLAN (PRE DRAINAGE AREAS)
- E-1232 EROSION AND SEDIMENT CONTROL PLAN (POST DRAINAGE AREAS)
- E-1233 EROSION AND SEDIMENT CONTROL DETAILS
- E-1234 EROSION AND SEDIMENT CONTROL DETAILS

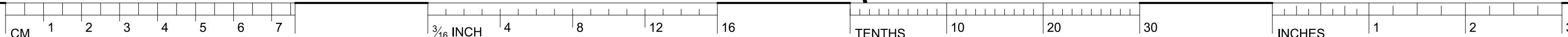


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AMERICAN ELECTRIC POWER			
ORINOCO STATION			
BELFRY			KENTUCKY
138kV			
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LEGEND

EROSION AND SEDIMENT CONTROL

4.3 SITE PREPARATION

4.3.1	LAND GRADING	LG	
4.3.2	CONSTRUCTION EXIT	SCE	
4.3.3	TEMPORARY DIVERSION	Di	
4.3.4	TOPSOIL STOCKPILE	TS	

4.4 SOIL STABILIZATION

4.4.1	TEMPORARY SEEDING	TS	
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4.5 SLOPE PROTECTION

4.5.1	BELTED SILT FENCE	BSF	
4.5.3	EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS	ECB	

4.6 DRAINAGE SYSTEM CONTROLS

4.6.3	CULVERT INLET SEDIMENT BARRIER	CIB	
4.6.4	CULVERT OUTLET ENERGY DISSIPATOR	OP	
4.6.7	CHECK DAMS	CD	

SEQUENCE OF CONSTRUCTION (PHASE I):

- THE OWNER AND REGISTERED LAND DISTURBER (RLD) WILL CONTACT THE AMERICAN ELECTRIC POWER (AEP) WATER AND ENVIRONMENTAL RESOURCE SERVICE (WERS) DEPARTMENT, DARREN KIDWELL VIA PHONE AT 540-449-8826, OR EMAIL AT DWKIDWELL@AEP.COM TO SCHEDULE THE PRE-CONSTRUCTION MEETING TWO WEEKS PRIOR TO THE DESIRED DATE.
- CONTRACTOR SHALL INSTALL A JOB SITE WORK BOX AND POST THE KY CONSTRUCTION GENERAL PERMIT AND EROSION AND SEDIMENT CONTROL PERMIT SO THAT IT IS VISIBLE AT THE SITE ENTRANCE, A COPY OF THE STORMWATER MANAGMENT POLLUTION PREVENTION PLAN (SWPPP) AND APPROVED SET OF CONSTRUCTION PLANS SHALL BE PLACED INSIDE THE JOB SITE WORK BOX. THE SWPPP AND APPROVED CONSTRUCTION PLANS SHALL REMAIN ONSITE THROUGH CONSTRUCTION WITH A LOG OF THE MAJOR GRADING ACTIVITIES, CONSTRUCTION MILESTONES, AND RAIN EVENTS BEING MAINTAINED THROUGH CONSTRUCTION COMPLETION.
- CONTRACTOR SHALL INSTALL A TEMPORARY STONE CONSTRUCTION ENTRANCE, SILT FENCE, TEMPORARY DIVERSION DITCH, AND ROCK CHECK DAMS. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUD FROM TRUCKS AND/OR OTHER EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT PUBLIC STREETS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
- CONTRACTOR SHALL BEGIN TO REMOVE ITEMS IDENTIFIED ON THE DEMOLITION SHEET.
- ONCE THE SITE HAS BEEN CLEARED THE CONTRACTOR SHALL BEGIN TO STRIP THE TOP-SOIL AND STOCKPILE AS NECESSARY.

STANDARDS FOR FILL PLACEMENT/COMPACTION:

- ALL UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION LIMITS OF ALL ROADWAYS AND PADS BEFORE PLACING EMBANKMENT MATERIAL. ALL PERMANENT FILL SHOULD CONSIST OF CLEAN SOIL FILL, COMPACTED 6" TO 8" LIFTS TO A MINIMUM COMPACTIVE EFFORT OF 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698). MOISTURE CONTENT SHOULD BE MAINTAINED WITHIN 2 TO 3 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT TO FACILITATE COMPACTION. A PORTABLE COMPACTOR, SUCH AS A JUMPING JACK, PLATE TAMPER OR TRENCH ROLLER, SHOULD BE USED WITHIN CLOSE PROXIMITY OF THE PIPES TO ENSURE PROPER COMPACTION, WHEREAS HEAVY CONSTRUCTION EQUIPMENT CAN BE USED FOR THE MASS FILL. EACH LIFT OF FILL SHOULD BE TESTED IN ORDER TO CONFIRM THAT THE RECOMMENDED DEGREE OF COMPACTION IS ACHIEVED.
- NEW FILL SHOULD BE BENCHED WITH A MINIMUM WIDTH OF 15 FEET PARALLEL TO THE TOE OF THE EMBANKMENT AND CUT INTO THE EXISTING SLOPE AS THE FILL PLACEMENT PROCEEDS. THE PURPOSE OF THE BENCHING IS TO CREATE POSITIVE SOIL BOND BETWEEN THE NATURAL SOILS AND THE NEW FILL. TOPSOIL, TREE STUMPS AND ROOT MAT SHOULD BE REMOVED PRIOR TO FILL PLACEMENT. EACH SUCCESSIVE LIFT OF FILL SHOULD BE PLACED HORIZONTALLY AND PARALLEL TO THE SLOPE FACE.
- COMPACTION OF THE OUTER FACE OF THE SLOPES USING TRACKED EQUIPMENT OR PORTABLE COMPACTORS IS CRITICAL TO MAINTAINING A STABLE SLOPE AND TO MINIMIZE SLOUGHING. IF POSSIBLE, THE SLOPES SHOULD BE OVER FILLED AT LEAST 2 FEET BEYOND THE LIMITS OF THE FILL SLOPE, COMPACTED AND CLIPPED(CUT) WITH A TRACK DOZER TO THE DESIGN GRADES TO ENSURE THAT THE OUTER EDGE OF THE SLOPE IS PROPERLY COMPACTED. EROSION PROTECTION, SUCH AS EROSION MATTING, CAN HELP TO ESTABLISH GRASS AND OTHER VEGETATIVE GROWTH.
- ALL FILL USED FOR EARTHEN EMBANKMENTS (POND BERMS) SHALL BE CONSTRUCTED USING CLEAN SOIL, FREE OF ROOTS, WOODY VEGETATION, STUMPS, SOD, STONES GREATER THAN 6 INCHES, ROCKS, OR OTHER PERISHABLE OR OBJECTIONABLE MATERIAL. FILL SHOULD CONFORM TO THE UNIFIED SOIL CLASSIFICATION GC, SC, OR CL. CONSIDERATION MAY BE GIVEN TO THE USE OF OTHER MATERIAL IN THE EMBANKMENT BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER SUPERVISING THE DESIGN AND CONSIDERATION. COMPACTION SHALL MEET THE REQUIREMENTS LISTED ABOVE IN NO. 1 OF THIS SECTION. A CUT-OFF TRENCH SHALL BE EXCAVATED ALONG THE CENTERLINE OF THE EARTH FILL EMBANKMENT (DAM) TO PREVENT EXCESSIVE SEEPAGE AND POSSIBLE INTERNAL EROSION. THE TRENCH MUST EXTEND AT LEAST 1 FOOT INTO A STABLE, IMPERVIOUS LAYER OF SOIL AND HAVE A MINIMUM DEPTH OF 2 FEET. THE CUT-OFF TRENCH SHALL EXTEND UP BOTH ABUTMENTS TO THE RISER CREST ELEVATION. THE MINIMUM WIDTH SHALL BE 4 FEET, BUT ALSO MUST BE WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT. THE SIDE SLOPES SHALL BE NO STEEPER THAN 1:1. COMPACTION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR THE EMBANKMENT. THE TRENCH SHALL BE DRAINED DURING THE BACKFILLING/COMPACTING OPERATIONS.
- FOR RECOMMENDATIONS PLEASE REFER TO THE REPORT OF SUBSURFACE EXPLORATION PROVIDED BY ENVIROPROBE INTEGRATED SOLUTIONS, INC. DATED 11/30/2021.

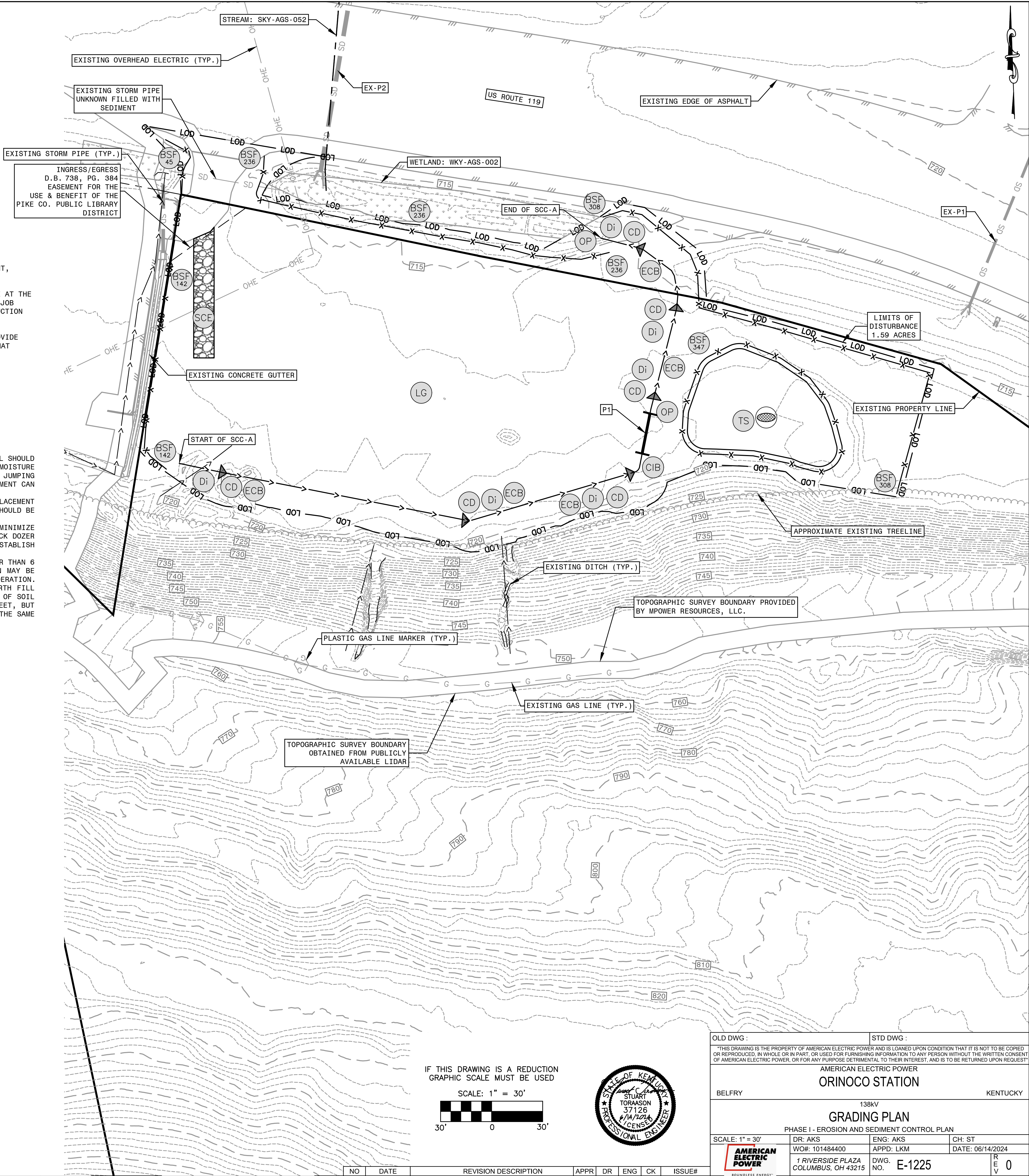
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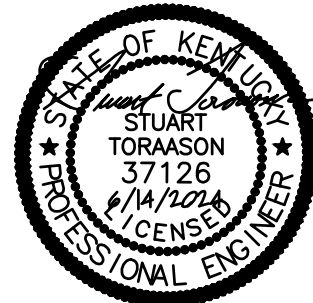
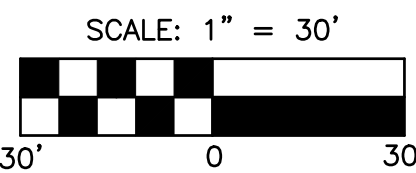
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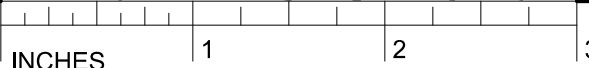
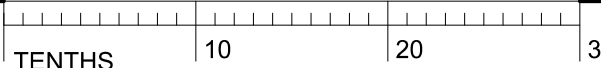
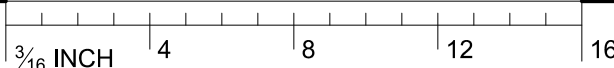
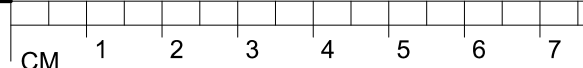
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E-1230	GRADING SECTION VIEWS (SCC PROFILES)
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E-1232	EROSION AND SEDIMENT CONTROL PLAN (POST DRAINAGE AREAS)
E-1233	EROSION AND SEDIMENT CONTROL DETAILS
E-1234	EROSION AND SEDIMENT CONTROL DETAILS



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AMERICAN ELECTRIC POWER	
BELFRY	ORINOCO STATION
138KV	
GRADING PLAN	
PHASE I - EROSION AND SEDIMENT CONTROL PLAN	
SCALE: 1" = 30'	DR: AKS
WO#: 101484400	APPD: LKM
1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. NO. E-1225
DATE: 06/14/2024	
R E V 0	



NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#
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LEGEND

EROSION AND SEDIMENT CONTROL

4.3 SITE PREPARATION

4.3.1	LAND GRADING	LG	
4.3.2	CONSTRUCTION EXIT	SCE	
4.3.4	TOPSOIL STOCKPILE		
4.3.5	SURFACE ROUGHENING	SR	

4.4 SOIL STABILIZATION

4.4.1	TEMPORARY SEEDING	TS	
4.4.2	PERMANENT SEEDING	PS	

4.6 DRAINAGE SYSTEM CONTROLS

4.6.4	CULVERT OUTLET ENERGY DISSIPATOR	OP	
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4.5 SLOPE PROTECTION

4.5.1	SILT FENCE	BSF _{LF}	
4.5.3	EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS	ECB	

4.8 STREAM AND WETLAND PROTECTION

4.8.5	WATTLES (LIVE FASCINES)	W	
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4.9 GOOD HOUSEKEEPING AND OTHER STORMWATER CONTROLS

4.9.6	CONCRETE WASTE MANAGEMENT	CW	
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SEQUENCE OF CONSTRUCTION (PHASE II):

- CONTRACTOR SHALL BEGIN TO ROUGH GRADE THE SITE WITH TEMPORARY SEEDING BEING PLACED AS NECESSARY.
- ONCE COMPLETED, MOVING OF THE CONSTRUCTION ENTRANCE AND FINE GRADING MAY COMMENCE WITH PERMANENT SEEDING BEING PLACED AS NECESSARY.
- CONTRACTOR SHALL INSTALL THE CONCRETE WASHOUT AND BEGIN CONSTRUCTION OF THE SUBSTATION AND PLACEMENT OF GRAVEL FOR ACCESS ROADS AND STATION PAD.
- CONTRACTOR SHALL FINISH CONSTRUCTION OF THE SUBSTATION AND INSTALL PERIMETER FENCING.
- CONTRACTOR SHALL INSTALL & MAINTAIN ADDITIONAL EROSION & SEDIMENT CONTROL DEVICES, PER THE LATEST EDITION OF THE KENTUCKY EROSION & SEDIMENT CONTROL HANDBOOK AS NEEDED TO CONTROL EROSION ON SITE FOR THE DURATION OF THE PROJECT AS DEEMED NECESSARY BY THE FLOYD COUNTY BUILDING DEPARTMENT OR ENVIRONMENTAL INSPECTOR.
- CONTRACTOR IS TO BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SOIL AND EROSION MEASURES ONCE THE SITE HAS BEEN STABILIZED AND APPROVED BY THE PLAN APPROVING AUTHORITY.

STANDARDS FOR FILL PLACEMENT/COMPACTION:

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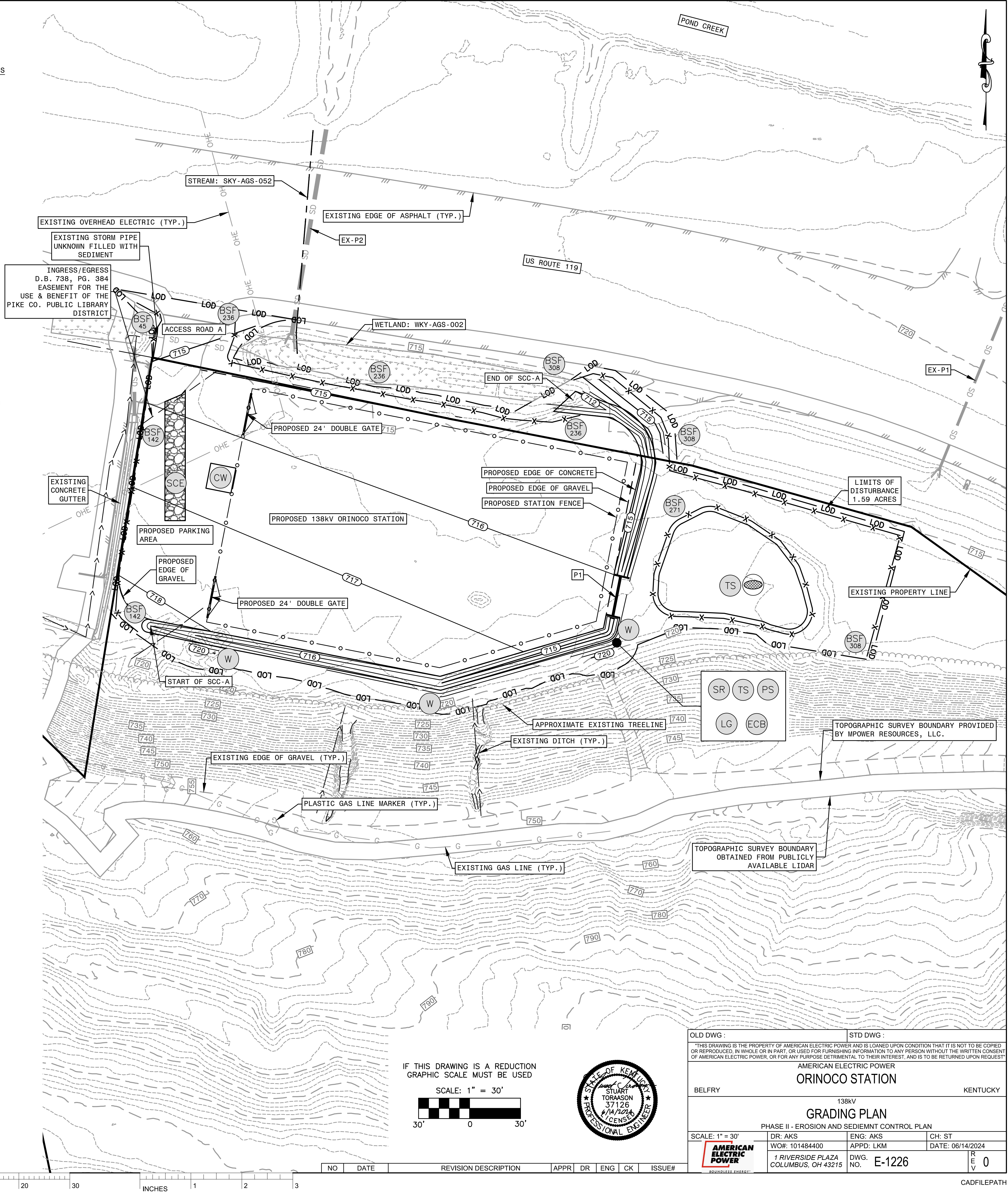
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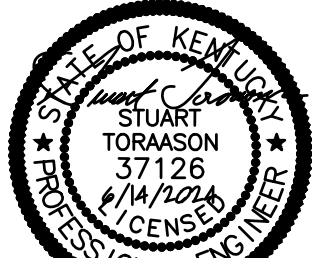
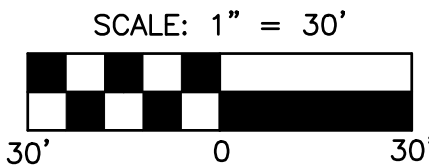
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REFERENCE DRAWING:

E-1220	COVER SHEET
E-1221	GENERAL NOTES (WITH MINIMUM STANDARDS)
E-1222	EROSION AND SEDIMENT CONTROL PLAN (SOILS MAP & DESCRIPTIONS)
E-1223	STATION LAYOUT PLAN (EXISTING CONDITIONS AND DEMOLITION)
E-1224	STATION LAYOUT PLAN
E-1225	GRADING PLAN (PHASE I - EROSION AND SEDIMENT CONTROL PLAN)
E-1226	GRADING PLAN (PHASE II - EROSION AND SEDIMENT CONTROL PLAN)
E-1227	EROSION AND SEDIMENT CONTROL PLAN (LAND COVER PLAN)
E-1228	GRADING SECTION VIEWS (STATION SECTION VIEWS)
E-1229	GRADING SECTION VIEWS (ACCESS ROADS)
E-1230	GRADING SECTION VIEWS (SCC PROFILES)
E-1231	EROSION AND SEDIMENT CONTROL PLAN (PRE DRAINAGE AREAS)
E-1232	EROSION AND SEDIMENT CONTROL PLAN (POST DRAINAGE AREAS)
E-1233	EROSION AND SEDIMENT CONTROL DETAILS
E-1234	EROSION AND SEDIMENT CONTROL DETAILS



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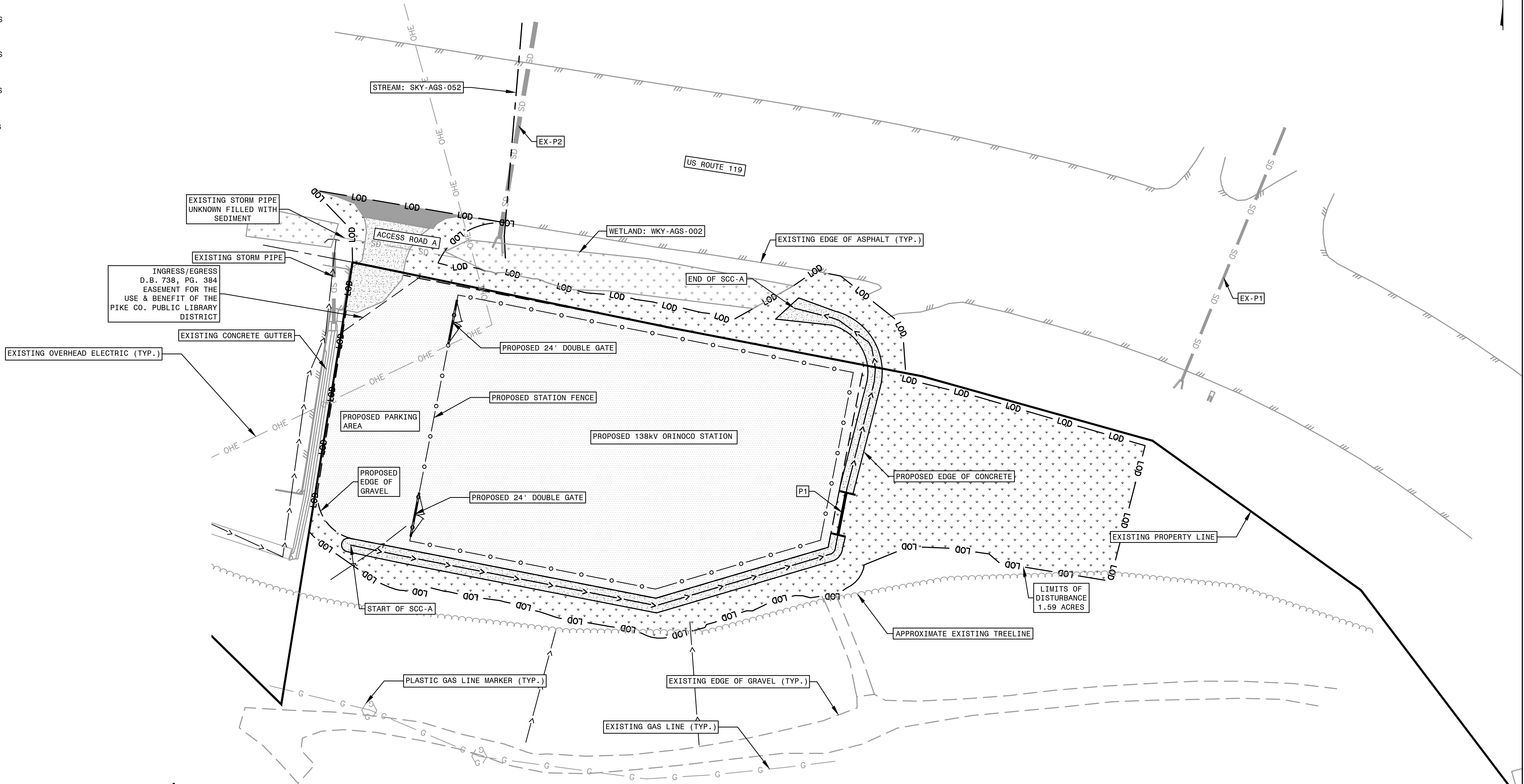
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AMERICAN ELECTRIC POWER	
BELFRY	KENTUCKY
138KV	
GRADING PLAN	
PHASE II - EROSION AND SEDIMENT CONTROL PLAN	
SCALE: 1" = 30'	DR: AKS WO#: 101484400
ENG: AKS APPD: LKM	CH: ST DATE: 06/14/2024
1 RIVERSIDE PLAZA COLUMBUS, OH 43215	
DWG. NO.	E-1226
R E V 0	



NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#
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	GRAVEL GROUND COVER	=	0.93 ACRES
	ASPHALT GROUND COVER	=	0.01 ACRES
	CONCRETE GROUND COVER	=	0.11 ACRES
	MANAGED TURF GROUND COVER	=	0.54 ACRES

TOTAL LIMITS OF DISTURBANCE : 1.59 ACRES



NOTIFY UTILITY COMPANIES BEFORE YOU DIG

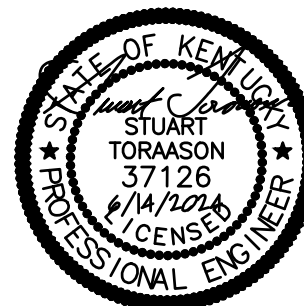
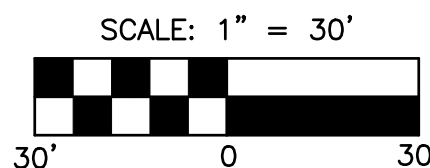


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E-1233	EROSION AND SEDIMENT CONTROL DETAILS
E-1234	EROSION AND SEDIMENT CONTROL DETAILS

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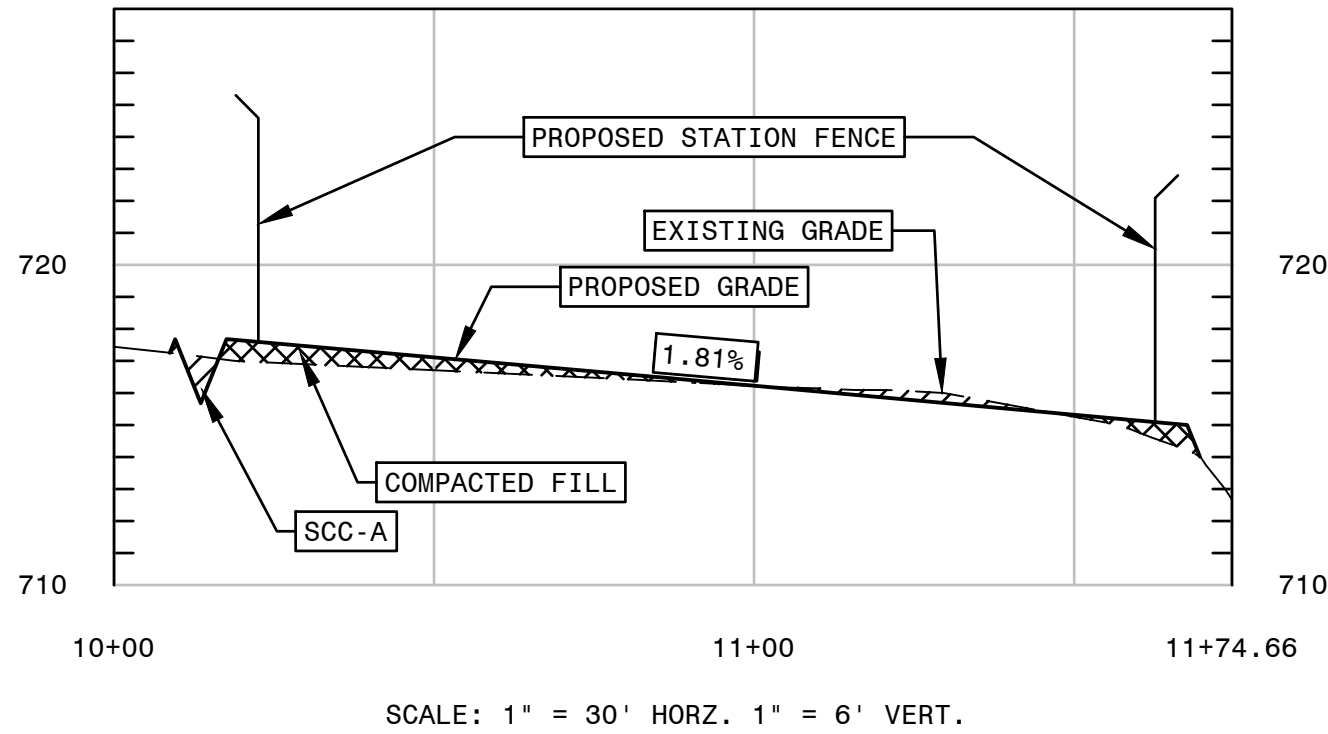


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AMERICAN ELECTRIC POWER	
BELFRY	KENTUCKY
138kV	
EROSION AND SEDIMENT CONTROL PLAN	
LAND COVER PLAN	
SCALE: 1" = 30'	DR: AKS WO#: 101484400 1 RIVERSIDE PLAZA COLUMBUS, OH 43215
ENG: AKS APPD: LKM	CH: ST DATE: 06/14/2024
DWG. NO. E-1227	R E V 0

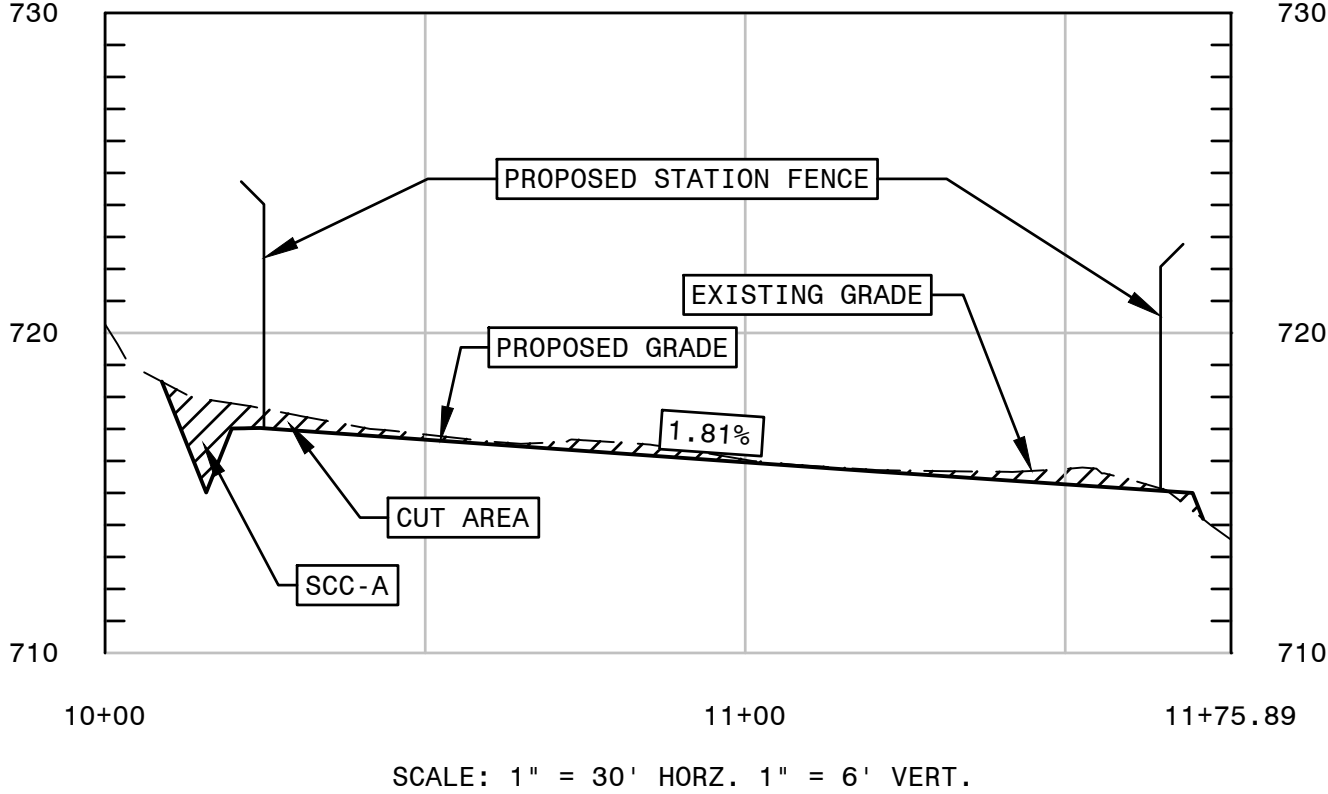
NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#
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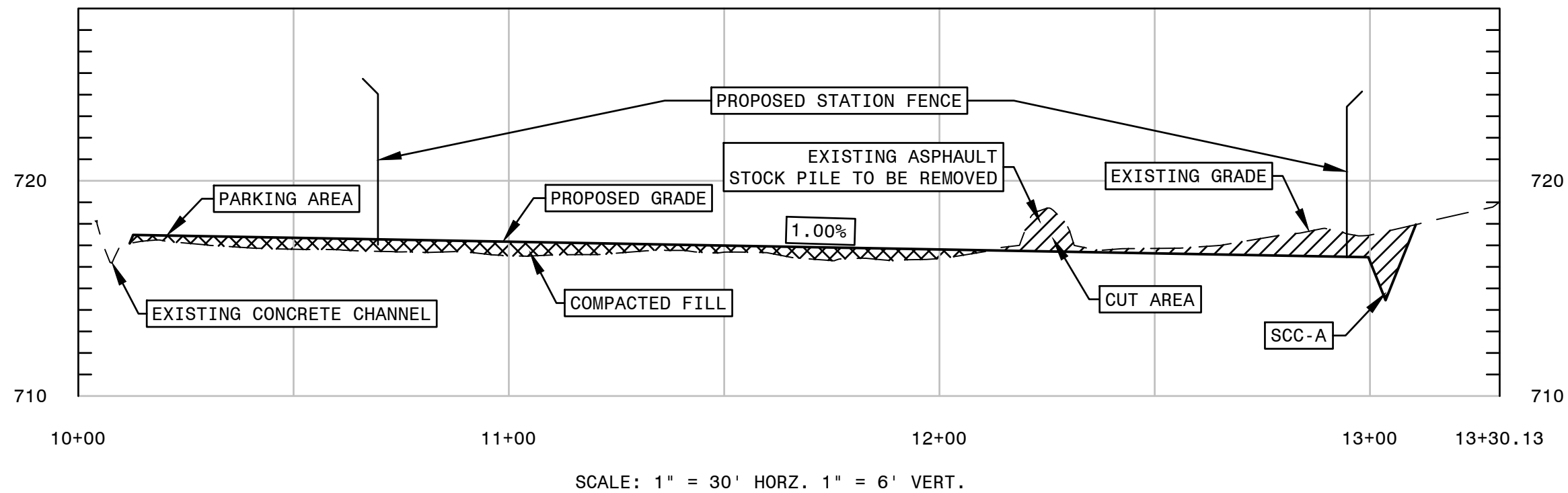
STATION SECTION A-A



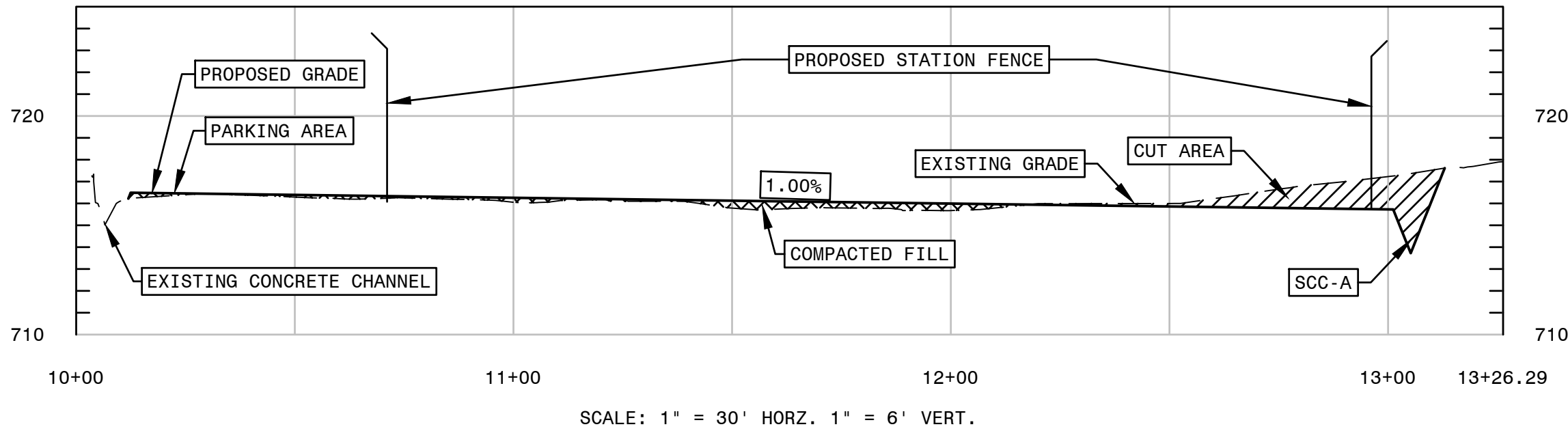
STATION SECTION B-B



STATION SECTION C-C



STATION SECTION D-D

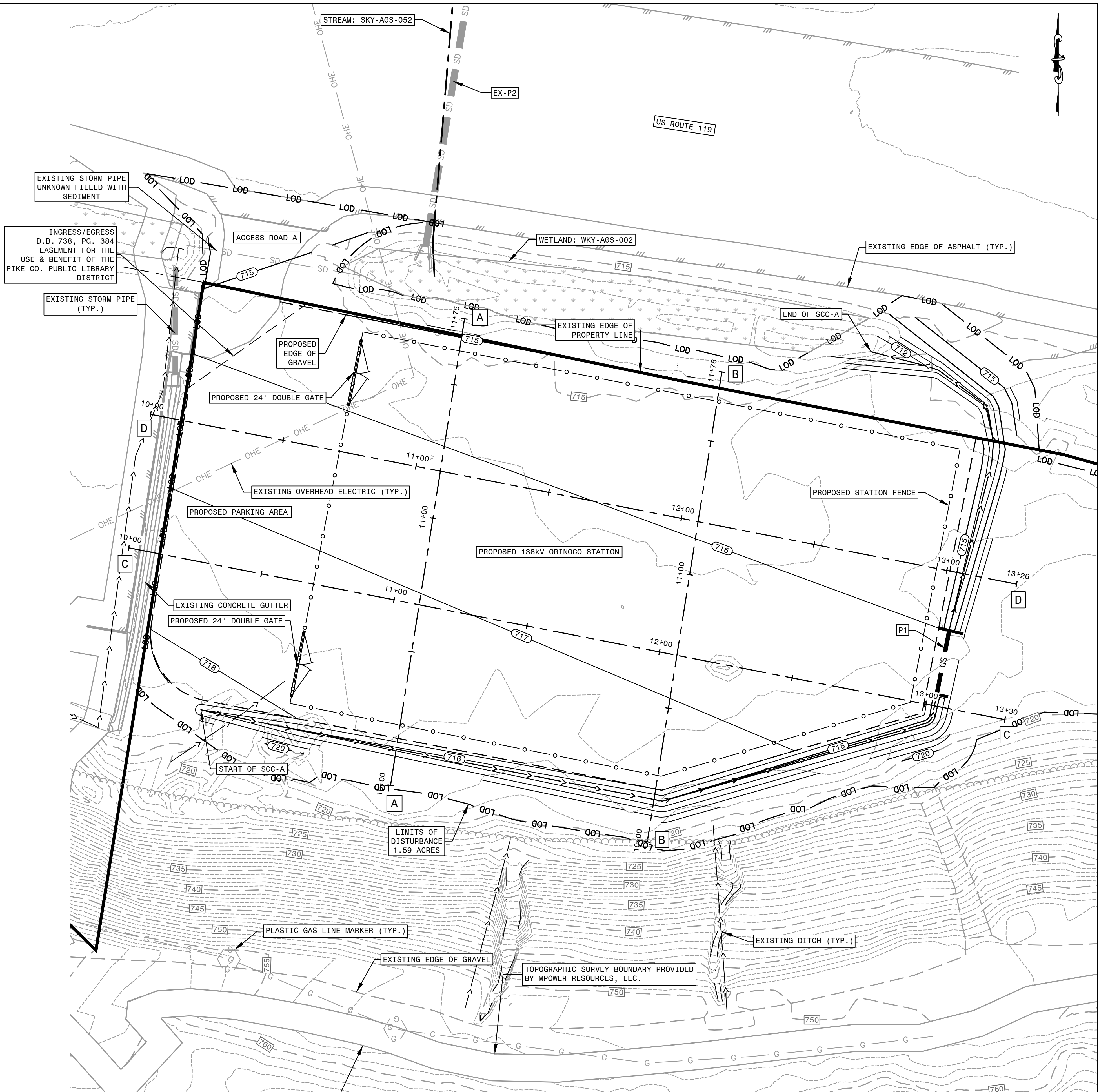


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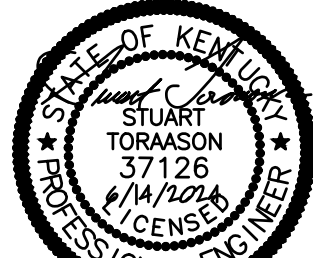
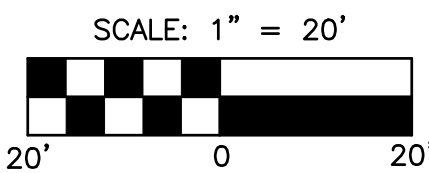
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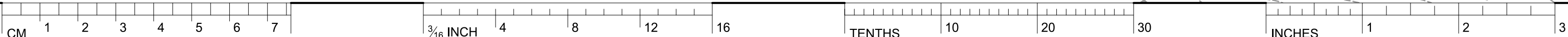
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AMERICAN ELECTRIC POWER			
ORINOCO STATION			
BELFRY		KENTUCKY	
138kV			
GRADING SECTION VIEWS			
STATION SECTION VIEWS			
SCALE: AS SHOWN	DR: AKS	ENG: AKS	CH: ST
WO#: 101484400	APPD: LKM	DATE: 06/14/2024	
1 RIVERSIDE PLAZA COLUMBUS, OH 43215		DWG. NO.	E-1228
		REV	0



MIRAFI 600X GEOTEXTILE FABRIC
(OR APPROVED EQUIVALENT)

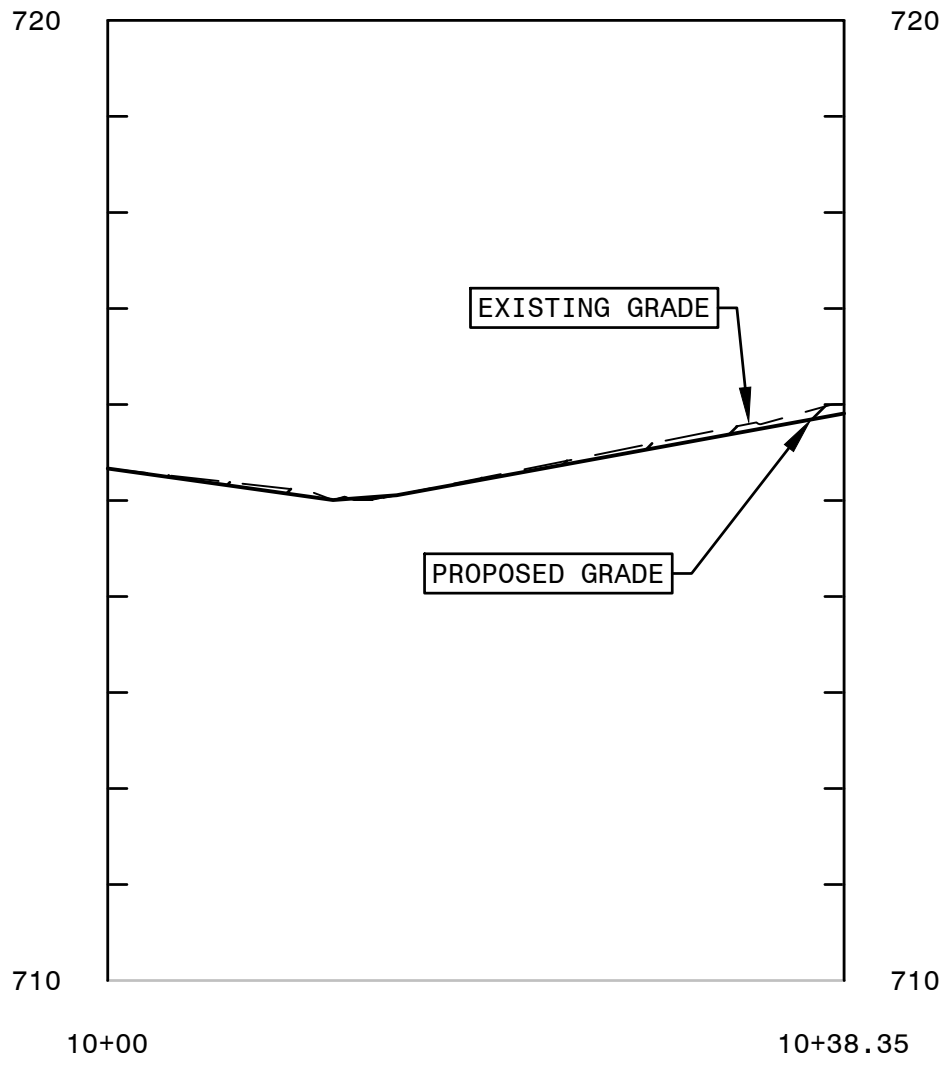
GRAVEL ACCESS ROAD SECTION
N.T.S.

CONTOURS ON GRADING PLAN ARE
SHOWN AS TOP OF FINISHED SURFACE

4" #57 COMPACTED STONE
5" #304 COMPACTED STONE
(SHALL BE MIXED)

12" SUBGRADE TO BE COMPACTED
TO 98% STANDARD PROCTOR
MAXIMUM DRY DENSITY (PER
AEP SS-160102)

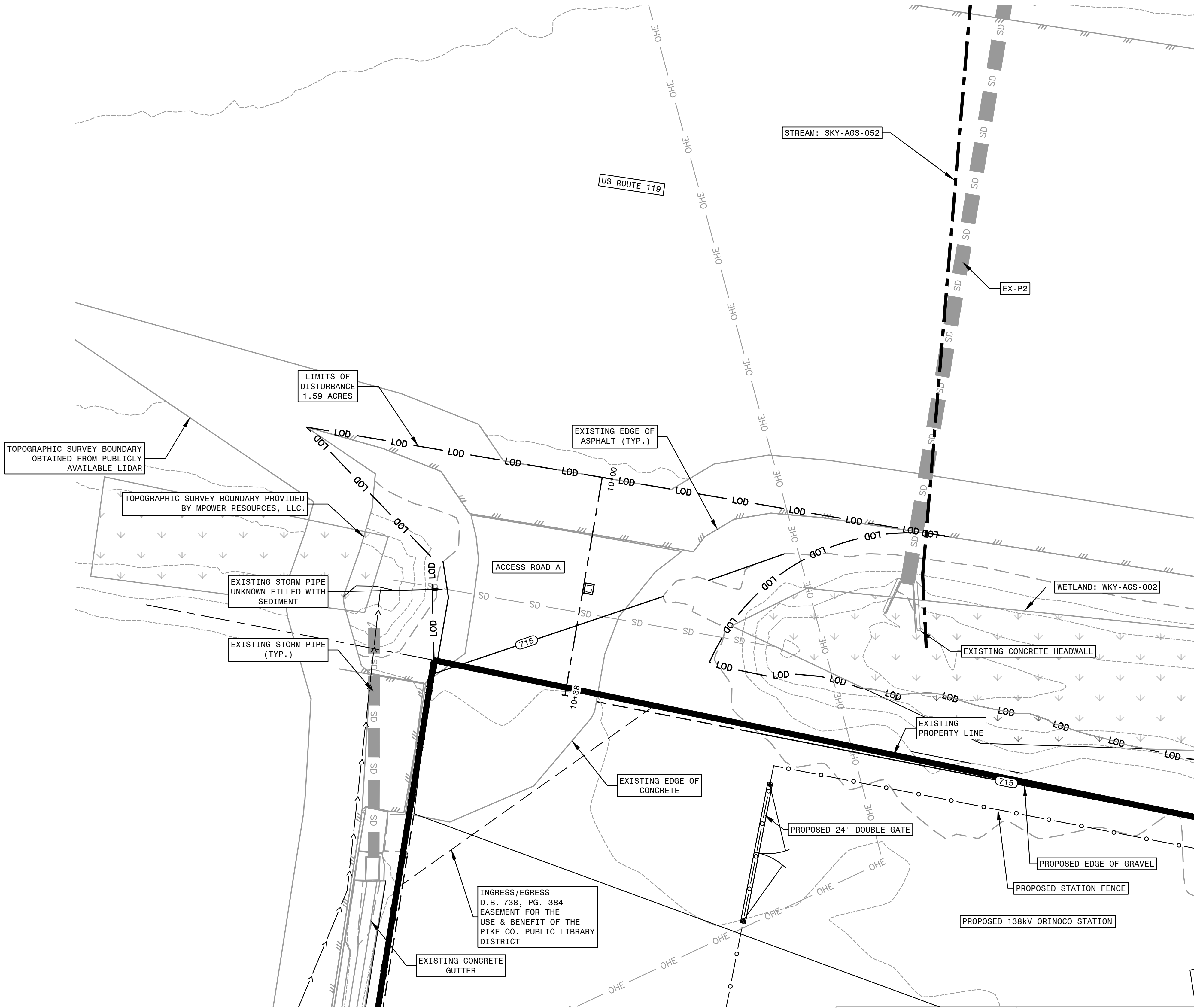
ACCESS ROAD A



SCALE: 1" = 10' HORZ. 1" = 2' VERT.

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L1	38.35	S9° 42' 30.53"W	(2647696.31,2124986.50)	(2647689.84,2124948.70)



REFERENCE DRAWING:

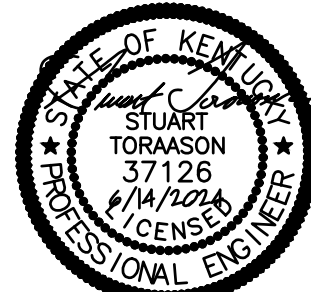
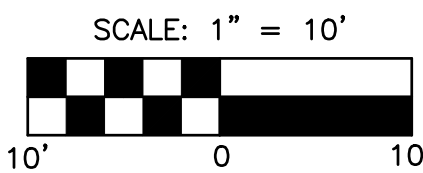
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- E-1231 EROSION AND SEDIMENT CONTROL PLAN (PRE DRAINAGE AREAS)
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- E-1234 EROSION AND SEDIMENT CONTROL DETAILS

NOTIFY UTILITY COMPANIES BEFORE YOU DIG

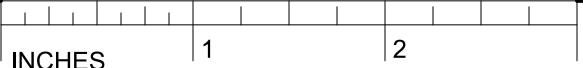
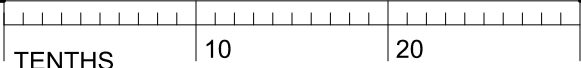
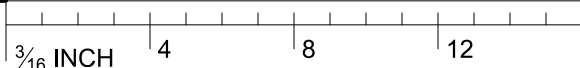
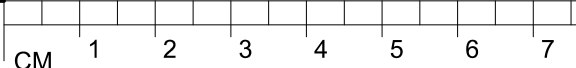
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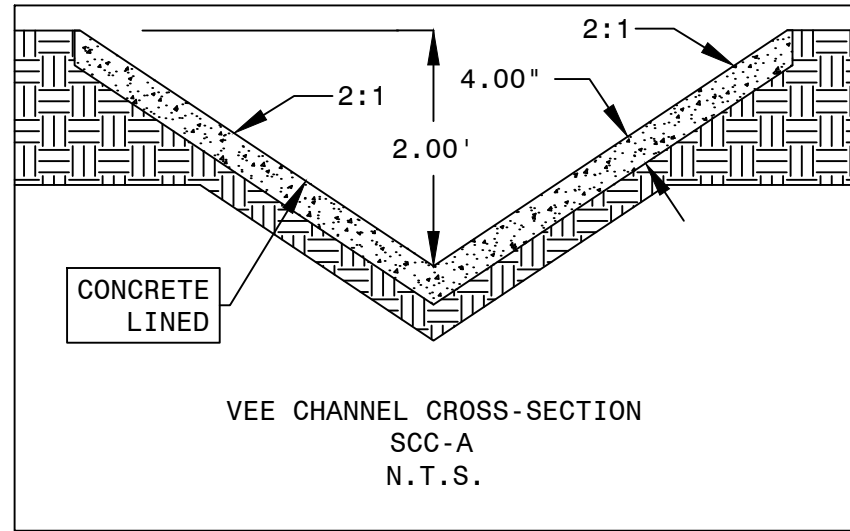
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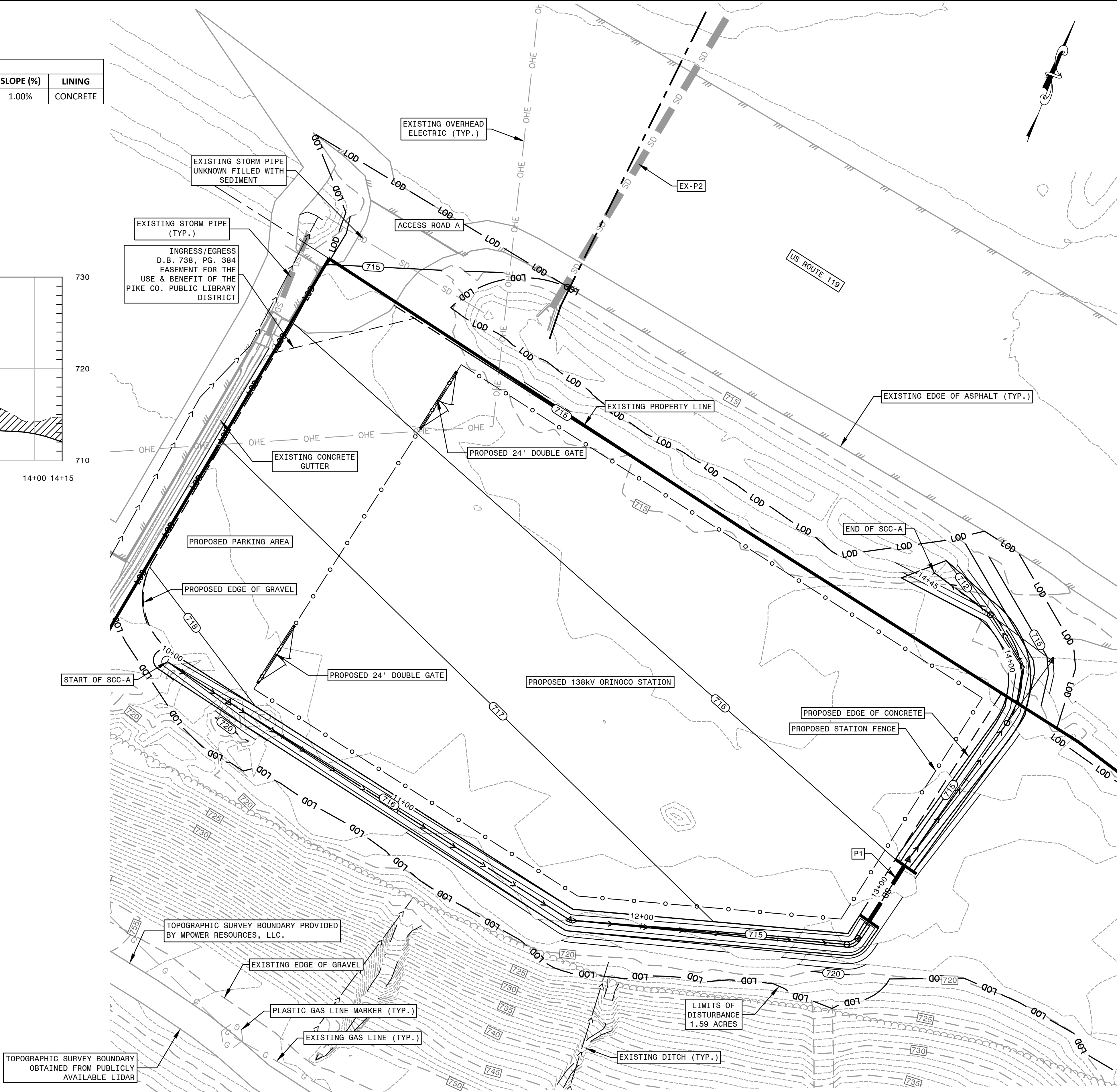
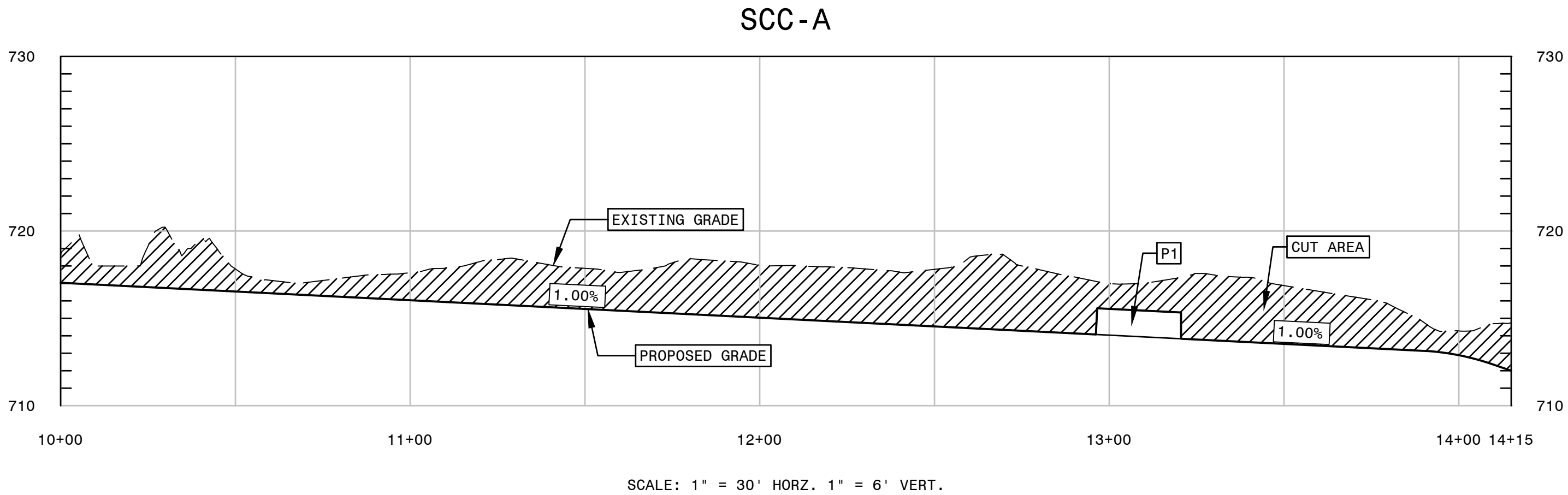
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AMERICAN ELECTRIC POWER	
BELFRY	KENTUCKY
138kV	
GRADING SECTION VIEWS	
ACCESS ROADS	
SCALE: AS SHOWN	DR: AKS
WO#: 101484400	APPD: LKM
1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. NO. E-1229
AMERICAN ELECTRIC POWER POWERLESS ENERGY	R E V 0



NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#
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SCC TABLE					
STR ID	SHAPE	DEPTH (FT)	LENGTH (FT)	SLOPE (%)	LINING
SCC - A	VEE	2	404	1.00%	CONCRETE

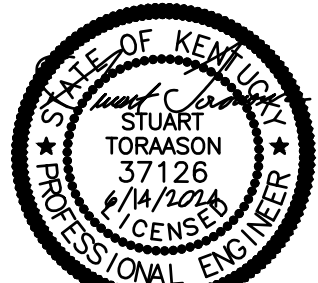


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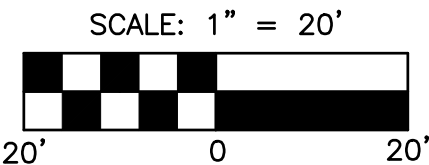
- | | |
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AMERICAN ELECTRIC POWER			
ORINOCO STATION			
BELFRY	138kV	KENTUCKY	
GRADING SECTION VIEWS			
SCC PROFILES			
SCALE: AS SHOWN	DR: AKS	ENG: AKS	CH: ST
 AMERICAN ELECTRIC POWER <small>A member of</small>	WO#: 101484400	APPD: LKM	DATE: 06/14/2024
	1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. NO. E-1230	REV 0

PRE DA 1				
LAND COVER	AREA (SF)	AREA (AC)	SOIL TYPE	CN
IMPERVIOUS	19,166.48	0.44	C	98
WOODS	13,939.26	0.32		70
GRASS	31,363.33	0.72		74
WOODS	334,542.14	7.68	B	55
TOTAL	399,011.20	9.16		59

PRE DA 2				
LAND COVER	AREA (SF)	AREA (AC)	SOIL TYPE	CN
IMPERVIOUS	4,791.62	0.11	C	98
WOODS	16,117.26	0.37		70
GRASS	18,730.87	0.43		74
WOODS	138,521.35	3.18	B	55
TOTAL	178,161.11	4.09		60

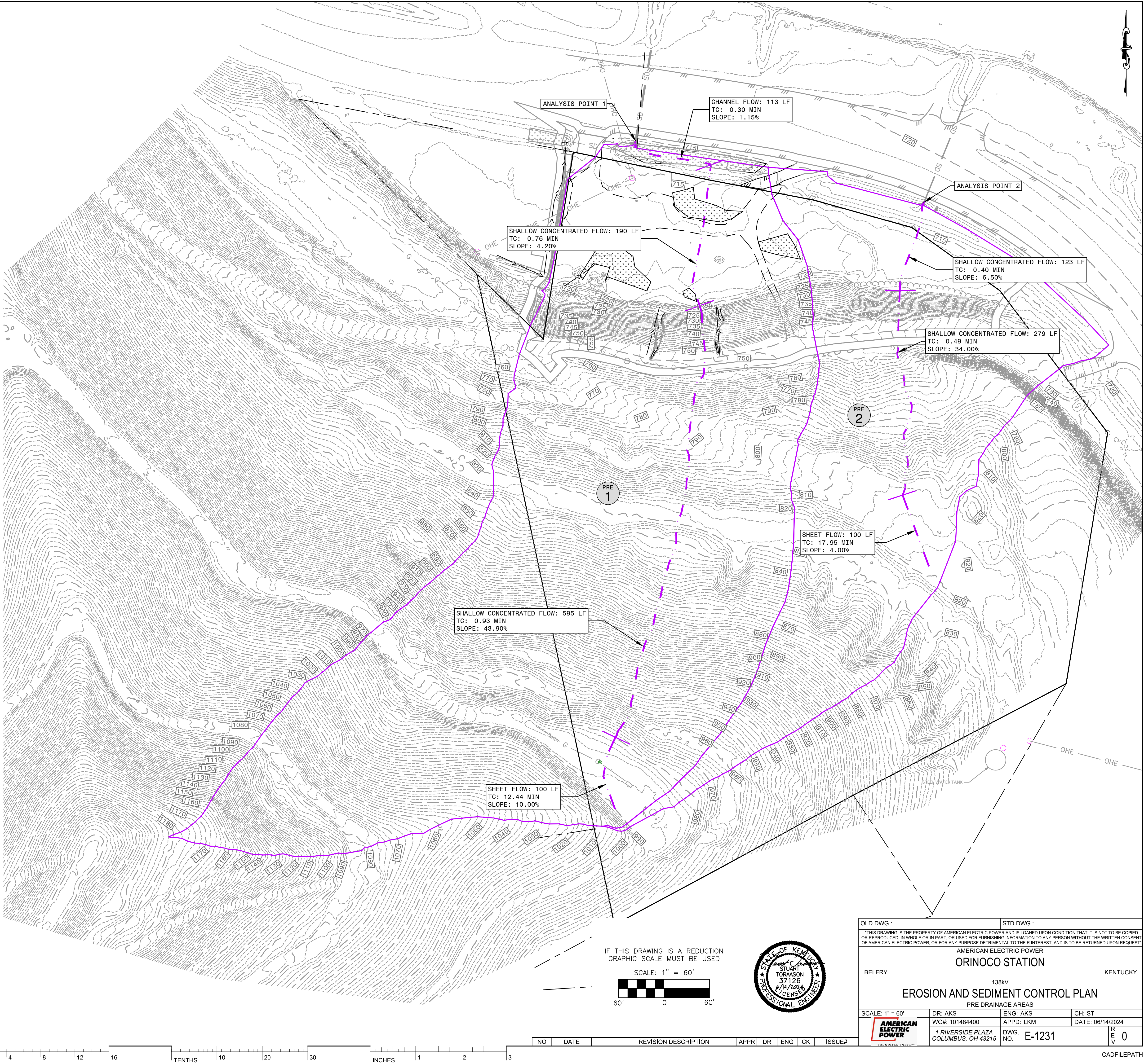
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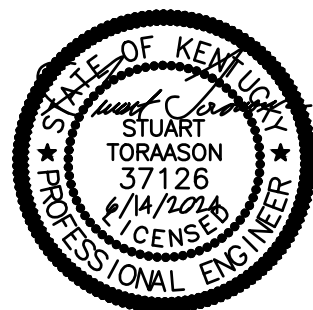
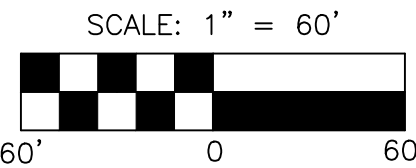


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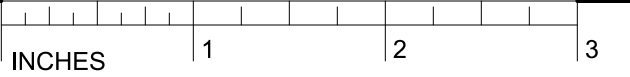
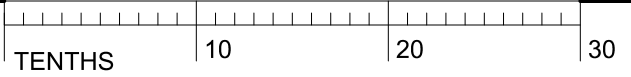
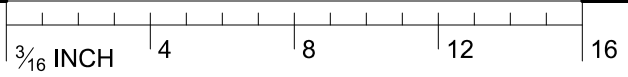
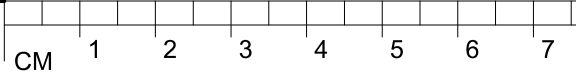
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| E-1234 | EROSION AND SEDIMENT CONTROL DETAILS |



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AMERICAN ELECTRIC POWER	
BELFRY	KENTUCKY
ORINOCO STATION	
138kV	
EROSION AND SEDIMENT CONTROL PLAN	
PRE DRAINAGE AREAS	
SCALE: 1" = 60'	DR: AKS WO#: 101484400 1 RIVERSIDE PLAZA COLUMBUS, OH 43215
ENG: AKS APPD: LKM DWG. NO. E-1231	CH: ST DATE: 06/14/2024 REV 0



NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#
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POST DA 1				
LAND COVER	AREA (SF)	AREA (AC)	SOIL TYPE	CN
IMPERVIOUS	50,094.20	1.15	C	98
WOODS	6,969.63	0.16		70
GRASS	6,969.63	0.16		74
WOODS	331,492.93	7.61	B	55
TOTAL	395,526.38	9.08		61

POST DA 2				
LAND COVER	AREA (SF)	AREA (AC)	SOIL TYPE	CN
IMPERVIOUS	3,920.42	0.09	C	98
WOODS	16,988.47	0.39		70
GRASS	19,602.08	0.45		74
WOODS	141,134.96	3.24	B	55
TOTAL	181,645.93	4.17		59

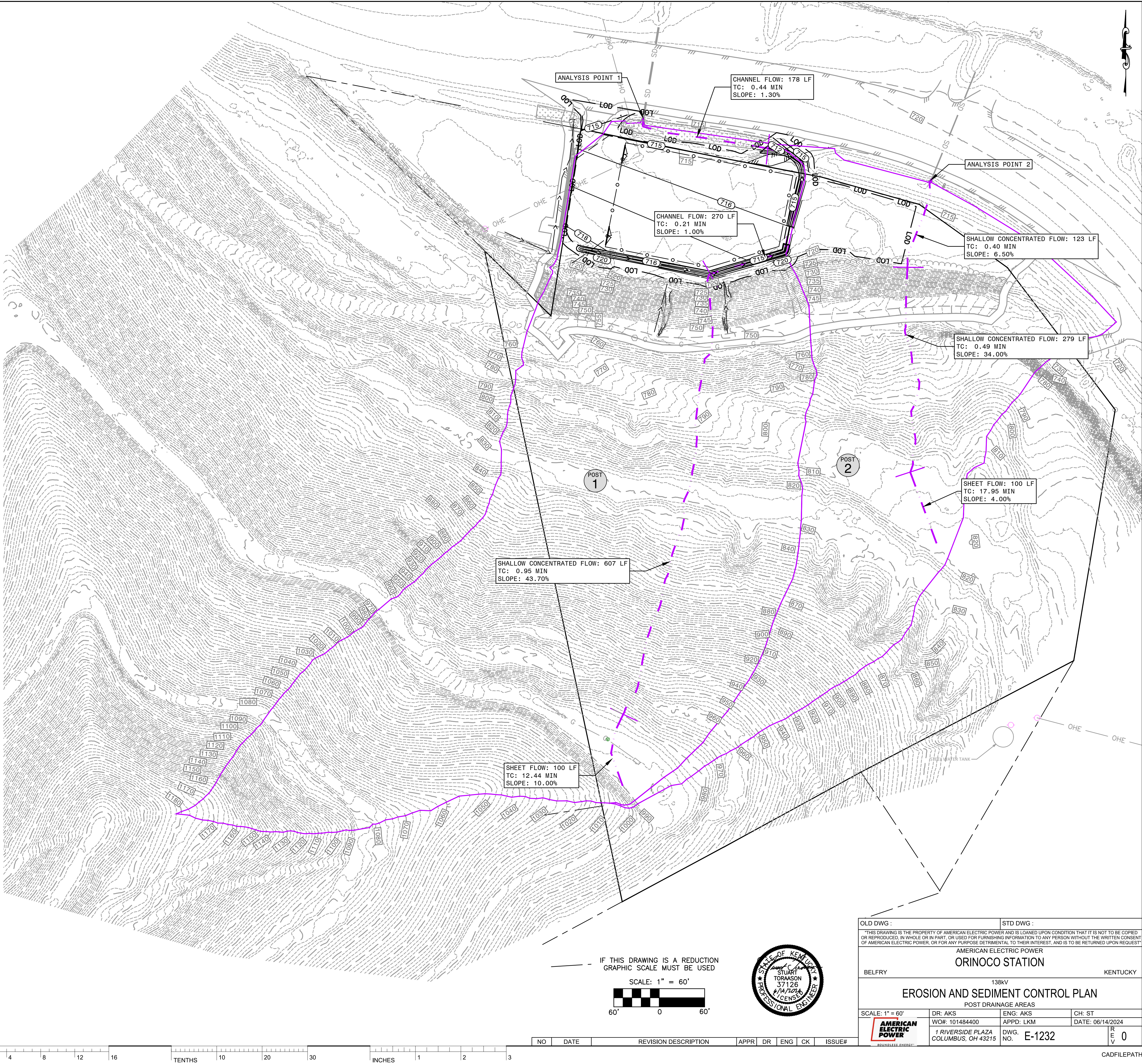
NOTIFY UTILITY COMPANIES BEFORE YOU DIG

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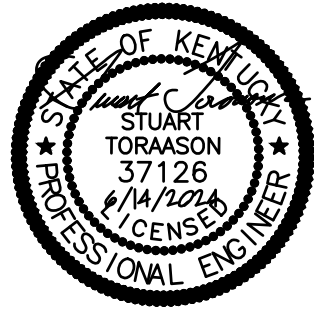
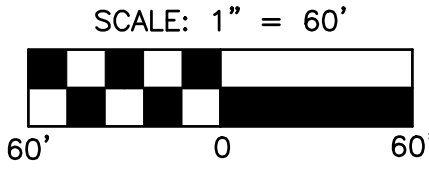


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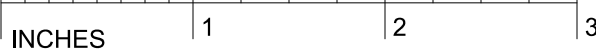
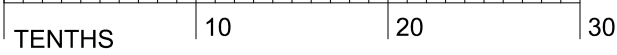
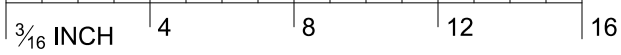
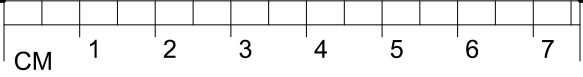
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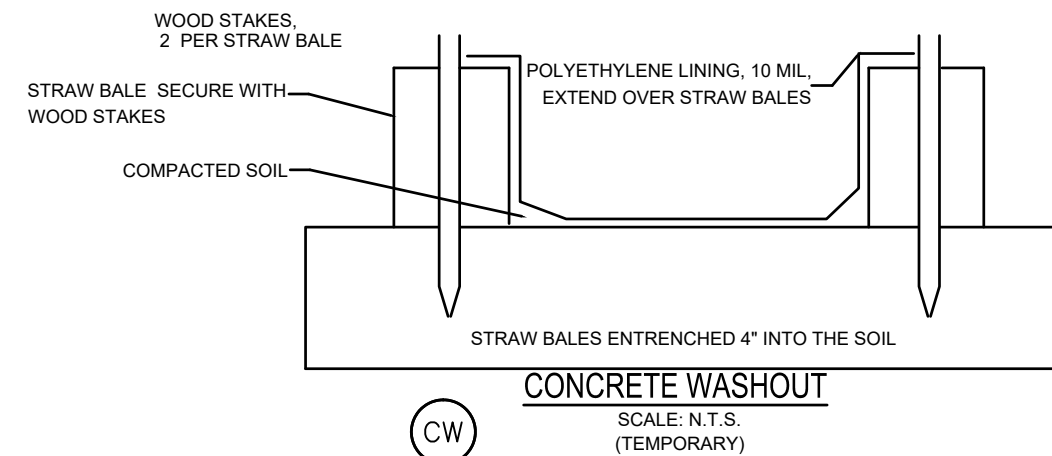
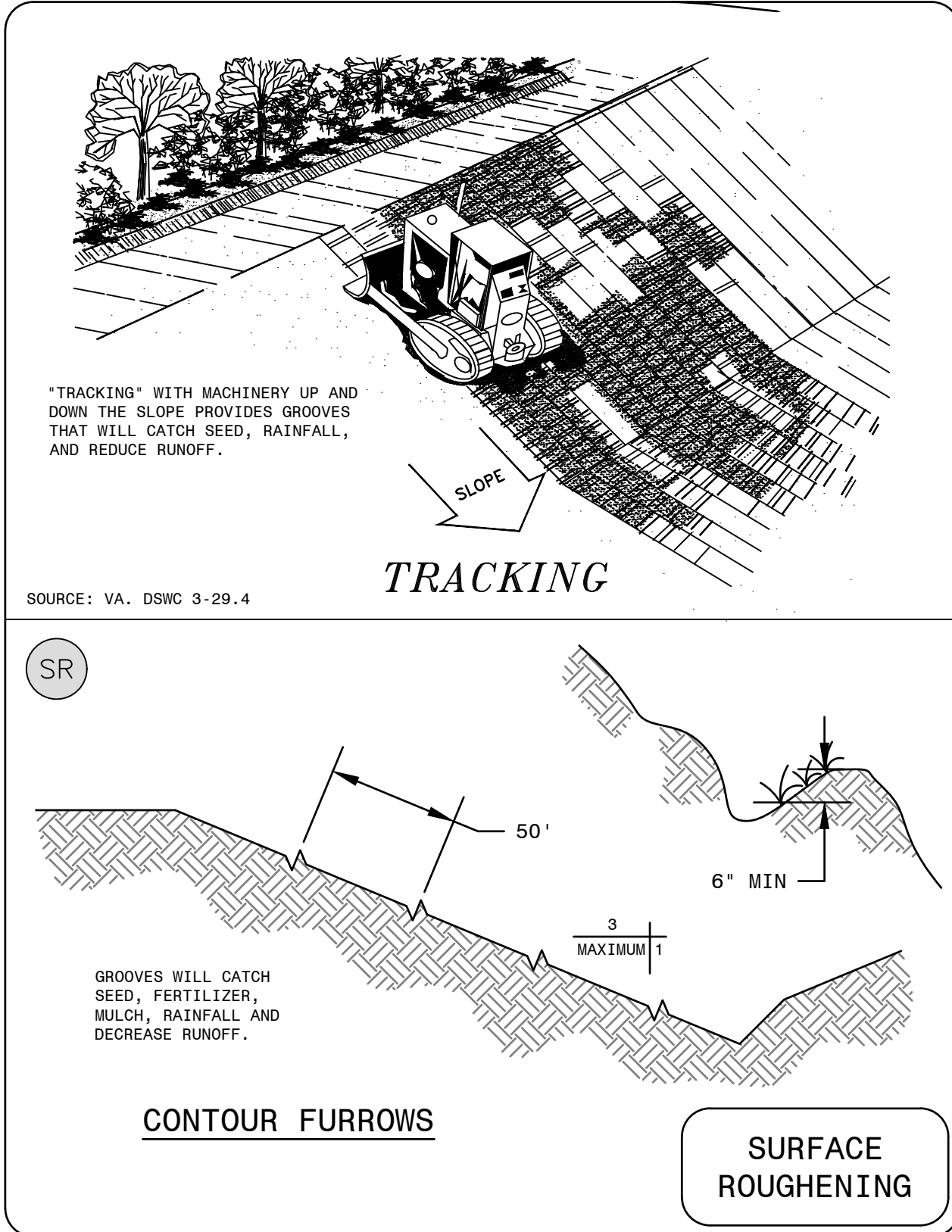
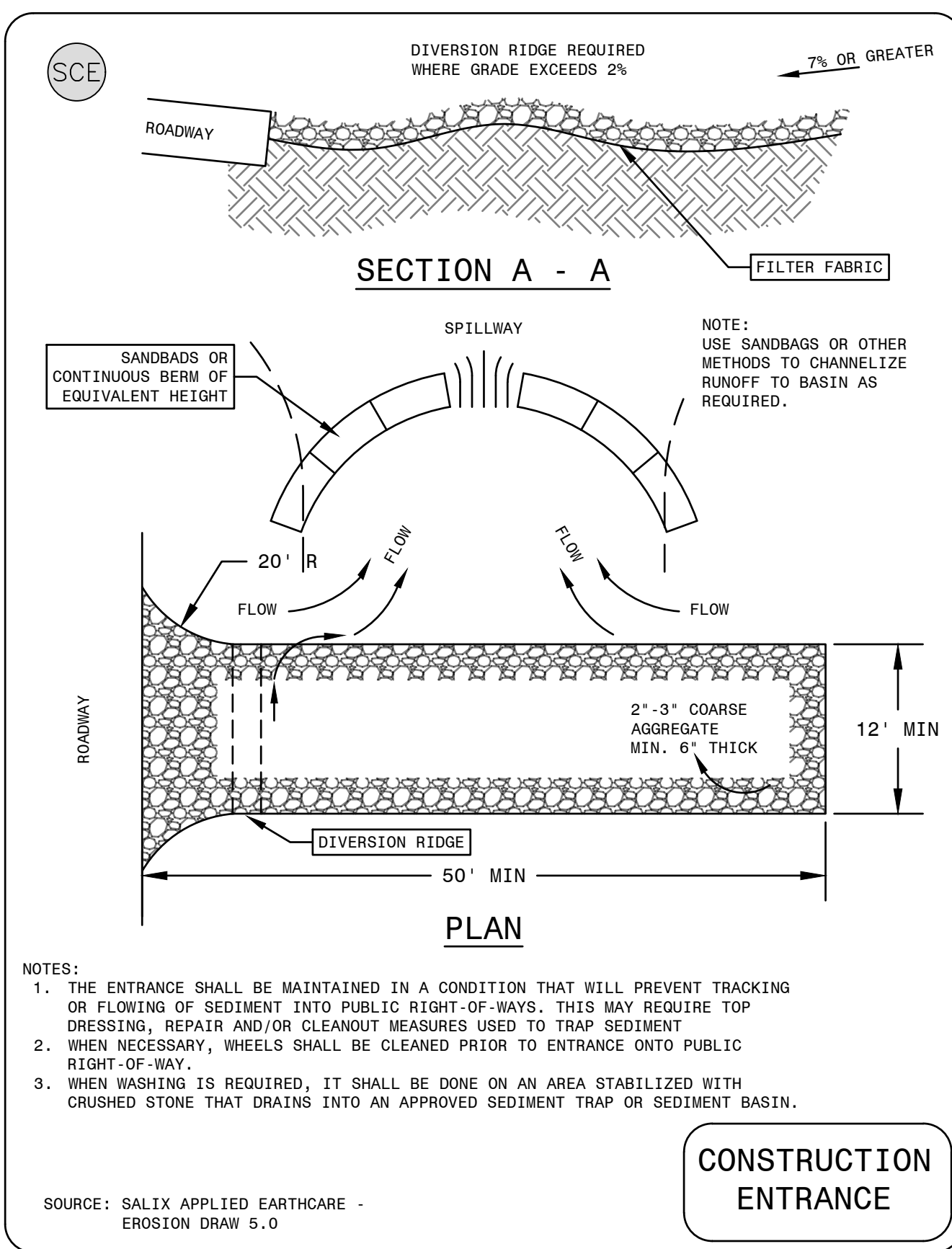
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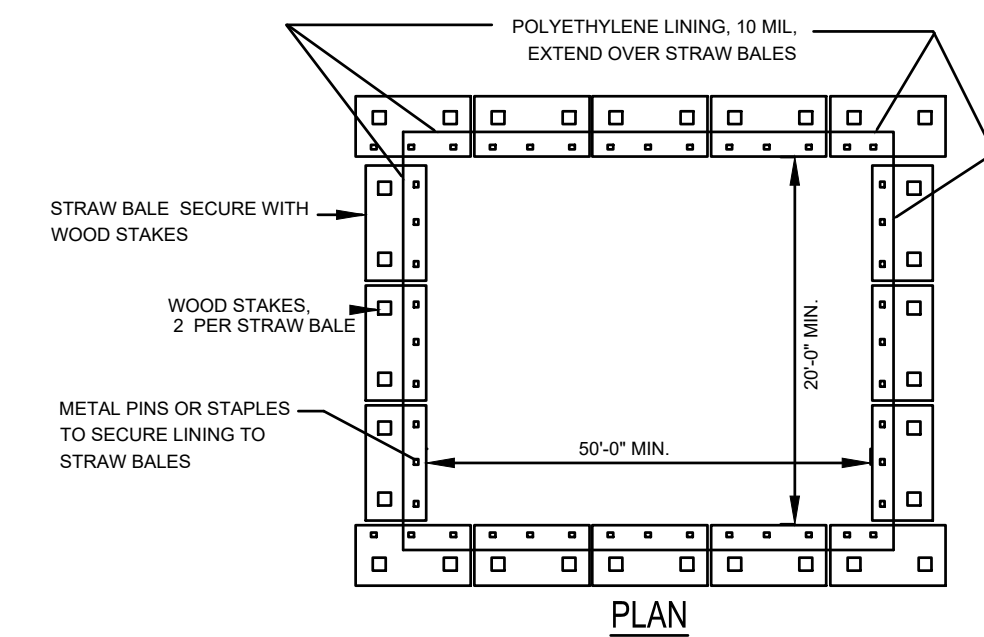
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138KV	
EROSION AND SEDIMENT CONTROL PLAN	
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SCALE: 1" = 60'	DR: AKS WO#: 101484400
ENG: AKS APPD: LKM	CH: ST DATE: 06/14/2024
1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. NO. E-1232
AMERICAN ELECTRIC POWER FOUNDERLESS ENERGY	REV 0



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1. CONCRETE WASHOUT SYSTEM WILL CONTAIN WASHOUT WATER WHEN CHUTES & HOPPERS ARE RINSED FOLLOWING CONCRETE DELIVERY TO THE CONSTRUCTION SITE.
2. SCRAP AS MUCH MATERIAL FROM CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
3. DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE. IT SHOULD BE RESTRICTED TO PLANT.
4. DO NOT USE ADDITIVES WITH WASH WATER. DO NOT USE ACID OR SOLVENTS.
5. FURNISH A SIGNAGE FOR THE CONCRETE WASHOUT AREA.
6. FURNISH ORANGE SAFETY FENCING OR EQUAL.



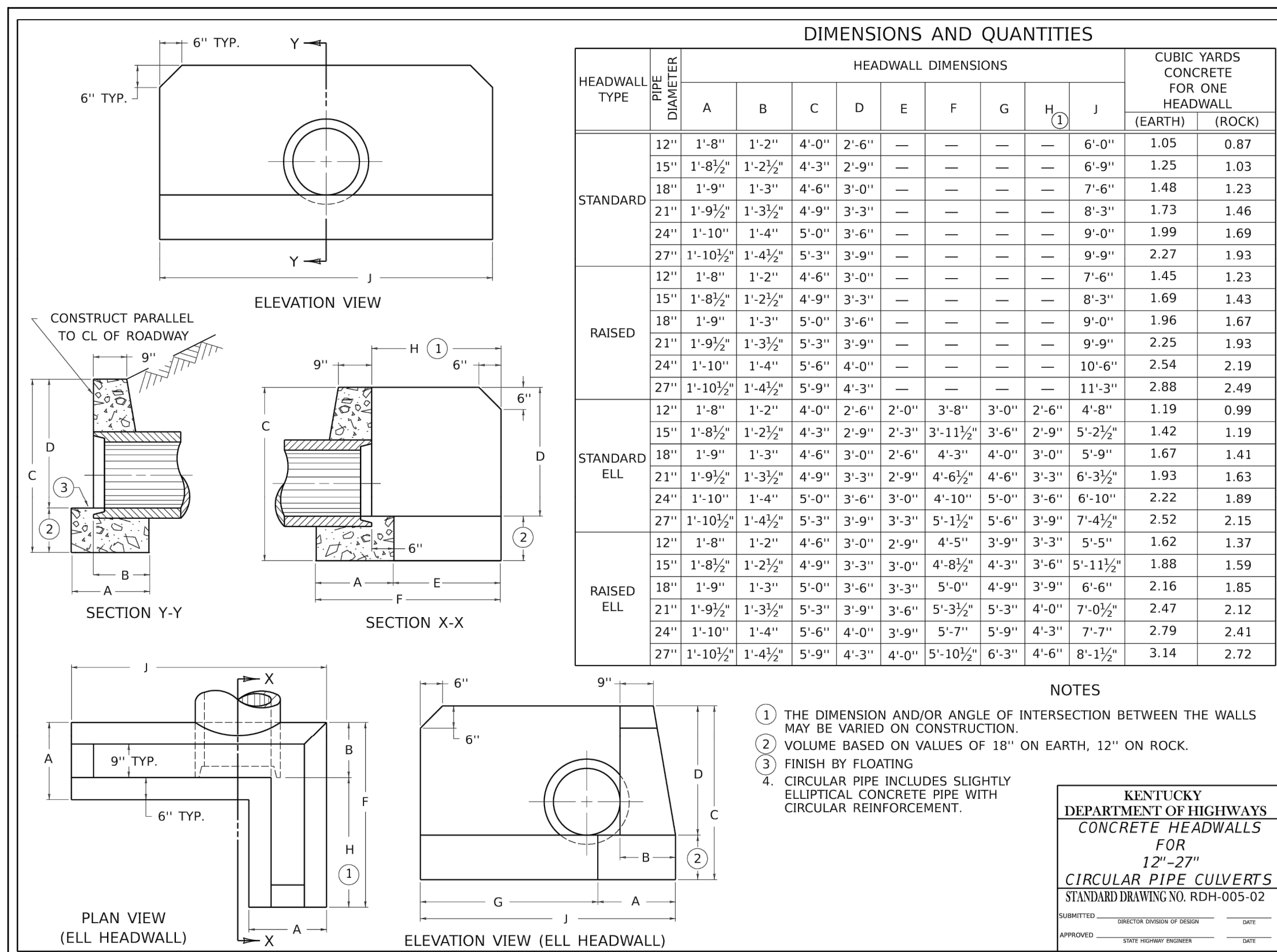
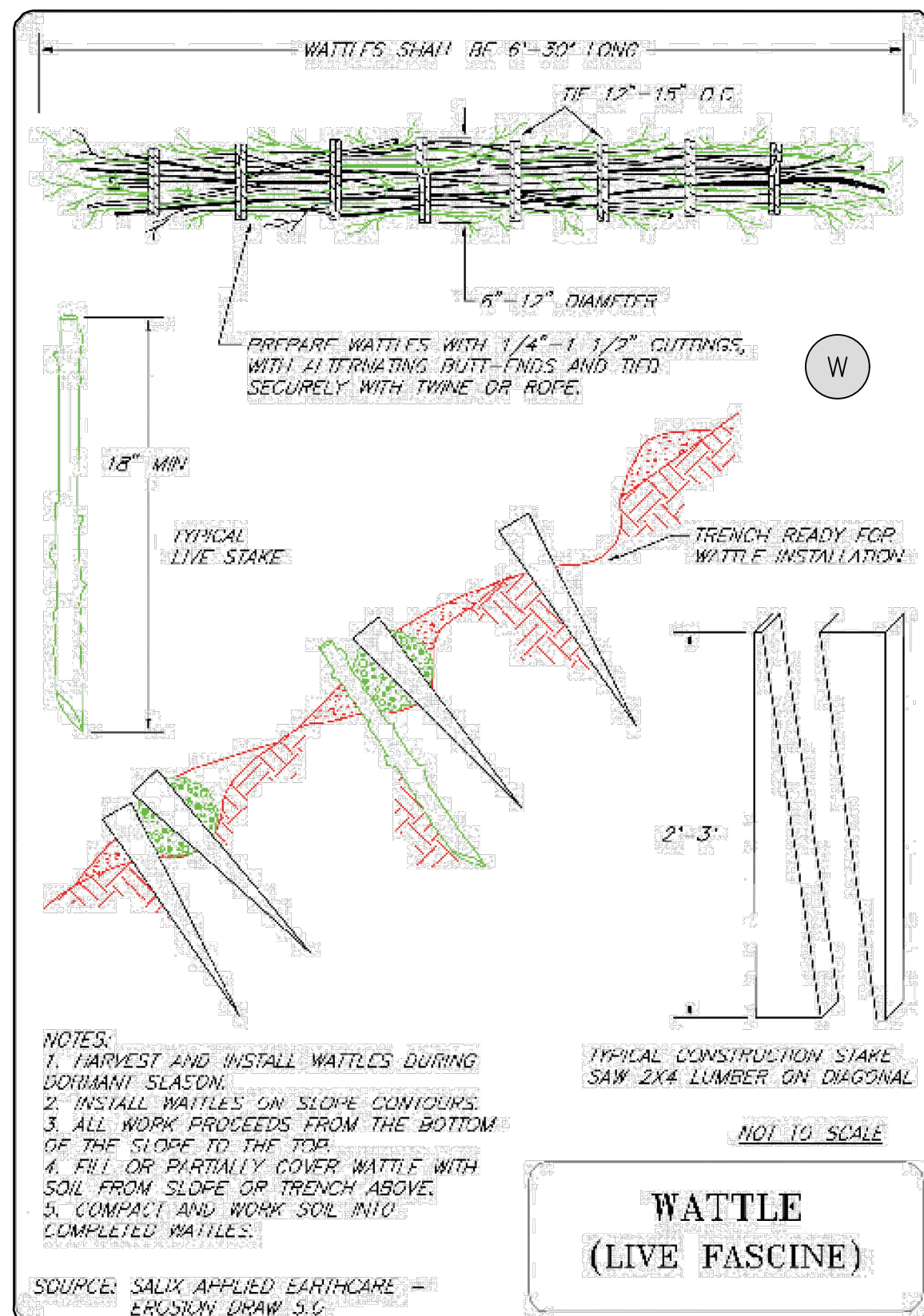
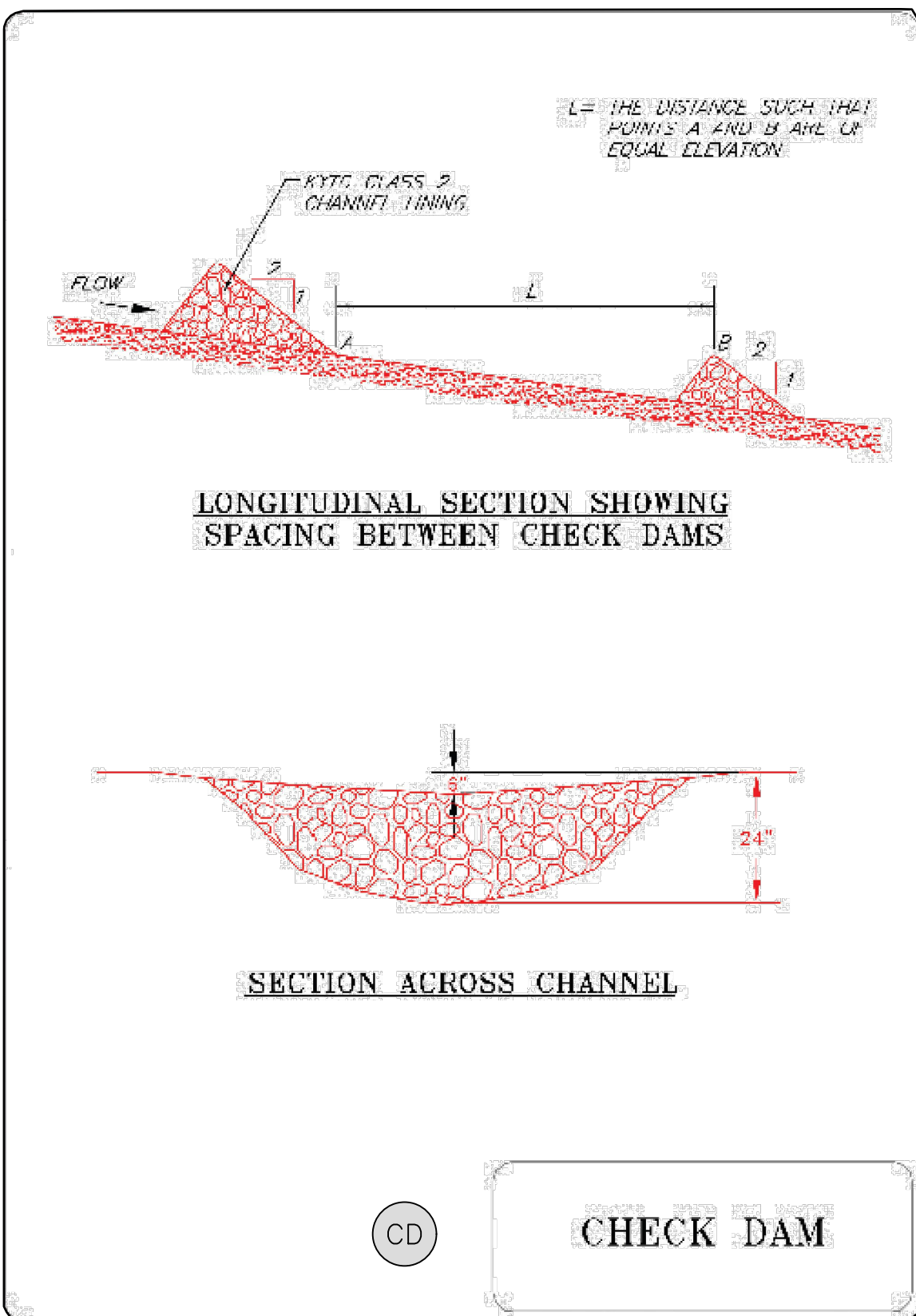
Seeding Rates for Temporary Site Protection

Mixture Type	Seed Mixture
Mixture No. I	75% Kentucky 31 Tall Fescue 10% Red Top 5% White Dutch Clover 10% Ryegrass (perennial)
Mixture No. III	30% Kentucky 31 Tall Fescue 15% Red Top 15% Partridge Pea 20% Sericea Lespedeza 10% Sweet Clover - Yellow 10% Ryegrass

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- Install the needed erosion control practices, such as diversion berms and ditches.

Seedbed Preparation

Spread lime (in lieu of a soil test recommendation) on acid soil and subsoil, at a rate of one ton per acre of agricultural ground limestone. For best results, test the soil—this can reduce the expense of unneeded lime and fertilizer and potential excess nutrient loss through runoff and leaching.

Fertilizer (in lieu of a soil test recommendation) should be applied at a rate of no more than 800 pounds per acre of 10-10-10 analysis. For best results, test the soil to determine fertilizer requirements. In limestone areas with streams and rivers impacted by high algae concentrations, use 10-0-10 fertilizer.

Work the lime and fertilizer into the soil with a disk harrow, springtooth harrow, or other suitable field equipment to a depth of 4 inches. On sloping land, the final operation must be on the contour.

Kentucky Transportation Cabinet Seed Mixes

Mixture Type	Seed Mixture
Mixture No. I	75% Kentucky 31 Tall Fescue 10% Red Top 5% White Dutch Clover 10% Ryegrass (perennial)
Mixture No. III	30% Kentucky 31 Tall Fescue 15% Red Top 15% Partridge Pea 20% Sericea Lespedeza 10% Sweet Clover - Yellow 10% Ryegrass

KYTC does not specify the seeding rate but requires that sufficient seed be applied to ensure a "dense, uniform vegetative cover."

Recommended Seeding Rates and Other Information for Various Species and Seed Mixtures

Seed species & mixtures	Seeding rate/acre	Per 1000 sq. ft.	Soil pH	Other Information
Seed and seed mixtures for relatively flat or slightly sloping areas				
Perennial ryegrass	25 to 35 lbs.	1 lb.	5.5 to 7.0	Apply lime at 2 tons per acre if soil pH is below 5.5; use 400-800 lb fertilizer (10-10-10) on poor soils. Use wildflower mixes to save on mowing and watering costs.
+ tall fescue	15 to 30 lbs.	1 lb.	5.5 to 7.5	
Tall fescue	40 to 50 lbs.	1.5 lb.		
+ ladino or white clover	1 to 2 lbs.	2 oz.		
Steep slopes, banks, cuts, and other low maintenance areas (not mowed)				
Smooth bromegrass	25 to 35 lbs.	1 lb.	5.5 to 7.5	Track steep slopes with dozer up and down hill before seeding. Mulch slopes after seeding with 2 to 3 tons of straw or 6 tons of wood chips per acre. Use tackifier on mulch—disk 4 in. or punch in with sheep-foot roller. Disk or sheep-foot on the contour (across slope, on the level). For extremely steep slopes, use erosion control blankets after seeding. Use 20" spacing on blanket staples.
+ red clover	10 to 20 lbs.	0.5 lb.		
Tall fescue	40 to 50 lbs.	1 lb.	5.5 to 7.5	
+ white or ladino clover	1 to 2 lbs.	2 oz.		
Orchardgrass	20 to 30 lbs.	1 lb.	5.6 to 7.0	
+ red clover	10 to 20 lbs.	0.5 lb.		
+ ladino clover	1 to 2 lbs.	2 oz.		
Crownvetch	10 to 12 lbs.	0.25 lb.	5.6 to 7.0	
+ tall fescue	20 to 30 lbs.	1 lb.		
Seed species & mixtures				
Seeding rate/acre	Per 1000 sq. ft.	Soil pH	Other Information	
Lawns and other high traffic or high maintenance areas (mowed)				

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Technical Specifications for BMPs

Bluegrass	105 to 140 lbs	3 lb.	5.5 to 7.0	Use wildflower mixes to save on mowing and watering costs. Do not establish grassed lawns near streams or wetlands—leave a 15 to 30 ft buffer of natural vegetation.
Perennial ryegrass (turf)	45 to 60 lbs	2 lb.	5.6 to 7.0	
+ bluegrass	70 to 80 lbs	2.5 lb.		
Tall fescue (turf type)	130 to 170 lbs	4 lb.	5.6 to 7.5	
+ bluegrass	20 to 30 lbs	1 lb.		
Channels and other areas of concentrated water flows				
Perennial ryegrass	100 to 150 lbs	3 lb.	5.6 to 7.0	Seed ditches and channels thickly. Do not use fertilizer near ditch or channel bottom. Use erosion control blankets or turf reinforcement mats when channel bottom slopes exceed 3%.
+ white or ladino clover	1 to 2 lbs	2 oz.		
Kentucky bluegrass	20 lbs	0.5 lb.	5.5 to 7.5	
+ smooth bromegrass	10 lbs	25 lb.		
+ switchgrass	3 lbs	2 oz.		
+ timothy	4 lbs	25 lb.		
+ perennial ryegrass	10 lbs	25 lb.		
+ white or ladino clover	1 to 2 lbs	2 oz.		
Tall fescue	100 to 150 lbs	3 lb.	5.5 to 7.5	Silt check dams are needed when channel slopes exceed 5% or when channels begin downcutting (gully) on the bottom. Do not use silt fencing or straw bales as silt check dams in channels with slopes greater than 3%; use rock or brush instead.
+ ladino or white clover	1 to 2 lbs	2 oz.		
Tall fescue	100 to 150 lbs	3 lb.	5.5 to 7.5	
+ perennial ryegrass	15 to 20 lbs	0.5 lb.		
+ Kentucky bluegrass	15 to 20 lbs	0.5 lb.		

Inspection and Maintenance

Water the soil until the grass is firmly established. This is especially needed when seedlings are made late in the planting season, in abnormally dry and hot season, or on sites with steep slopes or other adverse conditions.

Inspect all seeded areas for failures and make necessary repairs, replacements, reseeds, and reworking within the planting season.

If stand is inadequate, (less than 85 percent groundcover) seed over the site and fertilize, using half of the seeding rate originally applied, and apply mulch.

If stand is more than 60 percent damaged, reestablish the stand. Follow the original seedbed preparation methods, seeding and mulching recommendations, and apply lime and fertilizer as needed according to a soil test.



63

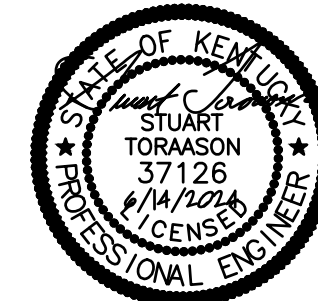
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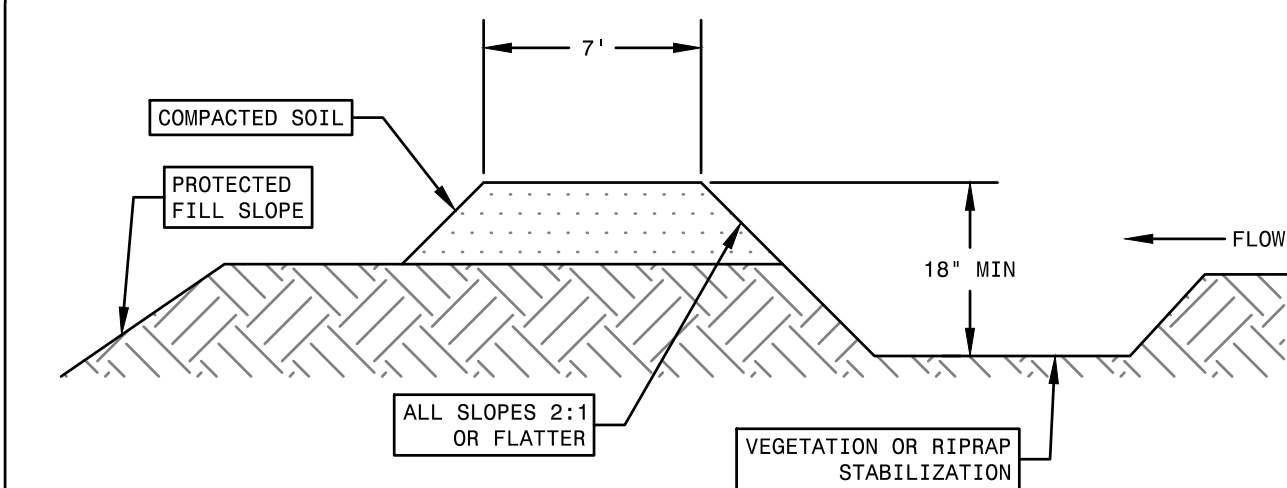
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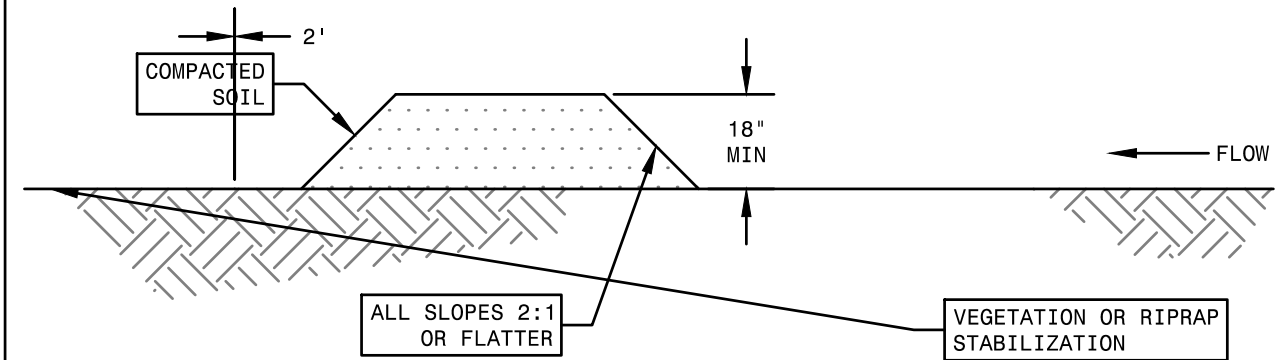
AMERICAN ELECTRIC POWER

FOUNDATIONS ENERGY

REVISION 0



TYPICAL FILL DIVERSION



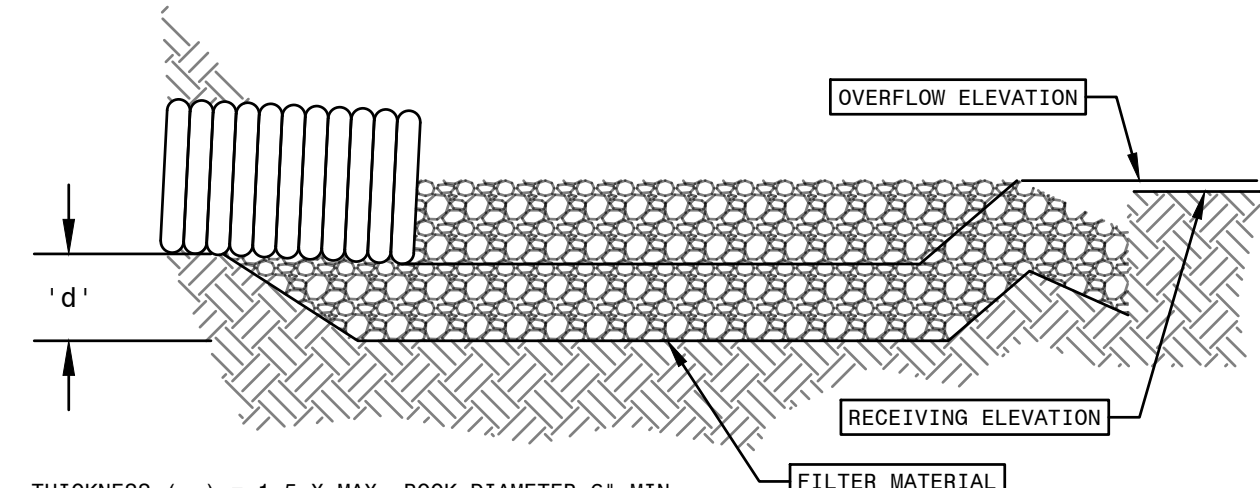
TYPICAL TEMPORARY DIVERSION DIKE

- NOTES:
1. THE CHANNEL BEHIND THE DIKE SHALL HAVE POSITIVE GRADE TO A STABILIZED OUTLET.
 2. THE DIKE SHALL BE ADEQUATELY COMPACTED TO PREVENT FAILURE.
 3. THE DIKE SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT SEEDING OR RIPRAP.

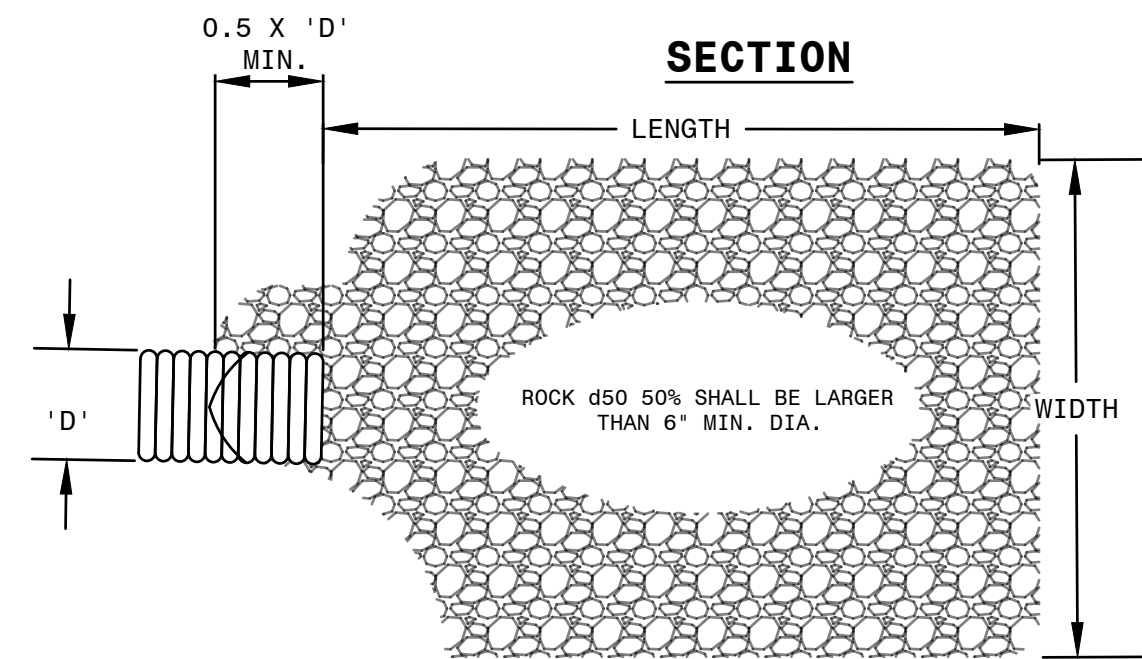
SOURCE: SALIX APPLIED EARTH CARE - EROSION DRAW 5.0

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DIVERSION CHANNEL



SECTION



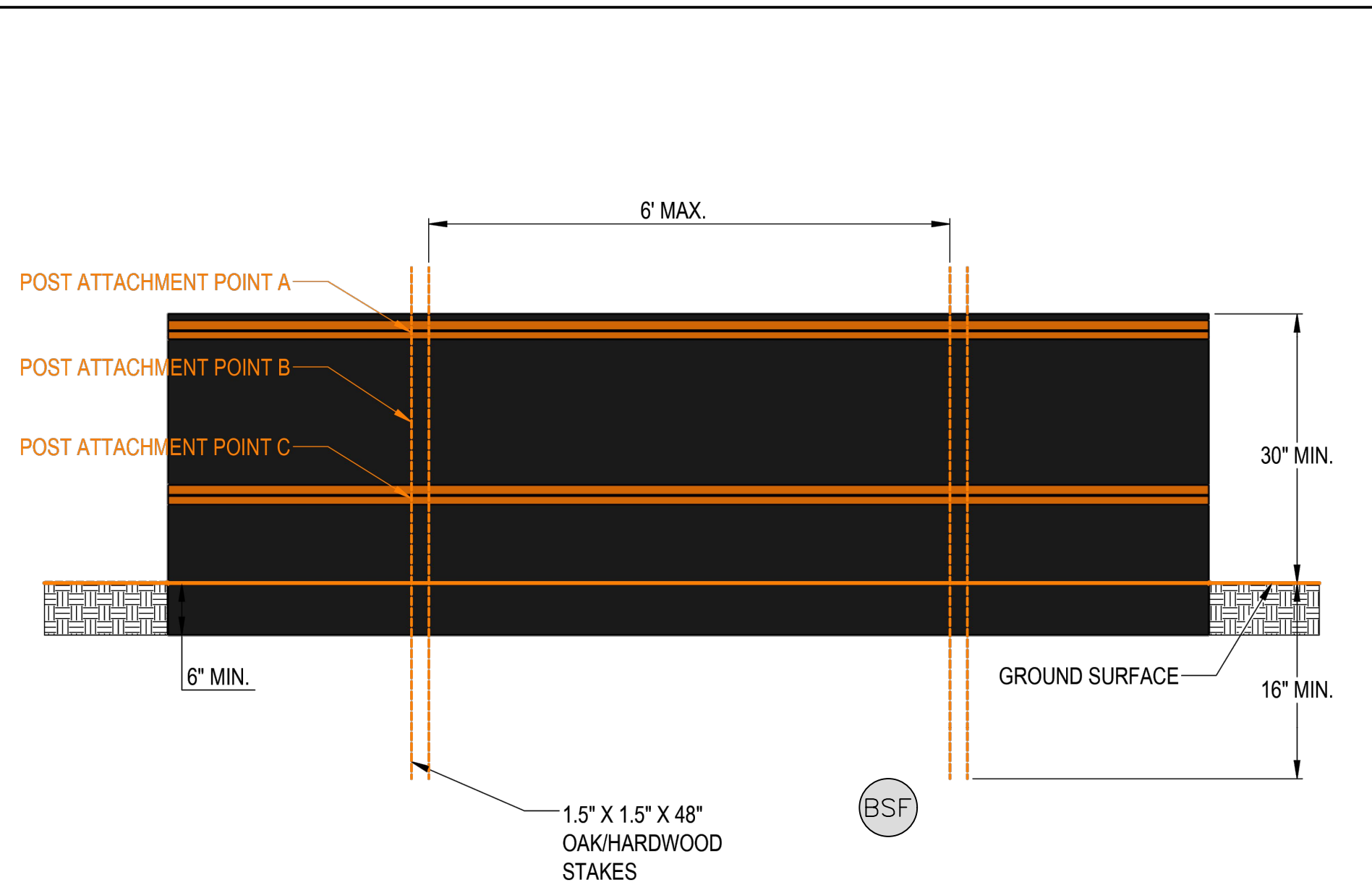
PLAN

- NOTES:
1. THE LENGTH AND WIDTH SHALL BE DETERMINED BY THE ENGINEER.
 2. APRON SHALL BE SET AT A ZERO GRADE AND ALIGNED STRAIGHT.
 3. FILTER MATERIAL SHALL BE FILTER FABRIC OR 6" THICK MINIMUM GRADED GRAVEL LAYER.

SOURCE: SALIX APPLIED EARTH CARE - EROSION DRAW 5.0

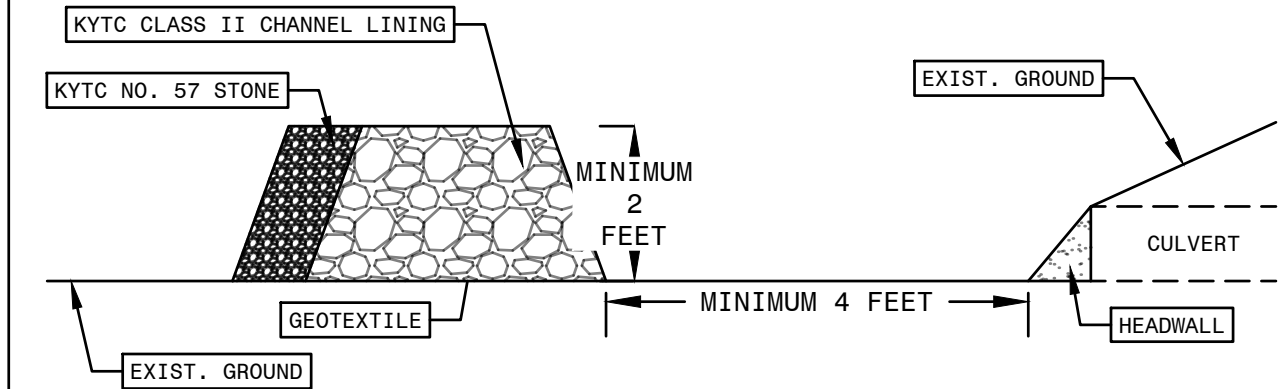
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CULVERT OUTLET ENERGY DISSIPATOR

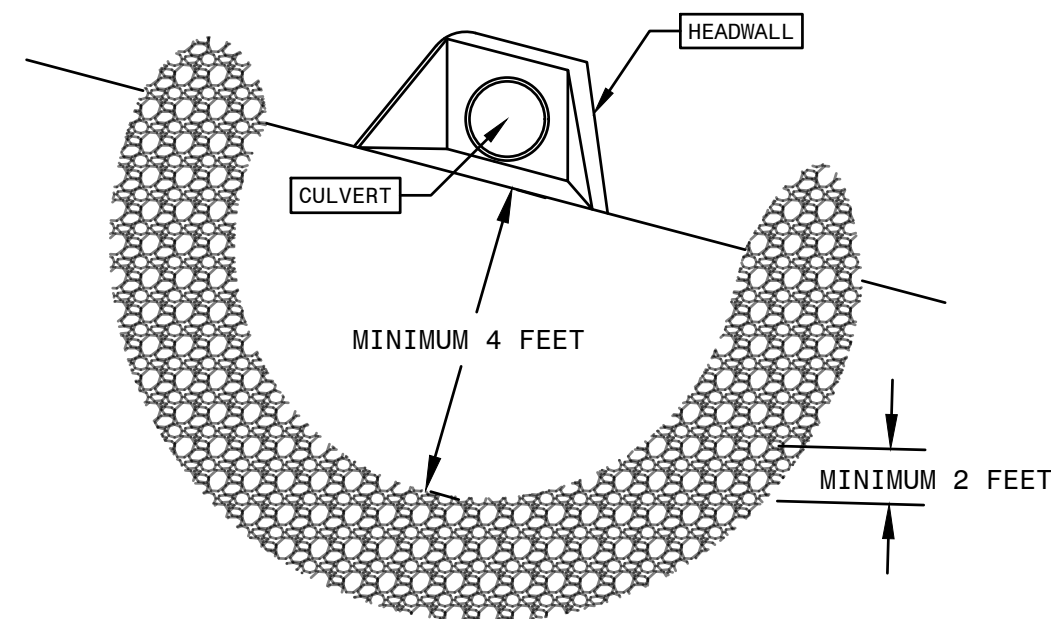


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FOR ADDITIONAL INFORMATION PLEASE CONTACT: ACF ENVIRONMENTAL, 800-448-3636, WWW.ACFENVIRONMENTAL.COM

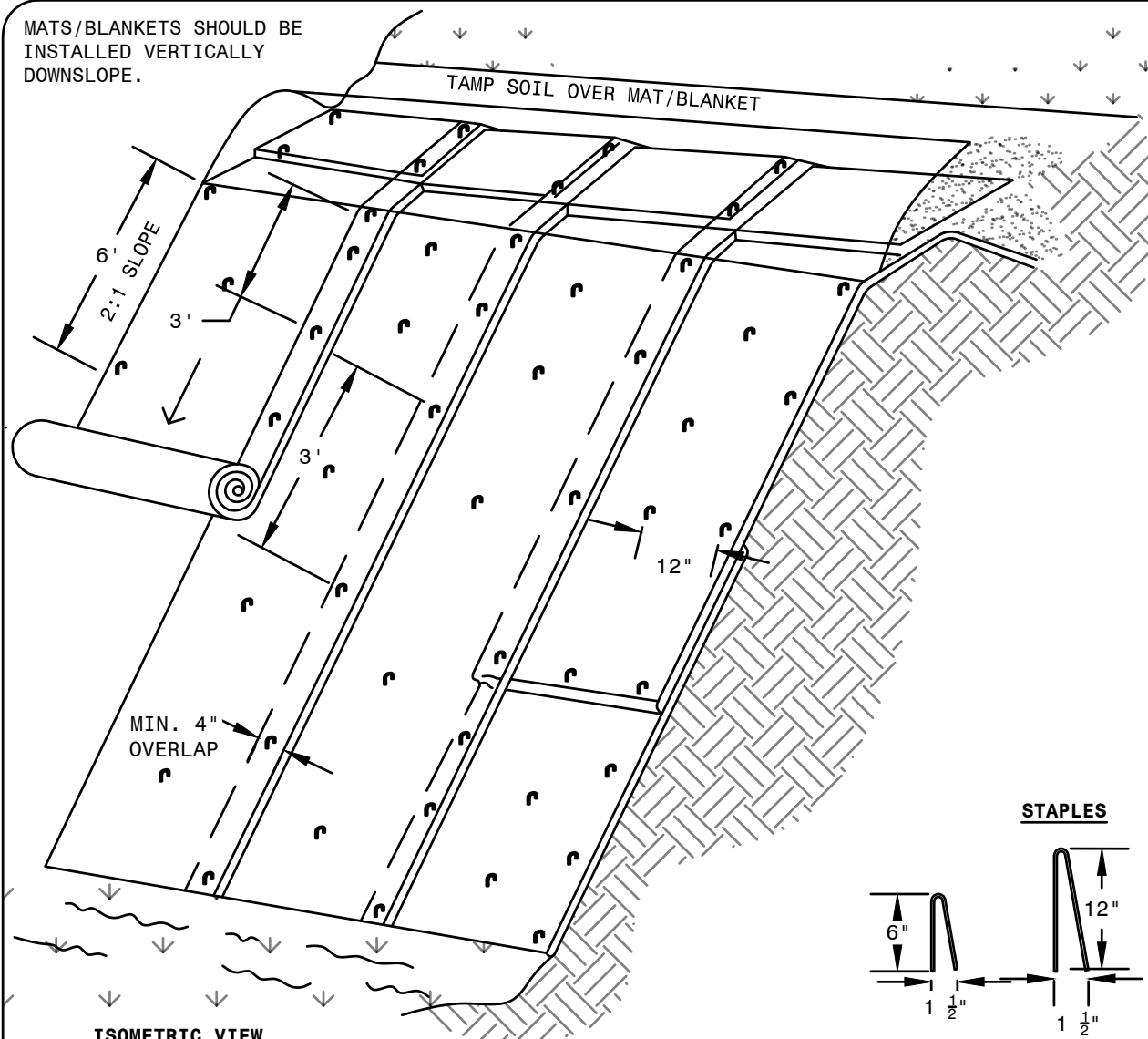


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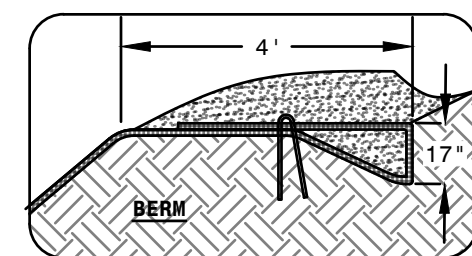
CULVERT INLET SEDIMENT BARRIER



TYPICAL SLOPE SOIL STABILIZATION

- NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS. MATS/BANKETS SHALL HAVE GOOD SOIL CONTACT.
 2. APPLY PERMANENT SEEDING BEFORE PLACING BANKETS.
 3. LAY BANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

SOURCE: SALIX APPLIED EARTH CARE - EROSION DRAW 5.0



NOT TO SCALE

EROSION BLANKETS & TURF REINFORCEMENT MATS SLOPE INSTALLATION

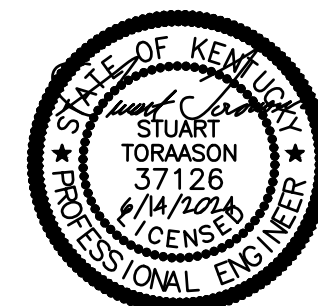
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 "SOUNDNESS ENERGY"	WO#: 101484400	APPD: LKM	DATE: 06/14/2024
	1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. NO. E-1234	R E V 0

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