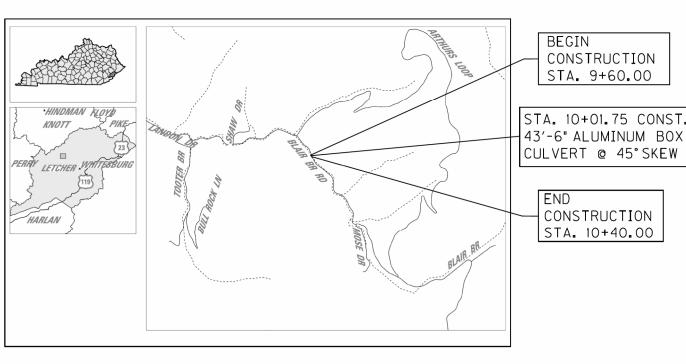
5	STANDARD DRAWINGS
RBI-001-12	TYPICAL GUARDRAIL INSTALLATIONS
RBR-001-13	STEEL BEAM GUARDRAIL ("W" BEAM)
RBR-005-11	GUARDRAIL COMPONENTS
RBR-010-06	GUARDRAIL TERMINAL SECTIONS
RBR-050-08	GUARDRAIL END TREATMENT TYPE 7
RGX-001-06	MISCELLANEOUS STANDARDS
RGX-005-06	RIGHT-OF-WAY MONUMENTS
RGX-200-01	ONE POINT PROCTOR FAMILY OF CURVES
RPM-110-07	APPROACHES, ENTRANCES AND MAIL BOX TURNOUT
TTC150-04	ROAD CLOSURE WITH DIVERSON
TTC155-02	TEMP. PAVEMENT MARKER ARRANGEMENTS FOR CONST. ZONES
	ACTIVE SEPIAS
SEPIA 009	PAVEMENT MARKER ARRANGEMENTS TWO-LANE, TWO-WAY ROADWAYS

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS LETCHER COUNTY BI AIR BRANCH ROAD (CR 1339)

BLAIR BRANCH ROAD (CR 1339) OVER BLAIR BRANCH STA. 10+01.75

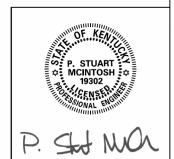


LOCATION MAP

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

I	REV. NO.	SHEETS REVISED	DATE
		TABLE OF REVISIONS	
1		PREPARED BY	

THIS PROJECT IS NOT A CONTROLLED ACCESS HIGHWAY.



Philip S. Date: 2024.12.13
McIntosh 09:42:05 -05'00'

COUNTY OF ITEM NO. SHEET NO.

LETCHER N/A RI

INDEX OF SHEETS

		SPECIFICATIONS
		·
		SPECIAL PROVISIONS
	SPECIAL	NOTE 9V ALUMINUM AND STEEL PLATE BOX CULVERTS
RT	ALUMINU	JM BOX CULVERT
		S ON BRIDGE REPAIR CONTRACTS NAL ENVIRONMENTAL COMMITMENTS
•		CT COMPLETION DATE AND LIQUIDATED
		AL TREE CLEARING RESTRICTION
		IT PREVENTION AND EROSION CONTROL CONTROL ON BRIDGE REPAIR CONTRACTS
	CEDIMEN	T DESCRIPTION AND EDGGION CONTROL
		SPECIAL NOTES
	S2	SUBSURFACE DATA
	X1-X3 S1	CROSS SECTIONS LAYOUT
	R3	ROADWAY PLAN AND PROFILE SHEET
	RZ	TIPICAL SECTIONS AND COURDINATE CONTROL

RI LAYOUT SHEET

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF

REVISION

2019 Standard Specifications for Road and Bridge

2020 AASHTO LRFD Bridge Design Specifications with

Construction.

Current Interims.

LETCHER

CR 1339 OVER BLAIR BRANCH

ITEM NO. N/A			
DRAWING NO. N/A			
DDO IECT			
LETTING DATE:			
RECOMMENDED BY:			
RECOMMENDED BI:	PROJECT MANAGER	DATE:	
PLAN APPROVED BY:			

DESIGN CRITERIA

TYPE OF TERRAIN MOUNTAIN
DESIGN SPEED
REQUIRED NPSD
REQUIRED PSD
LEVEL OF SERVICE
ADT PRESENT (2024) 50 (EST)
ADT FUTURE ()
DHV
D %
Т %

GEOGRAPHIC COORDINATES

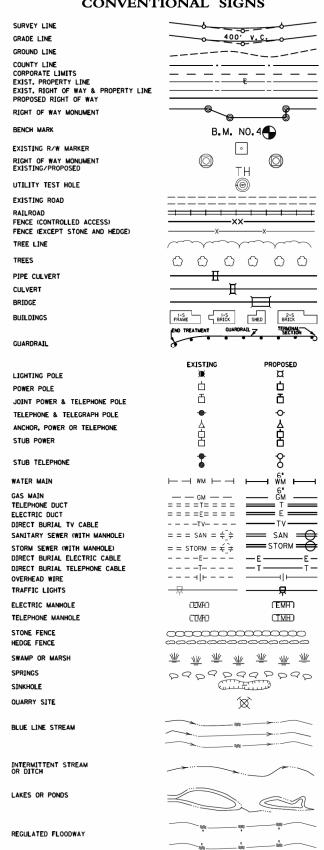
LATITUDE 37 DEGREES 10 MINUTES 07 SECONDS NORTH LONGITUDE 82 DEGREES 54 MINUTES 11 SECONDS WEST

DESIGNED

% RESTRICTED SD
LEVEL OF SERVICE
MAX. DISTANCE W/O PASSING

EX BRIDGE ID 067C009 FEMA BRIDGE: 4663-DR

CONVENTIONAL SIGNS



BLAIR BRANCH ROAD OVER BLAIR BRANCH

TYPICAL SECTIONS

Point		Description	Northing	Easting	Elevation	Station	Offse t
	CP #1	HUB & TACK	3597675.44	5750687.52	1186.31	9+43.68	6.39' RT
	CP #2	MAGNAIL	3597518.50	5750758.08	1188.13	11+14.75	5.55′ RT

COORDINATES FOR HORIZONTAL CONTROL ARE AUTONOMOUS, THEY ARE NOT AN OPUS SOLUTION. USE FOR DESIGN PURPOSES

MAINTENANCE OF TRAFFIC NOTE

THE CONTRACTOR SHALL MAINTAIN TRAFFIC ALONG BLAIR BRANCH ROAD AT ALL TIMES AND PROVIDE INGRESS/EGRESS TO ALL RESIDENTS ALONG BLAIR BRANCH ROAD. THE SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS SHALL BE IMPLEMENTED.

ALL LABOR AND MATERIALS NECESSARY FOR CONSTRUCTION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES SHALL BE INCIDENTAL TO THE BID ITEM FOR "MAINTAIN AND CONTROL TRAFFIC".

ALL FLAGPERSONS AND TRAFFIC CONTROL DEVICES, SUCH AS, BUT NOT LIMITED TO, FLASHERS, BARRICADES, VERTICAL PANELS, PLASTIC DRUMS (STEEL DRUMS ARE NOT PERMITTED), AND CONES NECESSARY FOR THE CONTROL AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC SHALL BE PROVIDED AS SPECIFIED IN THESE NOTES. THE MUTCD, OR THE ENGINEER.

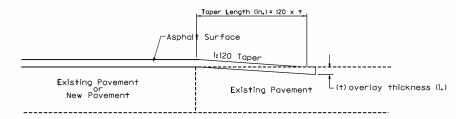
ALL TEMPORARY TRAFFIC CONTROL ITEMS, DEVICES, MATERIALS, AND INCIDENTALS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED.

ALL TEMPORARY SIGNAGE SHALL BE INCIDENTAL TO THE BID ITEM "MAINTAIN AND CONTROL TRAFFIC"

UTILITY COORDINATION

BEFORE BEGINNING WORK, LOCATE ALL EXISTING UTILITIES. CONSIDER UTILITY LINE LOCATIONS DEPICTED IN THE PLANS TO BE APPROXIMATE AND FOR INFORMATIONAL PURPOSES ONLY. THE DEPARTMENT DOES NOT WARRANT THE LOCATION AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS. THE CONTRACTOR MUST MAKE THEIR OWN DETERMINATION. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND/OR PROPERTY OWNERS REGARDING ALL UTILITIES, SERVICE LINES, OR PRIVATE LINES DURING CONSTRUCTION.

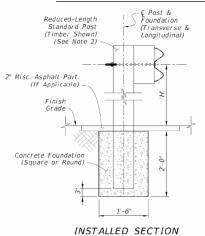
TAPERING OF OVERLAYS ON LOW SPEED FACILITIES < (45mph)



EDGE KEY

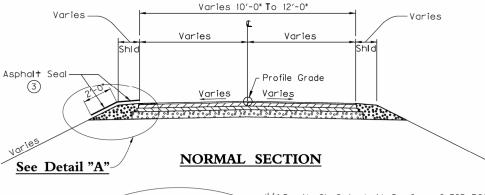
Work under this item shall include cutting out the existing asphalt surface to a minimum depth and width as shown, so the new surface may heel into the existing surface. The contract unit price bid per linear foot for EDGE KEY shall include all necessary materials, labor, equipment, etc. to perform the work and dispose of the bituminous material removed.

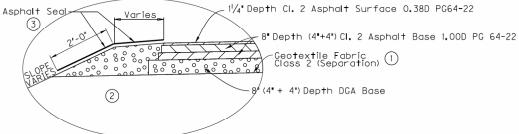
SPECIAL GUARDRAIL DETAIL ALLOWABLE FOR 3 CONSECUTIVE POSTS



NOTES:

- 1. INSTALLATION: When the construction of Guardrail at the required post spacing results in post(s) conflicting with underground utilities or other underground obstructions, an Encased Post may be used where a 2-0" depth will avoid the conflict. Install where shown in the plans Specification 536
- 2. REDUCED-LENGTH STANDARD POST: Use a Standard Post with reduced Length such that the Panel Height 'H' is maintained while the post bottom terminates 3" from the bottom of the Concrete Foundation. Typically, the Post Length 'L' is 4'-7" for W-Beam Guardrail.
- 3. FOUNDATION: Use non-reinforced Class NS Concrete material in accordance with Specification 347. After casting the concrete, ensure the surrounding soil material is completely backfilled and tamped to provide full passive resistance.





Detail "A"

FULL-DEPTH MAINLINE & SHOULDER PAVEMENT RECONSTRUCTION

NOT TO SCALE

NOTES:

- GEOTEXTILE FABRIC CLASS 2 (SEPARATION) SHALL BE INCIDENTAL TO DGA.
- GRANULAR EMBANKMENT FOR NECESSARY WIDENING LOCATIONS AS APPROVED BY ENGINEER. MATERIAL NEEDED FOR SHOULDERS OUTSIDE OF PAVED AREA WILL BE MEASURED AND PAID AS GRANULAR EMBANKMENT.
- ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE. TWO APPLICATIONS REQUIRED.

 APPLICATION RATE: 2.40 LBS/SY ASPHALT SEAL COAT (TWO APPLICATIONS)

 20 LBS/SY ASPHALT SEAL AGGREGATE SIZE #8 (TWO APPLICATIONS)

ENCASED POST FOR SHALLOW MOUNT
ADAPED FROM FDOT FY 2022-23 STANDARD PLANS, 536-001, SHEET 23 OF 24

TYPICAL SECTIONS AND COORDINATE CONTROL DRAWING TITLE: BLAIR BRANCH ROAD (CR 1339) OVER BLAIR BRANCH

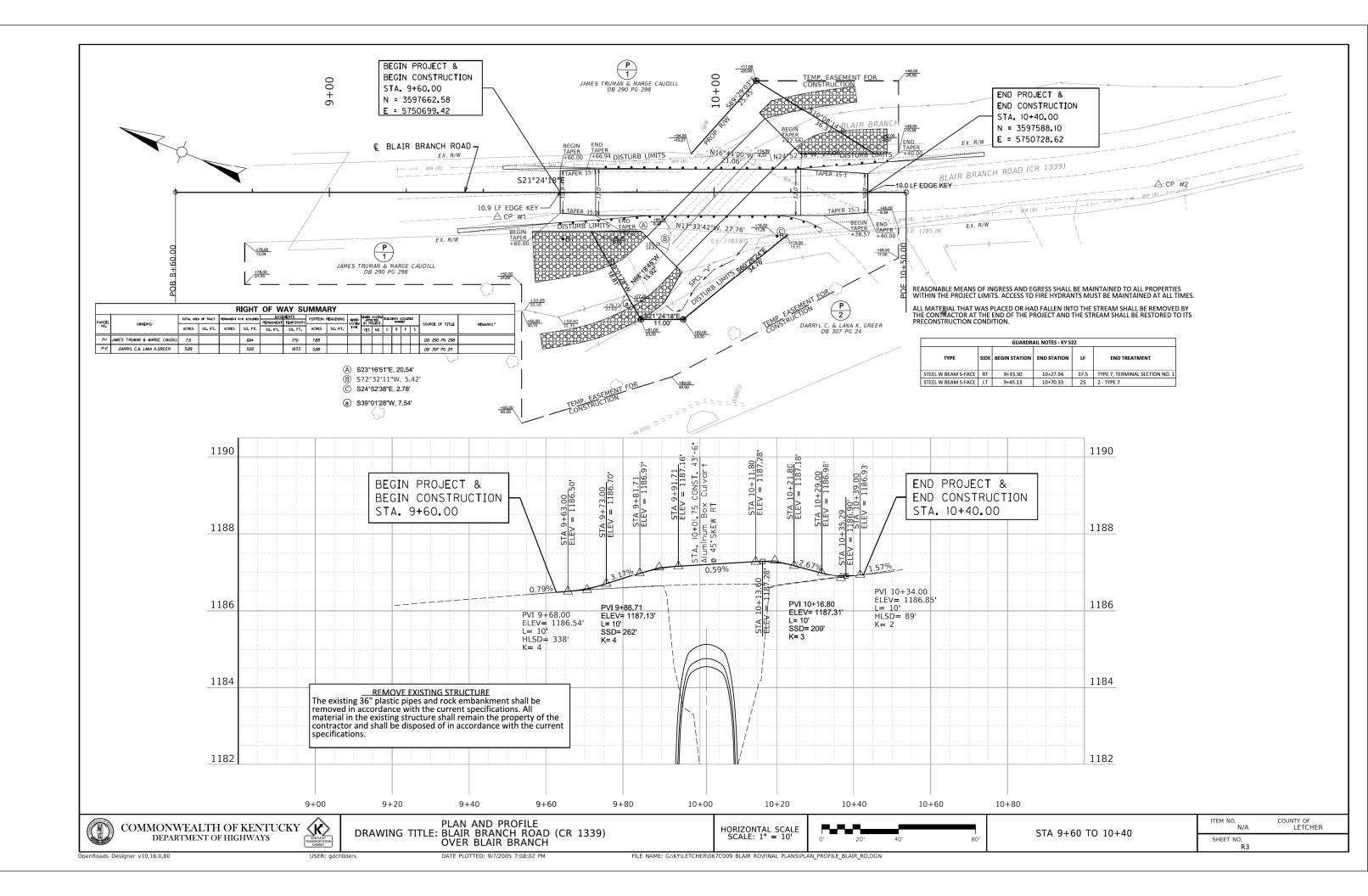
DATE PLOTTED: 9/7/2005 7:08:02 PM

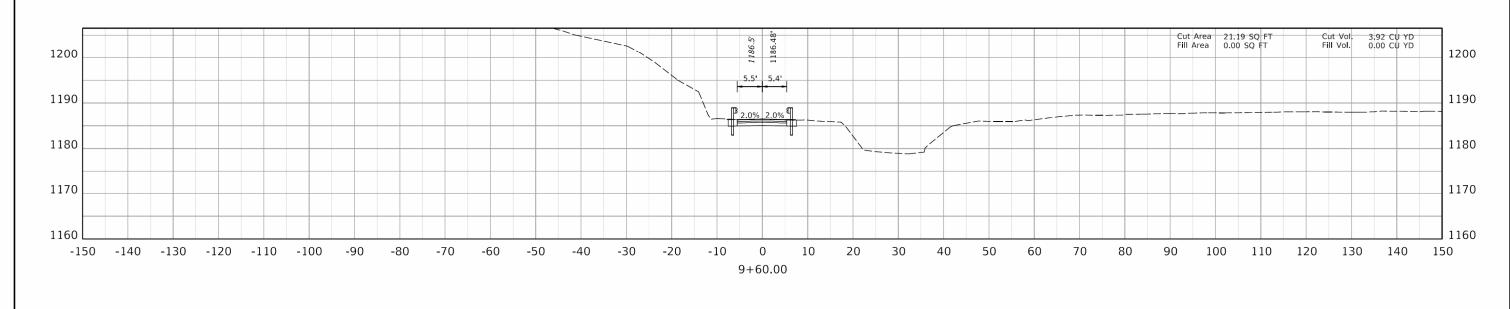
COUNTY OF LETCHER ITEM NO SHEET NO.

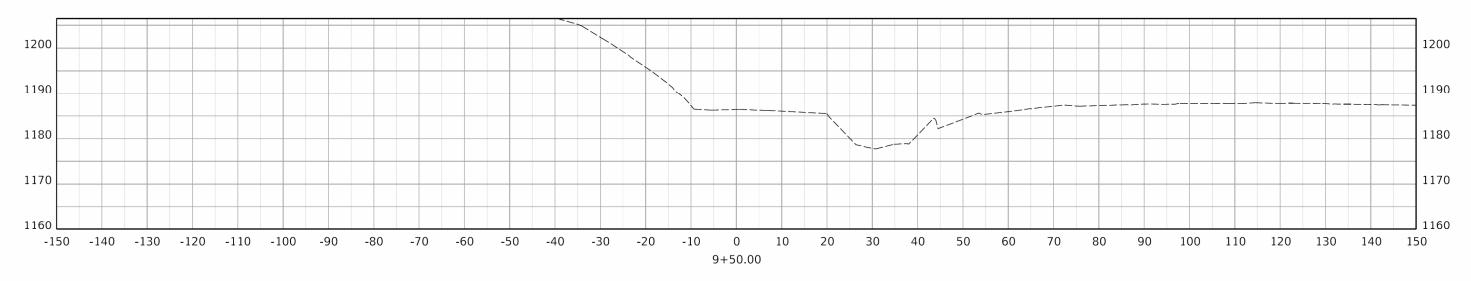
NORTH POINT

COMMONWEALTH OF KENTUCKY

DEPARTMENT OF HIGHWAYS







COMMONWEALTH OF KENTUCKY KENTUCKY DEPARTMENT OF HIGHWAYS

OpenRoads Designer v10.16.2.267

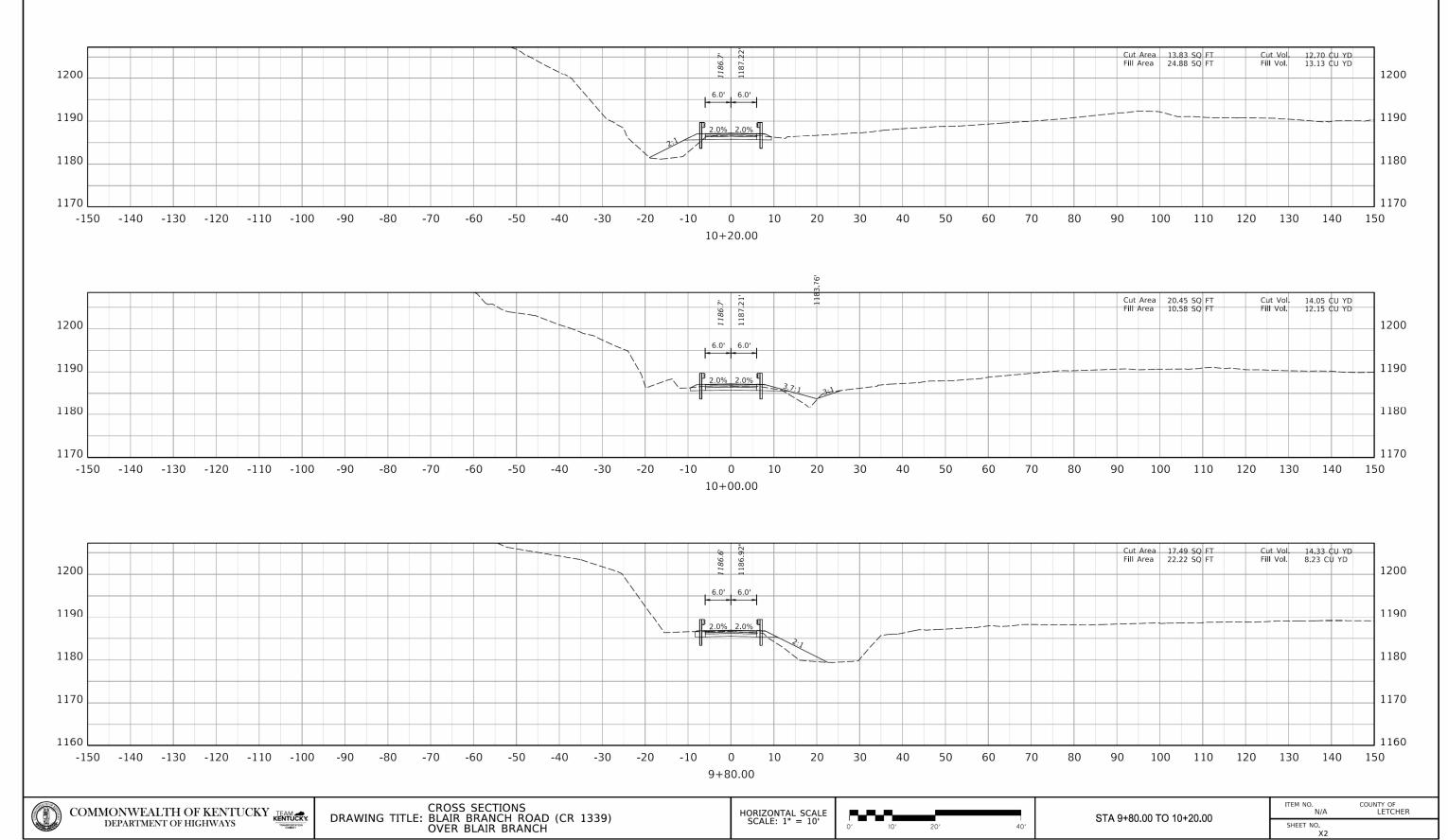
CROSS SECTIONS DRAWING TITLE: BLAIR BRANCH ROAD (CR 1339) OVER BLAIR BRANCH

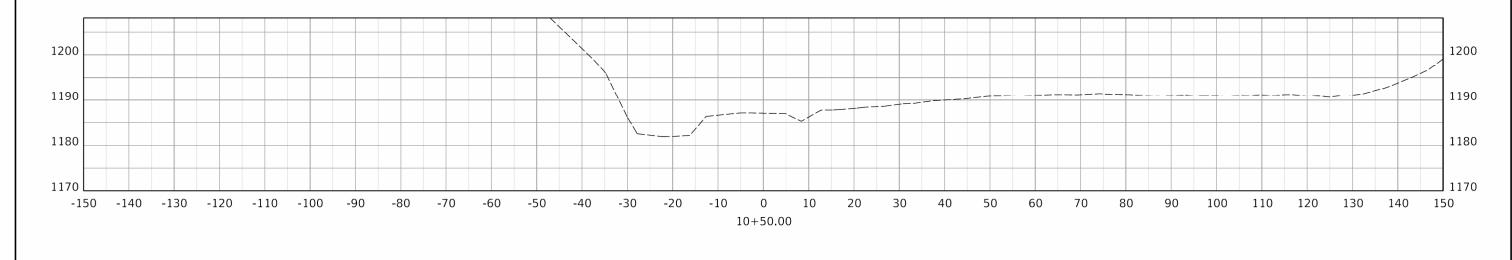
HORIZONTAL SCALE SCALE: 1" = 10')' 10' 20' 40'

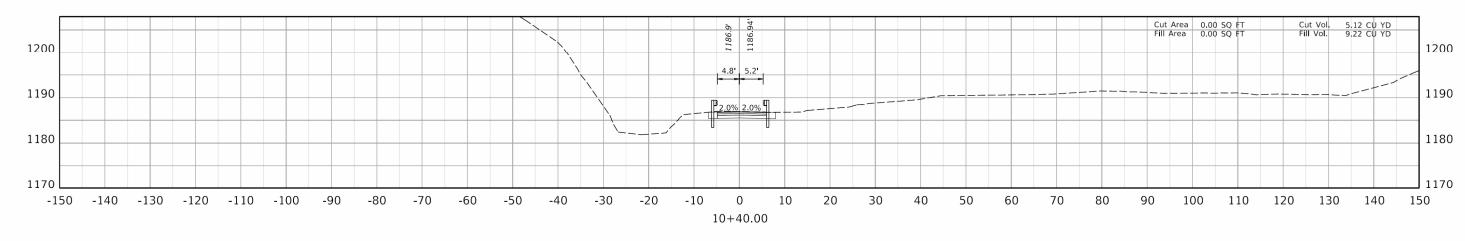
STA 9+50.00 TO 9+60.00

ITEM NO. COUNTY OF N/A LETCHER
SHEET NO.

USER: bivanchak







COMMONWEALTH OF KENTUCKY KENTUCKY DEPARTMENT OF HIGHWAYS

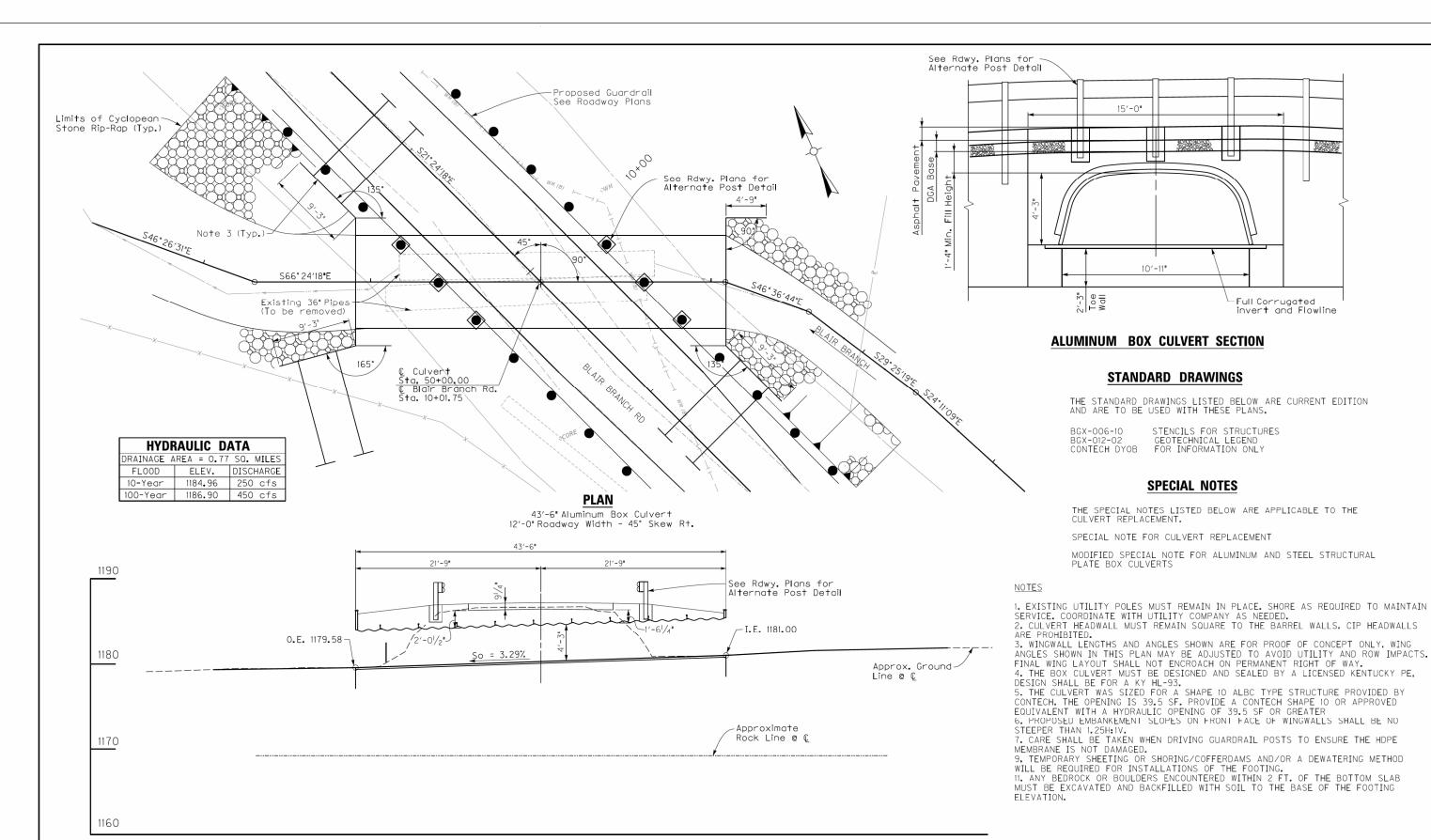
CROSS SECTIONS DRAWING TITLE: BLAIR BRANCH ROAD (CR 1339) OVER BLAIR BRANCH

HORIZONTAL SCALE SCALE: 1" = 10'

STA 10+40.00 TO 10+50.00

ITEM NO. N/A COUNTY OF LETCHER SHEET NO.

USER: bivanchak



SECTION ALONG & CULVERT



Drilling Firm: Kentucky Transportation Cabinet For: Division of Structural Design Geotechnical Branch

DRILLER'S SUBSURFACE LOG

Printed: 9/28/22

D: <u>067C00</u> mber:	<u>99</u>	<u>Letcher -</u> Project Type: <u>Structure Bridge</u> Project Manager: _							
Surface Elevation		Immediate Water DepthNA_ Static Water DepthNA_ DrillerDavidson, Cody_		Start Date <u>09/27/2022</u> End Date <u>09/27/2022</u> Latitude(83) Longitude(83)		- 1	Hole Type <u>sounding</u> Rig_Number		
ogy	-consens our	1255	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	
Depth	Description	on	Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	Remarks
0.3		Topsoil.							
	Medic	um stiff, brown, moist, sandy	clay.						
8.7									
	Se	oft, gray, very moist, silty cla	y.						
16.0			(Refusal)						
17.9		Gray shale, (medium hard).							
		(Bottom of Hole 17.9')							
		(Refusal @ 16)							
֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	mber: per _1 evation _' h _17.9' + 'Lt. pgy Depth 8.7	Der 1 evation ' h 17.9' + 'Lt. Depth Description Media 8.7	mber: per_f	mber: per_1	mber: per_1	mber: Der _1	mber: Project per 1 Immediate Water Depth NA Start Date 09/27/2022 evation ' Static Water Depth NA End Date 09/27/2022 h 17.9' Driller Davidson, Cody Latitude(83) Longitude(83) Longitude(83) Longitude(83) Depth Rock Core Std/Ky Run Rec (ft) Medium stiff, brown, moist, sandy clay. 8.7 Soft, gray, very moist, silty clay. (Refusal) 17.9 Gray shale, (medium hard).	mber: Project Manage	mber: Project Manager:

Drilling Firm: Kentucky Transportation Cabinet For: Division of Structural Design Geotechnical Branch

DRILLER'S SUBSURFACE LOG

Printed: 9/28/22

Page 1 of 1

LETCHER

Surface Elevation			Letcher - Project Type: Structure Bridge Project Manager: _					Bridge		
			Immediate Water Depth <u>NA</u> Static Water Depth <u>NA</u> Driller <u>Davidson, Cody</u>		End Da	ate <u>09/27/2</u> ate <u>09/27/2</u> e(83) ide(83)			Hole Type <u>soul</u> Rig_Number	nding_
Litholo	ogy	Description	on	Overburden	Sample No.	Depth (fl)	Rec.	SP ⁻ Blow	vs Type	Remarks
Elevation	Depth		Topsoil.	Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
- - - - -		Medium st	iff, brown, moist, sandy clay fragments.	with rock						_5
- 10 -	9.4	Soft, brown	n, wet, sandy clay with rock f	fragments.						10
15 -	14.9	Soft, gra	y, wet, silty clay with rock fra	aments						15
	17.4 18.0		Gray shale, sandy, (hard)	(Refusal)						
20 - - - 25			(Bottom of Hole 18.0') (Refusal @ 17.4)							<u>20</u> 2 <u>5</u>
- - 30 -										30
<u>35</u> -										31
- 40 - -										4 <u>(</u>
45 - -										45
50										50

COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS	KENTI TRANSPO CABI

OpenRoads Designer v10.16.2.267

^	REV	/ISION	DATE
(K)			
KENTUCKY			
CABINET			
USER: \$\$\$	SUSER\$\$\$\$	DATE PLOTTE	D: \$\$\$\$DATE



DATE: 2/7/2024	CHECKED BY	SUBSURFACE DATA	ROUTE	ITEM NO.
DESIGNED BY:		3023077702		
DESIGNED BY.		CROSSING	CR 1339	SHEET NO.
DETAILED BY: Greg Crank		BLAIR BRANCH	CIV 1555	S2

DATE PLOTTED: \$\$\$\$DATE\$\$\$\$ FILE NAME: \$\$\$\$design\$file\$specification\$\$\$\$