



CALL NO. 402

CONTRACT ID. 191065

BREATHITT - PERRY COUNTIES

FED/STATE PROJECT NUMBER 121GR19D065 - FD04

DESCRIPTION JACKSON-HAZARD ROAD(KY-15)

WORK TYPE ASPHALT PAVEMENT & ROADWAY REHAB

PRIMARY COMPLETION DATE 10/1/2020

LETTING DATE: October 25,2019

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME October 25,2019. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

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PART I

SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 10

CONTRACT ID - 191065
121GR19D065 - FD04
COUNTY - BREATHITT
PCN - DE01300151965
FD04 013 0015 000-016

JACKSON-HAZARD ROAD(KY-15) (MP 19.8) PAVEMENT REHABILITATION ON KY-15 FROM MP 19.8 TO MP 20.7 IN BREATHITT COUNTY (MP 20.7), A DISTANCE OF 0.90 MILES.ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 10-20018.00.
GEOGRAPHIC COORDINATES LATITUDE 37:32:00.00 LONGITUDE 83:18:00.00

COUNTY - PERRY
PCN - DE09700151965
FD04 097 0015 017-025

JACKSON-HAZARD ROAD(KY-15) (MP 17.1) PAVEMENT REHABILITATION ON KY-15 FROM MP 17.1 TO MP 17.7 IN PERRY COUNTY (MP 17.7), A DISTANCE OF 0.60 MILES.ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 10-20018.00.
GEOGRAPHIC COORDINATES LATITUDE 37:13:00.00 LONGITUDE 83:12:00.00

COMPLETION DATE(S):
COMPLETED BY 10/01/2020 APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's electronic bidding software. The Bidder must download the bid file located on the Bid Express website (www.bidx.com) to prepare a bid packet for submission to the Department. The bidder must submit electronically using Bid Express.

JOINT VENTURE BIDDING

Joint venture bidding is permissible. All companies in the joint venture must be prequalified in one of the work types in the Qualifications for Bidders for the project. The bidders must get a vendor ID for the joint venture from the Division of Construction Procurement and register the joint venture as a bidder on the project. Also, the joint venture must obtain a digital ID from Bid Express to submit a bid. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. When prescribed in said directives, the contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom shall be contacted through their individual Protection Notification Center. Non-compliance with these directives can result in the enforcement of penalties.

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

Pursuant to KRS 176.085(1)(b), an agency, department, office, or political subdivision of the Commonwealth of Kentucky shall not award a state contract to a person that is a foreign entity required by [KRS 14A.9-010](#) to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under [KRS 14A.9-030](#) unless the person produces the certificate within fourteen (14) days of the bid or proposal opening. If the foreign entity is not required to obtain a certificate as provided in [KRS 14A.9-010](#), the foreign entity should identify the applicable exception. Foreign entity is defined within [KRS 14A.1-070](#).

For all foreign entities required to obtain a certificate of authority to transact business in the Commonwealth, if a copy of the certificate is not received by the contracting agency within the time frame identified above, the foreign entity's solicitation response shall be deemed non-responsive or the awarded contract shall be cancelled.

Businesses can register with the Secretary of State at <https://secure.kentucky.gov/sos/ftbr/welcome.aspx>.

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

Questions about projects during the advertisement should be submitted in writing to the Division of Construction Procurement. This may be done by fax (502) 564-7299 or email to kytc.projectquestions@ky.gov. The Department will attempt to answer all submitted questions. The Department reserves the right not to answer if the question is not pertinent or does not aid in clarifying the project intent.

The deadline for posting answers will be 3:00 pm Eastern Daylight Time, the day preceding the Letting. Questions may be submitted until this deadline with the understanding that the later a question is submitted, the less likely an answer will be able to be provided.

The questions and answers will be posted for each Letting under the heading "Questions & Answers" on the Construction Procurement website (www.transportation.ky.gov/contract). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

HARDWOOD REMOVAL RESTRICTIONS

The US Department of Agriculture has imposed a quarantine in Kentucky and several surrounding states, to prevent the spread of an invasive insect, the emerald ash borer. Hardwood cut in conjunction with the project may not be removed from the state. Chipping or burning on site is the preferred method of disposal.

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

Identification of excess material sites and borrow sites shall be the responsibility of the Contractor. The Contractor shall be responsible for compliance with all applicable state and federal laws and may wish to consult with the US Fish and Wildlife Service to seek protection under Section 10 of the Endangered Species Act for these activities.

ACCESS TO RECORDS

The contractor, as defined in KRS 45A.030 (9) agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Records and other prequalification information confidentially

disclosed as part of the bid process shall not be deemed as directly pertinent to the contract and shall be exempt from disclosure as provided in KRS 61.878(1)(c). The contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884.

In the event of a dispute between the contractor and the contracting agency, Attorney General, or the Auditor of Public Accounts over documents that are eligible for production and review, the Finance and Administration Cabinet shall review the dispute and issue a determination, in accordance with Secretary's Order 11-004.

April 30, 2018

SPECIAL NOTE FOR RECIPROCAL PREFERENCE

RECIPROCAL PREFERENCE TO BE GIVEN BY PUBLIC AGENCIES TO RESIDENT BIDDERS

By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the electronic bidding software. Submittal of the Affidavit should be done along the bid in Bid Express.

April 30, 2018

ASPHALT MIXTURE

Unless otherwise noted, the Department estimates the rate of application for all asphalt mixtures to be 110 lbs/sy per inch of depth.

DGA BASE

Unless otherwise noted, the Department estimates the rate of application for DGA Base to be 115 lbs/sy per inch of depth.

DGA BASE FOR SHOULDERS

Unless otherwise noted, the Department estimates the rate of application for DGA Base for Shoulders to be 115 lbs/sy per inch of depth. The Department will not measure necessary grading and/or shaping of existing shoulders prior to placing of DGA Base, but shall be incidental to the Contract unit price per ton for DGA Base.

Accept payment at the Contract unit price per ton as full compensation for all labor, materials, equipment, and incidentals for grading and/or shaping of existing shoulders and furnishing, placing, and compacting the DGA Base.

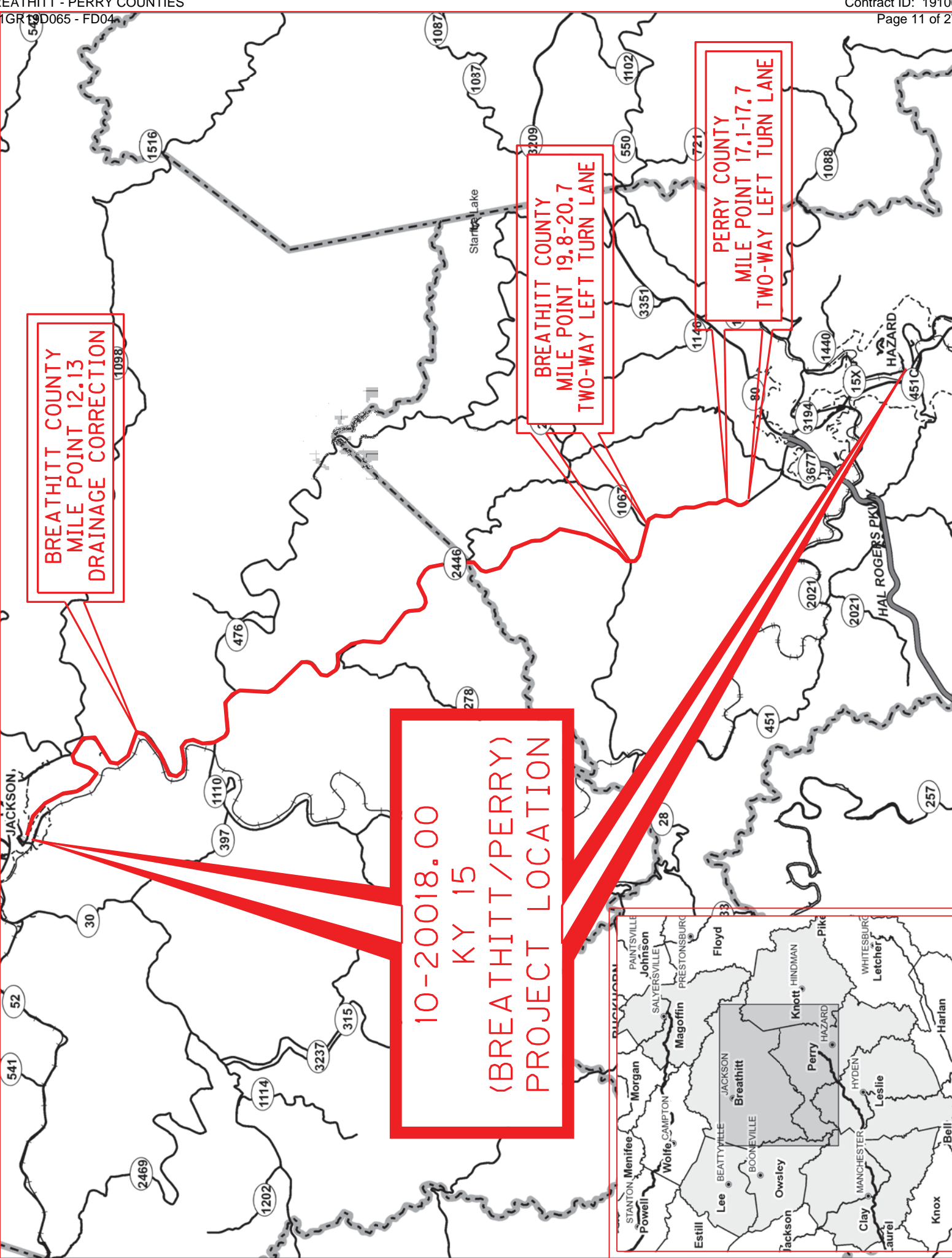
INCIDENTAL SURFACING

The Department has included in the quantities of asphalt mixtures established in the proposal estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, curve widening, ramp gores and tapers, and road and street approaches, as applicable. Pave these areas to the limits as shown on Standard Drawing RPM-110-06 or as directed by the Engineer. In the event signal detectors are present in the intersecting streets or roads, pave the crossroads to the right of way limit or back of the signal detector, whichever is the farthest back of the mainline. Surface or resurface these areas as directed by the Engineer. The Department will not measure placing and compacting for separate payment but shall be incidental to the Contract unit price for the asphalt mixtures.

FUEL AND ASPHALT PAY ADJUSTMENT

The Department has included the Contract items Asphalt Adjustment and Fuel Adjustment for possible future payments at an established Contract unit price of \$1.00. The Department will calculate actual adjustment quantities after work is completed. If existing Contract amount is insufficient to pay all items on the contract with the adjustments, the Department will establish additional monies with a change order.

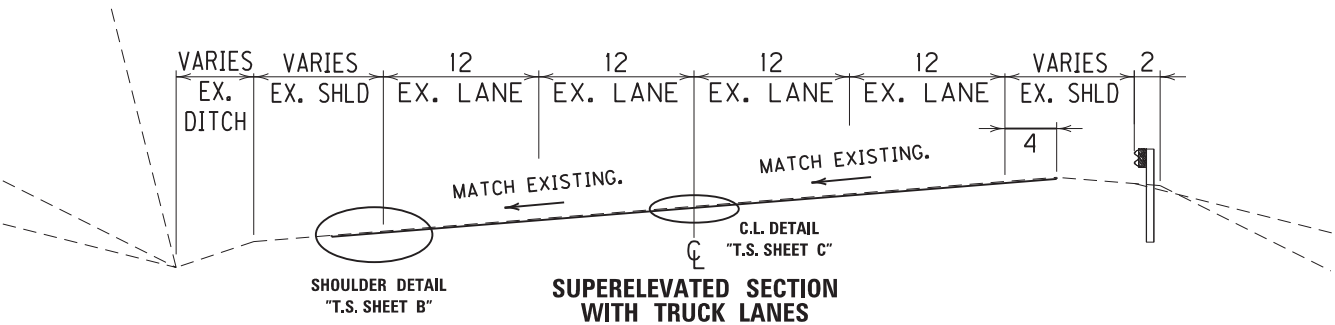
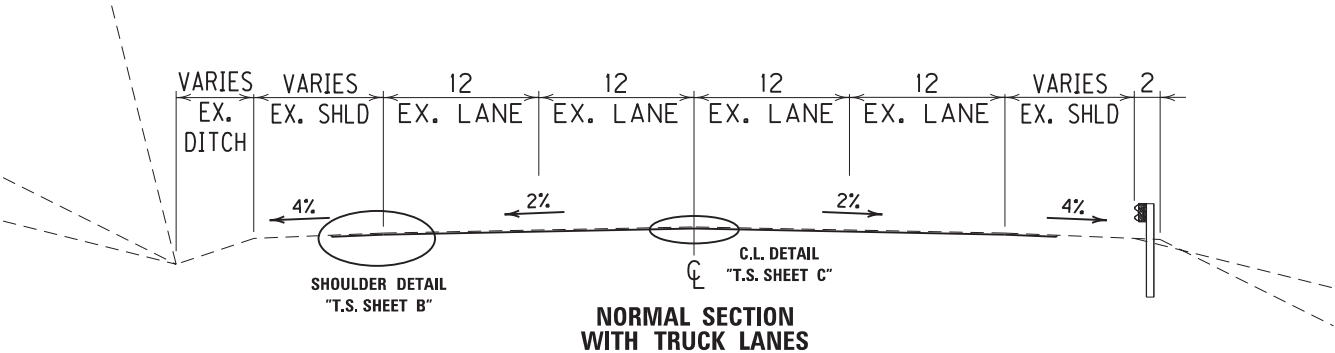
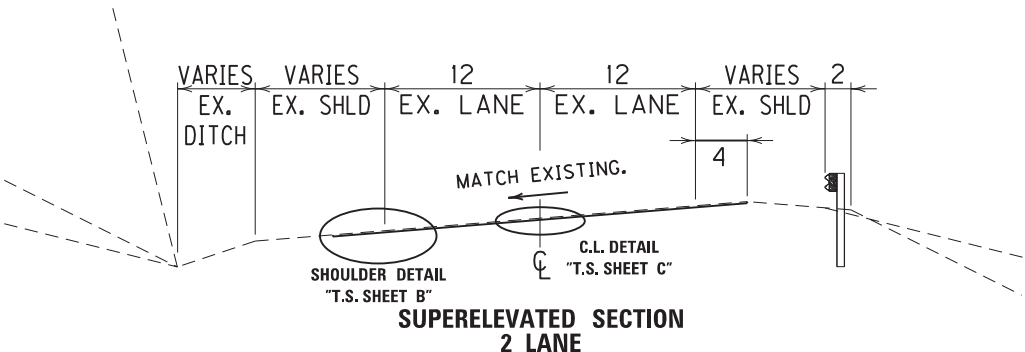
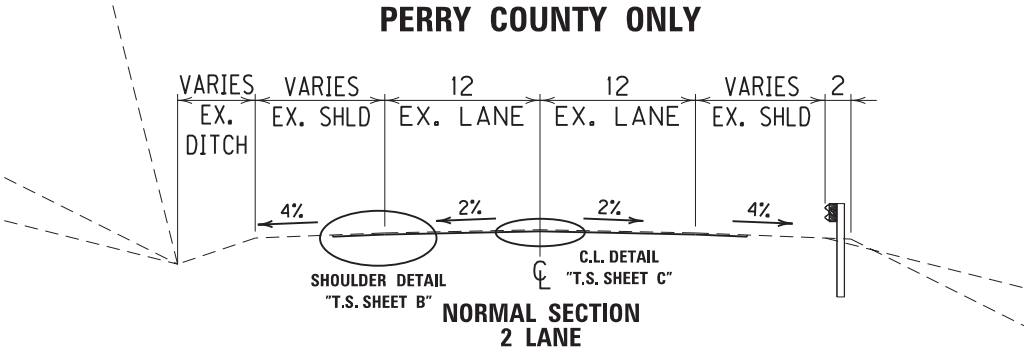
BREATHITT/PERRY COUNTY
KENTUCKY 15
JACKSON TO HAZARD
(BREATHITT M.P. 0.0 – M.P. 15.9
PERRY COUNTY M.P. 17 - M.P. 25.18)
PAVEMENT REHABILITATION
AND SAFETY IMPROVEMENTS
ITEM #: 10-20018.00
PROJECT #: FD04 013 0015 000-016
FD04 097 0015 017-025



TYPICAL SECTION
SHEET A

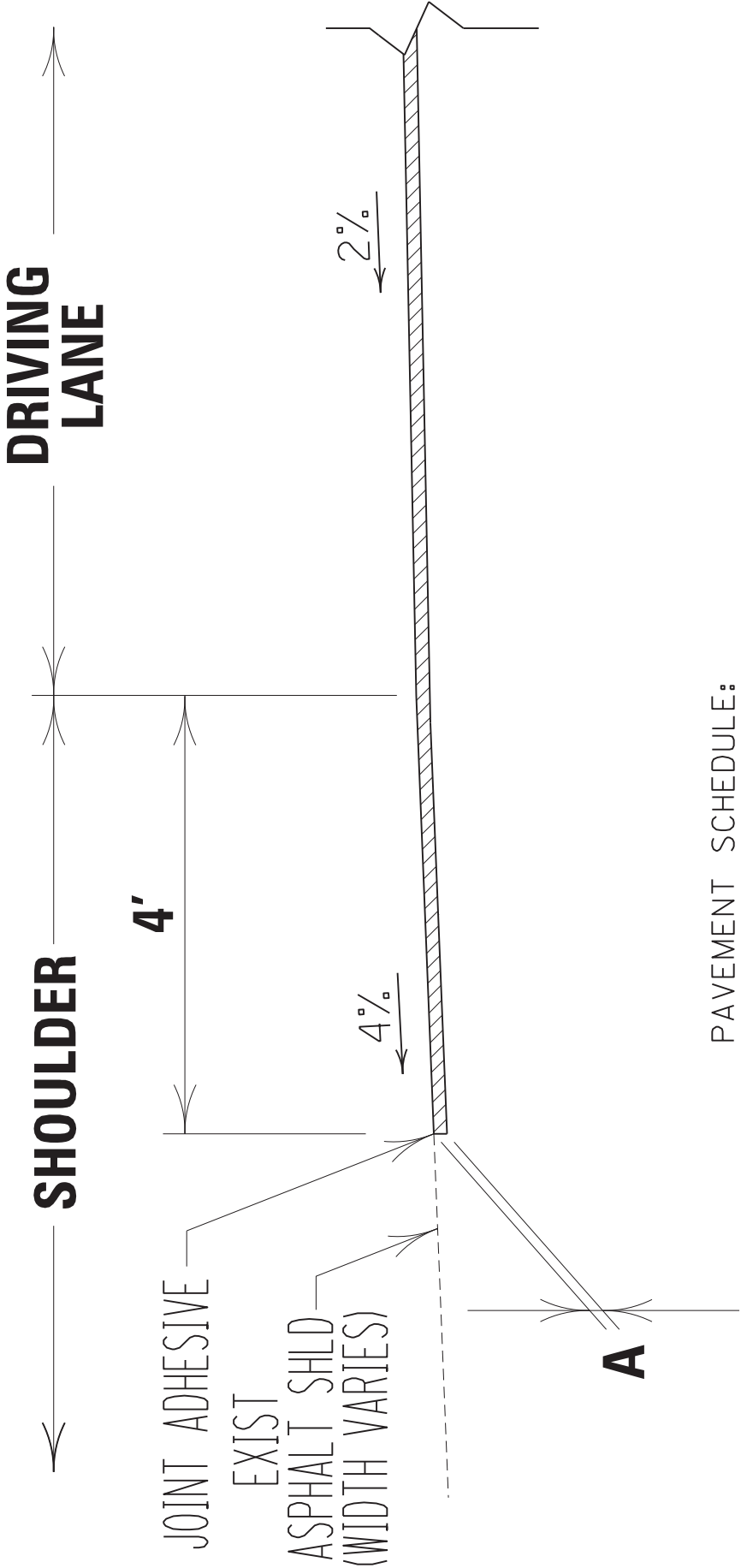
PERRY COUNTY
TYPICAL SECTIONS
ITEM 10-20018.00

ASPHALT MILLING/RESURFACING
TYPICAL SECTIONS
KENTUCKY 15
PERRY COUNTY ONLY



**PERRY COUNTY
PAVE. SHLD DETAIL
ITEM 10-20018.00**

FINAL ASPHALT SURFACE SHALL MATCH EXISTING
PAVEMENT CROSS-SLOPE.
FOG SEAL TO BE APPLIED OVER EXISTING SHOULDERS
(OUTER REMAINING) AS DIRECTED BY THE ENGINEER.



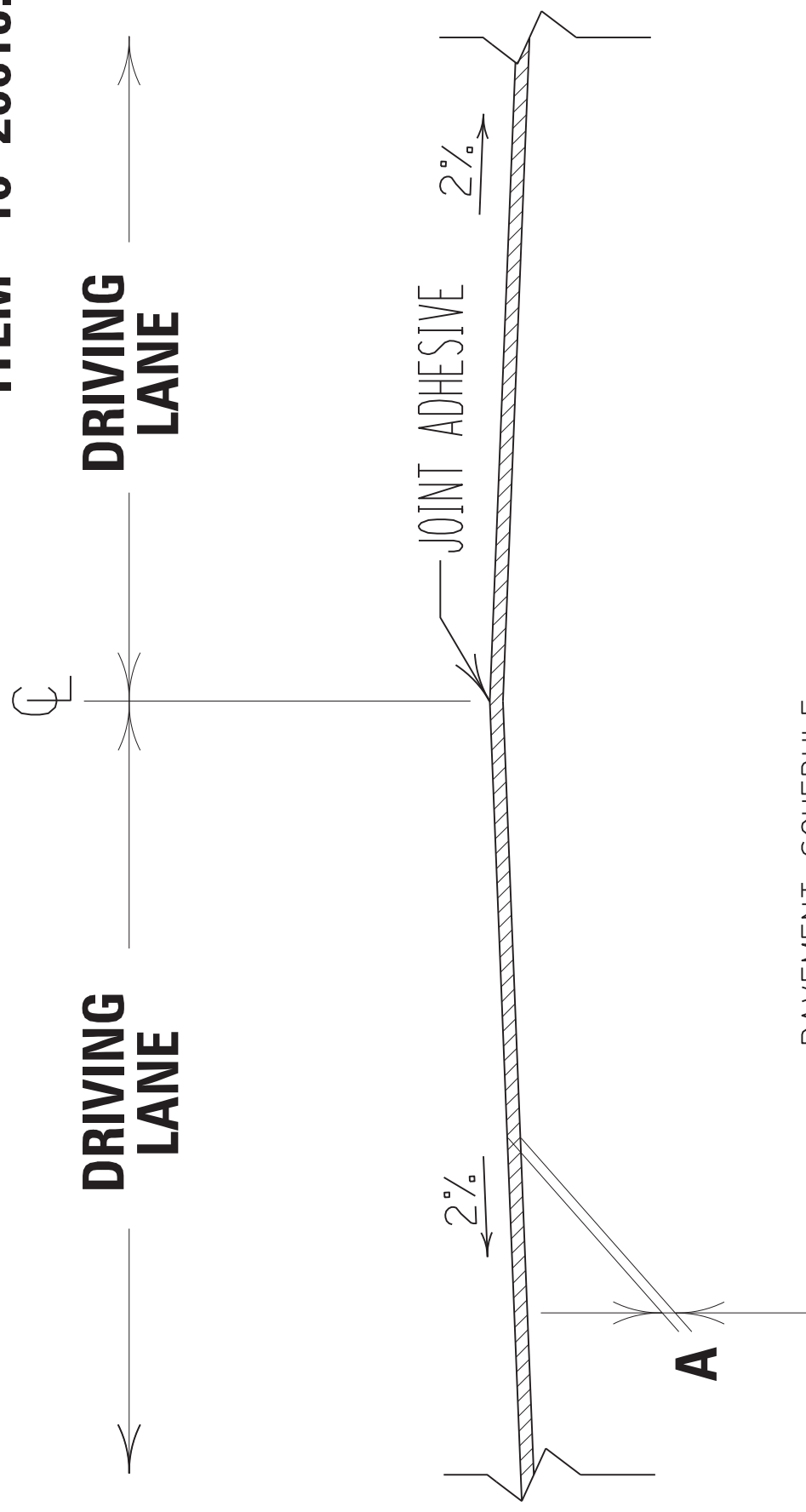
PAVEMENT SCHEDULE:

- A. MILL 1.5 INCHES DEEP AND REPLACE WITH ASPHALT SURFACE
DRIVING LANES - 1.5" CL3 ASPH SURF. 0.38B PG 76-22
SHOULDERS - 1.5" CL2 ASPH SURF. 0.38B PG 76-22

**TYPICAL SECTION
SHEET B**

**PERRY COUNTY
PAVE C.L. DETAIL
ITEM 10-20018.00**

FINAL ASPHALT SURFACE SHALL MATCH EXISTING
PAVEMENT CROSS-SLOPE AND CROWN.



PAVEMENT SCHEDULE:

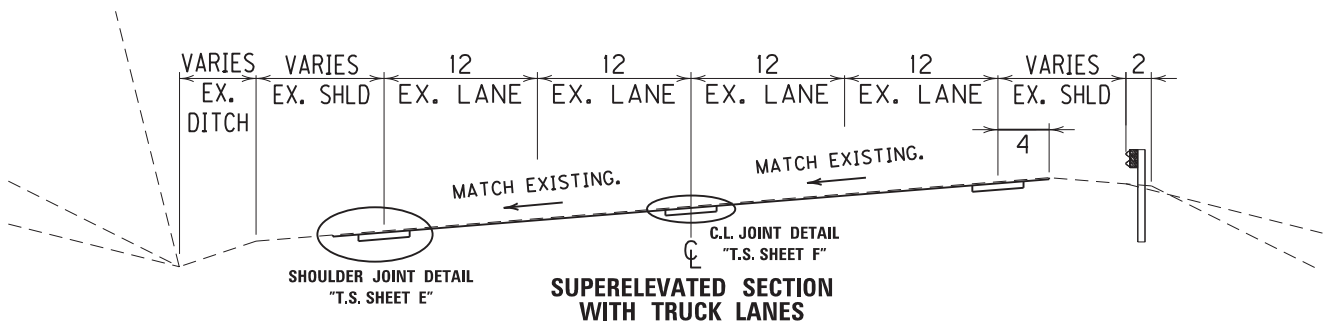
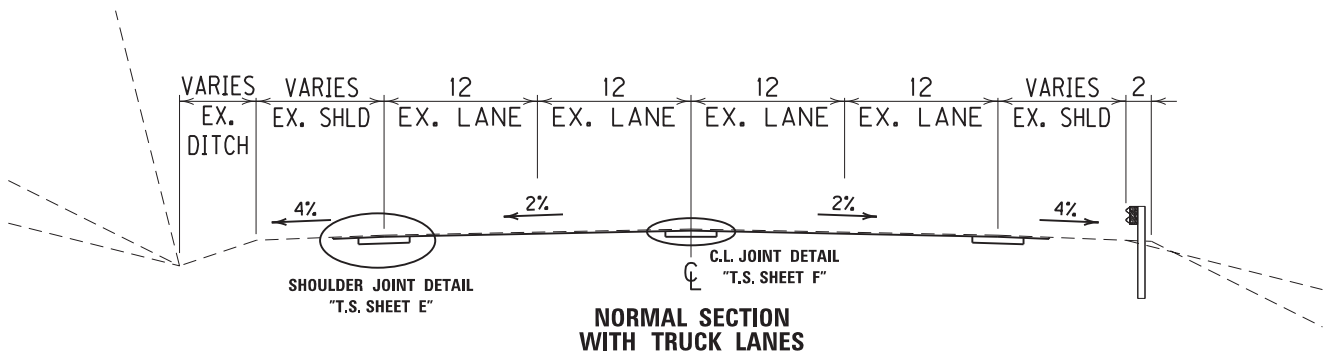
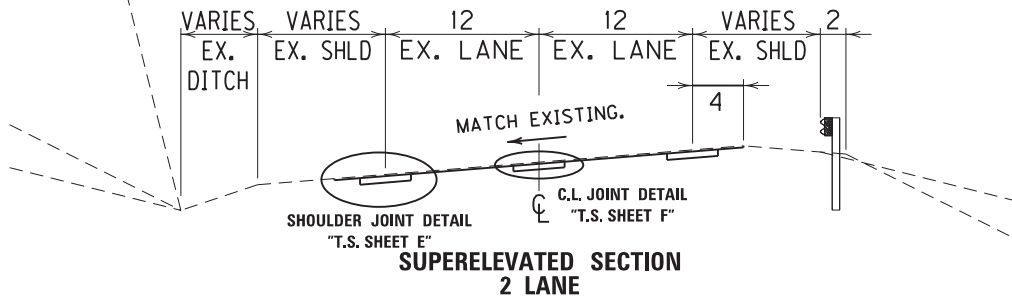
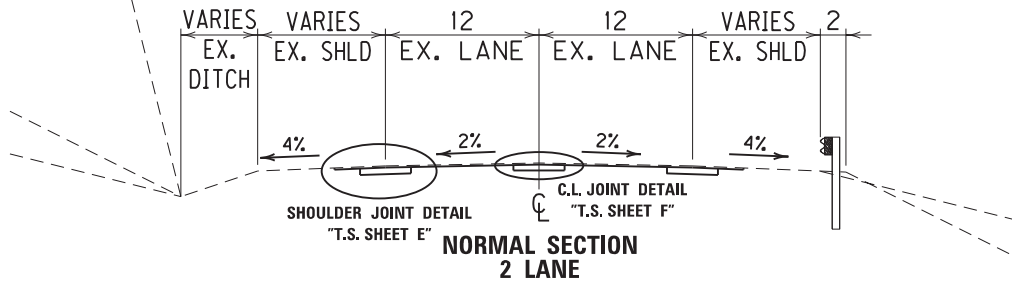
- A. MILL 1.5 INCHES DEEP AND REPLACE WITH ASPHALT SURFACE
(DRIVING LANES - 1.5" CL3 ASPH SURF. 0.38B PG 76-22)

**TYPICAL SECTION
SHEET C**

TYPICAL SECTION SHEET D

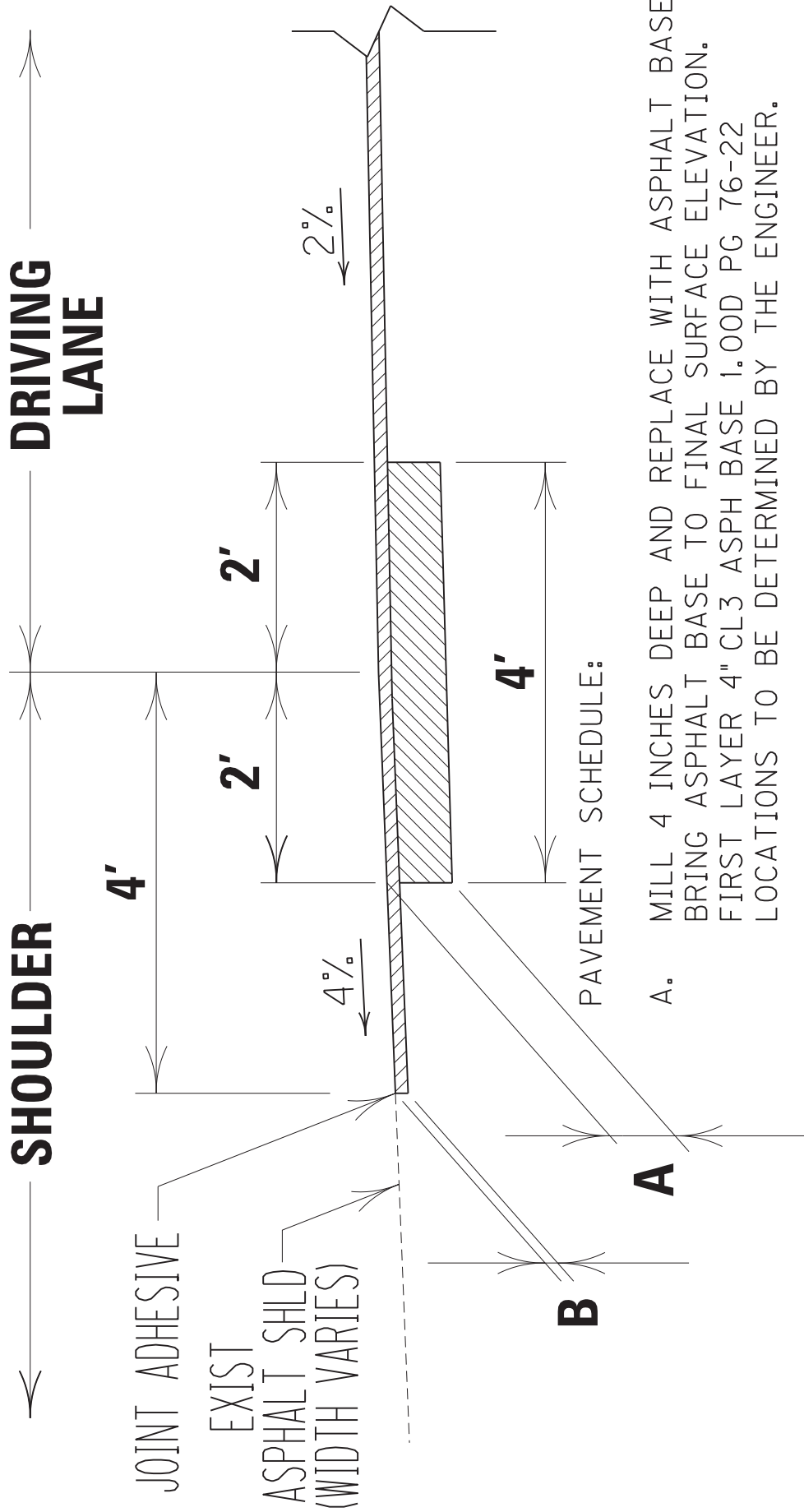
PERRY COUNTY TYPICAL SECTIONS ITEM 10-20018.00

SHLD & C.L. JOINT REPAIR TYPICAL SECTIONS KENTUCKY 15 PERRY COUNTY ONLY



**BREATHITT COUNTY
PERRY COUNTY
SHOULDER JOINT REPAIR
ITEM 10-20018.00**

THE CONTRACTOR SHALL USE 4-FOOT MILLING HEAD AND ROLLER ON JOINT REPAIRS.
FINAL ASPHALT SURFACE SHALL MATCH EXISTING PAVEMENT CROSS-SLOPE.
FOG SEAL TO BE APPLIED OVER EXISTING SHOULDERS (OUTER REMAINING) AS DIRECTED BY THE ENGINEER.



PAVEMENT SCHEDULE:

- A. MILL 4 INCHES DEEP AND REPLACE WITH ASPHALT BASE. BRING ASPHALT BASE TO FINAL SURFACE ELEVATION. FIRST LAYER 4" CL3 ASPH BASE 1.00D PG 76-22 LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- B. MILL 1.5 INCHES DEEP AND REPLACE WITH ASPHALT SURFACE (1.5" CL3 ASPH SURF. 0.38B PG 76-22)

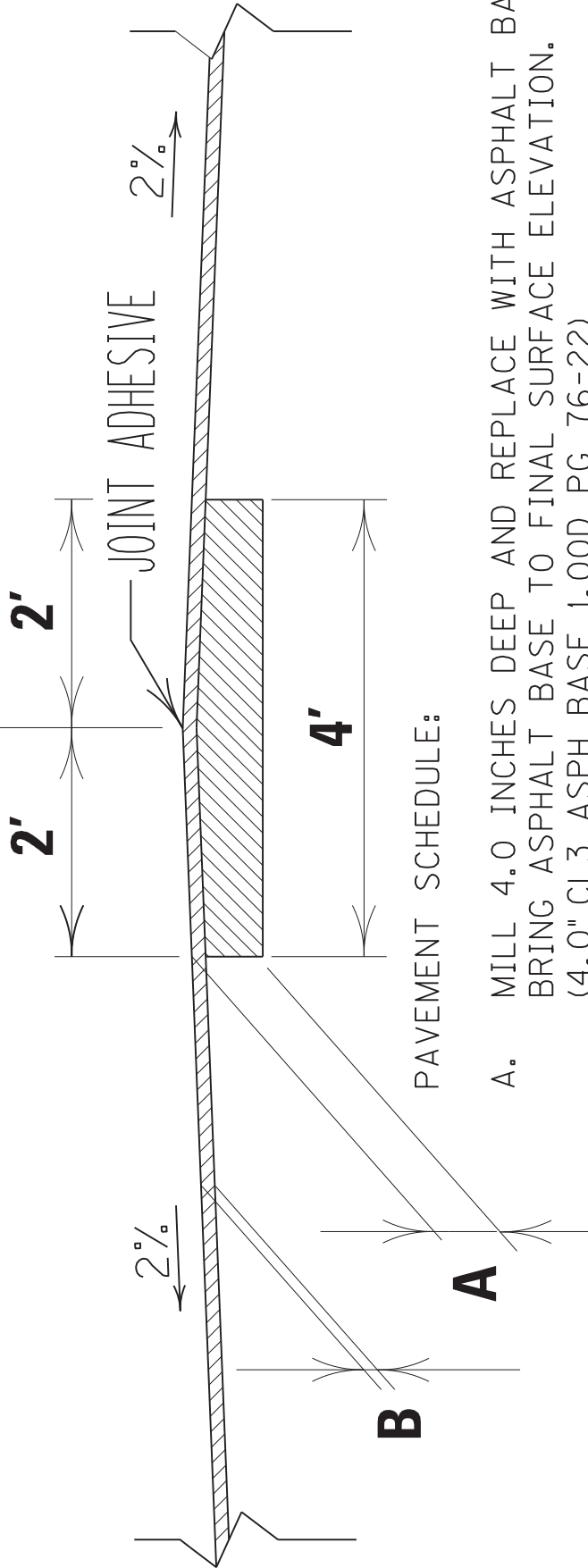
**TYPICAL SECTION
SHEET E**

THE CONTRACTOR SHALL USE 4-FOOT MILLING HEAD
AND ROLLER ON JOINT REPAIRS.
FINAL ASPHALT SURFACE SHALL MATCH EXISTING
PAVEMENT CROSS-SLOPE AND CROWN.

**BREATHITT COUNTY
PERRY COUNTY
CENTERLINE JOINT REPAIR
ITEM 10-20018.00**

**DRIVING
LANE**

**DRIVING
LANE**



PAVEMENT SCHEDULE:

- A. MILL 4.0 INCHES DEEP AND REPLACE WITH ASPHALT BASE.
BRING ASPHALT BASE TO FINAL SURFACE ELEVATION.
(4.0" CL3 ASPH BASE 1.00D PG 76-22)
LOCATIONS TO BE DETERMINED BY THE ENGINEER.

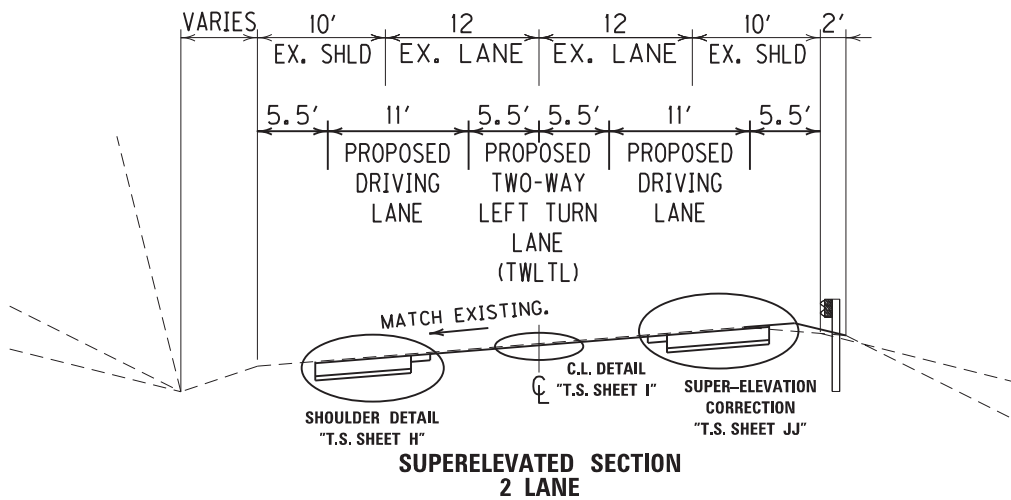
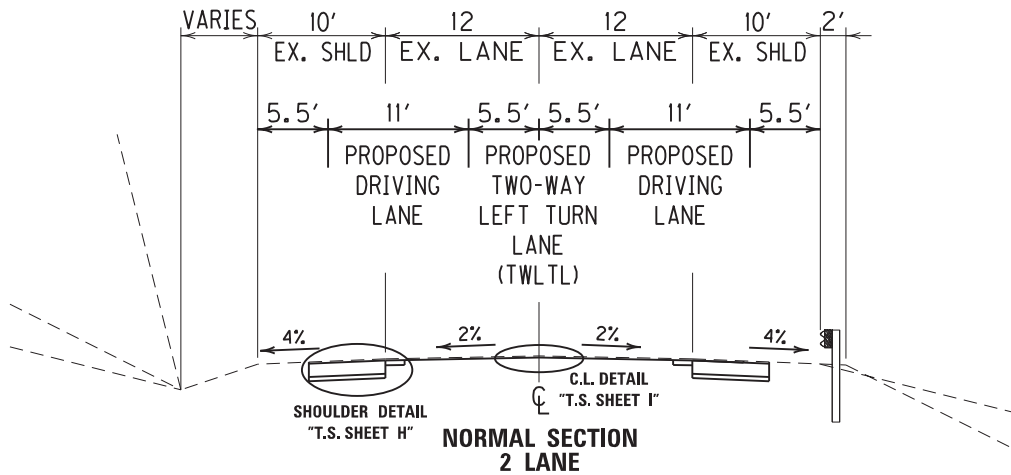
- B. MILL 1.5 INCHES DEEP AND REPLACE WITH ASPHALT SURFACE
(1.5" CL3 ASPH SURF. 0.38B PG 76-22)
PAVEMENT SCHEDULE A OF JOINT REPAIRS SHALL BE COMPLETED
14 DAYS PRIOR TO OTHER ASPHALT MILLING OPERATION.
LOCATIONS TO BE DETERMINED BY THE ENGINEER.

**TYPICAL SECTION
SHEET F**

TYPICAL SECTION SHEET G

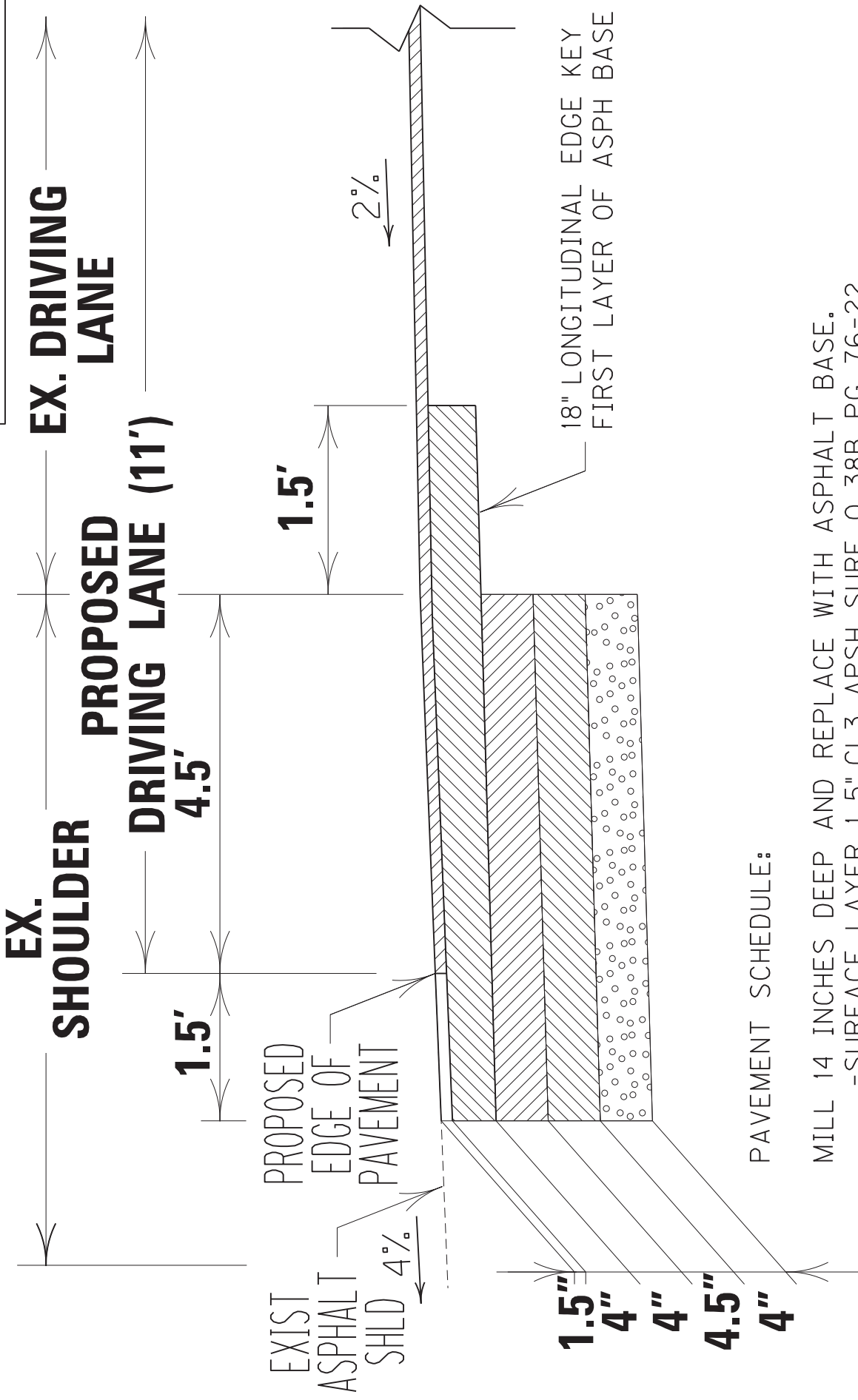
PERRY COUNTY SITE 2 (MP 19.8 - MP 20.7) TYPICAL SECTIONS ITEM 10-20018.00

PERRY COUNTY SITE 2 (MP 19.8 - MP 20.7) TYPICAL SECTIONS KENTUCKY 15



PERRY COUNTY – SITE 2 **FULL-DEPTH SHOULDER DETAIL** **ITEM 10-20018.00**

TYPICAL SECTION **SHEET H**



PAVEMENT SCHEDULE:

MILL 14 INCHES DEEP AND REPLACE WITH ASPHALT BASE.

-SURFACE LAYER 1.5" CL3 APSPH SURF 0.38B PG 76-22

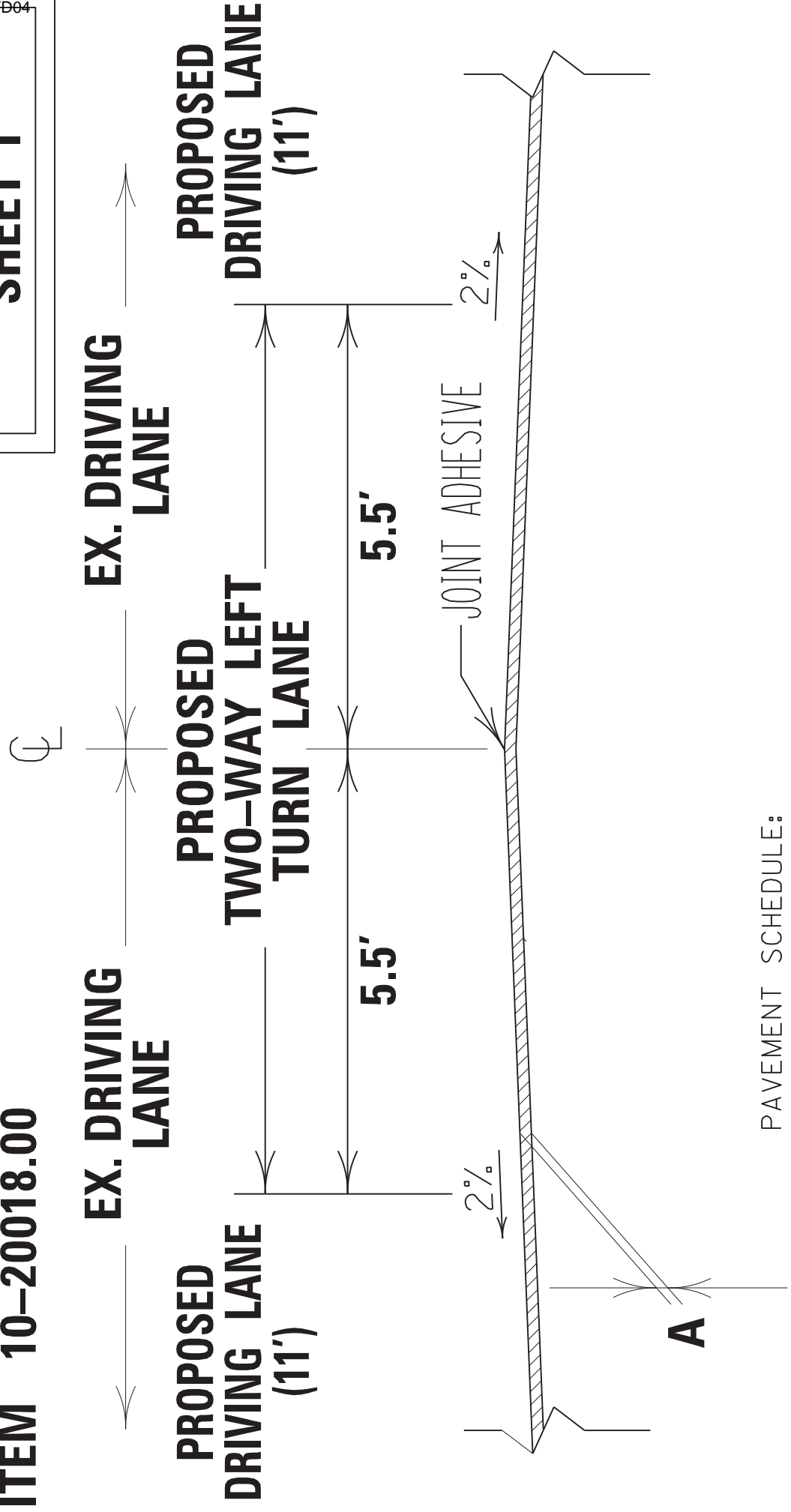
-FIRST BASE LAYER 4" CL3 ASPH BASE 1.00D PG 76-22

-BOTTOM BASE LAYERS - 4" + 4.5" CL3 ASPH BASE 1.00D PG 64-22

-4" DGA BASE

**PERRY COUNTY - SITE 2
CENTERLINE DETAIL
ITEM 10-20018.00**

**TYPICAL SECTION
SHEET 1**

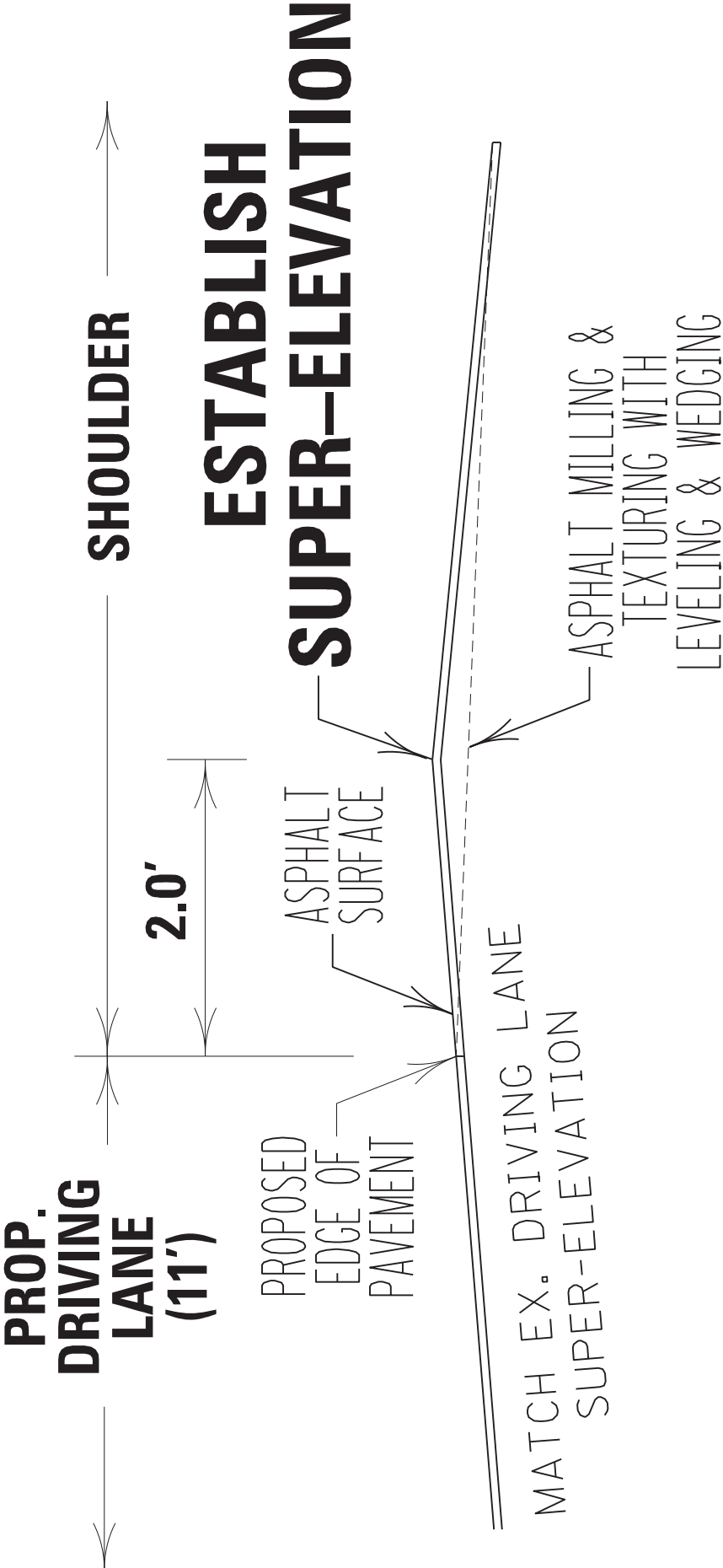


PAVEMENT SCHEDULE:

- A. MILL 1.5 INCHES DEEP AND REPLACE WITH ASPHALT SURFACE
(1.5" CL3 ASPH SURF. 0.38B PG 76-22)

PERRY COUNTY - SITE 2
SUPER-ELEVATION CORRECTION
ITEM 10-20018.00

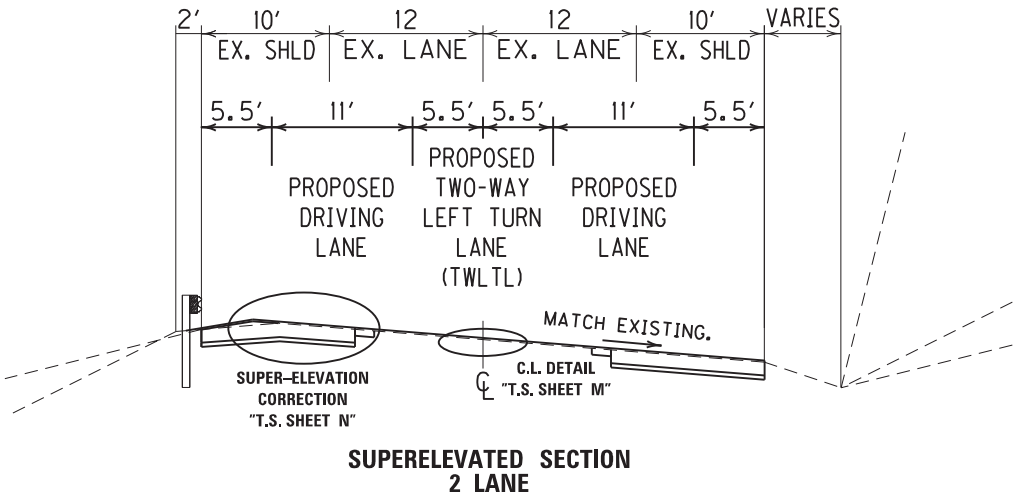
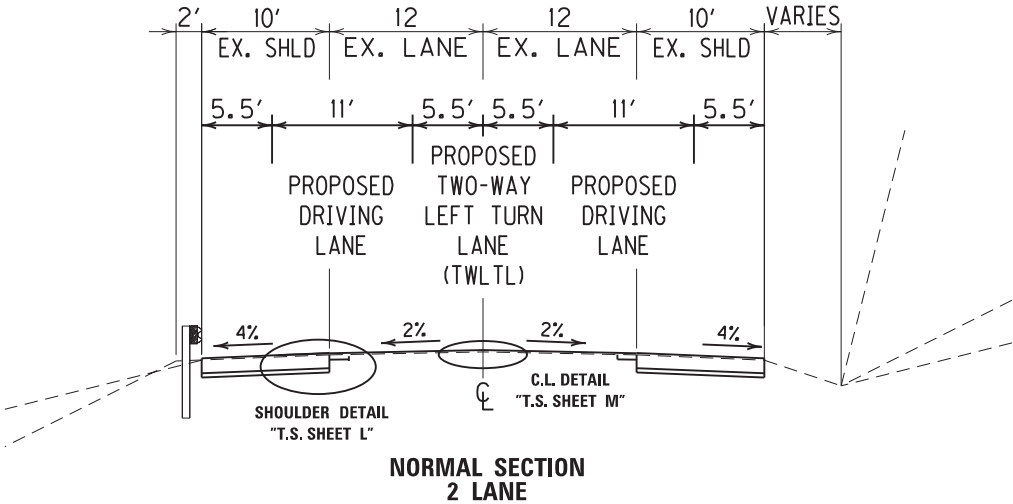
TYPICAL SECTION
SHEET J



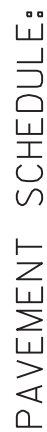
TYPICAL SECTION
SHEET K

PERRY COUNTY
SITE 3
(MP 17.1 – MP 17.7)
TYPICAL SECTIONS
ITEM 10-20018.00

PERRY COUNTY SITE 3
(MP 17.1 – MP 17.7)
TYPICAL SECTIONS
KENTUCKY 15



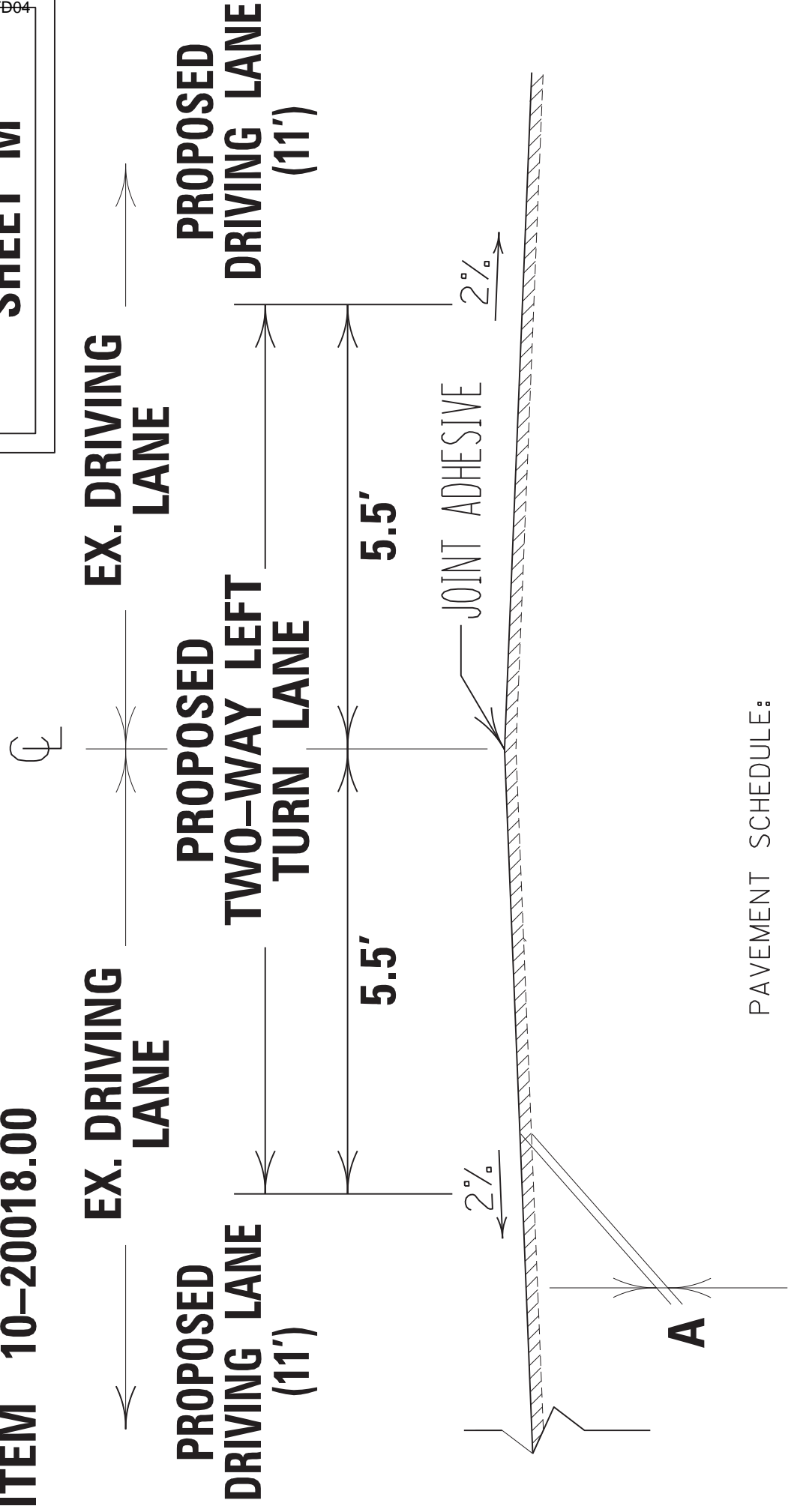
TYPICAL SECTION SHEET L



- A. FULL-WIDTH SHOULDER ONLY (MAXIMUM OF 10 FT)
MILL 12.5 INCHES DEEP AND REPLACE WITH ASPHALT BASE. BRING
ASPHALT BASE TO FINAL SURFACE ELEVATION.
(FIRST BASE LAYER 4" CL3 ASPH BASE 1.00D PG 76-22
BOTTOM BASE LAYERS - 4" +4.5" CL3 ASPH BASE 1.00D PG 64-22
4" DGA BASE)
B. OVERLAY - SURFACE LAYER 1.5" CL3 APSPH SURF 0.38A PG 76-22

PERRY COUNTY - SITE 3
CENTERLINE DETAIL
ITEM 10-20018.00

TYPICAL SECTION
SHEET M



PAVEMENT SCHEDULE:

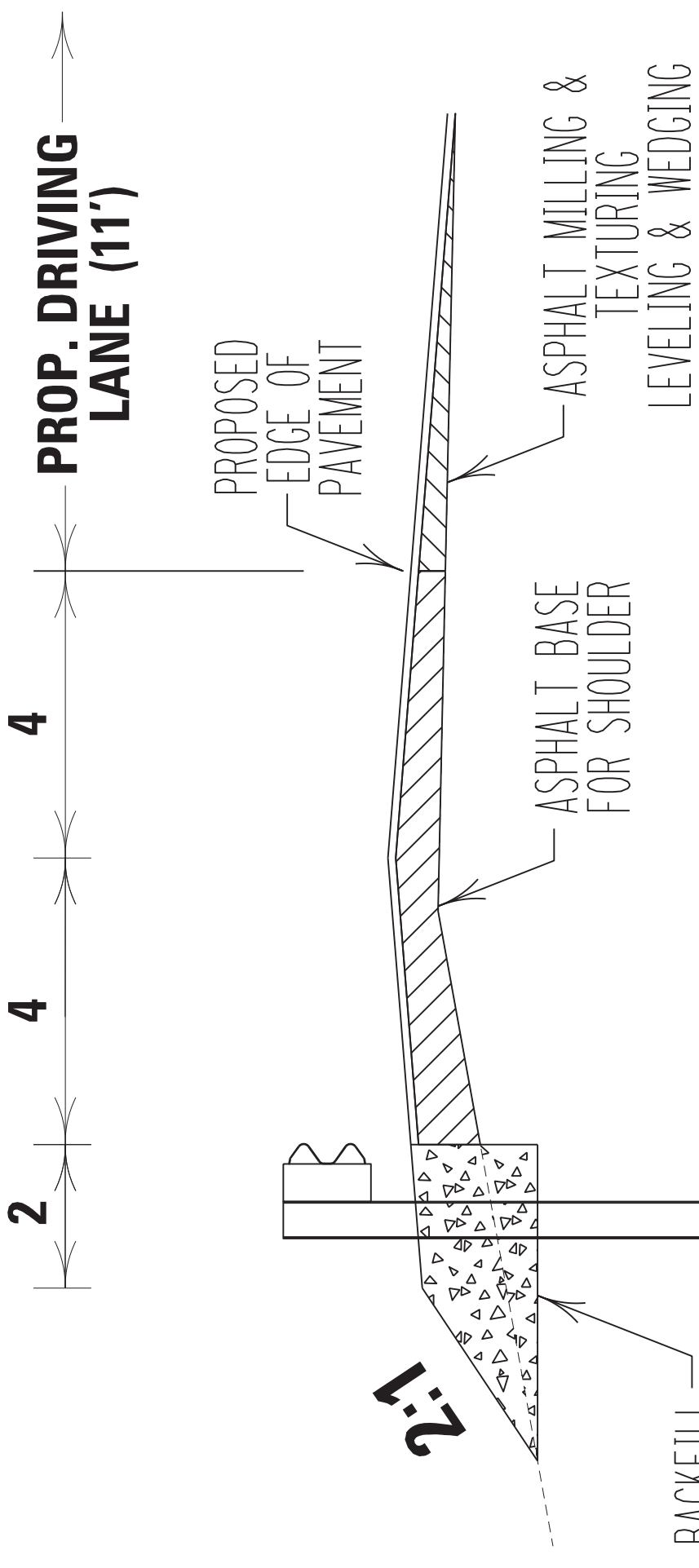
- A. OVERLAY WITH ASPHALT SURFACE
(1.5" CL3 ASPH SURF. 0.38B PG 76-22)

PERRY COUNTY

SITE 3

SUPER-ELEVATION CORRECTION

ITEM NO. 10-20018.00



* CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING OR CONSTRUCTING GUARDRAILS. DO NOT DAMAGE EXISTING BURIED UTILITIES.

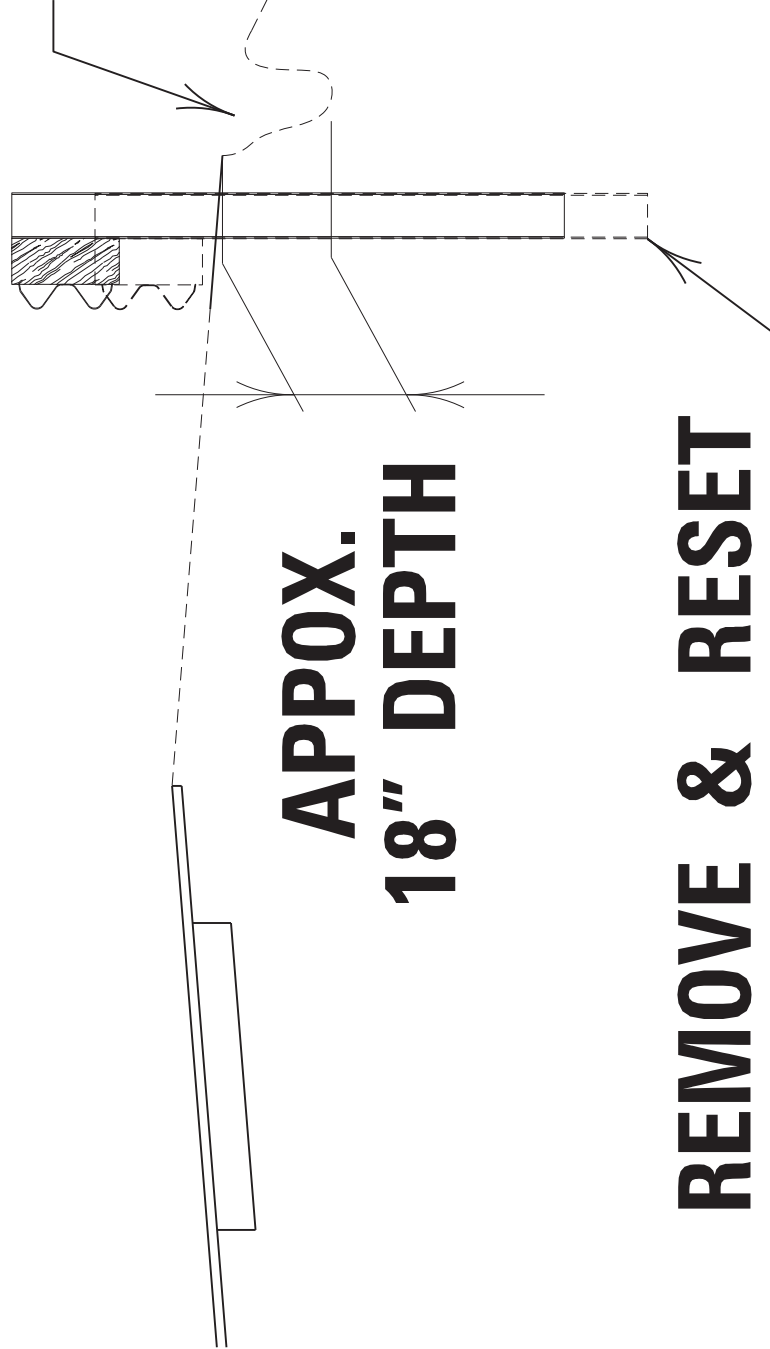
TYPICAL SECTION

SHEET N

ASPHALT SEAL AGGREGATE & ASPHALT SEAL COAT
SHALL BE PLACED AT OUTSIDE EDGE OF PAVED
SHOULDER TO A POINT 3' DOWN THE DITCH OR
FILL SLOPE, TWO APPLICATIONS.

**BREATHITT/PERRY COUNTY
MILLING FILL CONDITION
ITEM NO. 10-20018.00**

**MILLING FILL
(APPROX.
6 SQ FT)**



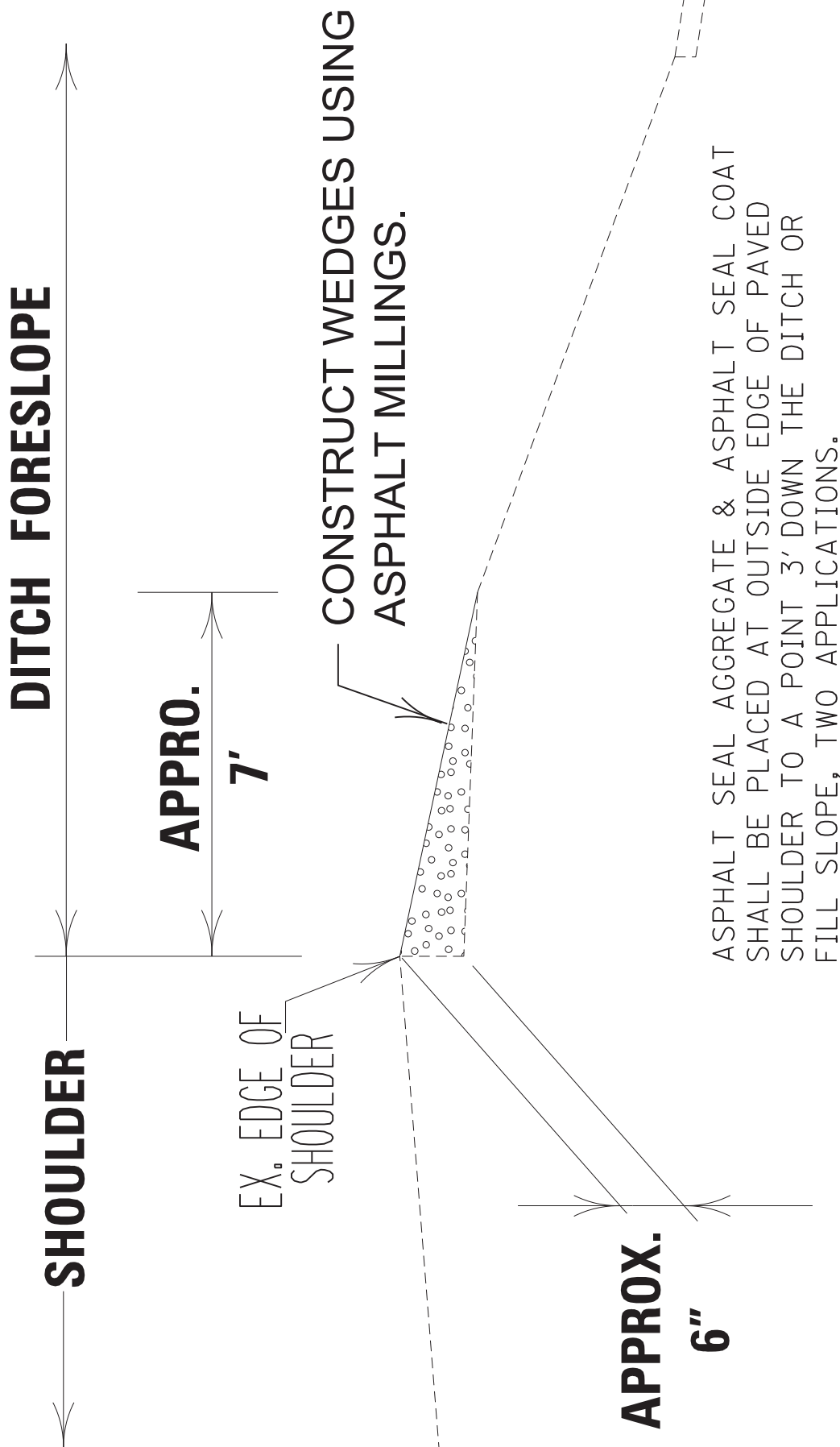
**APPROX.
18" DEPTH**

**REMOVE & RESET
EXIST GUARDRAIL**

**TYPICAL SECTION
SHEET 0**

PERRY COUNTY – MP 17.951– 18.091
MILLING WEDGE
ITEM 10–20018.00

TYPICAL SECTION
SHEET P



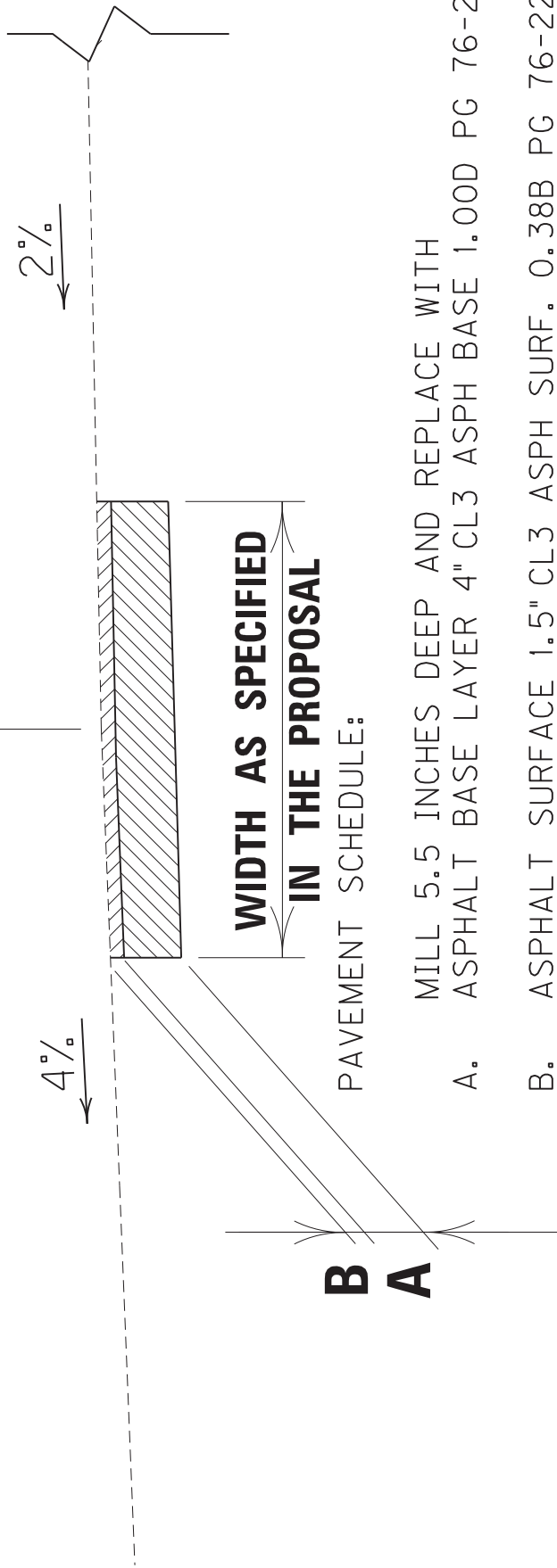
ASPHALT SEAL AGGREGATE & ASPHALT SEAL COAT
SHALL BE PLACED AT OUTSIDE EDGE OF PAVED
SHOULDER TO A POINT 3' DOWN THE DITCH OR
FILL SLOPE, TWO APPLICATIONS.

**BREATHITT COUNTY
BASE FAILURE REPAIR
ITEM 10-20018.00**

FINAL ASPHALT SURFACE SHALL MATCH EXISTING
PAVEMENT CROSS-SLOPE.

SHOULDER

**DRIVING
LANE**

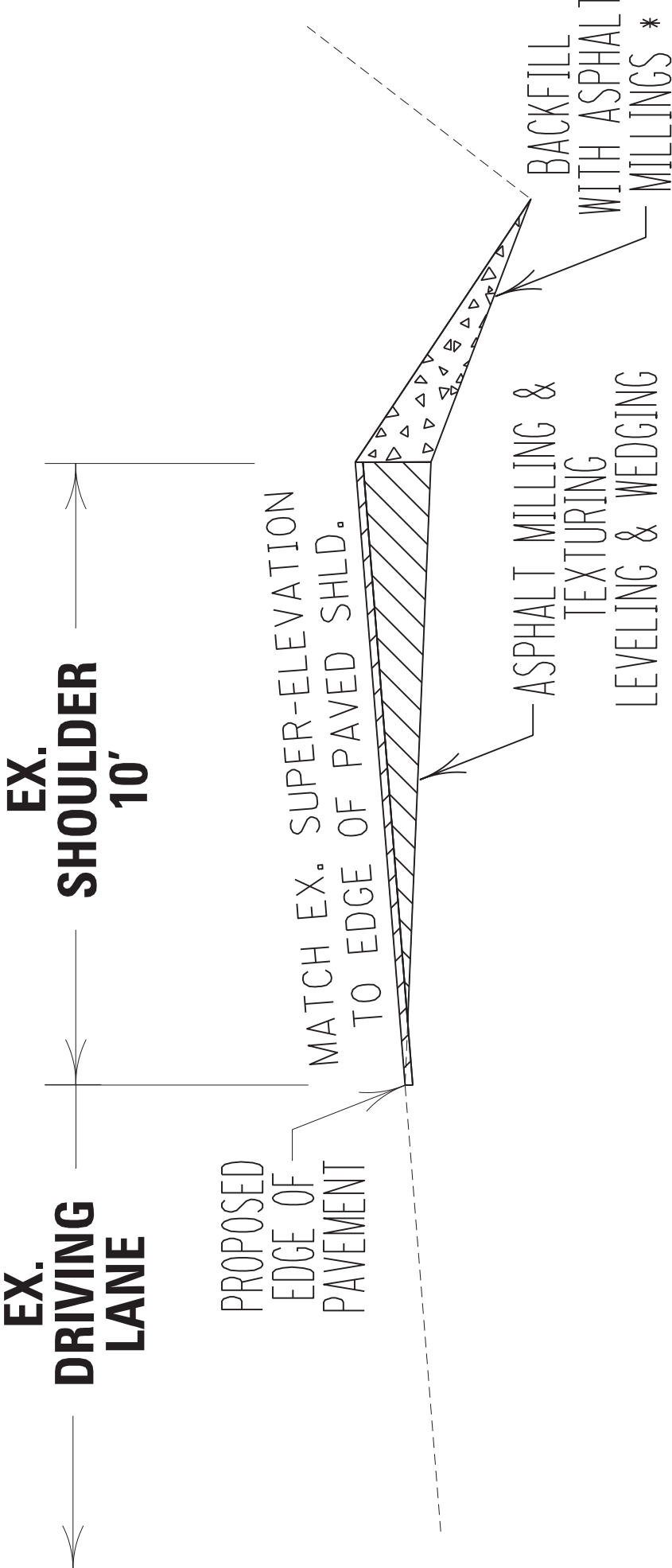


SEE PROPOSAL FOR LOCATIONS FOR SHLD JOINT REPAIRS.

**TYPICAL SECTION
SHEET 0**

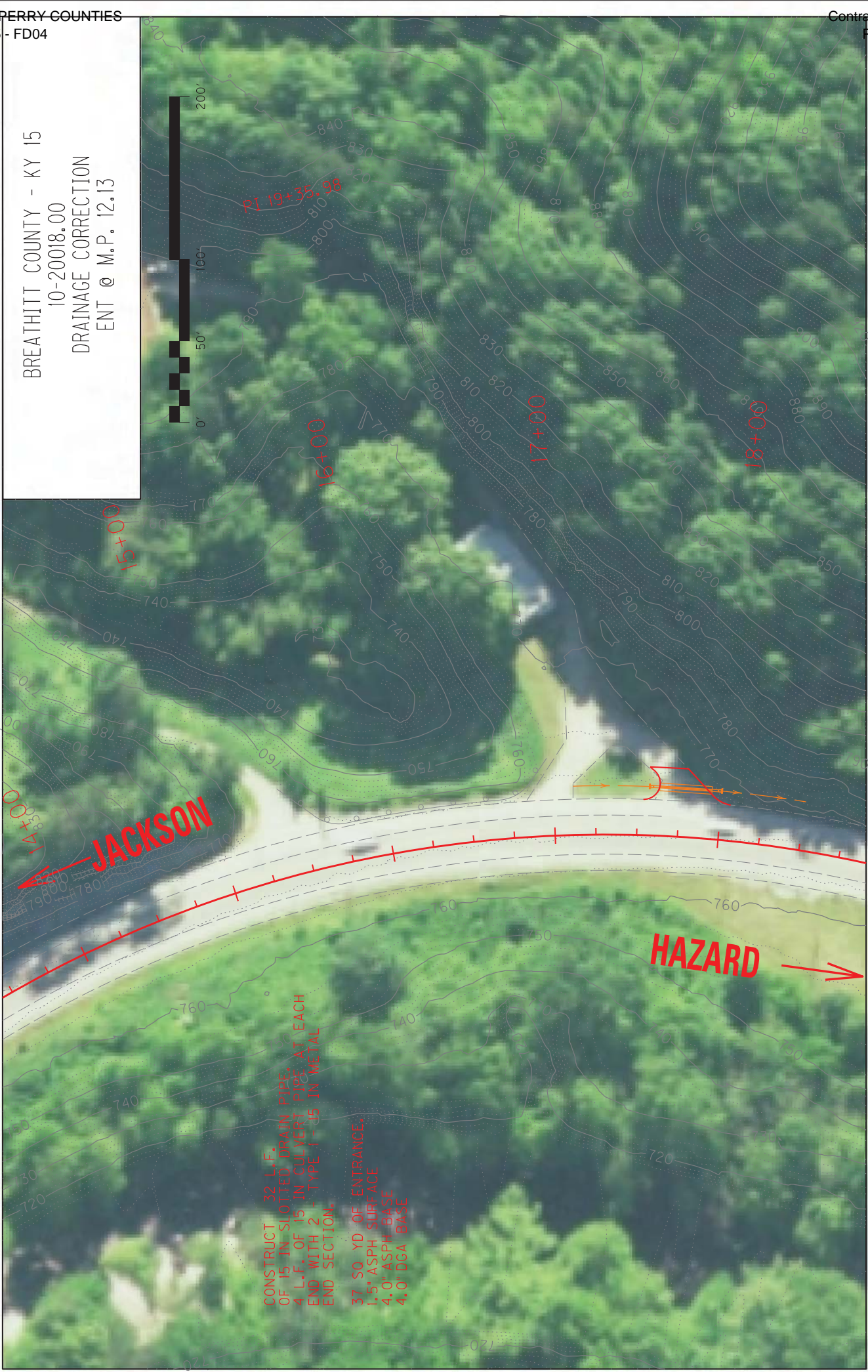
BASE FAILURE REPAIRS SHALL BE COMPLETED BY APRIL 30, 2020

BREATHITT COUNTY – MP 12.0 – 12.3
SUPER-ELEVATION CORRECTION
ITEM 10-20018.00



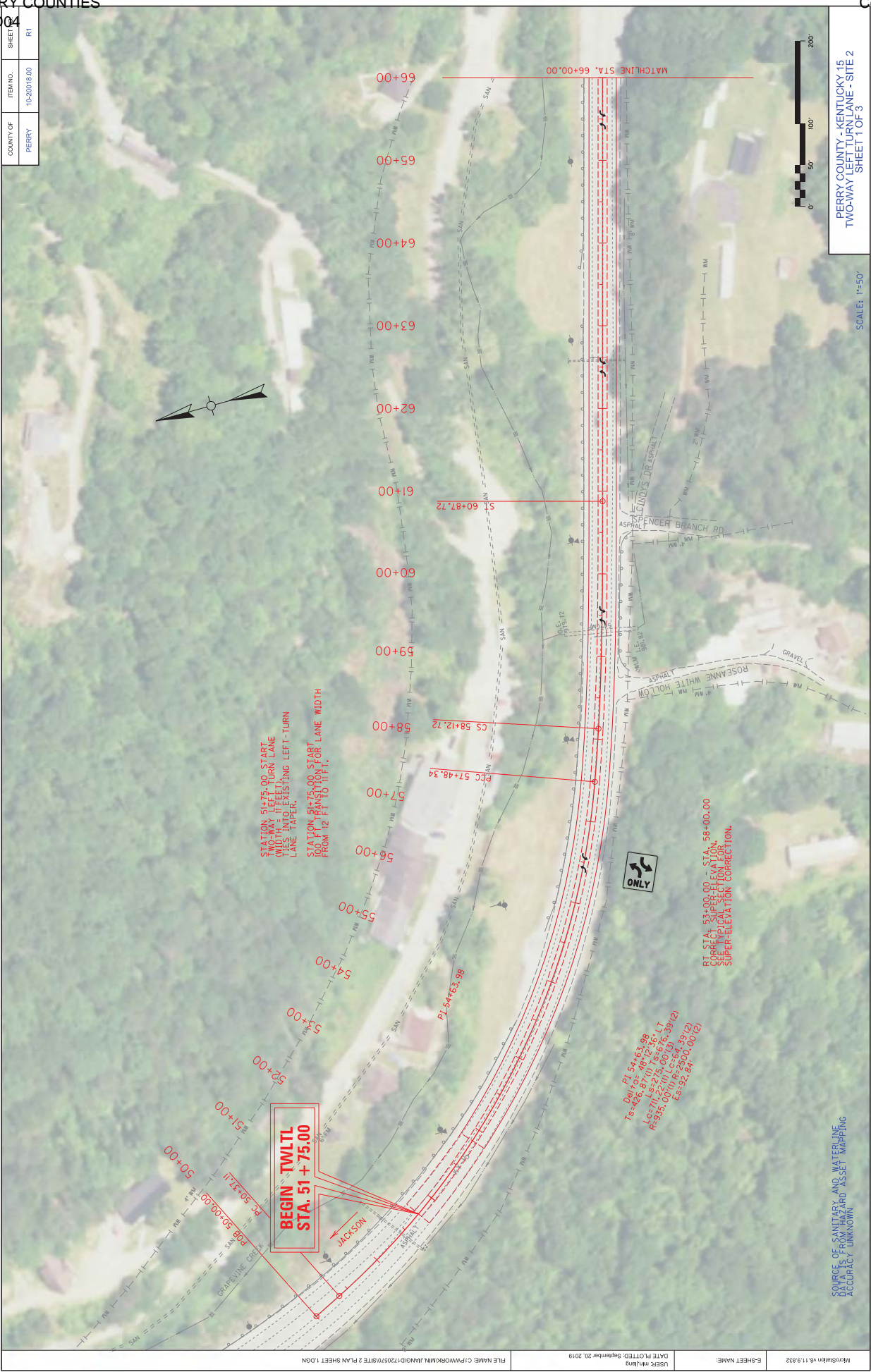
TYPICAL SECTION
SHEET R

BREATHITT COUNTY - KY 15
10-20018.00
DRAINAGE CORRECTION
ENT @ M.P. 12.13



CONSTRUCT 32 L.F.
OF 15 IN SLOTTED DRAIN PIPE
4 L.F. OF 15 IN CULVERT PIPE AT EACH
END WITH 2 - TYPE I - 15 IN METAL
END SECTION.

37.50 YD OF ENTRANCE,
1.5" ASPH SURFACE
4.0" ASPH BASE
4.0" DGA BASE



COUNTY OF	ITEM NO.	SHEET
PERRY	10-20018.00	P2

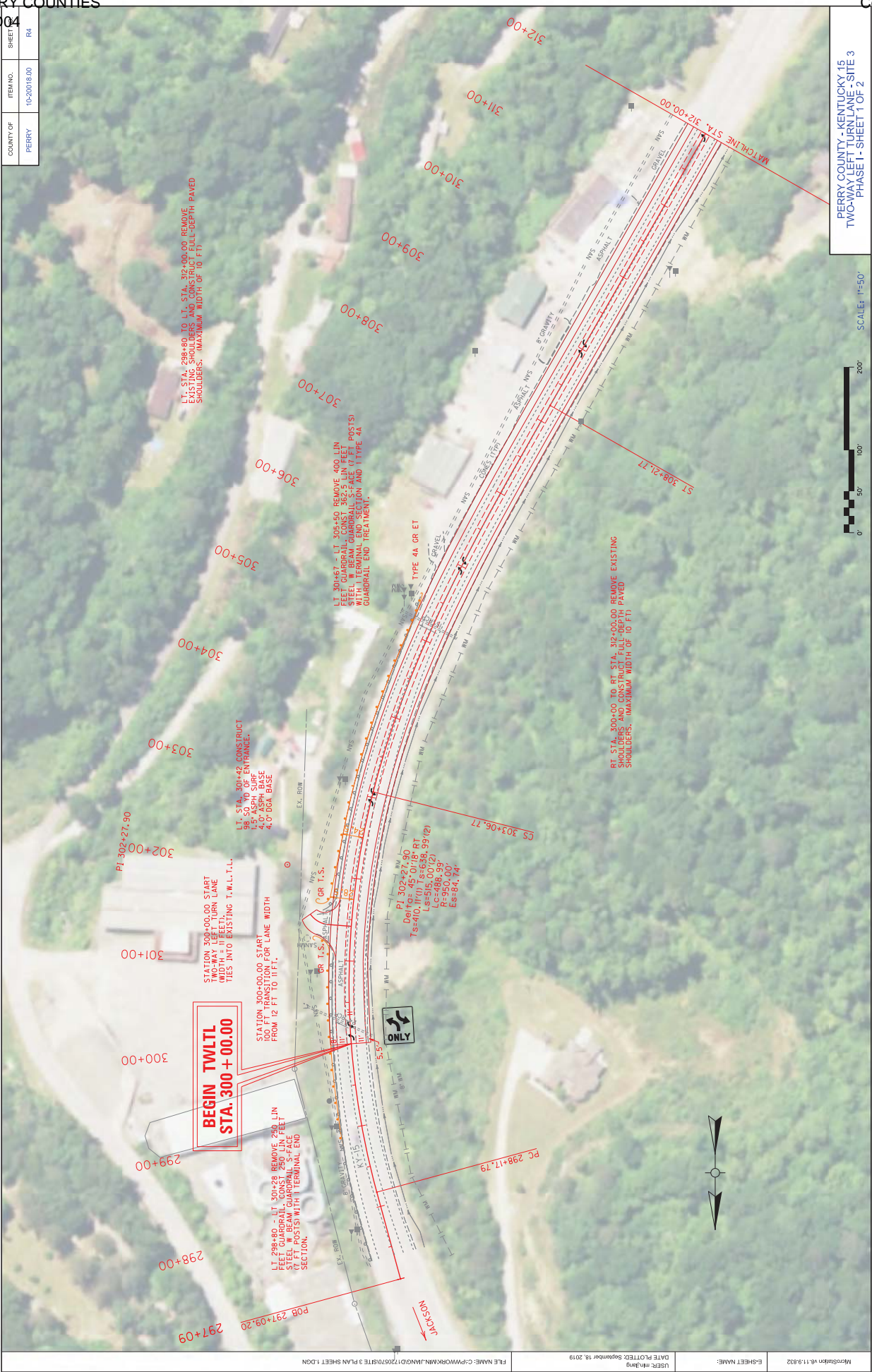


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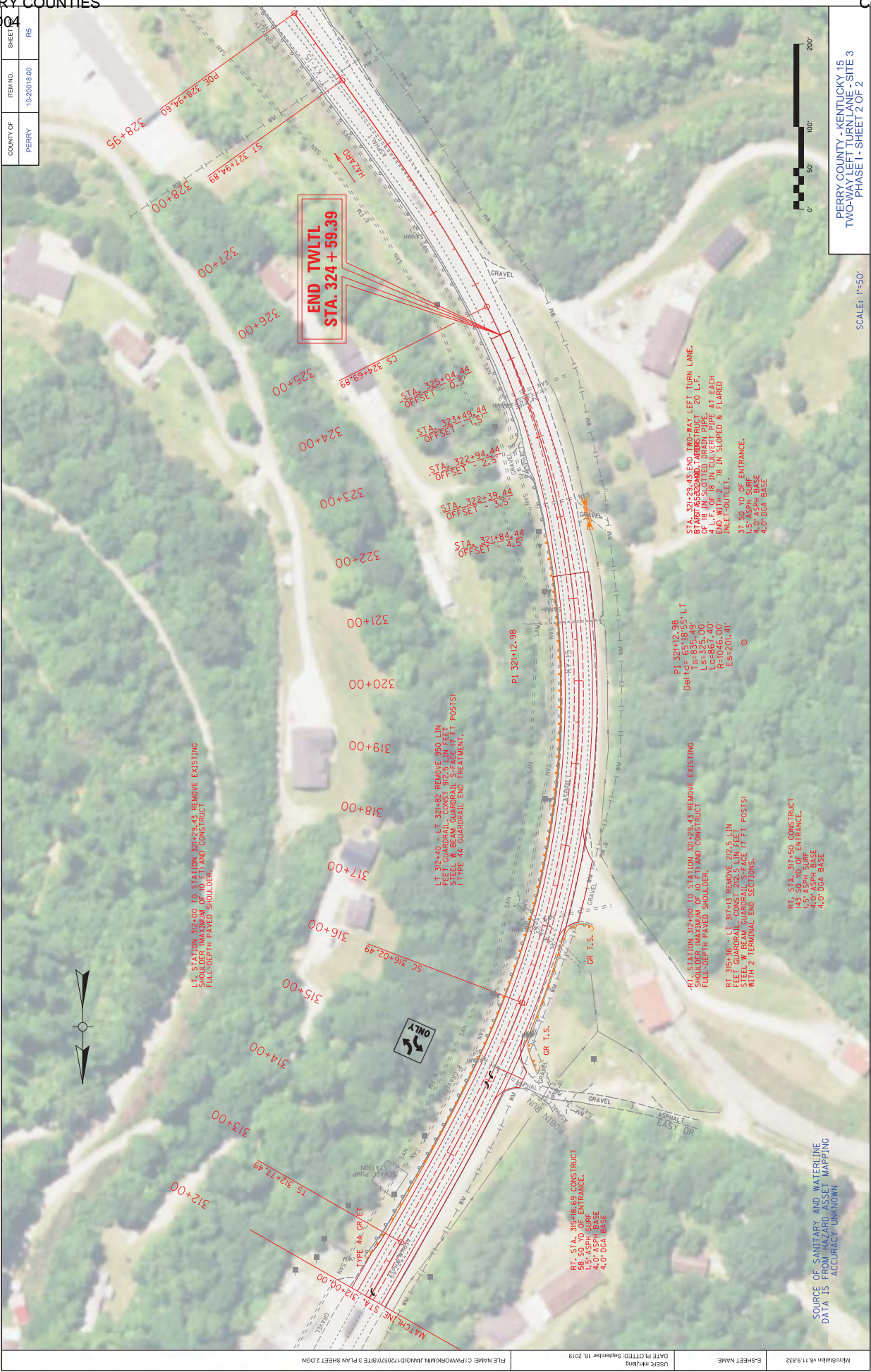


COUNTY OF	ITEM NO.	SHEET
PERRY	10-20018.00	34



PERRY COUNTY - KENTUCKY 15
TWO-WAY LEFT TURN LANE - SITE 3
PHASE I - SHEET 1 OF 2

SCALE: 1"=50'



PERRY COUNTY - KENTUCKY 15
TWO-WAY LEFT TURN LANE - SITE 3
PHASE II - SHEET 1 OF 1



GENERAL SUMMARY					
ITEM CODE	ITEM	UNIT	Breathitt	Perry	PROJECT TOTAL
461	CULVERT PIPE - 15 IN	L.F.	8		8
462	CULVERT PIPE - 18 IN	L.F.		8	8
981	SLOTTED DRAIN PIPE - 15 IN	L.F.	32		32
982	SLOTTED DRAIN PIPE - 18 IN	L.F.		20	20
1370	METAL END SECTION TYPE 1-15 IN	EACH	2		2
1450	S & F BOX INLET - OUTLET - 18 IN	EACH		2	2
1691	FLUME TYPE 2	EACH		3	3
1897	ASPHALT WEDGE CURB	L.F.		1,000	1,000
1987	DELINEATOR FOR G/R-BI DIR. WHITE (4)	EACH	79	475	554
2014	BARRICADE-TYPE III	EACH	2	4	6
2200	ROADWAY EXCAVATION	CU. YD.	165.5	229.5	395.0
21802EN	GR.-STEEL W BEAM-S FACE (7' POST)	L.F.	8,675	3,925	12,600
2360	GUARDRAIL TERMINAL SECTION NO 1.	EACH	14	7	21
2367	GUARDRAIL END TREATMENT TYPE 1	EACH	2	1	3
2372	REMOVE GUARDRAIL CON TO BR END.	EACH	28		28
2377	GUARDRAIL CON TO BR END TYPE C (8)	EACH	28		28
2381	REMOVE GUARDRAIL (11)	L.F.	8,763	4,050	12,813
2383	REMOVE & RESET GUARDRAIL (1)	L.F.	163	2,000	2,163
2391	GUARDRAIL END TREATMENT TYPE 4A	EACH	1	2	3
2484	CHANNEL LINING CLASS III (2)	TON		200	200
2562	TEMPORARY SIGNS	SQ. FT.	500	1,069	1,569
2565	OBJECT MARKER TYPE 2 (6)	EACH	28		28
20191ED	OBJECT MARKER TYPE 3	EACH	3	3	6
2568	MOBILIZATION	L.S.	1	1	1
2569	DEMOBILIZATION	L.S.	1	1	1
2575	DITCHING & SHOULDERING (1) (9)	L.F.		2,000	2,000
2650	MAINTAIN & CONTROL TRAFFIC	L.S.	1	1	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2	4	6
2676	MOBILIZATION FOR MILL & TEXT.	L.S.	1	1	2
2696	SHOULDER RUMBLE STRIPS-SAWED	L.F.		86,370	86,370
2726	STAKING	L.S.	1	1	1
2775	ARROW PANEL	EACH	2	4	6
3262	CLEAN PIPE STRUCTURE (12) (1)	EACH		5	5
5950	EROSION CONTROL BLANKET (1)	SQ. YD.	200	300	500
6510	PAVE STRIPING-TEMP PAINT-4 IN	L.F.	500	90,895	91,395
6514	PAVE STRIPING-PERM PAINT-4 IN	L.F.	1,000	182,790	183,790
6568	PAVE MARKING - THERMO STOP BAR - 24 IN	L.F.		68	68
6573	PAVE MARKING - THERMO STR ARROW	EACH		5	5
6574	PAVE MARKING - CURV ARROW	EACH		50	50
6576	PAVE MARKING - THERMO ONLY	EACH		1	1
6578	PAVE MARKING - THERMO MERGE ARROW	EACH		11	11
20458ES403	CENTERLINE RUMBLE STRIPS (10)	L.F.		33,514	33,514
24489EC	INLAID PAVEMENT MARKER (7)	EACH		825	825
10020NS	FUEL ADJUSTMENT	DOLLAR		40,867	40,867

10030NS	ASPHALT ADJUSTMENT	DOLLAR		102,647	102,647
21415ND	EROSION CONTROL (3)	L.S.	1	1	1
20071EC	JOINT ADHESIVE (13)	L.F.		165,400	165,400
SIGNS (SEE SHEET SIGN SUMMARY AND MAPS.)					
6403	FLEXIBLE DELINEATOR POSTS -BW	EACH	118		118
6406	ALUMINUM SHEET. SIGNS 0.080 GAUGE	SQ. FT.	720	295	1015
6407	ALUMINUM SHEET. SIGNS 0.125 GAUGE	SQ. FT.	1,240	409	1649
6410	STEEL POST TYPE 1	L.F.	3,260	1,240	4500
6412	STEEL POST MILE MARKERS	EACH	16	7	23
24631EC	BARCODE LABEL	EACH	339	129	468
(1) AT LOCATIONS AS DIRECTED BY THE ENGINEER					
(2) 200 TONS TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER					
(3) SEE EROSION CONTROL SPECIAL NOTE					
(4) ADDITIONAL 300 TO BE USED AT GUARDRAILS WITH MISSING DELINEATOR.					
(5) ADDITIONAL 500 L.F. TO BE USED AT LOCATIONS AS DIRECTED BY THE ENGINEER.					
(6) SEE STD. DRAWING RBR-060					
(7) EXISTING PAVE. MARKER REMOVAL SHALL BE INCIDENTAL TO ASPHALT PAVEMENT MILLING & TEX.					
(8) SEE STANDARD DRAWING FOR TYPE C CONNECTOR IN THE PROPOSAL.					
(9) INCLUDES BOTH DIRECTIONS OF ROADWAY AND CLEANING OUT ALL PERFORATED PIPE HEADWALLS.					
(10) STANDARD DRAWING FOR "CENTERLINE RUMBLE STRIPS 6 INCH STRIPING" SHALL BE USED.					
(11) INCLUDED QUANTITIES TO REMOVE EXISTING G.R. END TREATMENTS WITHIN THE CONST. LIMIT.					
(12) THIS BID ITEM IS INTENDED FOR PIPES WITH DIAMETER EQUAL TO OR GREATER THAN 36". CLEANING					
PIPE STRUCTURES WITH DIAMETER SMALLER THAN 36" ARE INCIDENTAL TO BID ITEM "DITCHING					
& SHOULDERING".					
(13) SEE SHOULDER JOINT AND CENTERLINE JOINT DRAWINGS.					
NOTES FOR SIGNS - ADDITIONAL NOTES CAN BE FOUND IN SIGNING PLANS.					
*THE EXACT SIGN LOCATIONS SHALL BE FIELD VERIFIED AND DETERMINED BY THE CONTRACTOR					
AND APPROVED BY THE ENGINEER. MILE POINTS PROVIDED ON THE SIGNING PLANS ARE FOR					
REFERENCE ONLY.					
*THE CONTRACTOR SHALL COORDINATE WITH THE ADJACENT PROJECT MANAGER/ENGINEER TO					
DETERMINE IF TEMPORARY CONSTRUCTION SIGNS FOR OTHER PROJECTS NEED TO BE REMOVED OR					
RELOCATED.					
*CLEARING AND GRUBBING, AND TREE TRIMMING, WHEN REQUIRED FOR CONSTRUCTION OR					
VISIBILITY OF SIGNS, SHALL BE INCIDENTAL TO THE CONTRACT. LOCATIONS TO BE DETERMINED BY THE					
ENGINEER.					

BREATHITT - PERRY COUNTIES
121GR19D065 - FD04

Contract ID: 191065
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PAVING SUMMARY							
ITEM CODE		UNIT	BREATHITT	PERRY			PROJECT TOTAL
1	DGA BASE (3) (11)	TON	9	3,357			3,366
78	CRUSHED AGGREGATE SIZE NO. 2 (2)	TON		200			200
100	ASPHALT SEAL AGGREGATE (4) (7)	TON	5.3	38.2			43.5
103	ASPHALT SEAL COAT (5) (7)	TON	0.6	4.6			5.2
194	LEVELING AND WEDGING PG 76-22 (13)	TON	48	1445			1,493
214	CL3 ASPH BASE 1.0D PG 64-22 (14)	TON		5741			5,741
216	CL3 ASPH BASE 1.0D PG 76-22 (10)	TON	484	3,839			4,323
356	ASPHALT MATERIAL FOR TACK (9)	TON		84.7			84.7
387	CL3 ASPH SURF 0.38B PG76-22	TON	327	16,139			16,466
2677	ASPH. PAVE MILL. & TEXTURING (6)	TON	654	24,914			25,568
24878EC	ASPHALT EMUL. FOR FOG SEAL (12)	TON		50.0			50.0
(1) ALL ASPHALT MIXTURES ARE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH							
(2) 200 ADDED FOR REPAIR OF EMBANKMENT WHEREVER NEEDED. USE AS DIRECTED BY THE ENG.							
(3) ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH							
(4) ESTIMATED AT 20 LBS/SQ YD.							
(5) ESTIMATED AT 2.4 LBS/SQ. YD.							
(6) SEE PROJECT NOTES FOR MILLINGS.							
(7) TO BE PLACED AT OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 3' DOWN THE DITCH OR FILL SLOPE, TWO APPLICATIONS.							
(8) ASPHALT SEAL AGGREGATE AND SEAL COAT TO BE APPLIED AT LOCATIONS WITH NEW GUARDRAIL.							
(9) ESTIMATED AT 0.84 LBS (0.1 GAL) PER SQUARE YARD.							
(10) 500 TONS ADDED FOR LOCATIONS WHERE SHOULDER OR CENTERLINE JOINTS NEED TO BE REPAIRED. SEE TYPICAL SECTION OF SHOULDER AND CENTERLINE JOINTS REPAIRS FOR DETAIL.							
(11) 500 TONS ADDED FOR REPAIR OF SHOULDERS WHEREVER NEEDED. USE AS DIRECTED BY THE ENG.							
(12) TO BE USED ON EXISTING SHOULDERS (OUTER REMAINING) AS DIRECTED BY THE ENGINEER. SEE SPECIAL NOTE FOR FOG SEAL. FOR CALCULATION PURPOSE, ASSUMED 8.4 LBS/GAL							
(13) 500 TONS ADDED. TO BE USED DURING MOT OR AT LOCATIONS AS DIRECTED BY THE ENGINEER.							
(14) INCLUDING 44.8 TONS FOR SHOULDER WIDENING ON PERRY SITE 3.							

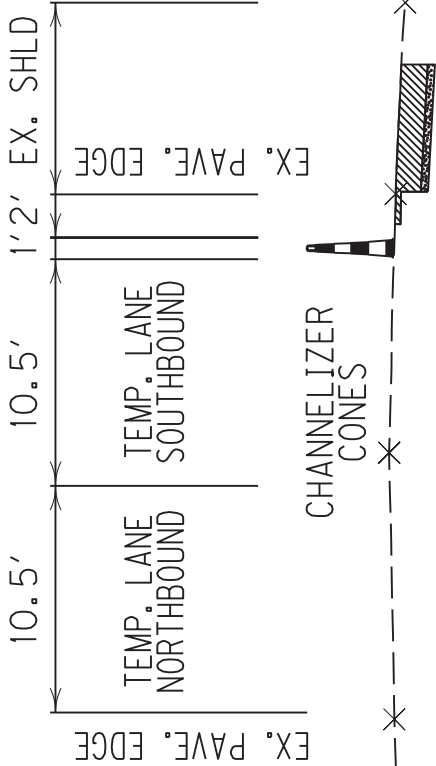
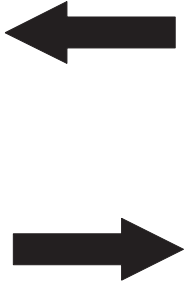
PHASE 1

SEE STANDARD DRAWINGS AND MUTCD FOR PLACEMENT OF TEMPORARY SIGNS, TEMPORARY STRIPING, PORTABLE CHANGEABLE MESSAGE SIGNS, BARRICADES, BARRELS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES.
LOCATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES TO BE APPROVED BY THE CONSTRUCTION ENGINEER.

INSTALL TEMPORARY TRAFFIC CONTROL DEVICES ON KY 15 MAINLINE. ADVISORY SPEED LIMIT OF 35 MPH.

INSTALL STRIPING AND TEMPORARY DELINEATION FOR TEMPORARY 10.5 FT. LANES.

MAINTAIN TRAFFIC ON TEMPORARY LANES WHILE CONSTRUCTING FULL-DEPTH FOR THE ENTIRE WIDTH OF EXISTING SOUTHBOUND SHOULDERS ON KY 15.



PHASE I

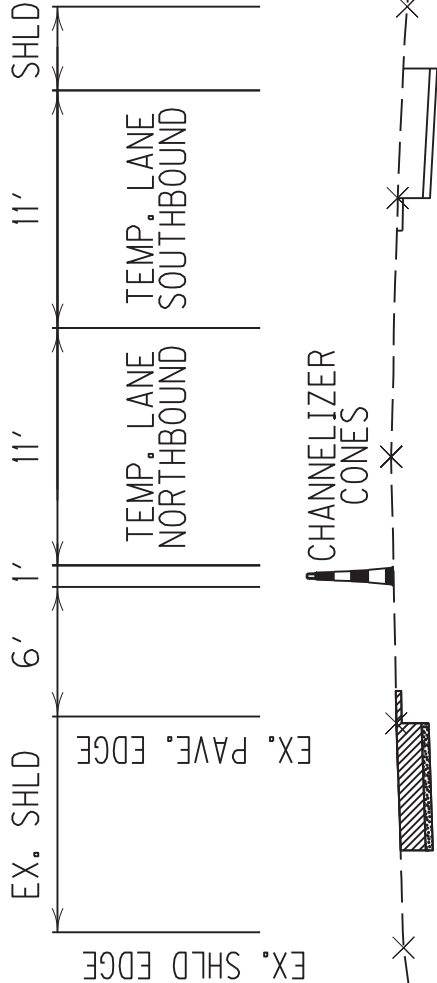
PHASE 2

SEE STANDARD DRAWINGS AND MUTCD FOR PLACEMENT OF TEMPORARY SIGNS, TEMPORARY STRIPING, PORTABLE CHANGEABLE MESSAGE SIGNS, BARRICADES, BARRELS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES.
LOCATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES TO BE APPROVED BY THE CONSTRUCTION ENGINEER.

INSTALL TEMPORARY TRAFFIC CONTROL DEVICES ON KY 15 MAINLINE.

INSTALL STRIPING AND TEMPORARY DELINEATION FOR TEMPORARY 11 FT. LANES.

MAINTAIN TRAFFIC ON TEMPORARY LANES, INCLUDING SHOULDERS THAT WERE PREVIOUSLY CONSTRUCTED WITH FULL-DEPTH PAVEMENT, WHILE CONSTRUCTING FULL-DEPTH FOR THE ENTIRE WIDTH OF EXISTING NORTHBOUND SHOULDERS ON KY 15.



PHASE II

DRAWING NOT TO SCALE

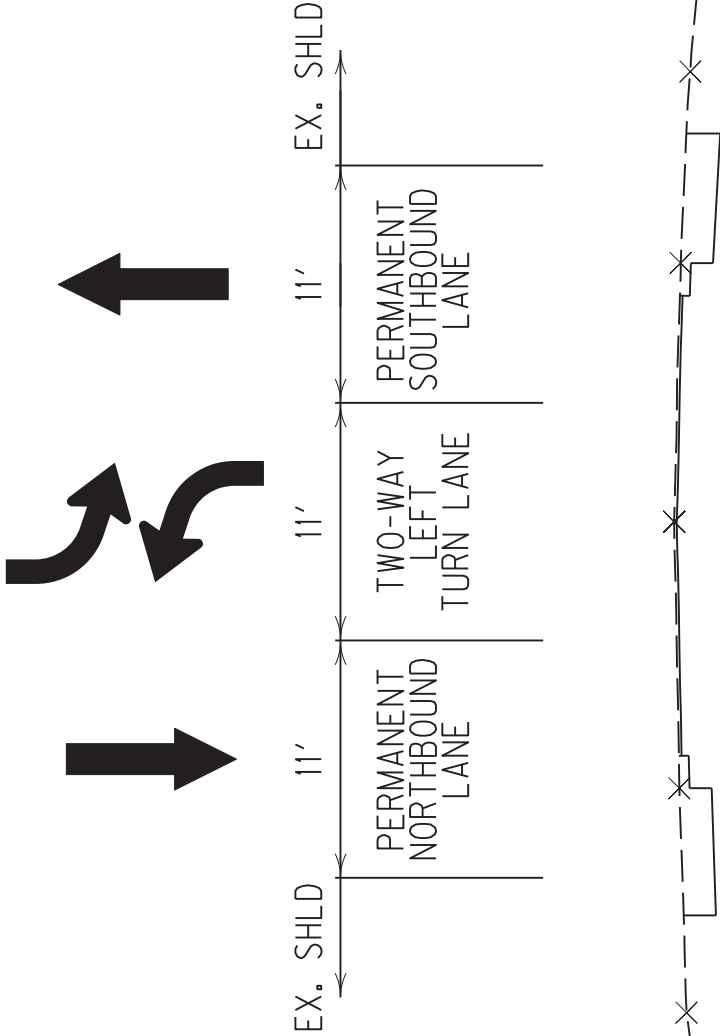
PERRY - SITE 2
MOT PHASE II

ITEM # 10-20018.00

PHASE 3

SEE STANDARD DRAWINGS AND MUTCD FOR PLACEMENT OF TEMPORARY SIGNS, TEMPORARY STRIPING, PORTABLE CHANGEABLE MESSAGE SIGNS, BARRICADES, BARRELS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES.
LOCATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES TO BE APPROVED BY THE CONSTRUCTION ENGINEER.

REMOVE ALL TEMPORARY PAVEMENT MARKINGS.
COMPLETE LEVELING & WEDGING AND PAVING FINAL SURFACE.
INSTALL PERMANENT PAVEMENT MARKERS AND PAVEMENT MARKINGS.



PHASE III

DRAWING NOT TO SCALE

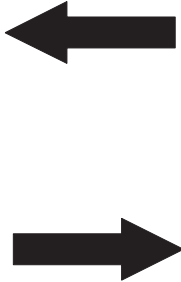
PHASE I

SEE STANDARD DRAWINGS AND MUTCD FOR PLACEMENT OF TEMPORARY SIGNS, TEMPORARY STRIPING, PORTABLE CHANGEABLE MESSAGE SIGNS, BARRICADES, BARRELS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES.
LOCATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES TO BE APPROVED BY THE CONSTRUCTION ENGINEER.

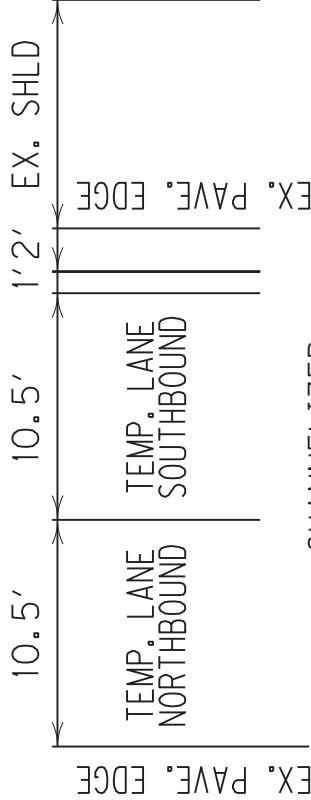
INSTALL TEMPORARY TRAFFIC CONTROL DEVICES ON KY 15 MAINLINE. ADVISORY SPEED LIMIT OF 35 MPH.

INSTALL STRIPING AND TEMPORARY DELINEATION FOR TEMPORARY 10.5 FT. LANES.

MAINTAIN TRAFFIC ON TEMPORARY LANES WHILE CONSTRUCTING FULL-DEPTH FOR THE ENTIRE WIDTH OF EXISTING SOUTHBOUND SHOULDERS ON KY 15.



WIDTH OF SOUTHBOUND SHOULDERS VARIES THROUGHOUT THE PROJECT.
CONSTRUCT A MAXIMUM FULL-DEPTH SHLD. PAVE. WIDTH OF 10 FT.



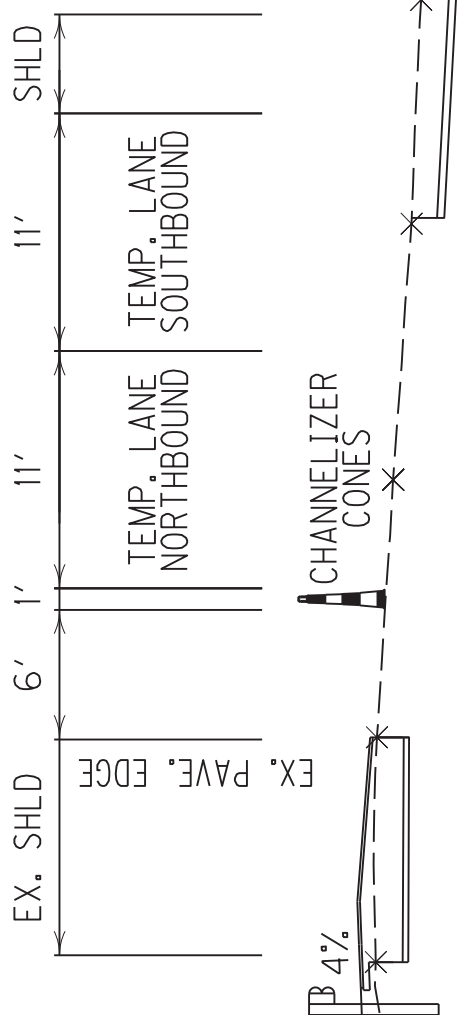
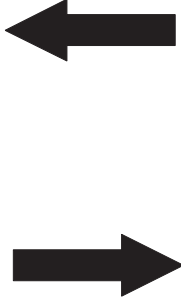
PHASE I

DRAWING NOT TO SCALE

PHASE 2B

SEE STANDARD DRAWINGS AND MUTCD FOR PLACEMENT OF TEMPORARY SIGNS, TEMPORARY STRIPING, PORTABLE CHANGEABLE MESSAGE SIGNS, BARRICADES, BARRELS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES. LOCATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES TO BE APPROVED BY THE CONSTRUCTION ENGINEER.

MAINTAIN SAME MOT CONFIGURATIONS AS PHASE IIA, WHILE CONSTRUCTING GUARDRAIL, SHOULDER WEDGES AND CORRECTING SUPER-ELEVATIONS (SEE CROSS-SECTIONS).



PHASE II-B

DRAWING NOT TO SCALE

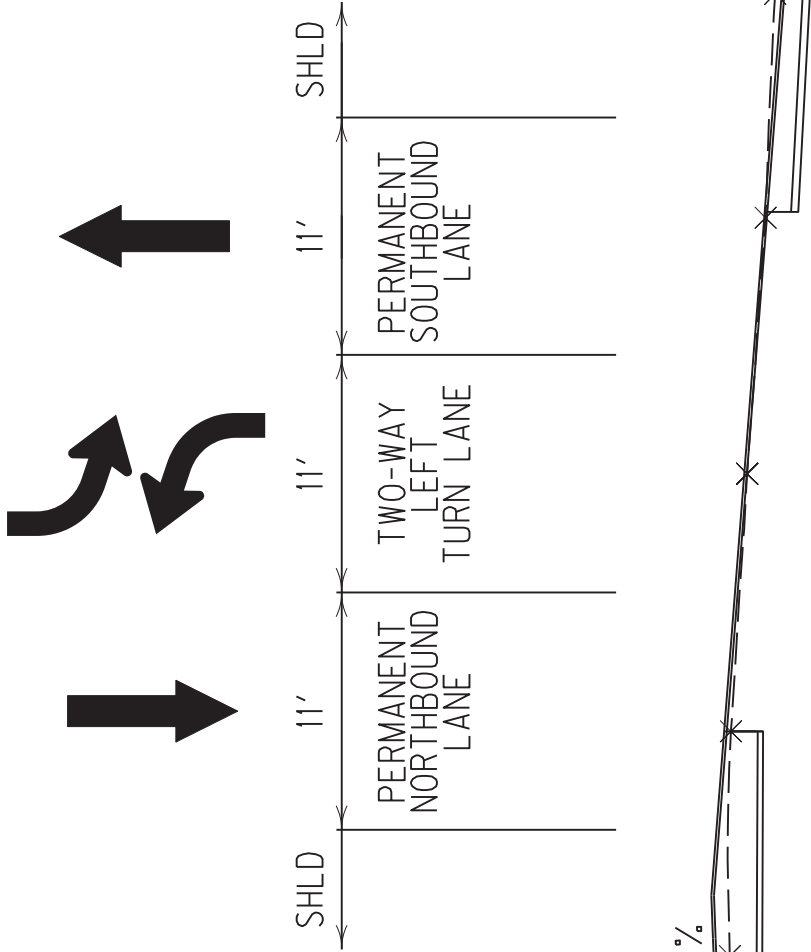
PERRY - SITE 3
MOT PHASE II-B

ITEM # 10-20018.00

PHASE 3

SEE STANDARD DRAWINGS AND MUTCD FOR PLACEMENT OF TEMPORARY SIGNS, TEMPORARY STRIPING, PORTABLE CHANGEABLE MESSAGE SIGNS, BARRICADES, BARRELS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES. LOCATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES TO BE APPROVED BY THE CONSTRUCTION ENGINEER.

REMOVE ALL TEMPORARY PAVEMENT MARKINGS.
COMPLETE LEVELING & WEDGING AND PAVING FINAL SURFACE.
INSTALL PERMANENT PAVEMENT MARKERS AND PAVEMENT MARKINGS.



PHASE III

PERRY - SITE 3
MOT PHASE III

DRAWING NOT TO SCALE

ITEM # 10-20018.09

COORDINATE CONTROL POINTS					
POINT	DESCRIPTION	State Plane Coordinates			
		NORTH (Y)	EAST (X)	ELEV. (Z)	
JH 52	KYTC -1995 MON.	3658344.13	5641517.82	987.57	
V40 CK	CONCRETE MON.	3658307.69	5641442.21	983.89	
V21 CK	MAG. NAIL	3656780.40	5644076.10	1013.76	
V34 CK	MAG. NAIL	3656235.41	5654779.22	1036.46	
1208	MAG. NAIL	3656280.08	5645861.45	1033.93	
P27 CK	MAG. NAIL	3656273.04	5646070.64	1036.04	
1207	MAG. NAIL	3656287.96	5645133.28	1036.18	
JH 606 CK	CONCRETE MON.	3654375.82	5647171.98	1081.82	
V27 CK	MAG. NAIL	3653671.08	5647087.75	1100.29	
JH 607	KYTC - 2000 MON.	3653098.38	5647355.87	1104.16	

SCALE: 1"=n/a

COUNTY OF	ITEM NO.	SHEET NO.
10-20018.00	10-20018.00	CC

KENTUCKY 15 - PERRY COUNTY
SITE 2

COORDINATE CONTROL SHEET

BASIS OF HORIZONTAL COORDINATES

Coordinates for Horizontal survey control were obtained from GPS-Static methods and adjusted to the National NAD83/2011 Horizontal Datum.

Coordinates are based on the Kentucky State Plane Coordinate System, Single Zone (KY Zone 1600) and are in U.S. Survey Feet.

Description:

121GR19D065 - FD04

Horizontal Alignment Name: Perry Site 2

Description:

Style: Centerline/Main

STATION

NORTHING

EASTING

Element: Linear

POB ()

50+00.00

3657803.19

5641733.95

PC ()

50+37.11

3657769.90

5641750.36

Tangent Direction: S 26°14'31" E

Tangent Length: 37.11

Non-collinear

Element: Circular

PC ()

50+37.11

3657769.90

5641750.36

PI ()

54+10.92

3657434.96

5641916.34

CC ()

3658185.06

5642588.13

PCC ()

57+48.34

3657306.76

5642267.48

Radius: 935.00

Delta: 43°34'59" Left

Degree of Curvature(Arc): 6°07'40"

Length: 711.22

Tangent: 373.81

Chord: 694.20

Middle Ordinate: 66.81

External: 71.96

Tangent Direction: S 26°21'38" E

Radial Direction: S 63°38'22" W

Chord Direction: S 48°09'08" E

Radial Direction: S 20°03'23" W

Tangent Direction: S 69°56'37" E

Element: Circular

PCC ()

57+48.34

3657306.76

5642267.48

PI ()

57+80.53

3657295.72

5642297.72

CC ()

3659655.15

5643124.84

CS ()

58+12.72

3657285.46

5642328.24

Radius: 2500.00

Delta: 1°28'32" Left

Degree of Curvature(Arc): 2°17'31"

Length: 64.39

Tangent: 32.19

Chord: 64.38

Middle Ordinate: 0.21

External: 0.21

Tangent Direction: S 69°56'37" E

Radial Direction: S 20°03'23" W

Chord Direction: S 70°40'53" E

Radial Direction: S 18°34'51" W

Tangent Direction: S 71°25'09" E

Element: Clothoid

CS ()

58+12.72

3657285.46

5642328.24

SPI ()

59+04.41

3657256.25

5642415.15

ST ()

60+87.72

3657207.46

5642591.91

Entrance Radius: 2500.00

Exit Radius: 0.00

Length: 275.00

Angle: 3°09'05" Left

Constant: 829.16

Long Tangent: 183.36

Short Tangent: 91.69

Long Chord: 274.96

Xs: 274.92

Ys: 5.04

P: 1.26

K: 137.49

Tangent Direction: S 71°25'09" E

Radial Direction: S 18°34'51" W

Chord Direction: S 73°31'12" E

Radial Direction: S 15°25'46" W

Tangent Direction: S 74°34'14" E

Element: Linear

ST ()

60+87.72

3657207.46

5642591.91

TS ()

101+27.31

3656132.72

5646485.90

Tangent Direction: S 74°34'14" E

121GR19D065-FD04

Element: Clothoid

TS ()	101+27.31	3656132.72	5646485.90
SPI ()	103+27.56	3656079.44	5646678.94
SC ()	104+27.31	3656038.14	5646770.26
Entrance Radius:	0.00		
Exit Radius:	965.00		
Length:	300.00		
Angle:	8^54'22" Right		
Constant:	538.05		
Long Tangent:	200.25		
Short Tangent:	100.23		
Long Chord:	299.68		
Xs:	299.28		
Ys:	15.52		
P:	3.88		
K:	149.88		
Tangent Direction:	S 74^34'14" E		
Radial Direction:	S 15^25'46" W		
Chord Direction:	S 71^36'09" E		
Radial Direction:	S 24^20'08" W		
Tangent Direction:	S 65^39'52" E		

Element: Circular

SC ()	104+27.31	3656038.14	5646770.26
PI ()	110+12.33	3655797.07	5647303.30
CC ()		3655158.88	5646372.61
CS ()	114+79.14	3655212.97	5647336.09

Radius:	965.00		
Delta:	62^27'05" Right		
Degree of Curvature(Arc):	5^56'15"		
Length:	1051.83		
Tangent:	585.02		
Chord:	1000.53		
Middle Ordinate:	139.80		
External:	163.48		
Tangent Direction:	S 65^39'52" E		
Radial Direction:	S 24^20'08" W		
Chord Direction:	S 34^26'19" E		
Radial Direction:	S 86^47'13" W		
Tangent Direction:	S 3^12'47" E		

Element: Clothoid

CS ()	114+79.14	3655212.97	5647336.09
SPI ()	115+96.18	3655096.12	5647342.65
ST ()	118+29.14	3654864.22	5647313.45
Entrance Radius:	965.00		
Exit Radius:	0.00		
Length:	350.00		
Angle:	10^23'26" Right		
Constant:	581.16		
Long Tangent:	233.74		
Short Tangent:	117.03		
Long Chord:	349.49		
Xs:	348.85		
Ys:	21.11		
P:	5.28		
K:	174.81		
Tangent Direction:	S 3^12'47" E		
Radial Direction:	S 86^47'13" W		
Chord Direction:	S 3^42'54" W		
Radial Direction:	N 82^49'21" W		
Tangent Direction:	S 7^10'39" W		

Element: Linear

ST ()	118+29.14	3654864.22	5647313.45
POE ()	124+99.13	3654199.48	5647229.74
Tangent Direction:	S 7^10'39" W		
Tangent Length:	669.99		

COORDINATE CONTROL POINTS				
POINT	DESCRIPTION	State Plane Coordinates		
		NORTH (Y)	EAST (X)	ELEV. (Z)
1058	MAG. NAIL	3645801.17	5649151.07	1029.93
1059	MAG. NAIL	3645663.07	5649071.93	1027.36
1060	MAG. NAIL	3645654.51	5649066.81	1026.90
100	MAG. HUB	3645186.58	5648675.88	1019.44
JH 612	KYTC 2000 – MON.	3644401.91	5648654.15	1019.12

BASIS OF HORIZONTAL COORDINATES

Coordinates for Horizontal survey control were obtained from GPS–Static methods and adjusted to the National NAD83/2011 Horizontal Datum.

Coordinates are based on the Kentucky State Plane Coordinate System, Single Zone (KY Zone 1600) and are in U.S. Survey Feet.

SCALE: 1"=n/a		
COUNTY OF	ITEM NO.	SHEET NO.
PERRY	10-20018.00	CC
KENTUCKY 15 - PERRY COUNTY SITE 3		
COORDINATE CONTROL SHEET		

121GR19D065 - FD04

Horizontal Alignment Name: Perry Site 3

Description:

Style: Centerline/Main

STATION

NORTHING

EASTING

Element: Linear

POB ()

297+09.20

3646858.42

5649264.24

PC ()

298+17.79

3646753.66

5649292.82

Tangent Direction: S 15°15'46" E

Tangent Length: 108.59

Element: Circular

PC ()

298+17.79

3646753.66

5649292.82

PI ()

300+67.83

3646512.44

5649358.64

CC ()

3646503.57

5648376.33

CS ()

303+06.77

3646270.07

5649297.19

Radius: 950.00

Delta: 29°29'29" Right

Degree of Curvature(Arc): 6°01'52"

Length: 488.99

Tangent: 250.04

Chord: 483.61

Middle Ordinate: 31.29

External: 32.35

Tangent Direction: S 15°15'46" E

Radial Direction: S 74°44'14" W

Chord Direction: S 0°31'01" E

Radial Direction: N 75°46'17" W

Tangent Direction: S 14°13'43" W

Element: Clothoid

CS ()

303+06.77

3646270.07

5649297.19

SPI ()

304+79.65

3646102.50

5649254.69

ST ()

308+21.77

3645803.29

5649083.62

Entrance Radius: 950.00

Exit Radius: 0.00

Length: 515.00

Angle: 15°31'49" Right

Constant: 699.46

Long Tangent: 344.66

Short Tangent: 172.88

Long Chord: 513.32

Xs: 511.23

Ys: 46.29

P: 11.60

K: 256.87

Tangent Direction: S 14°13'43" W

Radial Direction: N 75°46'17" W

Chord Direction: S 24°35'07" W

Radial Direction: N 60°14'28" W

Tangent Direction: S 29°45'32" W

Element: Linear

ST ()

308+21.77

3645803.29

5649083.62

TS ()

312+77.49

3645407.67

5648857.43

Tangent Direction: S 29°45'32" W

Tangent Length: 455.72

Element: Clothoid

TS ()

312+77.49

3645407.67

5648857.43

SPI ()

314+94.43

3645219.34

5648749.75

SC ()

316+02.49

3645117.87

5648711.09

Entrance Radius: 0.00

Exit Radius: 1046.00

Length: 325.00

Angle: 8°54'04" Left

Constant: 583.05

Long Tangent: 216.94

Short Tangent: 108.58

Long Chord: 324.65

Xs: 324.22

Ys: 16.80

P: 4.20

K: 162.37

Tangent Direction: S 29°45'32" W

Radial Direction: N 60°14'28" W

Chord Direction: S 26°47'33" W

Element: Circular

SC ()	316+02.49	3645117.87	5648711.09
PI ()	320+62.88	3644687.65	5648547.16
CC ()		3644745.44	5649688.54
CS ()	324+69.89	3644276.19	5648753.70

Radius: 1046.00

Delta: 47°30'47" Left

Degree of Curvature(Arc): 5°28'39"

Length: 867.40

Tangent: 460.39

Chord: 842.76

Middle Ordinate: 88.63

External: 96.84

Tangent Direction: S 20°51'28" W

Radial Direction: N 69°08'32" W

Chord Direction: S 2°53'55" E

Radial Direction: S 63°20'41" W

Tangent Direction: S 26°39'19" E

Element: Clothoid

CS ()	324+69.89	3644276.19	5648753.70
SPI ()	325+78.48	3644179.14	5648802.42
ST ()	327+94.89	3644002.65	5648928.57

Entrance Radius: 1046.00

Exit Radius: 0.00

Length: 325.00

Angle: 8°54'04" Left

Constant: 583.05

Long Tangent: 216.94

Short Tangent: 108.58

Long Chord: 324.65

Xs: 324.22

Ys: 16.80

P: 4.20

K: 162.37

Tangent Direction: S 26°39'19" E

Radial Direction: S 63°20'41" W

Chord Direction: S 32°35'24" E

Radial Direction: S 54°26'37" W

Tangent Direction: S 35°33'23" E

Element: Linear

ST ()	327+94.89	3644002.65	5648928.57
POE ()	328+94.60	3643921.54	5648986.55

Tangent Direction: S 35°33'23" E

Tangent Length: 99.70

COUNTY OF	ITEM NO.	SHEET
BREATHITT / PERRY	10-20018	T002

SIGNING SPECIFICATION NOTES

THE FOLLOWING PUBLICATIONS ARE APPLICABLE TO THE WORK DESCRIBED HEREIN:

- KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION)
- STANDARD HIGHWAY SIGNS AND MARKINGS (CURRENT EDITION) -- FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION) -- FEDERAL HIGHWAY ADMINISTRATION

SCOPE OF WORK

TO FURNISH, FABRICATE AND ERECT IN PLACE ALL MATERIALS NECESSARY TO FORM PLANNED SIGNAGE AND LOCATIONS DESCRIBED ELSEWHERE IN THESE PLANS. SIGNAGE TO BE INSTALLED AT EXISTING LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

SIGN SUBSTRATES

SIGN SUBSTRATES SHALL CONFORM TO SECTION 833 OF KENTUCKY'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) AND THESE PLANS. PANEL SIGNS SHALL BE LABELED AS P-*, SHEETING SIGNS SHALL BE LABELED AS S-*,

SIGN MATERIALS

- SIGN SHEETING
 - SIGN SHEETING SHALL CONFORM TO SECTION 830 OF KENTUCKY'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) AND THESE PLANS. ONLY SHEETING ON THE DEPARTMENT'S LIST OF APPROVED MATERIALS SHALL BE USED.
 - ALL RETROREFLECTIVE MATERIALS SHALL BE FABRICATED AND ASSEMBLED IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS AND/OR RECOMMENDATIONS.
 - THE FOLLOWING SIGNS AND SIGN COMPONENTS SHALL BE FABRICATED USING TYPE IX SHEETING:
 - WHITE SIGN LEGENDS INCLUDING ROUTE MARKERS ON PANEL SIGNS
 - STOP (R1-1) SIGNS
 - ALL WAY (R1-3P) SIGNS
 - YIELD (R1-2) SIGNS
 - DO NOT ENTER (R5-1) SIGNS
 - WRONG WAY (R5-1A) SIGNS
 - THE FOLLOWING SIGNS SHALL BE FABRICATED USING TYPE IX FLUORESCENT SHEETING:
 - ADVISORY SPEED (W3-1P) SIGNS
 - FIGURE 2C-1 OF THE MUTCD
 - ALL ADVISORY SPEED (W3-1P) PLAQUES
 - SCHOOL AND SCHOOL BUS WARNING SIGNS, INCLUDING THE FLUORESCENT YELLOW-GREEN SIGNS SHOWN IN FIGURES 7B-1 AND 7B-6 OF THE MUTCD AND OTHER SCHOOL-RELATED WARNING SIGNS THAT ARE NOT INCLUDED IN THE MUTCD
 - BICYCLE WARNING (W11-1) SIGNS AND ANY SUPPLEMENTAL PLAQUES, SUCH AS "SHARE THE ROAD"
 - PEDESTRIAN WARNING (W12-1) SIGNS AND ANY SUPPLEMENTAL PLAQUES
 - PLACQUES THAT SUPPLEMENT PEDESTRIAN WARNING SIGNS
 - IN-STREET PEDESTRIAN CROSSING (R1-6) SIGNS AND OVERHEAD PEDESTRIAN CROSSING (R1-9) SIGNS
 - SUPPLEMENTAL PLAQUES TO ANY OF THE PREVIOUSLY LISTED FLUORESCENT YELLOW-GREEN SIGNS LISTED ABOVE
- ALL OTHER PERMANENT SIGNS (INCLUDING THE BACKGROUNDS OF PANEL SIGNS) SHALL BE FABRICATED USING TYPE III OR TYPE IV SHEETING.
- LETTERS, SYMBOLS, AND BORDERS
 - PANEL OVERLAY SECTIONS SHALL BE AFFIXED WITH A "POP" RIVET WITH A MINIMUM DIAMETER OF 3/16 INCH, AND THE LENGTH SHALL BE AS NECESSARY TO PROPERLY APPLY COPY IN A WORKMANLIKE MANNER.
- HARDWARE
 - ALL HARDWARE FOR THE ASSEMBLY OF PANEL SIGNS AND THE ATTACHMENT OF THESE SIGNS TO THEIR SUPPORTS SHALL BE AS RECOMMENDED BY THE PANEL MANUFACTURER.
 - PLACEMENT OF POST CLIP SHALL BE AS SHOWN ON THE SIGNING MISCELLANEOUS DETAIL SHEET.
 - ALL HARDWARE FOR THE ERECTION OF SHEETING SIGNS SHALL BE CADMIUM PLATED STEEL IN ACCORDANCE WITH ASTM B-776 AND ASTM A-307.
- EDITS:
 - STANDARD ALPHABETS SHALL BE USED FOR ALL LEGENDS ON PANEL GUIDE SIGNS.

GROUND-MOUNTED SIGN SUPPORTS

GENERAL:

ALL SIGNS SHALL BE POSITIONED AS SHOWN ON THE POSITIONING DETAIL SHEET. ALL BEAMS AND POSTS SHALL BE OF SUFFICIENT LENGTHS TO EXTEND FROM THE TOP OF THE SIGN TO THE REQUIRED BASE EMBEDMENT. EXISTING I-BEAMS ON WHICH SHEETING SIGNS ARE ATTACHED SHALL BE REMOVED AND REPLACED WITH TYPE I OR TYPE II POSTS, UNLESS THEY ARE LOCATED BEHIND GUARDRAIL.

BEAMS:

ALL BEAMS SHALL BE EITHER TYPE "A" (STANDARD BEAM INSTALLATION) OR TYPE "C" (BREAKAWAY SIGN POST SUPPORT SYSTEM INSTALLATION). TYPE "A" BEAMS ARE SHOWN ON THE PANEL SIGN DETAIL SHEET, AND THE TYPE "C" BEAMS ARE SHOWN ON THE BREAKAWAY SIGN SUPPORT SYSTEM DETAIL SHEET. TYPE "A" BEAMS SHALL BE USED FOR ALL SHEETING SIGNS, UNLESS THE LIST OF APPROVED MATERIALS SHALL BE USED. THE TYPE AND SIZE OF BEAM TO BE USED SHALL BE INDICATED FOR EACH PANEL SIGN ON THE SIGN DETAIL SHEETS. BEAM LENGTHS INCLUDED IN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AT EACH SIGN LOCATION AND CROSS SECTIONS SHALL BE DEVELOPED TO VERIFY BEAM LENGTHS, WITH ANY DISCREPANCIES BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

STEEL POSTS:

TYPE I STEEL POSTS SHALL BE EITHER STANDARD INSTALLATION IN SOIL, WITH SOIL STABILIZER, OR TYPE "D" (BREAKAWAY SIGN POST SUPPORT SYSTEM INSTALLATION). ONLY BREAKAWAY TYPE "D" POST SYSTEMS ON THE DEPARTMENT'S LIST OF APPROVED MATERIALS SHALL BE USED. BRACING, IF REQUIRED, SHALL BE INCIDENTAL TO TYPE I POST.

TYPE II POST SHALL BE STANDARD INSTALLATION IN SOIL WITH A SOIL STABILIZER. INSTALLATION PROCEDURES AND BRACING REQUIREMENTS ARE DETAILED ON THE SHEETING SIGN DETAIL SHEET.

ALL STEEL POSTS SHALL MEET THE REQUIREMENTS OF SECTION B32 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

MILEPOST MARKERS AND ENHANCED REFERENCE MARKERS

MILEPOST MARKERS AND ENHANCED REFERENCE LOCATION SIGNS SHALL CONFORM TO THE GENERAL REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION). ADDITIONAL REQUIREMENTS ARE GIVEN ON THE SIGNING POSITIONING DETAIL SHEET AND ENHANCED REFERENCE LOCATION SIGNS DETAIL SHEET.

FOR THE LOUISVILLE AREA, FINAL LOCATION OF ENHANCED REFERENCE LOCATION SIGNS SHALL BE VERIFIED BY TRIMARC. NOTIFY A REPRESENTATIVE OF TRIMARC AT LEAST TWO WEEKS IN ADVANCE OF BEGINNING WORK ON THIS ITEM.

901 WEST MAIN STREET
LOUISVILLE, KY 40202
502-587-6624
270-307-7456

MEDIAN CROSSOVER SIGNS

THE CONTRACTOR SHALL INSTALL 48" X 48", "NO U TURN" SIGNS (R3-4) AT EACH MEDIAN CROSSOVER. THESE SIGNS SHALL BE DONE WHETHER OR NOT THE CROSSOVER MEDIAN IS SIXTY FEET (60') WIDE OR LESS. THE SIGNS SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY ON THE SAME POSTS IN THE CENTER OF THE MEDIAN, ONE FACING TRAFFIC IN EACH DIRECTION. AT CROSSOVERS ON MEDIANS OVER SIXTY FEET (60') WIDE, THE SIGNS SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY ON SEPARATE POSTS AT THE MEDIAN SHOULDER ON THE FAR SIDE OF THE CROSSOVER, ONE FACING TRAFFIC IN EACH DIRECTION. FOR ADDITIONAL GUIDANCE, SEE SEPTA DRAWING FOR FLEXIBLE DELINEATOR POST ARRANGEMENT FOR INTERCHANGE RAMPS AND CROSSOVERS.

CONCRETE BASES

ALL CONCRETE BASES SHALL BE OF CLASS "A" CONCRETE FOR SIGNS AND SHALL BE AS SHOWN ELSEWHERE IN THESE PLANS. EXCAVATION NECESSARY TO CONSTRUCT BASES AND FOOTINGS IS INCIDENTAL TO THE COST OF CLASS "A" CONCRETE FOR SIGNS.

CONCRETE BASES (CONTINUED)

WHERE THE REMOVAL OF OVERHEAD STRUCTURE CONCRETE BASE IS CALLED FOR, THE BASE IS TO BE REMOVED TO A MINIMUM OF ONE FOOT (1') BELOW THE GROUND LINE, BACKFILLED TO EXISTING GROUND LINE, AND THE DISTURBED AREA RESEDED.

WHERE THE REMOVAL OF BEAM SIGN SUPPORTS IS CALLED FOR, THE BEAM AND ANY CONCRETE PROJECTING ABOVE THE GROUND LINE ARE TO BE CUT OFF A MINIMUM OF ONE FOOT (1') BELOW EXISTING GROUND LINE OR THE ENTIRE BEAM AND CONCRETE BASE ARE TO BE REMOVED COMPLETELY AND BACKFILLED TO EXISTING GROUND LINE.

SAMPLES, TESTING, ETC.

BEFORE BEGINNING INSTALLATION, THE CONTRACTOR SHALL FURNISH TO THE PROJECT ENGINEER "C" SAMPLES AND DESCRIPTIONS OF MANUFACTURER'S CUTS FOR WRITTEN APPROVAL OF ALL MATERIALS TO BE USED. WILL TEST REPORTS FOR BEAMS, STEEL PANELS, AND EACH DIFFERENT GAUGE OF ALUMINUM OR STEEL SHEETING USED MUST BE SUBMITTED TO THE DIVISION OF CONSTRUCTION AND APPROVED PRIOR TO ERECTION.

MISCELLANEOUS

THE COST FOR REMOVING EXISTING PANEL SIGNS SHALL BE INCIDENTAL TO THE COST OF THE PROJECT.

ON SHEETING SIGNS WHERE THERE ARE MORE THAN ONE SIGN ASSEMBLY MOUNTED BESIDE EACH OTHER, THE POSTS SHALL BE SPACED TO PROVIDE APPROXIMATELY SIX INCHES (6") OF SPACING BETWEEN SIGNS.

CLEARING AND GRUBBING, AND TREE TRIMMING, WHEN REQUIRED FOR CONSTRUCTION OR VISIBILITY OF SIGNS, SHALL BE INCIDENTAL TO THE CONTRACT.

SIGN COVERING IS NOT RECOMMENDED. HOWEVER, IF IT IS ABSOLUTELY NECESSARY TO COVER THE SIGN FACE TEMPORARILY FOLLOWING ERECTION, USE CAUTION SINCE SOME COVERINGS MAY CAUSE PERMANENT DAMAGE TO THE SIGN FACE FOLLOWING EXPOSURE TO MOISTURE, SUNLIGHT, ETC. POROUS CLOTH OR GEOTEXTILE FABRIC COVERS WHICH ARE FOLDED OVER THE SIGN EDGES AND SECURED AT THE BACK OF THE SIGN HAVE BEEN USED SUCCESSFULLY FOR LIMITED PERIODS. DO NOT USE TAPE, PAPER, PLASTIC, OR SHEET METAL COVERS. ANY SIGNS THAT ARE DAMAGED AS A RESULT OF COVERING SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT.

TYPE I AND II STEEL POSTS IN SOIL SHALL BE DRIVEN 30" TO 34" BELOW THE GROUND SURFACE. TYPE I AND II STEEL POSTS SHALL BE DRIVEN TO THE GROUND SURFACE. ALL STEEL SHALL DRILL HOLES OF THE REQUIRED DEPTH INTO THE ROCK AND BACKFILL WITH CONCRETE. THE COST SHALL BE INCIDENTAL TO STEEL POST, AND SOIL STABILIZERS WILL NOT BE REQUIRED.

ANY AREA DISTURBED SHALL BE SLOPE GRADED TO THE EXISTING SLOPES AND RESEDED AS DIRECTED BY THE ENGINEER. AT NO ADDITIONAL COST TO THE DEPARTMENT.

REMOVE AND DO NOT REPLACE THE WHITE ON BLUE GENERAL SERVICES SIGNS AT THE EXIT RAMP TERMINALS, "EMERGENCY STOPPING ONLY" SIGNS, AND THE ROUTE MARKER THAT IS LOCATED INSIDE THE INTERCHANGE PAST THE EXIT GORE AREA.

INSTALLATION OF ADVISORY EXIT AND RAMP SPEED SIGNS (W3-2 AND W3-3) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

ALL EXISTING SHEETING SIGNS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REMOVED AND REPLACED WITH NEW SIGNS AND POSTS. SIGNS AND POSTS SHALL CONFORM TO CURRENT STANDARDS/SPECIFICATIONS. THE COST FOR REMOVING EXISTING SHEETING SIGNS AND POSTS, RELOCATING EXISTING SIGNS AND POSTS TO CONFORM TO THE SIGNING PLANS AND SPECIFICATIONS, AND ALL HARDWARE REQUIRED, SHALL BE INCIDENTAL TO THE PROJECT. IN ADDITION TO REPLACING EXISTING SIGNS AND POSTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SIGNS AND SPECIFICATIONS. SEE THE CURRENT PROJECT SIGNING PLAN DETAIL SHEETS.

THE COST FOR SIGN BRACKETS AND ANY OTHER HARDWARE REQUIRED TO ATTACH NEW SIGNS ON EXISTING POSTS AND CANTILEVERS SHALL BE INCLUDED IN THE UNIT PRICE OF SIGN BASE MATERIAL FOR PANEL SIGNS.

DUPLICATE SIGNS SHALL NOT BE DISPLAYED DURING THE CONSTRUCTION OF THIS PROJECT.

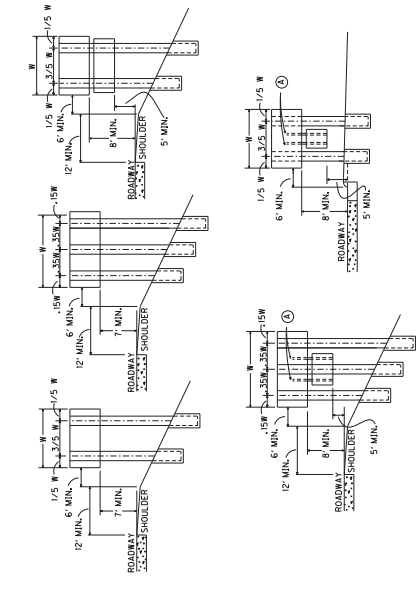
SHEETING SIGNS 01'-1, D1'-2, D1'-3 EQUAL TO OR LESS THAN 72" X 42" REQUIRE TWO TYPE I OR TYPE II POSTS.

THE HORIZONTAL CLEARANCE "X" ON ALL THE SHEETING SIGNS SHOULD BE A MINIMUM OF 6' FROM THE EDGE OF THE SHOULDER TO THE EDGE OF THE SIGN OR A MINIMUM OF 12' FROM THE EDGE OF THE SIGN TO THE EDGE OF THE TRAVELLED WAY AS SHOWN IN THE SIGNING POSITIONING DETAIL SHEET.

IF ANY SIGN IS LOCATED NEAR A LUMINAIRE OR ANOTHER POLE, IT SHALL BE INSTALLED IN ADVANCE OF THE POLE SO THAT THE MOTORISTS VIEW OF THE SIGN WILL NOT BE OBSTRUCTED. SIGNS THAT DO NOT COMPLY WITH THE MUTCD SHALL BE REMOVED BY THE CONTRACTOR AS APPROVED AND DIRECTED BY THE ENGINEER.

SIGNING SPECIFICATION SHEET

MILEPOST MARKERS



Ⓐ ATTACHMENT OF SECONDARY SIGN TO MAJOR SIGN IS TO BE MADE WITH TWO (2) 3" X 3" X $\frac{3}{4}$ " ANGLES OF SUFFICIENT LENGTH TO EXTEND FROM THE LOWER EDGE OF THE SECONDARY SIGN TO AT LEAST THREE FEET UP THE BACK OF THE MAJOR SIGN, A MINIMUM OF ONE POST CLIP PER FOOT SHALL BE USED IN ATTACHING EXTRUSIONS TO EACH ANGLE.

SHEETING SIGNS

RURAL APPLICATIONS

URBAN APPLICATIONS

NOTE: SHOULD A SIGN BE LOCATED AT A POINT WHERE GUARDRAIL IS CALLED FOR OR EXISTING, ALL SIGN SUPPORTS SHALL BE PLACED BEHIND THE GUARDRAIL AND LATERAL OFFSET SHALL BE MEASURED FROM THE GUARDRAIL.

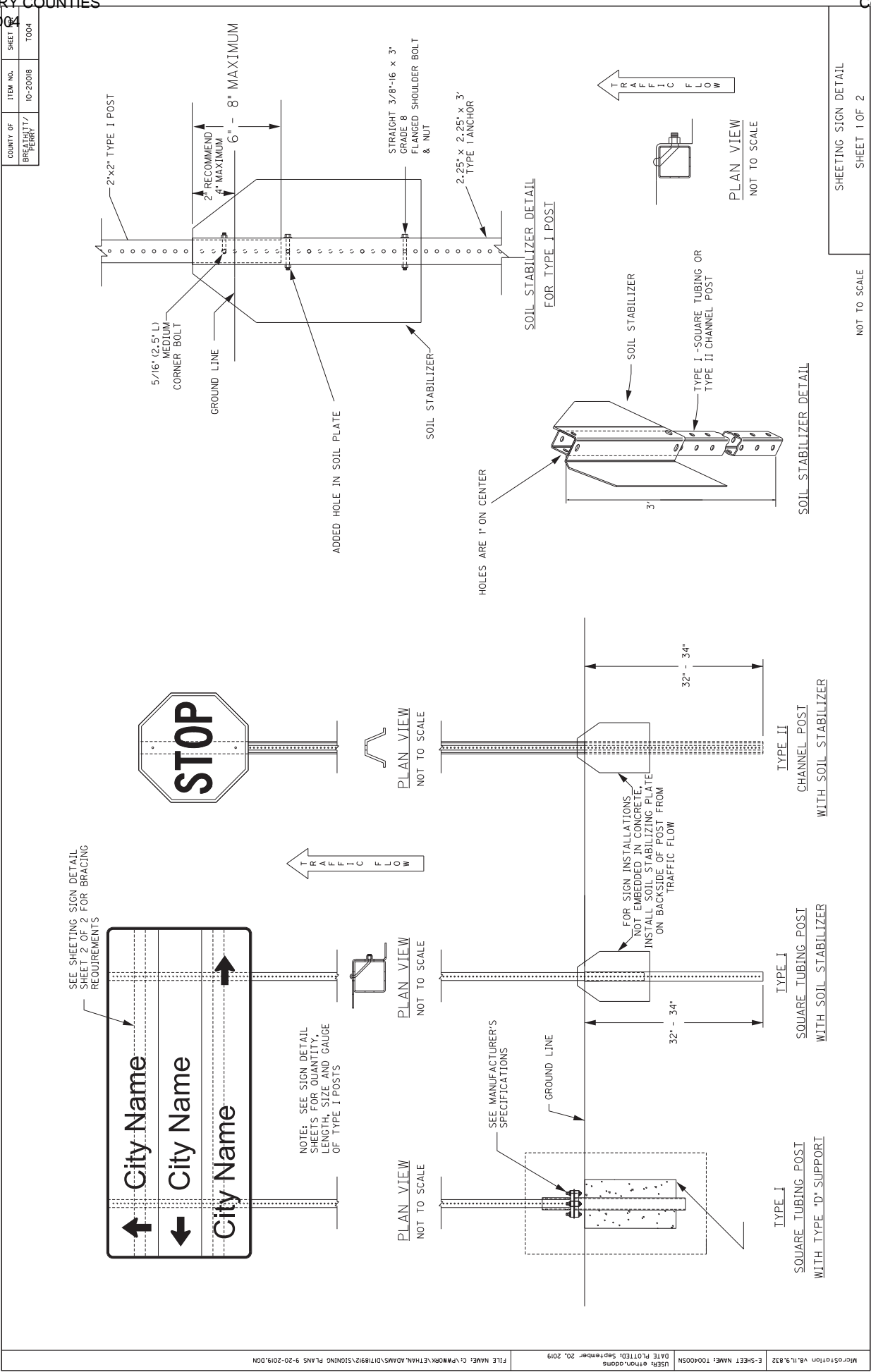
TRAFFIC



NOTE: STATION NUMBERS ARE GIVEN FOR NOTED DIRECTION OF TRAVEL ONLY.
CORRESPONDING MILEPOST MARKERS FOR OTHER DIRECTION SHOULD BE PLACED
DIRECTLY OPPOSITE THOSE FOR WHICH STATION NUMBERS ARE GIVEN.

IN JEFFERSON COUNTY, FINAL LOCATION OF MILEPOST MARKERS SHALL BE VERIFIED
BY TRIMARC. NOTIFY TRIMARC AT LEAST TWO WEEKS PRIOR TO BEGINNING WORK
ON THIS ITEM:

ITEM:
901 WEST MAIN STREET
LOUISVILLE, KY 40202
502-587-6624
270-307-7456



FILE NAME: C:\PWORK\KETHAN.ADMAS\071819\SIGNING PLANS 9-20-2019.DWG

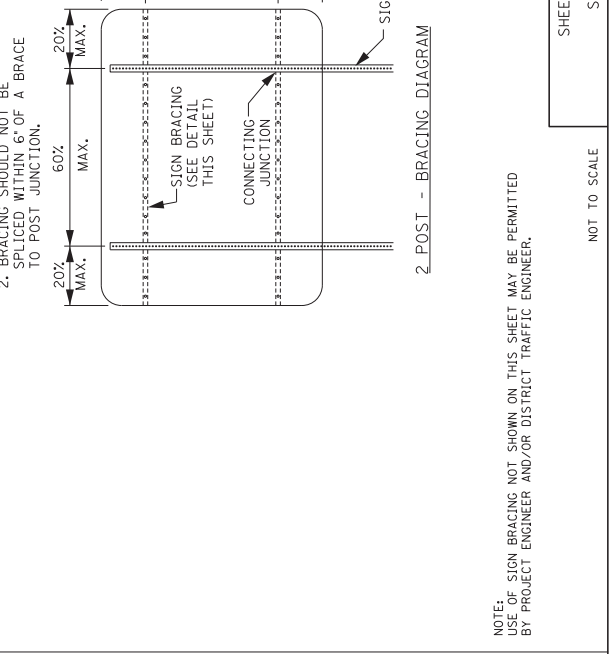
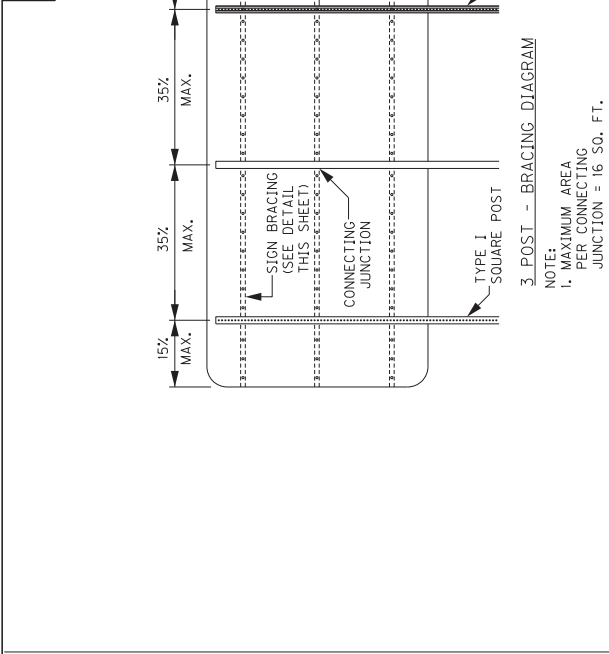
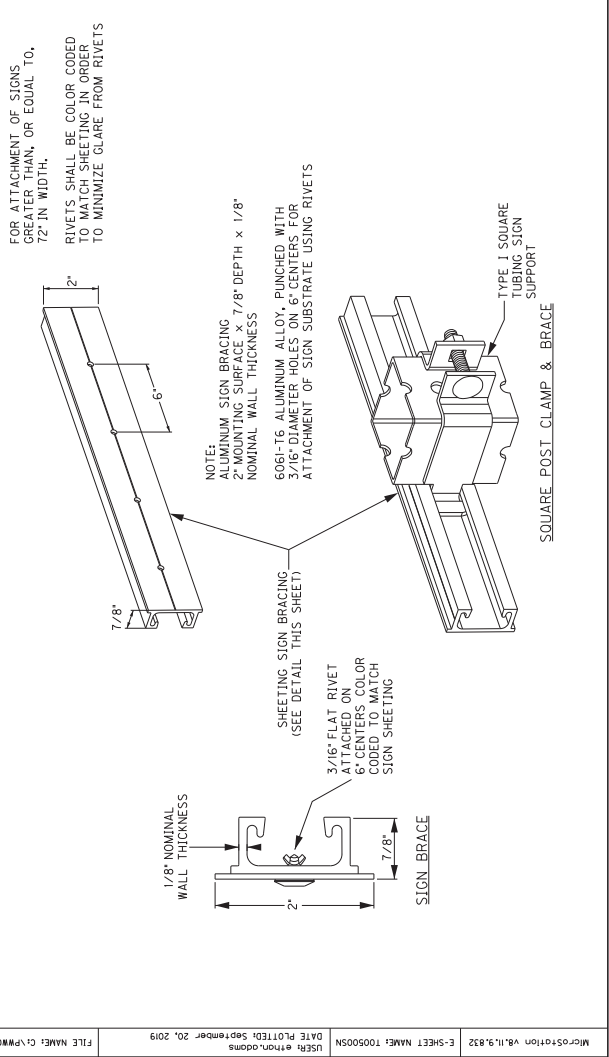
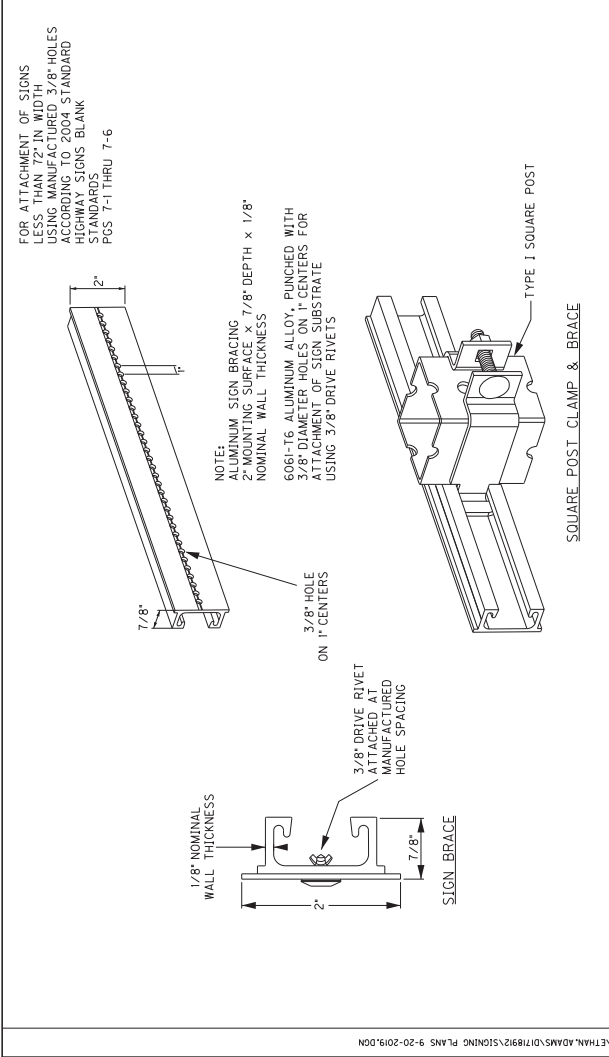
USFR: ethon.adams
DATE PLOTTED: September 20, 2019

E-SHEET NAME: T004005H

MicroStation v8.11.9.832

SHEETING SIGN DETAIL
SHEET 1 OF 2

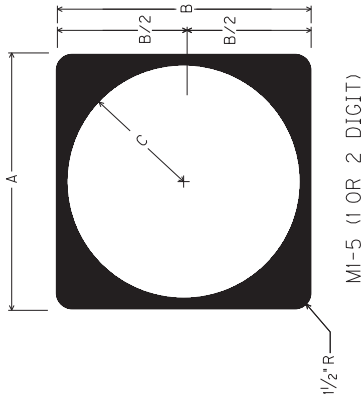
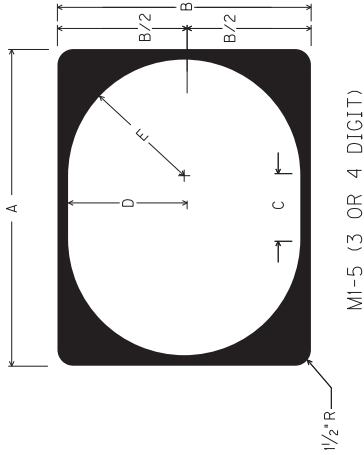
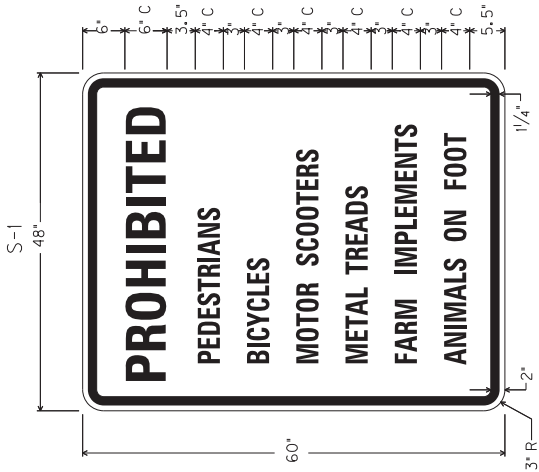
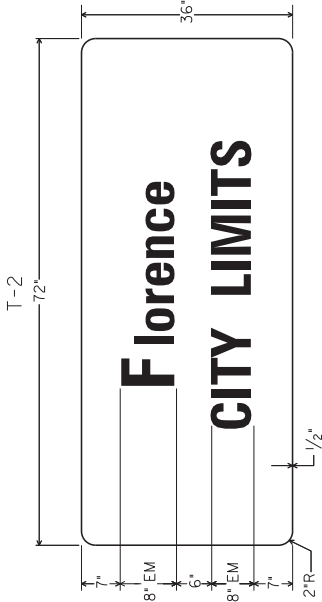
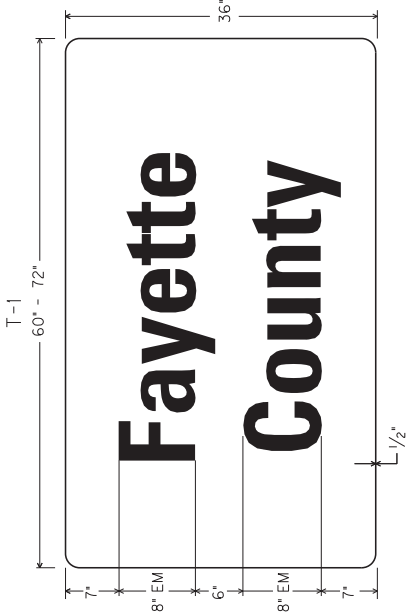
COUNTY OF	ITEM NO.	SHEET
POWELL	10-9009.00	T005



NOT
TO SCALE

COUNTY OF	ITEM NO.	SHEET
BREATHITT/ PERRY	10-20018	T007

USF&S e:\perry\adams	DATE PLOTTED: September 20, 2019	FILE NAME: C:\P\WORK\ETHAN.ADAMS\071819\2\SIGNING PLANS 9-20-2019.DGN
C-SHEET NAME: T007005N		
USF&S e:\perry\adams	DATE PLOTTED: September 20, 2019	FILE NAME: C:\P\WORK\ETHAN.ADAMS\071819\2\SIGNING PLANS 9-20-2019.DGN



	FONT			
	3 DIGIT	4 DIGIT	12B	18B
CONVENTIONAL	30"	24"	11"	16.5"
EXPRESSWAY/ FREEWAY	45"	36"	16.5"	18D

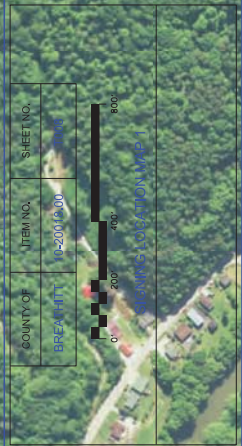
	FONT		
	A	B	C
CONVENTIONAL	24"	24"	11"
EXPRESSWAY/ FREEWAY	36"	36"	17"

NOTE: EXPRESSWAY/FREEWAY DEFINED
AS A DIVIDED HIGHWAY WITH PARTIAL
OR FULL CONTROL OF ACCESS

NOTE: FOR ROUTE MARKERS, IF NECESSARY,
ADJUSTMENTS TO THE DIGIT LAYOUT AND/OR FONT
TYPE MAY BE MADE TO ENSURE VISUAL ACUITY

TYPICAL SIGNS

NOT TO SCALE





COUNTY OF
BREATHITT

ITEM NO.
05001850

SHEET NO.
2008

0' 200' 400' 600'

STANDARD CONSTRUCTION



SCALE 1"=200'

COUNTY OF	ITEM NO.	SHEET NO.
BREATHITT	14.0001	14.0001

0' 100' 200'

GRAPHIC SCALE BAR



Scale: 1"=200'

COUNTY OF	ITEM NO.	SHEET NO.
BREATHITT	121GR19D065	82

0 200 400

Scale: 1"=200'





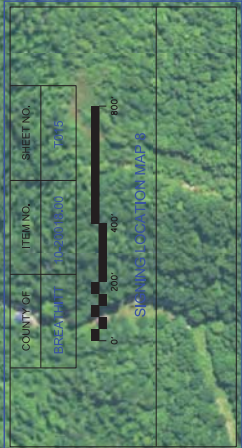
SCALE: 1"=200'

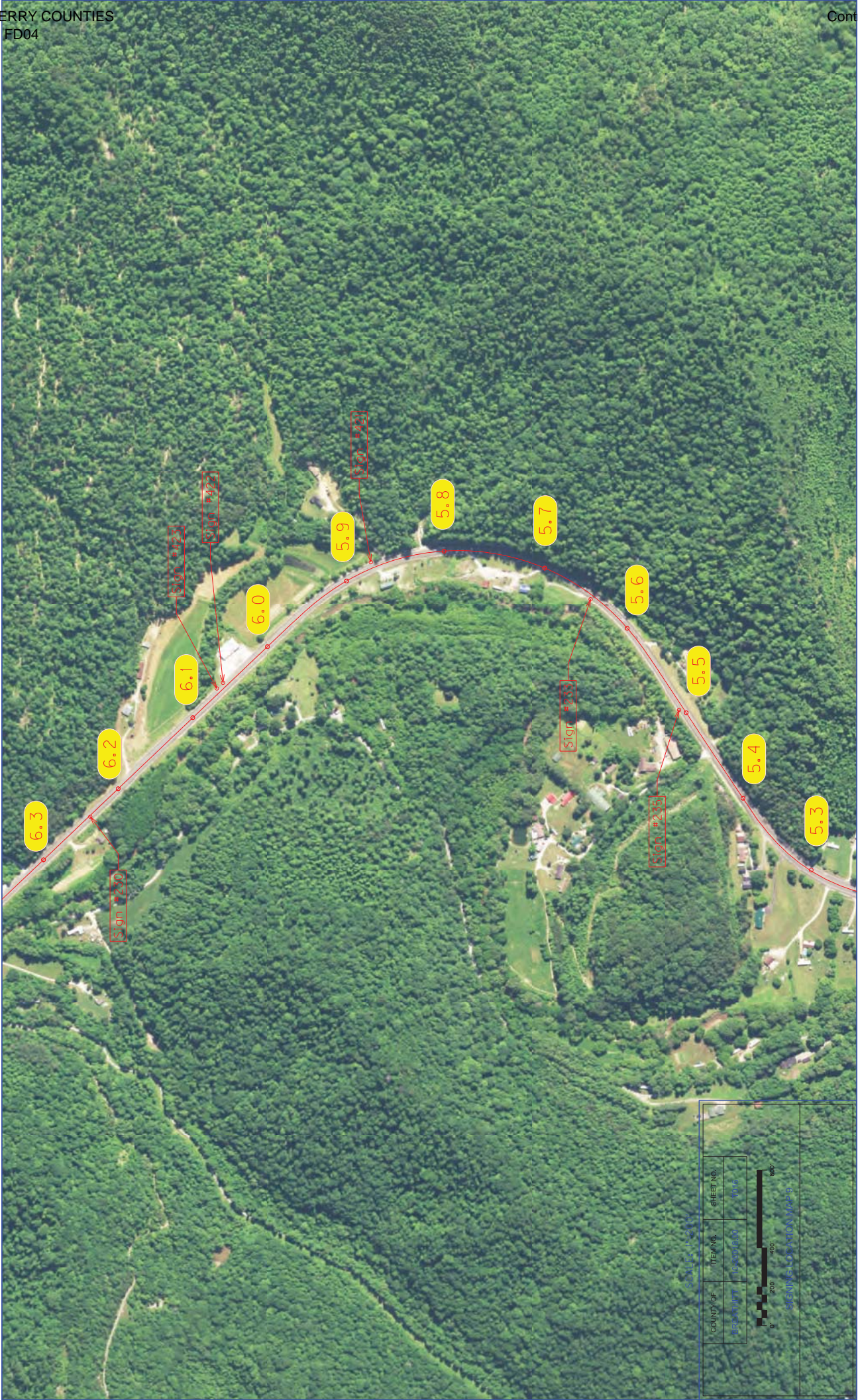
COUNTY OF	ITEM NO.	SHEET NO.
BREATHITT	4521-001	T013

0' 200' 400'

SIGNING LOCATION MAP 6





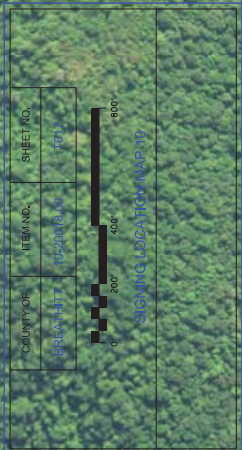


Scale 1" = 100'

COUNTY OF	TOWNSHIP	SHEET NO.
BREATHITT	14	100

0 200 400 Feet

121GR19D065-FD04



COUNTY	ITEM NO.	SHEET NO.
BREATHITT	121GR19D065	704



SCALE: 1"=200'

COUNTY OF	ITEM NO.	SHEET NO.
BRE-19077	10/20/2020	2/15

0 200 400 600 800'

GRAPHIC LOCATION MAP



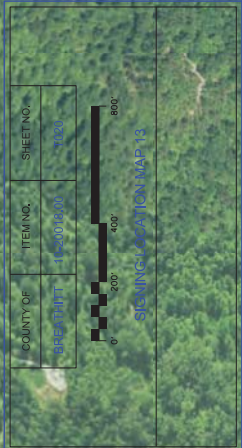
Sheet 1 of 2

COUNTY OF	ITEM NO.	SHEET NO.
BREATHITT	121GR19D065	90

0 100 200 300 400 500

FEET

PROJECT LOCATION MAP



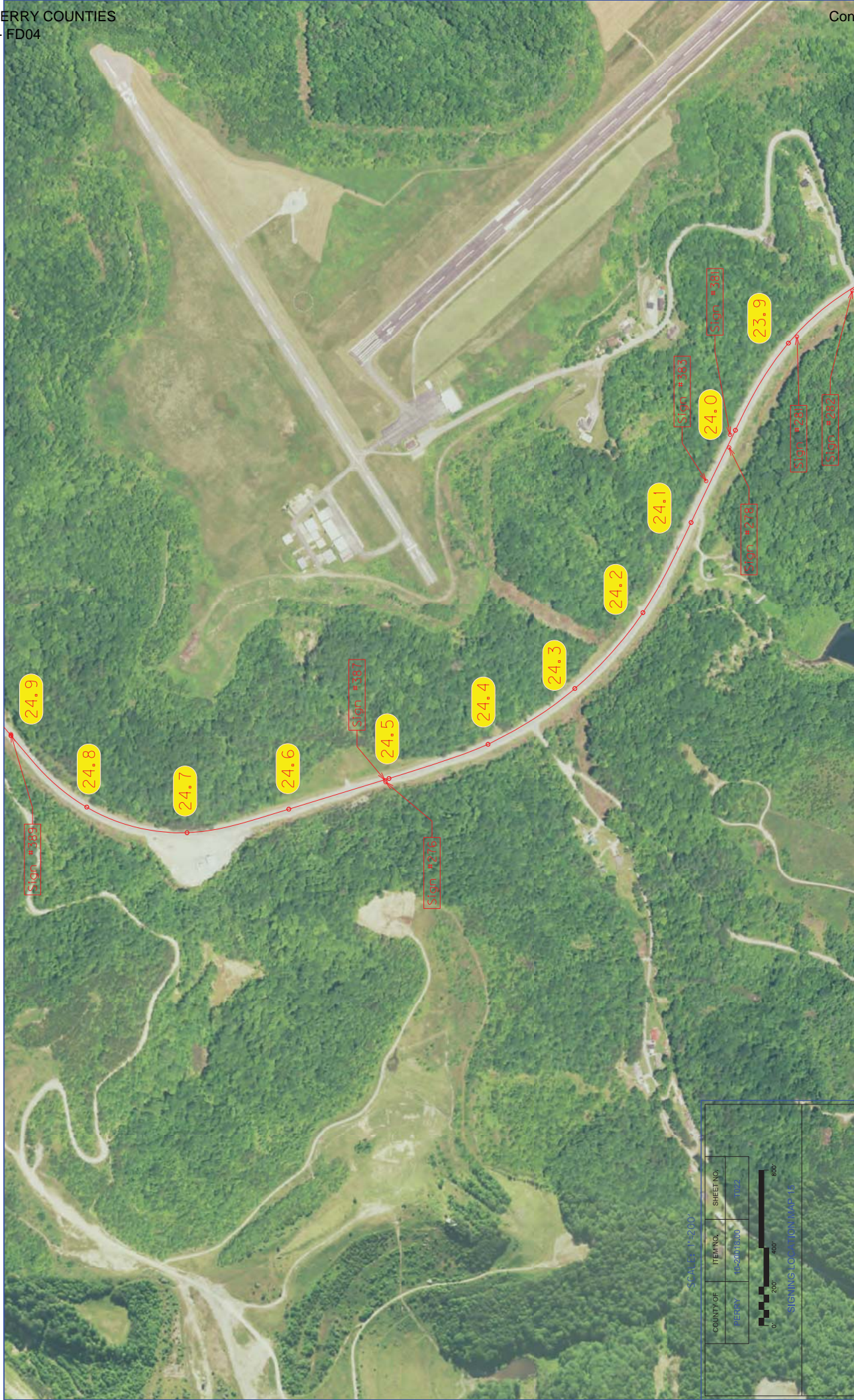


SCALE: 1"=200'

COUNTY OF	ITEM NO.	SHEET NO.
WYOMING	10-200-00-00	92

200' 400' 800'

Scale is to be used as a guide only.



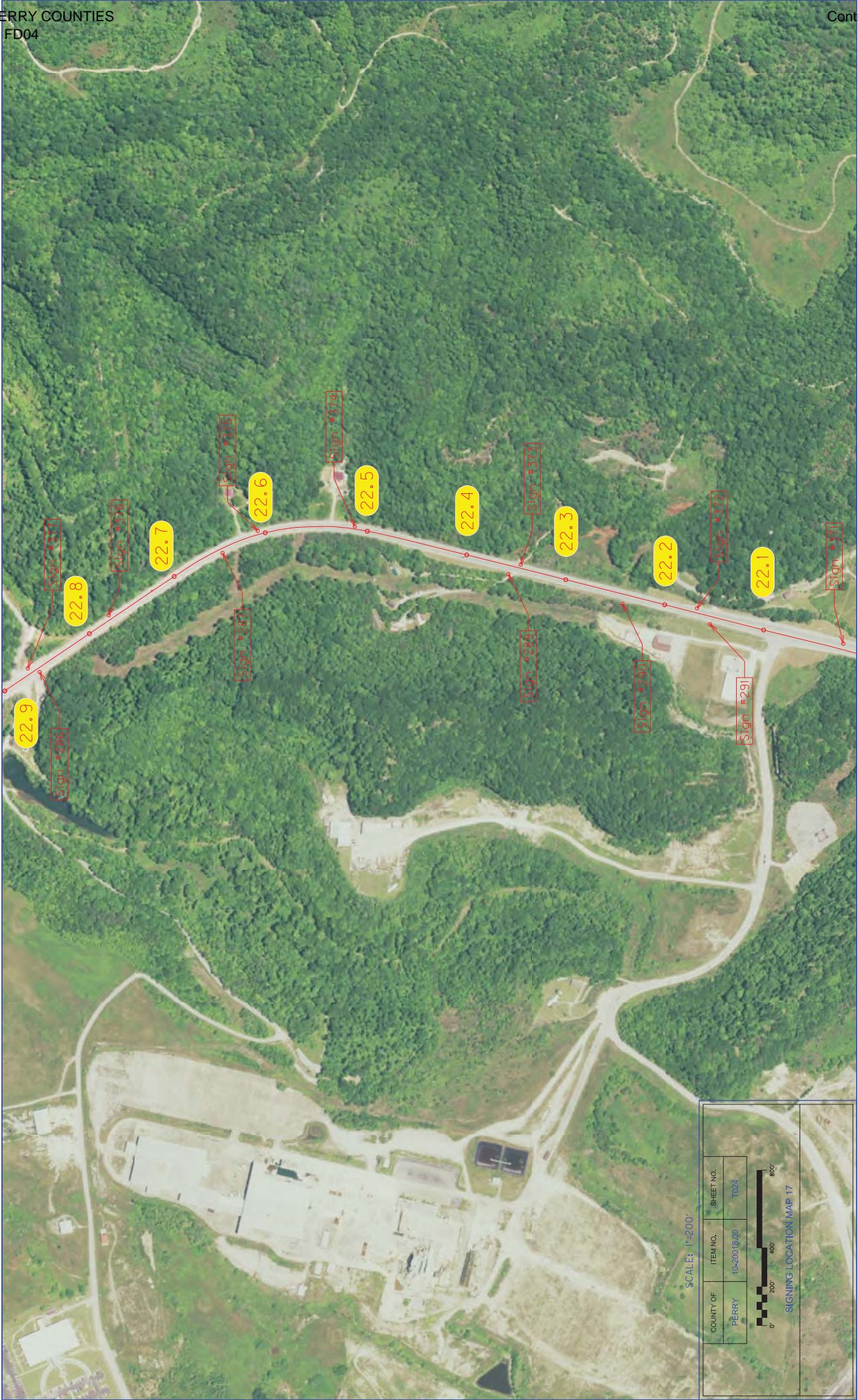


SCALE: 1"=200'

COUNTY OF	ITEM NO.	SHEET NO.
PERRY	10-20018.00	T023

0' 200' 400' 800'

SIGNING LOCATION MAP 16





COUNTY OF
Breathitt

ITEM NO.
121GR19D065

SHEET NO.
1004

0 200' 400' 800'

GRAPHIC LOCATION MAP IS



Scale: 1"=200'

COUNTY OF	ITEM NO.	SHEET NO.
W. KY.	19-07-KL-04	T02L

0' 200' 400' 600'

SCANNING LOCATION MAP 79



SCALE: 1"=200'

COUNTY OF	ITEM NO.	SHEET NO.
PERRY	10-20018.00	T027

0 200' 400' 800'

SCANNING LOCATION MAP 20



Scale: 1" = 300'

0 200 300














North Arrow

COUNTY OF	ITEM NO.	SHEET NO.
BREATHITT	121GR19D065	99






SHEETING SIGNS DETAIL SHEET

[illegible]

SHEETING SIGNS DETAIL SHEET															
SIGN/ASSEMBLY NUMBER	SIZES IN INCHES		MESSAGES	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		SIDE OF ROAD	FACING TRAFFIC	ON ROAD	AT STATION (APPROXIMATE)	SIGN LOCATION	SIDE OF ROAD	FACING TRAFFIC	
	HORIZ.	VERT.				RIGHT	LEFT								RIGHT
159	72	30		CUSTOM	RIGHT										
160	72	30		DL-2	RIGHT										
	72	18			RIGHT										
161	24	30		M-5.2 (30)	RIGHT										
	21	15			RIGHT										
162	40	20		CUSTOM	RIGHT										
	40	20			RIGHT										
163				CUSTOM											
164	24	12		M-5.3	RIGHT										
	24	24			RIGHT										
SIGN/ASSEMBLY NUMBER	SIZES IN INCHES		MESSAGES	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		SIDE OF ROAD	FACING TRAFFIC	ON ROAD	AT STATION (APPROXIMATE)	SIGN LOCATION	SIDE OF ROAD	FACING TRAFFIC	
	HORIZ.	VERT.				RIGHT	LEFT								RIGHT
165	21	15		M-5.3 (1098)	RIGHT										
	30	24			RIGHT										
	21	15			RIGHT										
166	30	24		R-3, 7R	RIGHT										
167	40	20		CUSTOM	RIGHT										
	40	20			RIGHT										
168	30	24		M-5.3 (1098)	RIGHT										
	24	15			RIGHT										
169	24	6		CUSTOM	RIGHT										
	36	36			RIGHT										
170	36	36		W-8.14	RIGHT										
SIGN/ASSEMBLY NUMBER	SIZES IN INCHES		MESSAGES	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		SIDE OF ROAD	FACING TRAFFIC	ON ROAD	AT STATION (APPROXIMATE)	SIGN LOCATION	SIDE OF ROAD	FACING TRAFFIC	
	HORIZ.	VERT.				RIGHT	LEFT								RIGHT
171	24	12		M-5.3	RIGHT										
	24	24			RIGHT										

FILE NAME: C:\P\WORK\KENTHAIN_ADM\510718912\SIGNING PLANS 9-20-2019.DGN
DATE PLOTTED: September 20, 2019
USER: ethon.odams
E-SHEET NAME: 104000SN
MicroStation v8.11.9.832

SHEETING SIGNS
SHEET 2

SHEETING SIGNS DETAIL SHEET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES ①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION			SIDE OF ROAD	FACING TRAFFIC	ON ROAD	AT STATION (APPROXIMATE)	SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES ①	SPECIFICATION	SIDE OF	FACING TRAFFIC	SIGN LOCATION			COUNTY OF	ROUTE	SHEET NO.	ITEM NO.	10-2008	T032																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
171	24	12		M3.3	RIGHT	SOUTH	KY 15	MP 14.617	RIGHT	SOUTH	KY 15	MP 14.617	171	48	36		W14.3	LEFT	NORTH	KY 15	MP 14.358	177		177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	1





FILE NAME: C:\P\WORK\ETHAN.ADAMS\071819\2\SIGNING PLANS 9-20-2019.DWG

DATE PLOTTED: September 20, 2019

USER: ethan.adams

C-SHEET NAME: 104003N

MicroStation v8.11.9.832

SHEETING SIGNS DETAIL SHEET														
SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES ①	SPECIFICATION	SIGN LOCATION			SIDE OF ROAD	FACING TRAFFIC TRAVELING	ON ROAD	AT STATION (APPROXIMATE)	SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	
183	48	36		W4.3	LEFT	NORTH	KY 15	MP 12.737				189		
184	36	36		CUSTOM	RIGHT	SOUTH	KY 15	MP 12.602				190	48	36
185												191		
186	48	36		W4.3	LEFT	NORTH	KY 15	MP 11.714				192	48	36
187												193	48	48
													24	24
188	36	36		S3.1	RIGHT	SOUTH	KY 15	MP 11.027				194		










SHEETING SIGNS
SHEET 4

FILE NAME: C:\P\WORK\ETHAN.ADAMS\071819\2\SIGNING PLANS 9-20-2019.DGN

DATE PLOTTED: September 20, 2019














USERS: ethan.adams
C-SHEET NAME: 104005N
MicroStation V8i, 9.8.32

SHEETING SIGNS DETAIL SHEET

COUNTIES																	
SHEETING SIGNS DETAIL SHEET																	
SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES ①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		AT STATION (APPROXIMATE)	SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES ①	SPECIFICATION	SIDE OF	SIGN LOCATION		AT STATION (APPROXIMATE)
						FACING TRAFFIC TRAVELING	ON ROAD			FACING TRAFFIC	ON ROAD						
195	21	15		M2.1	RIGHT	SOUTH	KY 15	MP 9.345	201	24	12		M3.3	RIGHT	SOUTH	KY 15	MP 9.136
	30	24		M1.5.3 (1100)	RIGHT	SOUTH	KY 15	MP 9.345		M1.5.2 (15)	RIGHT		SOUTH	KY 15	MP 9.136		
196									202	72	36		D2.2	RIGHT	SOUTH	KY 15	MP 9.126
197	30	30		CUSTOM	RIGHT	SOUTH	KY 15	MP 9.318	203	24	30		R2.1 (55)	RIGHT	SOUTH	KY 15	MP 9.077
	24	18		W16.2P	RIGHT	SOUTH	KY 15	MP 9.318		W14.3	LEFT		NORTH	KY 15	MP 9.077		
198	30	24		M1.5.3 (1100)	RIGHT	SOUTH	KY 15	MP 9.248	204	36	36		S3.1	RIGHT	SOUTH	KY 15	MP 9.016
	21	15		M6.1R	RIGHT	SOUTH	KY 15	MP 9.248									
199									205	48	36		W14.3	LEFT	NORTH	KY 15	MP 8.528
200	24	30		CUSTOM	RIGHT	SOUTH	KY 15	MP 9.148	206								
	24	30		CUSTOM	LEFT	NORTH	KY 15	MP 9.148									

SHEETING SIGNS
SHEET 5

SHEETING SIGNS
SHEET 5

COUNTIES																			
SHEETING SIGNS DETAIL SHEET																			
SIGN/ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		SIGN/ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		COUNTY OF	ROUTE	ITEM NO.		SHEET	
					FACING TRAFFIC	ON ROAD						FACING TRAFFIC	ON ROAD			BREATHITT	KY 15		10-2008
207	40 20		CUSTOM	RIGHT	SOUTH	KY 15	213	72 42		DI.3	RIGHT	SOUTH	KY 15	BREATHITT	KY 15	MP 7.810	MP 7.810	1035	
										CUSTOM	RIGHT	SOUTH	KY 15						
208	48 48		W2.1	RIGHT	SOUTH	KY 15	214	40 20		CUSTOM	RIGHT	SOUTH	KY 15	BREATHITT	KY 15	MP 7.793	MP 7.793	1035	
	24 24		W13.1P (45 MPH)	RIGHT	SOUTH	KY 15					CUSTOM	RIGHT	SOUTH						KY 15
209	24 48		S5.1 (45)	RIGHT	SOUTH	KY 15	215	72 30		CUSTOM	RIGHT	SOUTH	KY 15	BREATHITT	KY 15	MP 7.780	MP 7.780	1035	
											CUSTOM	RIGHT	SOUTH						KY 15
											CUSTOM	RIGHT	SOUTH						KY 15
											CUSTOM	RIGHT	SOUTH						KY 15
											CUSTOM	RIGHT	SOUTH						KY 15
210	36 36		SL.1	RIGHT	SOUTH	KY 15	216	30 24		M1.5.3 (476)	RIGHT	SOUTH	KY 15	BREATHITT	KY 15	MP 7.756	MP 7.756	1035	
											M6.1L	RIGHT	SOUTH						KY 15
211	21 15		M2.1	RIGHT	SOUTH	KY 15	217	40 20		CUSTOM	RIGHT	SOUTH	KY 15	BREATHITT	KY 15	MP 7.736	MP 7.736	1035	
	30 24		M1.5.3 (476)	RIGHT	SOUTH	KY 15													
212	48 36		W14.3	LEFT	NORTH	KY 15	218	24 12		M3.3	RIGHT	SOUTH	KY 15	BREATHITT	KY 15	MP 7.723	MP 7.723	1035	
											M1.5.2 (15)	RIGHT	SOUTH						KY 15
											M4.5	RIGHT	SOUTH						KY 15
											CUSTOM	RIGHT	SOUTH						KY 15

SHEETING SIGNS
SHEET 6

SHEETING SIGNS
SHEET 6

FILE NAME: C:\P\WORK\ETHAN.ADOAMS\071819\SIGNING PLANS 9-20-2019.DGN

DATE PLOTTED: September 20, 2019



USERS: ethan.adoams

C-SHEET NAME: 10100503N

MicroStation v8.11.9.832

COUNTIES																
SHEETING SIGNS DETAIL SHEET																
SIGN/ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		COUNTY OF BREATHITT	ROUTE KY 15	ITEM NO. 10-20018	SHEET 1036						
					FACING TRAFFIC TRAVELING	ON ROAD					FACING TRAFFIC	ON ROAD	AT STATION (APPROXIMATE)			
219																
220	24	30	END SCHOOL ZONE	RIGHT	SOUTH	KY 15	MP 7,603									
221	40	20	BREATHITT COUNTY VETERANS HIGHWAY	RIGHT	SOUTH	KY 15	MP 7,550	FALLEN ROCK ZONE	CUSTOM	RIGHT	SOUTH	KY 15	MP 6,859			
222	24	30	SPEED LIMIT 55	RIGHT	SOUTH	KY 15	MP 7,394									
	48	36	NO PASSING ZONE	LEFT	NORTH	KY 15	MP 7,394									
223																
224	36	36	SCHOOL BUS STOP AHEAD	RIGHT	SOUTH	KY 15	MP 7,388									
USHER, athena.doms DATE PLOTTED: September 20, 2019 FILE NAME: C:\P\WORK\ETHAN_ADM\51078192\SSIGNING PLANS 9-20-2019.DGN																
E-SHEET NAME: 10M005N MICROSTATION V8.11.9.832 SHEETING SIGNS SHEET 7																







SHEETING SIGNS
SHEET 7






SHEETING SIGNS DETAIL SHEET															COUNTIES			04		
															COUNTY OF	ROUTE	SHEET NO.	T037		
															BREATHITT	KY 15	10-2008			
SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES ①	SPECIFICATION	SIDE OF ROAD	FACING TRAFFIC TRAVELING	SIGN LOCATION		SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES ①	SPECIFICATION	SIDE OF	FACING TRAFFIC	SIGN LOCATION		AT STATION (APPROXIMATE)				
						ON ROAD	AT STATION (APPROXIMATE)							ON ROAD	AT STATION (APPROXIMATE)					
231								237												
232								238	36	36	W4.2	LEFT	NORTH	KY 15	MP 5.516					
233	36	30		S3.1	RIGHT	SOUTH	KY 15	MP 5.645	239	36	36	W9.2L	RIGHT	SOUTH	KY 15	MP 5.089				
234								240	36	36	W4.2	RIGHT	SOUTH	KY 15	MP 5.043					
235	24	30		R4.6	RIGHT	SOUTH	KY 15	MP 5.507	241	30	30	W1.2L	RIGHT	SOUTH	KY 15	MP 5.019				
236								242	72	42	D1.3a	RIGHT	SOUTH	KY 15	MP 4.973					
															BUCKHORN LAKE STATE RESORT PARK 25 MILES					

SHEETING SIGNS
SHEET 8

[illegible]

SHEETING SIGNS
SHEET 10













SHEETING SIGNS DETAIL SHEET																		
SIGN/ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES ①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		SIGN/ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES ①	SPECIFICATION	SIDE OF	SIGN LOCATION		COUNTY OF	ROUTE	ITEM NO.	SHEET	TQ40
					FACING TRAFFIC TRAVELING	ON ROAD						FACING TRAFFIC	ON ROAD					
259																		
260	48 36		W14.3	LEFT	NORTH	KY I5		36 36										
								24 24										
								24 24										
261	48 36		W14.3	LEFT	NORTH	KY I5												
262	21 15		M2.1	RIGHT	SOUTH	KY I5												
	30 24		M1.5.3 (2446)	RIGHT	SOUTH	KY I5												
263	30 24		M1.5.3 (2446)	RIGHT	SOUTH	KY I5												
	21 15		M6-IL	RIGHT	SOUTH	KY I5												
264	24 12		M3.3	RIGHT	SOUTH	KY I5												
	24 24		M1.5.2 (15)	RIGHT	SOUTH	KY I5												
SHEETING SIGNS SHEET 11																		

SHEETING SIGNS DETAIL SHEET															
COUNTIES															
COUNTY OF		ROUTE		ITEM NO.		SHEET		TOTAL							
BREATHITT		KY 15		10-2008		104									
SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGE(S)		SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		FACING TRAFFIC	SIDE OF	SPECIFICATION	MESSAGE(S)	SIZES IN INCHES HORIZ. VERT.	SIGN LOCATION		
		ON ROAD	AT STATION (APPROXIMATE)												
390	40 20			CUSTOM	RIGHT	NORTH	KY 15	MP 0.000	RIGHT	M2.1	JCT 2446	21 15	NORTH	KY 15	MP 0.409
	27 10			CUSTOM	RIGHT	NORTH	KY 15	MP 0.000	RIGHT	M1.5.3 (2446)		30 24	NORTH	KY 15	MP 0.409
	10 18			DIO.1 (0)	RIGHT	NORTH	KY 15	MP 0.000							
	10 18			DIO.1 (0)	LEFT	SOUTH	KY 15	MP 0.000							
391	48 24			CUSTOM	RIGHT	NORTH	KY 15	MP 0.047	RIGHT	M1.5.3 (2446)		30 24	NORTH	KY 15	MP 0.510
					RIGHT				RIGHT	M6.1R	↑	21 15	NORTH	KY 15	MP 0.510
392										M3.1	NORTH	24 12	NORTH	KY 15	MP 0.565
										M1.5.2 (15)	NORTH	24 24	NORTH	KY 15	MP 0.565
393	40 20			CUSTOM	RIGHT	NORTH	KY 15	MP 0.066	LEFT	W14.3		48 36	SOUTH	KY 15	MP 0.712
394	48 30			CUSTOM	RIGHT	NORTH	KY 15	MP 0.112	RIGHT	DIO.1 (0)		10 18	NORTH	KY 15	MP 1.000
									LEFT	DIO.1 (0)		10 18	SOUTH	KY 15	MP 1.000
395	72 42			CUSTOM	RIGHT	NORTH	KY 15	MP 0.141	LEFT	W14.3		48 36	SOUTH	KY 15	MP 1.119
MicroStation V8i, 9.8.32 E-SHEET NAME: 10H005N USFS et/ron, adams DATE PLOTTED: September 20, 2019 FILE NAME: C:\PMWORK\KETHAN, ADAMS\071819\Z\SIGNING PLANS 9-20-2019.DGN															
SHEETING SIGNS SHEET 12															

SHEETING SIGNS DETAIL SHEET








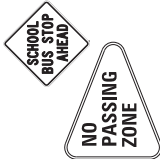

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SHEETING SIGNS DETAIL SHEET																				
SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION			SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION			COUNTY OF	ROUTE	ITEM NO.	SHEET	
					FACING TRAFFIC TRAVELING	ON ROAD	AT STATION (APPROXIMATE)						FACING TRAFFIC	ON ROAD	AT STATION (APPROXIMATE)					
426	48 36		W14.3	LEFT	SOUTH		432	36 36		SI.1	RIGHT	NORTH		BREATHITT	KY 15	10-20018	T044			
427	36 36		S3.1	RIGHT	NORTH	KY 15	433	40 20		CUSTOM	RIGHT	NORTH		BREATHITT	KY 15	MP 7.610				
428	40 20		CUSTOM	RIGHT	NORTH	KY 15	434	40 20		CUSTOM	RIGHT	NORTH		BREATHITT	KY 15	MP 7.618				
	10 18		DIO.1(7)	RIGHT	NORTH	KY 15		24 24			CUSTOM	RIGHT	NORTH					MP 7.618		
	10 18		DIO.1(7)	LEFT	SOUTH	KY 15														
429	48 36		W14.3	LEFT	SOUTH	KY 15	435	40 20		CUSTOM	RIGHT	NORTH		BREATHITT	KY 15	MP 7.627				
								40 20			CUSTOM	RIGHT	NORTH					MP 7.627		
430	48 48		W2.1	RIGHT	NORTH	KY 15	436	72 42		DI.3	RIGHT	NORTH		BREATHITT	KY 15	MP 7.629				
	24 24		W13.IP (45 mph)	RIGHT	NORTH	KY 15														
431	21 15		W2.1	RIGHT	NORTH	KY 15	437	40 20		CUSTOM	RIGHT	NORTH		BREATHITT	KY 15	MP 7.646				
	30 24		M1.5.3 (476)	RIGHT	NORTH	KY 15		24 24			CUSTOM	RIGHT	NORTH					MP 7.646		
								12 24			OM3.R	RIGHT	NORTH						MP 7.646	

SHEETING SIGNS SHEET 15

SHEETING SIGNS
SHEET 15

SHEETING SIGNS DETAIL SHEET																	
SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES ①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION			SIDE OF FACING TRAFFIC	SIDE OF	SPECIFICATION	MESSAGES ①	SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.			
						TRAVELING	ON ROAD	AT STATION (APPROXIMATE)						ON ROAD	AT STATION (APPROXIMATE)		
438	30	24		M1.5.3 (476)	RIGHT	NORTH	KY 15	MP 7.716	RIGHT				444				
	21	15		M6.1R	RIGHT	NORTH	KY 15	MP 7.716									
439	48	36		W14.3	LEFT	SOUTH	KY 15	MP 7.861	RIGHT	NORTH	M2.1		445	21	15		
											M1.5.3 (1110)			RIGHT	NORTH	30	24
440									LEFT	SOUTH	W14.3		446	48	36		
441	24	30		S5.2	RIGHT	NORTH	KY 15	MP 7.882	RIGHT	NORTH	D10.1 (9)		447	10	18		
											D10.1 (9)			LEFT	SOUTH	10	18
442	10	18		D10.1 (8)	RIGHT	NORTH	KY 15	MP 8.000					448				
	10	18		D10.1 (8)	LEFT	SOUTH	KY 15	MP 8.000									
443	36	36		S3.1	RIGHT	NORTH	KY 15	MP 8.569	RIGHT	NORTH	CUSTOM		449	30	30		
	48	36		W14.3	LEFT	SOUTH	KY 15	MP 8.569	RIGHT	NORTH	W16.2P			RIGHT	NORTH	24	18
SHEETING SIGNS SHEET 16																	

FILE NAME: C:\PMWORK\ETHAN.ADAMS\071819\SIGNING PLANS 9-20-2019.DGN

DATE PLOTTED: September 20, 2019













USF&S ethan.adams
C-SHEET NAME: 10H005N
MicroStation v8.11.9.832

SHEETING SIGNS DETAIL SHEET







[illegible]





SHEETING SIGNS DETAIL SHEET																														
SIGN/SIGN ASSEMBLY NUMBER		SIZES IN INCHES HORIZ. VERT.		MESSAGES①		SPECIFICATION		SIDE OF ROAD		FACING TRAFFIC TRAVELING		SIGN LOCATION ON ROAD		AT STATION (APPROXIMATE)		COUNTY OF BREATHTITT		ROUTE KY 15		ITEM NO. 10-20018		SHEET NO. 104								
462	10	27		D10.2 (12)	RIGHT	NORTH	KY 15	MP 12.000	468		W2.2R	RIGHT	NORTH	KY 15	MP 12.130	468	NORTH	KY 15	MP 12.130	10-20018	104									
	10	27		D10.2 (12)	LEFT	SOUTH	KY 15	MP 12.000				RIGHT	NORTH	KY 15	MP 12.130															
463	24	30		W1.BL	RIGHT	NORTH	KY 15	MP 12.071	469	R2.1 (55 mph)	RIGHT	NORTH	KY 15	MP 13.503	469	NORTH	KY 15	MP 13.503	10-20018	104										
	24	30		W1.BR	LEFT	SOUTH	KY 15	MP 12.071			RIGHT	NORTH	KY 15	MP 13.503																
464	24	30		W1.BL	RIGHT	NORTH	KY 15	MP 12.114	470	CUSTOM	RIGHT	NORTH	KY 15	MP 14.686	470	NORTH	KY 15	MP 14.686	10-20018	104										
	24	30		W1.BR	LEFT	SOUTH	KY 15	MP 12.114			RIGHT	NORTH	KY 15	MP 14.686																
465	24	30		W1.BL	RIGHT	NORTH	KY 15	MP 12.155	471	W8.14	RIGHT	NORTH	KY 15	MP 14.734	471	NORTH	KY 15	MP 14.734	10-20018	104										
	24	30		W1.BR	LEFT	SOUTH	KY 15	MP 12.155			RIGHT	NORTH	KY 15	MP 14.734																
466	24	30		W1.BL	RIGHT	NORTH	KY 15	MP 12.246	472	W14.3	RIGHT	NORTH	KY 15	MP 14.325	472	NORTH	KY 15	MP 14.325	10-20018	104										
	24	30		W1.BR	LEFT	SOUTH	KY 15	MP 12.246			RIGHT	NORTH	KY 15	MP 14.325																
467	48	36		W14.3	LEFT	SOUTH	KY 15	MP 12.661	473	M2.7	RIGHT	NORTH	KY 15	MP 14.450	473	NORTH	KY 15	MP 14.450	10-20018	104										

SHEETING SIGNS SHEET 18

SHEETING SIGNS DETAIL SHEET														
SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		ITEM NO.
					FACING TRAFFIC TRAVELING	ON ROAD						FACING TRAFFIC	ON ROAD	
474	72 42		DL-3	RIGHT	NORTH	KY 15	480	72 30		CUSTOM	RIGHT	NORTH	KY 15	10-2008
475	21 15		M2.1	RIGHT	NORTH	KY 15	481	72 30		DI-2	RIGHT	NORTH	KY 15	MP 14,770
	30 24		M1-5.3 (1812)	RIGHT	NORTH	KY 15		72 18		DI-1	RIGHT	NORTH	KY 15	MP 14,770
	21 15		M2.1	RIGHT	NORTH	KY 15		12 24		OM2-R	RIGHT	NORTH	KY 15	MP 14,770
	30 24		M1-5.3 (1098)	RIGHT	NORTH	KY 15								
476	40 20		CUSTOM	RIGHT	NORTH	KY 15	482	24 24		M1-5.2 (30)	RIGHT	NORTH	KY 15	MP 14,839
								21 15		M6-6R	RIGHT	NORTH	KY 15	MP 14,839
477	30 24		M1-5.3 (1812)	RIGHT	NORTH	KY 15	483	24 12		M3-1	RIGHT	NORTH	KY 15	MP 14,921
	21 15		M6-1L	RIGHT	NORTH	KY 15		24 24		M1-5.2 (15)	RIGHT	NORTH	KY 15	MP 14,921
	30 24		M1-5.3 (1098)	RIGHT	NORTH	KY 15		24 12		M3-4	RIGHT	NORTH	KY 15	MP 14,921
	21 15		M6-1R	RIGHT	NORTH	KY 15		24 24		M1-5.2 (30)	RIGHT	NORTH	KY 15	MP 14,921
	40 20		CUSTOM	RIGHT	NORTH	KY 15								
478	40 20		M2.1	RIGHT	NORTH	KY 15	484	48 36		M4-3	LEFT	SOUTH	KY 15	MP 15,047
	21 15		M1-5.2 (30)	RIGHT	NORTH	KY 15		10 27		D10.2 (15)	RIGHT	NORTH	KY 15	MP 15,047
	24 24							10 27		D10.2 (15)	LEFT	SOUTH	KY 15	MP 15,047
479	40 20		CUSTOM	RIGHT	NORTH	KY 15	485							
	40 20		CUSTOM	RIGHT	NORTH	KY 15								

SHEETING SIGNS
SHEET 19

COUNTIES													
SHEETING SIGNS DETAIL SHEET													
COUNTY OF		ROUTE		ITEM NO.		SHEET		T049					
BREATHITT		KY 15		10-2008		T049							
SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES ①	SPECIFICATION	SIDE OF ROAD	FACING TRAFFIC TRAVELING	SIGN LOCATION		SIDE OF	FACING TRAFFIC	SIGN LOCATION	SPECIFICATION	SIDE OF	FACING TRAFFIC
						ON ROAD	AT STATION (APPROXIMATE)						
486	24 30		R4.6	RIGHT	NORTH	KY 15	MP 15.354	LEFT	SOUTH	KY 15	W9.2L	RIGHT	SOUTH
487	24 30		R4.3	RIGHT	NORTH	KY 15	MP 15.443						
488	48 48		W3.3	RIGHT	NORTH	KY 15	MP 15.747				S3.1	RIGHT	NORTH
489	36 36		W9.2L	RIGHT	NORTH	KY 15	MP 15.762				W2.2	RIGHT	NORTH
490	36 36		W4.2	RIGHT	NORTH	KY 15	MP 15.912				M2.1	RIGHT	NORTH
491	36 36		W4.2	LEFT	SOUTH	KY 15	MP 15.976				UNSURE	RIGHT	NORTH
FILE NAME: C:\P\WORK\KETHAN.ADOAMS\071819\2\SIGNING PLANS 9-20-2019.DGN													
DATE PLOTTED: September 20, 2019													
USF2 ethan.adams													
E-SHEET NAME: T04005N													
MicroStation v8.11.9.832													
												SHEETING SIGNS SHEET 20	

SHEETING SIGNS DETAIL SHEET															
SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES ①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		AT STATION (APPROXIMATE)	SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES ②	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION	AT STATION (APPROXIMATE)
						FACING TRAFFIC TRAVELING	ON ROAD								
498	48	48		W3.3	RIGHT	NORTH	KY I5	MP 12.000							
499															
500	24	30		R2-1 (45 mph)	RIGHT	NORTH	KY I5	MP 12.114							
501	36	36		W8.5	RIGHT	NORTH	KY I5	MP 16.697							
502	30	24		M1-5.3 (3068)	RIGHT	NORTH	KY I5	MP 16.716							
	21	15													
	30	24													
	24	15													
	24	24													
	21	15		M6-3	RIGHT	NORTH	KY I5	MP 16.716							

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E-SHEET NAME: 104000N







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SHEETING SIGNS SHEET 21

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E-SHEET NAME: 1040039
MicroStation V8i, 9.8.32

SHEETING SIGNS DETAIL SHEET																					
SIGN/ASSEMBLY NUMBER	SIZES IN INCHES		MESSAGES	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		AT STATION (APPROXIMATE)	SIGN/ASSEMBLY NUMBER	SIZES IN INCHES		MESSAGES	SPECIFICATION	SIDE OF FACING TRAFFIC	SIGN LOCATION		AT STATION (APPROXIMATE)				
	HORIZ.	VERT.				FACING TRAFFIC	ON ROAD			HORIZ.	VERT.				ON ROAD	KY 15		KY 15			
270	40	20		CUSTOM	RIGHT	SOUTH	KY 15	MP 25.167	276		48	36		W4-3	LEFT	NORTH	KY 15	MP 24.504			
	30	12		CUSTOM	RIGHT	SOUTH	KY 15	MP 25.167													
271									277												
272	40	20		CUSTOM	RIGHT	SOUTH	KY 15	MP 25.147	278		24	30		R2-1 (55)	RIGHT	SOUTH	KY 15	MP 24.017			
											48	36		W4-3	LEFT	NORTH	KY 15	MP 24.017			
273									279												
274	40	20		CUSTOM	RIGHT	SOUTH	KY 15	MP 25.136	280												
275									281		36	36		CUSTOM	RIGHT	SOUTH	KY 15	MP 23.888			
FILE NAME: C:\P\WORK\ETHAN.ADAMS\071912\SSIGNING PLANS 9-20-2019.DGN																					
DATE PLOTTED: September 20, 2019																					
USER: ethan.adams																					
E-SHEET NAME: 104000N																					
MicroStation v8.11.9.832																					
SHEETING SIGNS SHEET 22																					

FILE NAME: C:\P\WORK\ETHAN.ADAMS\071819\Z\SIGNING PLANS 9-20-2019.DGN

DATE PLOTTED: September 20, 2019

USERS: ethan.adams
C-SHEET NAME: 1014005N
MicroStation v8.11.9.832

SHEETING SIGNS DETAIL SHEET																		
SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		AT STATION (APPROXIMATE)	SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES①	SPECIFICATION	SIDE OF	SIGN LOCATION		AT STATION (APPROXIMATE)	
						FACING TRAFFIC TRAVELING	ON ROAD			FACING TRAFFIC	ON ROAD							
282	6	18		CUSTOM	RIGHT	SOUTH	KY 15	MP 23.817	288									
	24	30		RIGHT	SOUTH	KY 15	MP 23.817											
283	24	30		R4.16	RIGHT	SOUTH	KY 15	MP 23.703	289	48	36		W4.3	LEFT	NORTH	KY 15	MP 22.356	
284	48	36		W4.3	LEFT	NORTH	KY 15	MP 23.703	290	48	48		CUSTOM	RIGHT	SOUTH	KY 15	MP 22.240	
285	40	20		CUSTOM	RIGHT	SOUTH	KY 15	MP 22.975	291	72	44		CUSTOM	RIGHT	SOUTH	KY 15	MP 22.059	
286	48	36		W4.3	LEFT	NORTH	KY 15	MP 22.860	292									
287	12	36		DM3.R	RIGHT	SOUTH	KY 15	MP 22.645	293	36	36		W9.2L	RIGHT	SOUTH	KY 15	MP 22.985	
SHEETING SIGNS SHEET 23																		

FILE NAME: C:\PMWORK\KETHAN.ADOAMS\071819\23\SIGNING PLANS 9-20-2019.DGN






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USER: ethan.adams

NS005N

C-SHEET NAME: T04005N



MicroStation v8.11.9.832

SHEETING SIGNS DETAIL SHEET														
COUNTIES														
COUNTY OF		ROUTE		ITEM NO.		SHEET		T053						
PERRY		KY 15		10-2008										
SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES	SPECIFICATION	SIDE OF ROAD	FACING TRAFFIC TRAVELING	SIGN LOCATION		SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES	SPECIFICATION	SIDE OF ROAD	FACING TRAFFIC	SIGN LOCATION
						ON ROAD	AT STATION (APPROXIMATE)							
294								300	24 24		M1.5.3 (28)	RIGHT	SOUTH	KY 15
									21 15		M6.JR	RIGHT	SOUTH	KY 15
									24 24		CUSTOM	RIGHT	SOUTH	KY 15
295								301						
	36 36		W4.2	RIGHT	SOUTH	KY 15	MP 21.860							
296								302	24 12		M3.3	RIGHT	SOUTH	KY 15
									24 24		M1.5.2 (15)	RIGHT	SOUTH	KY 15
									24 12		M4.5	RIGHT	SOUTH	KY 15
									30 24		CUSTOM	RIGHT	SOUTH	KY 15
297								303	48 36		W14.3	LEFT	NORTH	KY 15
298								304	24 30		R2.1 (55)	RIGHT	SOUTH	KY 15
299								305						
SHEETING SIGNS SHEET 24														

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USERS: ethan.adams
C-SHEET NAME: 104005N
MicroStation v8.11.9.832







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SIGN/ASSEMBLY NUMBER		SIZES IN INCHES HORIZ. VERT.		MESSAGES ①		SPECIFICATION		SIDE OF ROAD		SIGN LOCATION		FACING TRAFFIC TRAVELING		ON ROAD		AT STATION (APPROXIMATE)		SIGN/ASSEMBLY NUMBER		SIZES IN INCHES HORIZ. VERT.		MESSAGES ①		SPECIFICATION		SIDE OF ROAD		SIGN LOCATION		FACING TRAFFIC		ON ROAD		AT STATION (APPROXIMATE)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
306	21	15		M2.1	RIGHT	SOUTH	KY 15	MP 19,999	RIGHT	SOUTH	KY 15	MP 19,999	RIGHT	SOUTH	KY 15	MP 19,999	RIGHT	SOUTH	KY 15	MP 19,999	306				CUSTOM	RIGHT	SOUTH	KY 15	MP 19,652	RIGHT	SOUTH	KY 15	MP 19,652	306																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

SHEETING SIGNS
SHEET 25

FILE NAME: C:\P\WORK\ETHAN.ADAMS\071819\121GR19D065\SIGNING PLANS 9-20-2019.DGN

DATE PLOTTED: September 20, 2019

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DATE PLOTTED: September 20, 2019
C-SHEET NAME: 1010059
MicroStation v8.11.9.832

SHEETING SIGNS DETAIL SHEET													
SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		FACING TRAFFIC TRAVELING	ON ROAD	AT STATION (APPROXIMATE)	SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES
318	30	30	CUSTOM	RIGHT	SOUTH	KY 15	MP 18.363				30	30	
319	36	36	W4.2	LEFT	NORTH	KY 15	MP 18.282						
320	36	36	W9.2L	LEFT	NORTH	KY 15	MP 18.235						
321	24	36	R3.9b	RIGHT	SOUTH	KY 15	MP 18.160						
322	30	30	CUSTOM	RIGHT	SOUTH	KY 15	MP 17.962						
323	30	30	W3.3	RIGHT	SOUTH	KY 15	MP 17.854						
SHEETING SIGNS SHEET 26													

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C-SHEET NAME: 1010005N
MicroStation v8.11.9.832

SHEETING SIGNS DETAIL SHEET															
SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		AT STATION (APPROXIMATE)	SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.	MESSAGES①	SPECIFICATION	SIDE OF	SIGN LOCATION		AT STATION (APPROXIMATE)
					FACING TRAFFIC	ON ROAD							FACING TRAFFIC	ON ROAD	
328	36 36		CUSTOM	RIGHT	NORTH	KY 15	MP 17.422	334	24 30		W1-BR	LEFT	SOUTH	KY 15	MP 17.664
329	48 36		W4.3	LEFT	SOUTH	KY 15	MP 17.422	335	24 36		R3.9b	RIGHT	NORTH	KY 15	MP 17.676
330	24 30		W1-BR	LEFT	SOUTH	KY 15	MP 17.582	336	24 30		W1-BR	LEFT	SOUTH	KY 15	MP 17.688
331	24 30		W1-BR	LEFT	SOUTH	KY 15	MP 17.601	337	24 30		W4.3	RIGHT	NORTH	KY 15	MP 17.698
332	24 30		W1-BR	LEFT	SOUTH	KY 15	MP 17.622	338	48 24		W1-BR	LEFT	SOUTH	KY 15	MP 17.703
333	24 30		W1-BR	LEFT	SOUTH	KY 15	MP 17.644	339	24 30		W1-BR	LEFT	SOUTH	KY 15	MP 17.725
SHEETING SIGNS SHEET 27															

FILE NAME: C:\P\WORK\KETHAN.ADAMS\071819\Z\SIGNING PLANS 9-20-2019.DGN

DATE PLOTTED: September 20, 2019

USERS: ethan.adams

C-SHEET NAME: 101005N

MicroStation v8.11.9.832

SHEETING SIGNS SHEET 27

COUNTY OF












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SHEETING SIGNS DETAIL SHEET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES		MESSAGES ①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION			AT STATION (APPROXIMATE)	SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES		MESSAGES ①	SPECIFICATION	SIDE OF	SIGN LOCATION			AT STATION (APPROXIMATE)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	HORIZ.	VERT.				FACING TRAFFIC	ON ROAD	ON ROAD			ON ROAD	ON ROAD				ON ROAD	ON ROAD	ON ROAD		ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON ROAD	ON 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FILE NAME: C:\P\WORK\KETHAN.ADAMS\071819\2\SIGNING PLANS 9-20-2019.DGN

DATE PLOTTED: September 20, 2019

USF2: ethan.adams
C-SHEET NAME: 1010005N
MicroStation v8.11.9.832

SHEETING SIGNS DETAIL SHEET																	
SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES		MESSAGES ①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		AT STATION (APPROXIMATE)	SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES		MESSAGES ①	SPECIFICATION	SIDE OF	SIGN LOCATION		AT STATION (APPROXIMATE)
	HORIZ.	VERT.				FACING TRAFFIC TRAVELING	ON ROAD			HORIZ.	VERT.				FACING TRAFFIC	ON ROAD	
364	24	12		M3.1	RIGHT	NORTH	KY 15	MP 20.775	370	36	36		W9.2L	LEFT	SOUTH	KY 15	MP 21.576
	24	24		M1-5.2 (15)	RIGHT	NORTH	KY 15	MP 20.775									
365	24	30		R2.1(55)	RIGHT	NORTH	KY 15	MP 21.000	371	72	42		CUSTOM	RIGHT	NORTH	KY 15	MP 22.022
	10	27		D10.2 (21)	RIGHT	NORTH	KY 15	MP 21.000									
	10	27		D10.2 (21)	LEFT	SOUTH	KY 15	MP 21.000									
366	48	30		W14.3	LEFT	SOUTH	KY 15	MP 21.000	372	24	30		CUSTOM	RIGHT	NORTH	KY 15	MP 22.168
367	48	36		W14.3	LEFT	SOUTH	KY 15	MP 21.304	373	24	24		CUSTOM	RIGHT	NORTH	KY 15	MP 22.356
368									374	24	30		R8.3	RIGHT	NORTH	KY 15	MP 22.512
										24	30		R8.3	LEFT	SOUTH	KY 15	MP 22.512
369	36	36		W9.2L	RIGHT	NORTH	KY 15	MP 21.804	375	24	30		CUSTOM	RIGHT	NORTH	KY 15	MP 22.606

FILE NAME: C:\P\WORK\KETHAN.ADM\510781912\SIGNING PLANS 9-20-2019.DWG

DATE PLOTTED: September 20, 2019

USER: ethon.adams

SHEET NAME: 10M000N

POSITION: 10M000N

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SHEETING SIGNS
SHEET 30

FILE NAME: C:\P\WORK\ETHAN.ADAMS\071819\SIGNING PLANS 9-20-2019.DGN

DATE PLOTTED: September 20, 2019

USF2: ethan.adams
DATE PLOTTED: 9/20/2019
C-SHEET NAME: 101005N
MicroStation v8.11.9.832

SHEETING SIGNS DETAIL SHEET																							
SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		AT STATION (APPROXIMATE)	SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION		AT STATION (APPROXIMATE)						
						FACING TRAFFIC	ON ROAD			FACING TRAFFIC	ON ROAD				FACING TRAFFIC	ON ROAD							
376	40	20		CUSTOM	RIGHT	NORTH	KY 15	MP 22.776	382														
377	36	8		UNKNOWN	RIGHT	NORTH	KY 15	MP 22.871	383	24	30		RIGHT	NORTH	KY 15	MP 24.059							
	24	24								48	36							LEFT	SOUTH	KY 15	MP 24.059		
378	10	27		DIO.2 (23)	RIGHT	NORTH	KY 15	23.000	384														
	10	27								LEFT	SOUTH							KY 15	23.000				
379				CUSTOM	RIGHT	NORTH	KY 15	MP 23.264	385														
380	24	30		CUSTOM	RIGHT	NORTH	KY 15	MP 23.264	386				LEFT	SOUTH	KY 15	MP 24.504							
381	10	27		DIO.2 (24)	RIGHT	NORTH	KY 15	MP 24.000	387	48	36	W14.3	LEFT	SOUTH	KY 15	MP 24.504							
	10	27								LEFT	SOUTH							KY 15	MP 24.000				

MicroStation v8.11.9.832

E-SHEET NAME: T04000N

DATE PLOTTED: September 20, 2019

FILE NAME: C:\PWORK\ETHAN.ADMAS\017B21V\SIGNING PLANS 9-20-2019.DGN

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FILE NAME: C:\P\WORK\ETHAN.ADAMS\071819\SIGNING PLANS 9-20-2019.DGN

DATE PLOTTED: September 20, 2019

USF&A ETHAN.ADAMS
C-SHEET NAME: 10H005N
MicroStation v8.11.9.832

SHEETING SIGNS DETAIL SHEET														COUNTIES													
SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES ①	SPECIFICATION	SIDE OF ROAD	SIGN LOCATION			SIGN/SECTION ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES ①	SPECIFICATION	SIDE OF FACING TRAFFIC	SIGN LOCATION			COUNTY OF BREATHITT	ROUTE KY 15	ITEM NO. 10-20018	SHEET NO. T062						
701	12	24		OM3_R	RIGHT	SOUTH	KY 15	MP 0.513	701	10	27		DIO.2 (13)	RIGHT	NORTH	KY 15	MP 13.000	701	NORTH	KY 15	MP 13.000						
702	10	18		DIO.1 (2)	RIGHT	NORTH	KY 15	MP 2.000	702	10	27		DIO.2 (14)	RIGHT	NORTH	KY 15	MP 15.984	702	NORTH	KY 15	MP 15.984						
	10	18		DIO.1 (2)	LEFT	SOUTH	KY 15	MP 2.000		10	27		DIO.2 (14)	LEFT	SOUTH	KY 15	MP 15.984										
703	10	18		DIO.1 (3)	RIGHT	NORTH	KY 15	MP 3.000	703	48	48		W2.1	RIGHT	NORTH	KY 15	MP 8.972	703	NORTH	KY 15	MP 8.972						
	10	18		DIO.1 (3)	LEFT	SOUTH	KY 15	MP 3.000		24	24		W1.1P (45 MPH)	RIGHT	NORTH	KY 15	MP 8.972										
704	12	24		OM3_R	RIGHT	NORTH	KY 15	MP 3.068	704																		
705	30	30		W1.2L	LEFT	SOUTH	KY 15	MP 5.019	705																		
706	24	48		SS.1 (45)	RIGHT	SOUTH	KY 15	MP 7.608	706																		
MICROSTATION V8.11.9.832																						SHEETING SIGNS SHEET 33					
E-SHEET NAME: T06003N																											
USF2: ethon.adams																											
DATE PLOTTED: September 20, 2019																											
FILE NAME: C:\PMWORK\ETHAN.ADAMS\071819\2\SIGNING PLANS 9-20-2019.DGN																											

SHEETING SIGNS DETAIL SHEET														
SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES ①	SPECIFICATION	SIDE OF ROAD	FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD		AT STATION (APPROXIMATE)	SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ. VERT.		MESSAGES ②	SPECIFICATION
801	10	27												
	10	27												
802	10	27		D10.2 (18)	RIGHT	NORTH	KY I5		MP 18,000					
	10	27		D10.2 (18)	LEFT	SOUTH	KY I5		MP 18,000					
803	10	27		D10.2 (19)	RIGHT	NORTH	KY I5		MP 19,000					
	10	27		D10.2 (19)	LEFT	SOUTH	KY I5		MP 19,000					
804	10	27		D10.2 (22)	RIGHT	NORTH	KY I5		MP 22,000					
	10	27		D10.2 (22)	LEFT	SOUTH	KY I5		MP 22,000					
SHEETING SIGNS SHEET 34														

FILE NAME: C:\PWORK\ETHAN.ADAMS\071819\SIGNING PLANS 9-20-2019.DGN

DATE PLOTTED: September 20, 2019

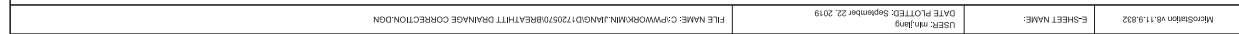
USER: ethan.adams

NS005N

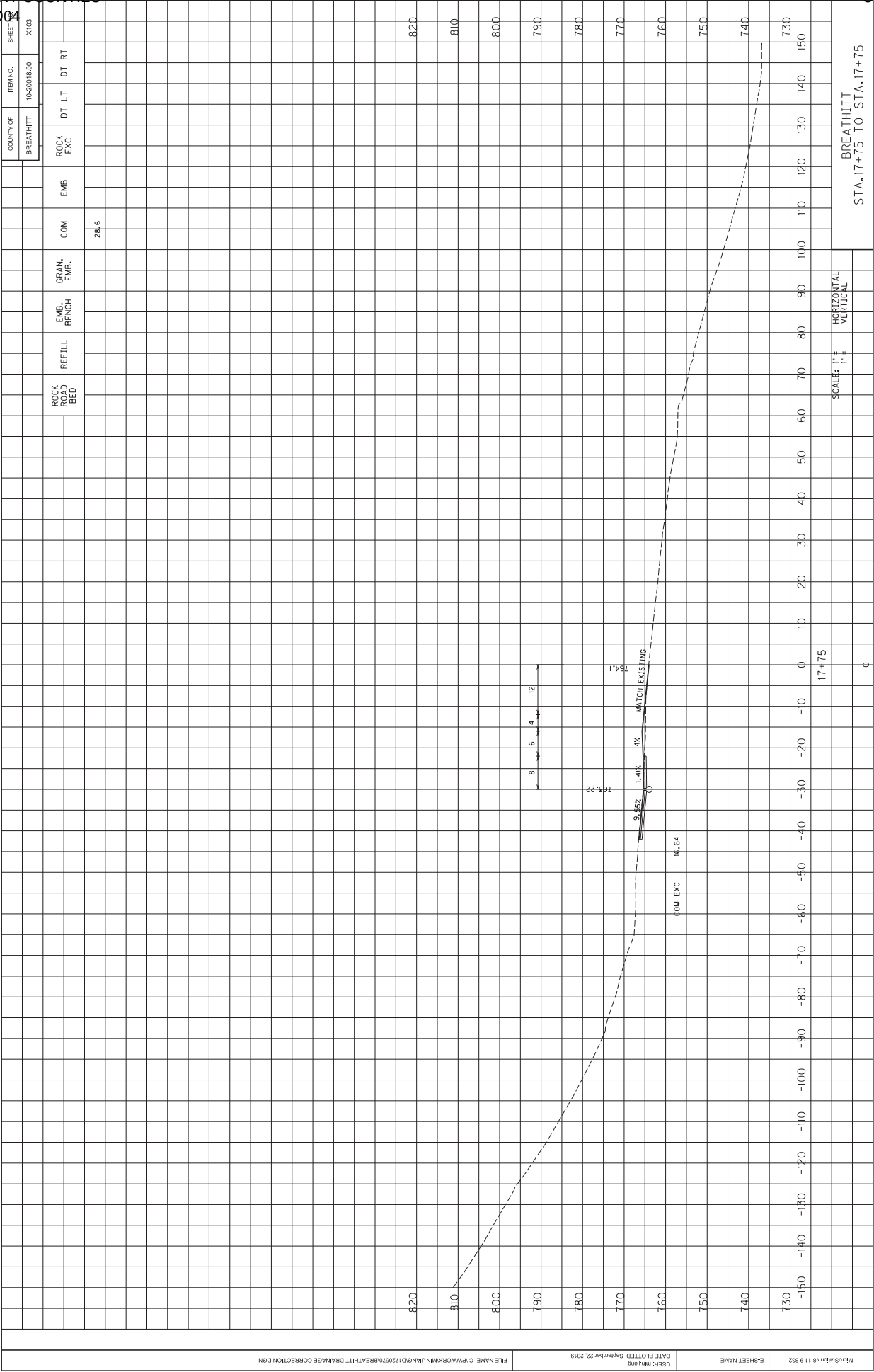
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9.832

MicroStation v8.11.9.832



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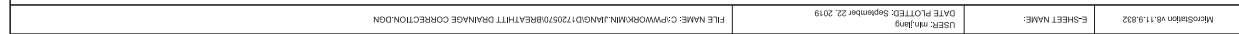


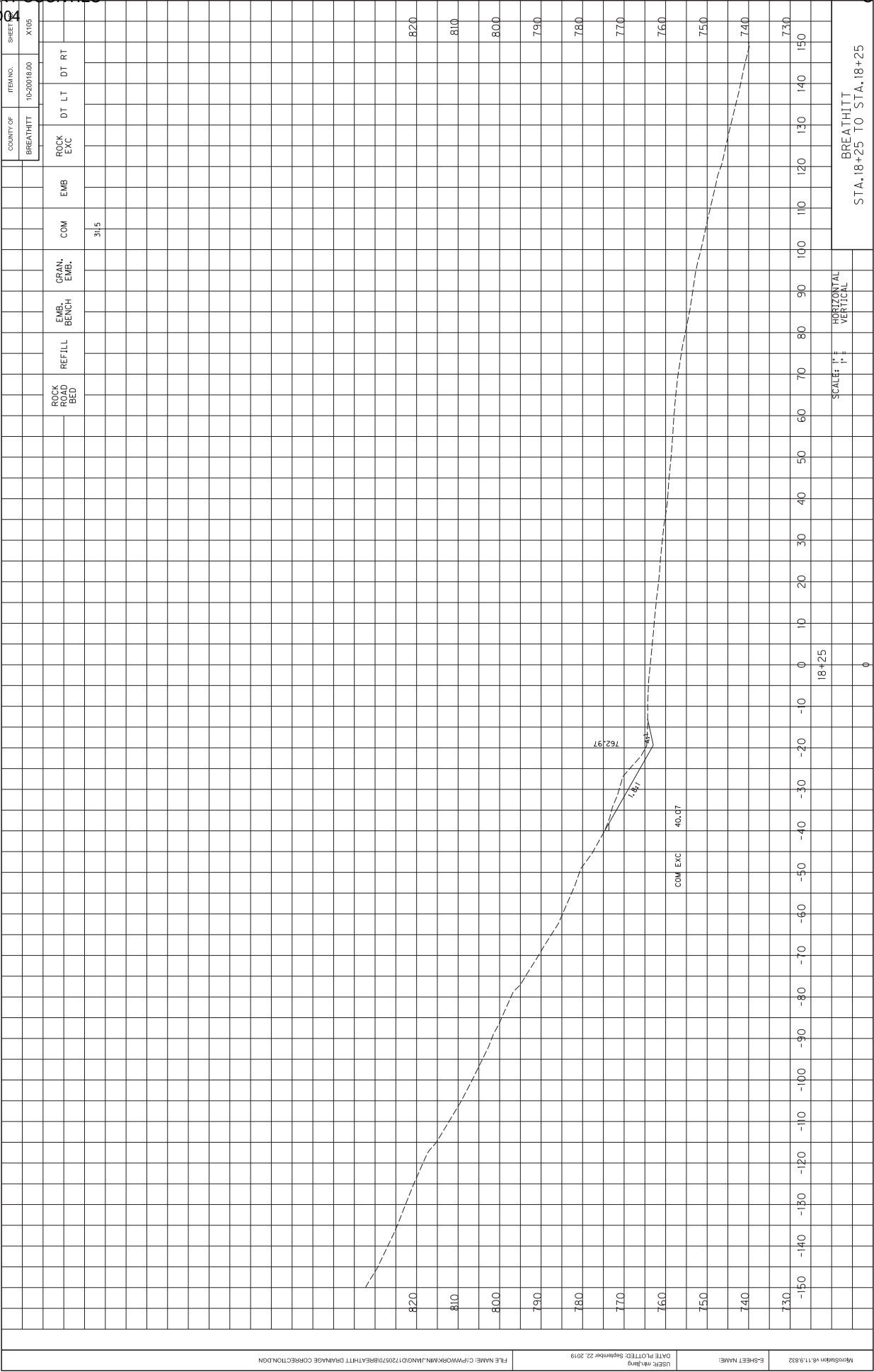
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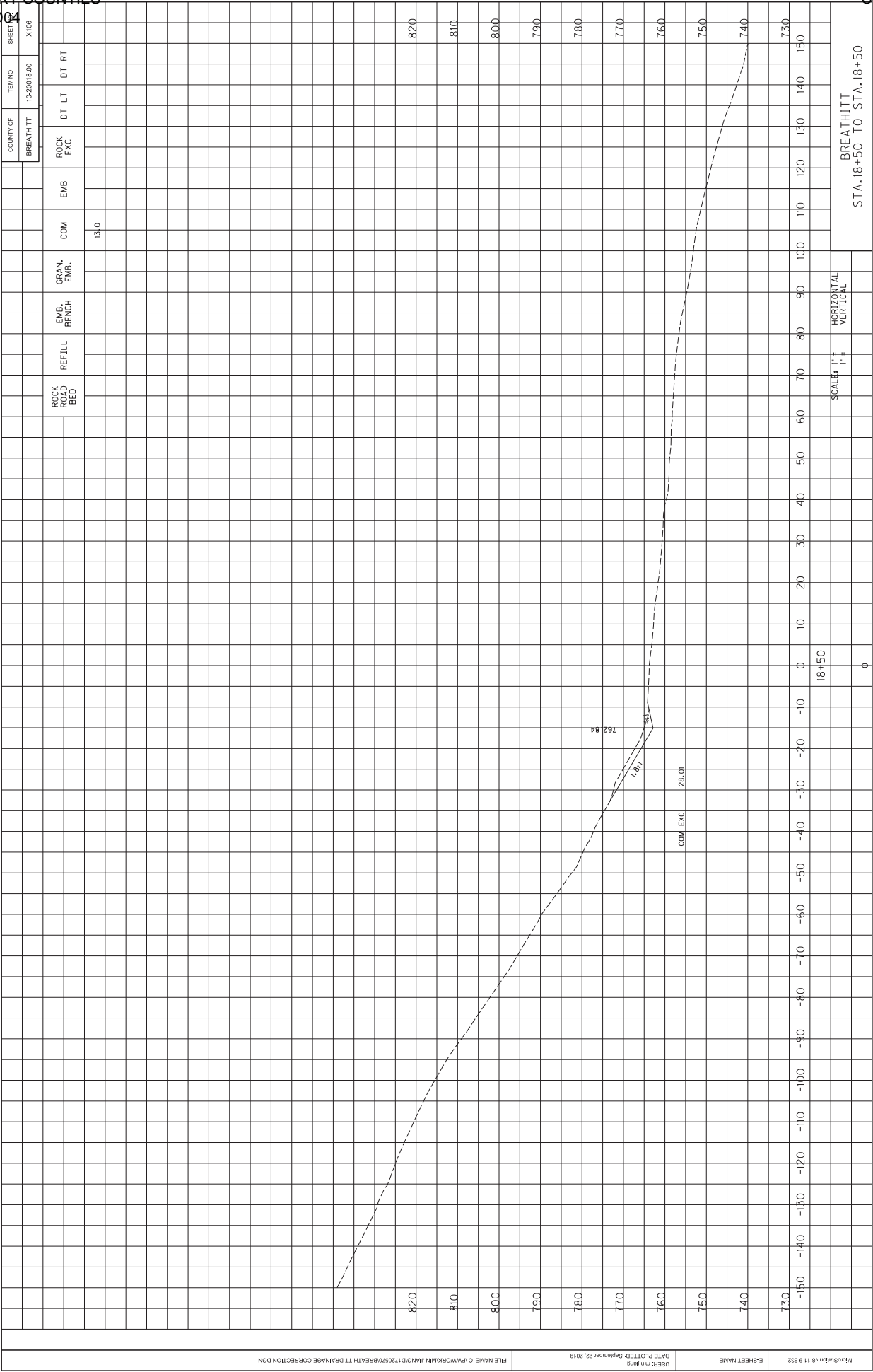
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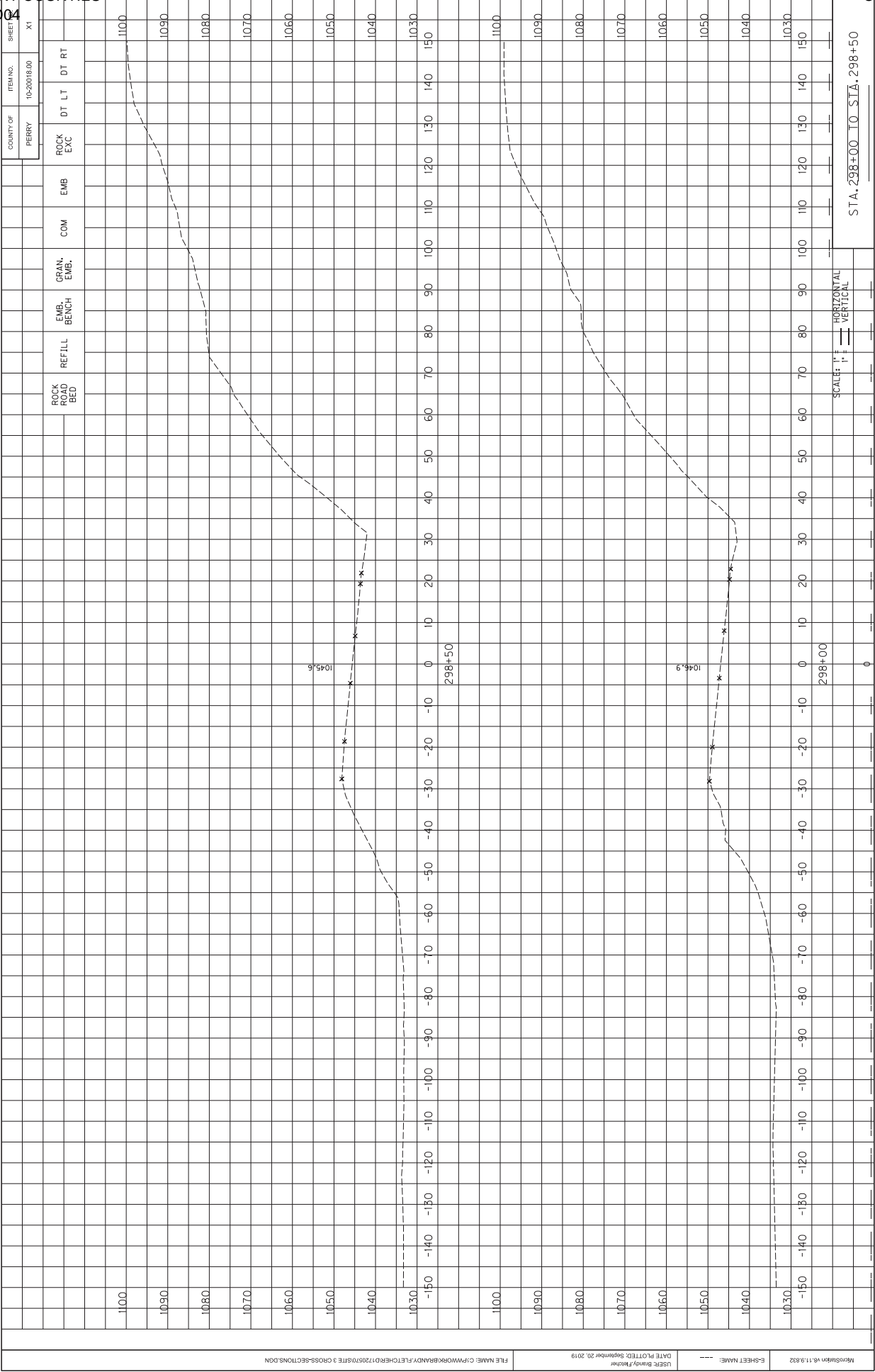
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Modification: 11.9.202









FILE NAME: C:\PWORK\BRANDY\FLETCHER\17205\SITE 3 CROSS-SECTIONS.DGN

USER: Brandy Fletcher
DATE PLOTTED: September 20, 2019

E-SHEET NAME:

MicroStation v8.11.9.832

SPHALT ILLINGS REFILL	COM EXC	ASPHALT BASE
3.3	1.7	0.1

Diagram 1 (Top):

Vertical Curve Data:

Station	Elevation
299+00	1043.8
299+10	1044.8
299+20	1045.8
299+30	1046.8
299+40	1047.8
299+50	1048.8

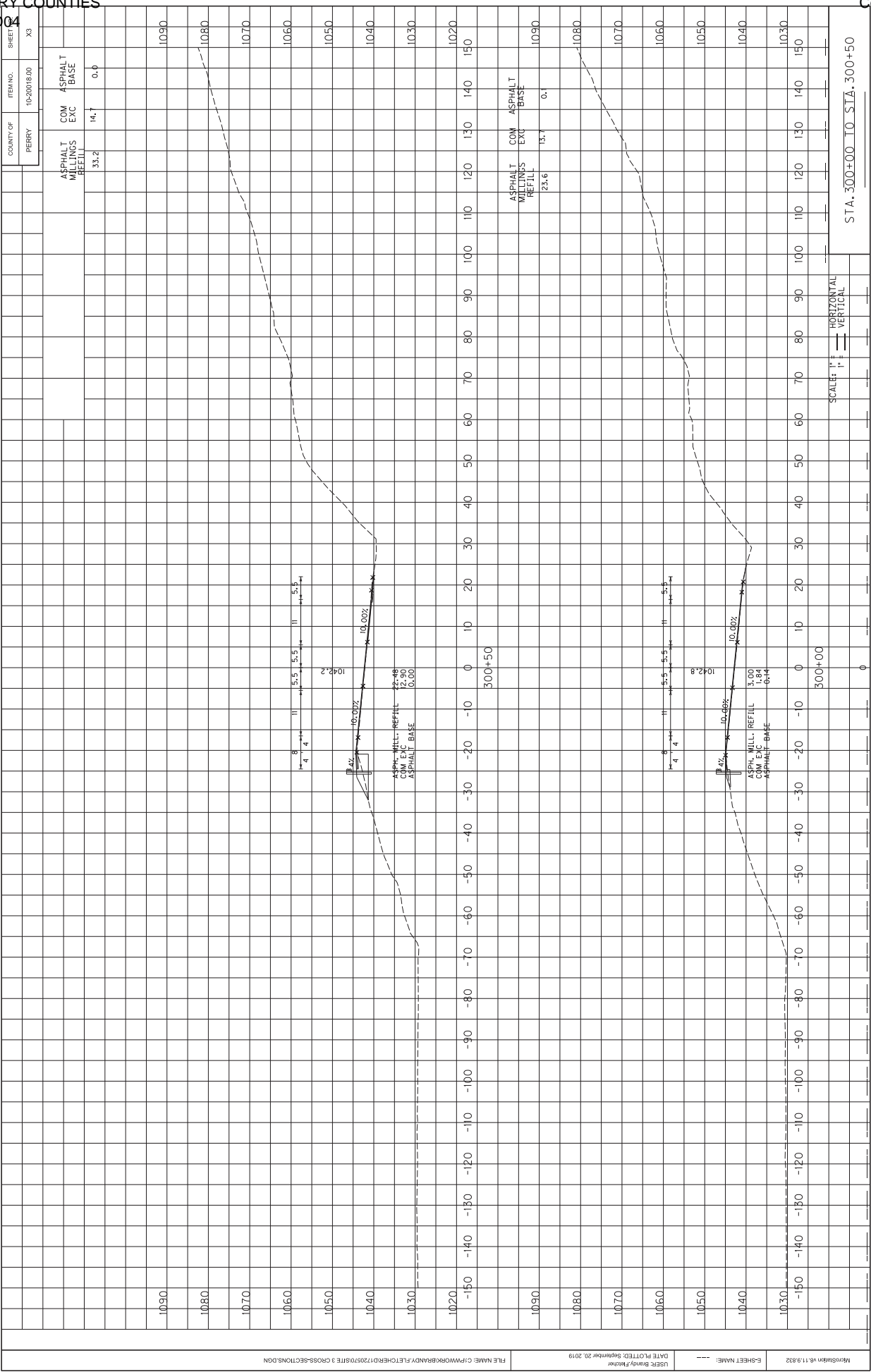
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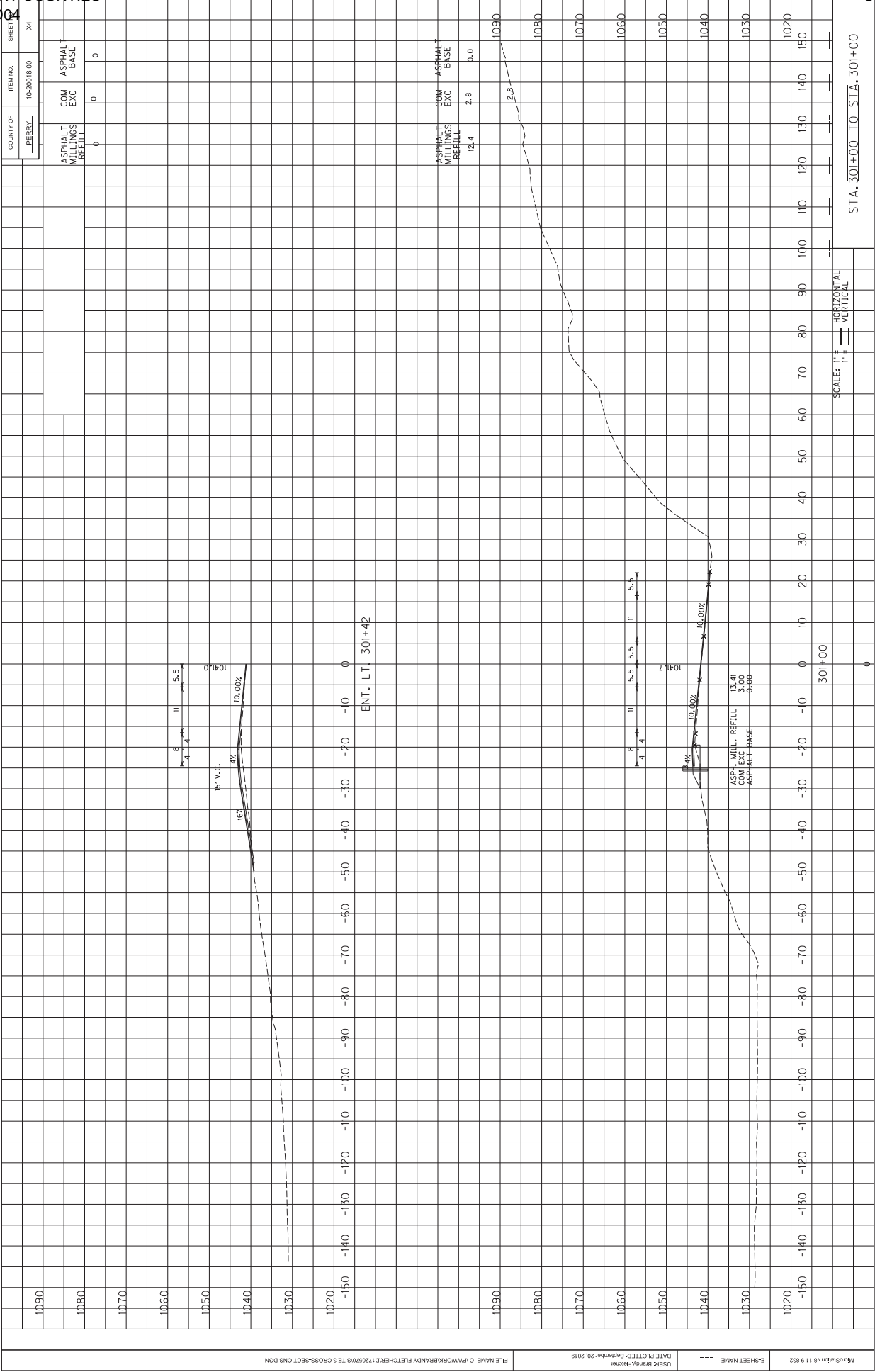
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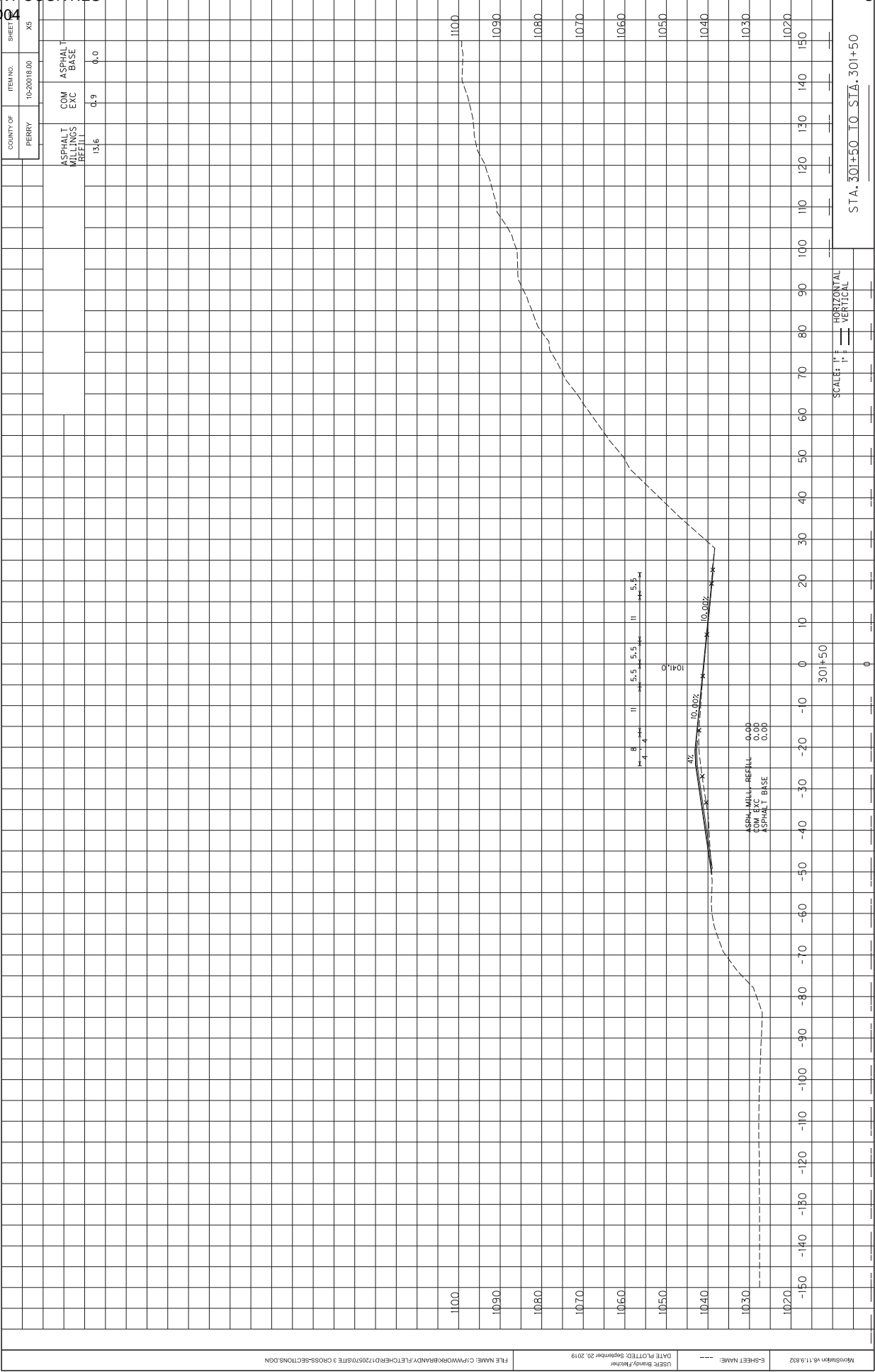
Station	Elevation
299+00	1043.8
299+10	1044.8
299+20	1045.8
299+30	1046.8
299+40	1047.8
299+50	1048.8

Scale: 1" = 10'

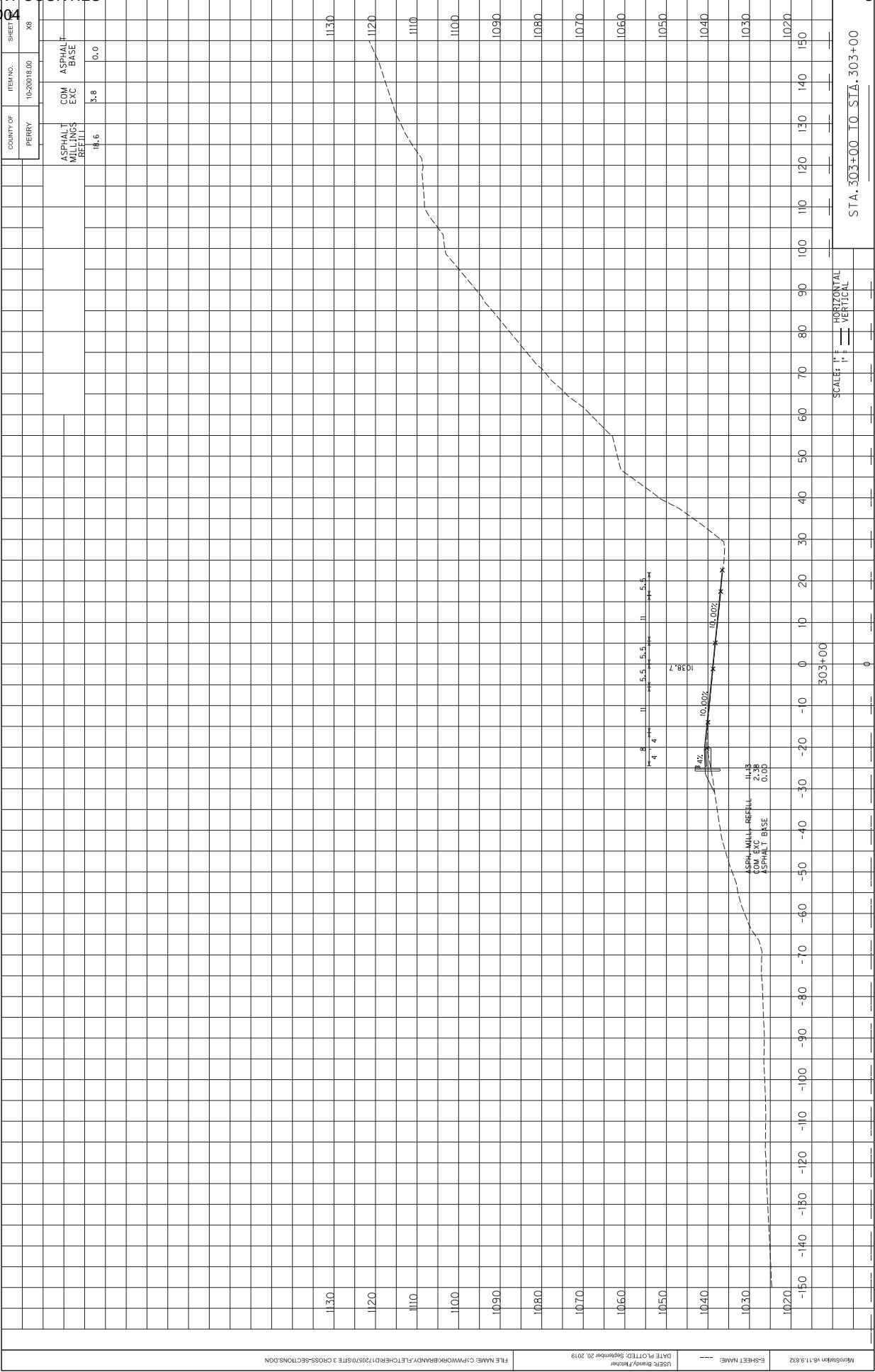
STA. 299+00 TO STA. 299+50







MicroStation v8.11.9.822	E-SHEET NAME: ---	DATE PLOTTED: September 20, 2019 USER: BRANDY.FLITCHER	FILE NAME: C:\PWWORK\BRANDY.FLITCHER\RD17205\0919\FE 3 CROSS-SECTIONS.DGN
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FILE NAME: C:\P\WORK\BRANDY\FLETCHER\17205\SITE 3 CROSS-SECTIONS.DGN

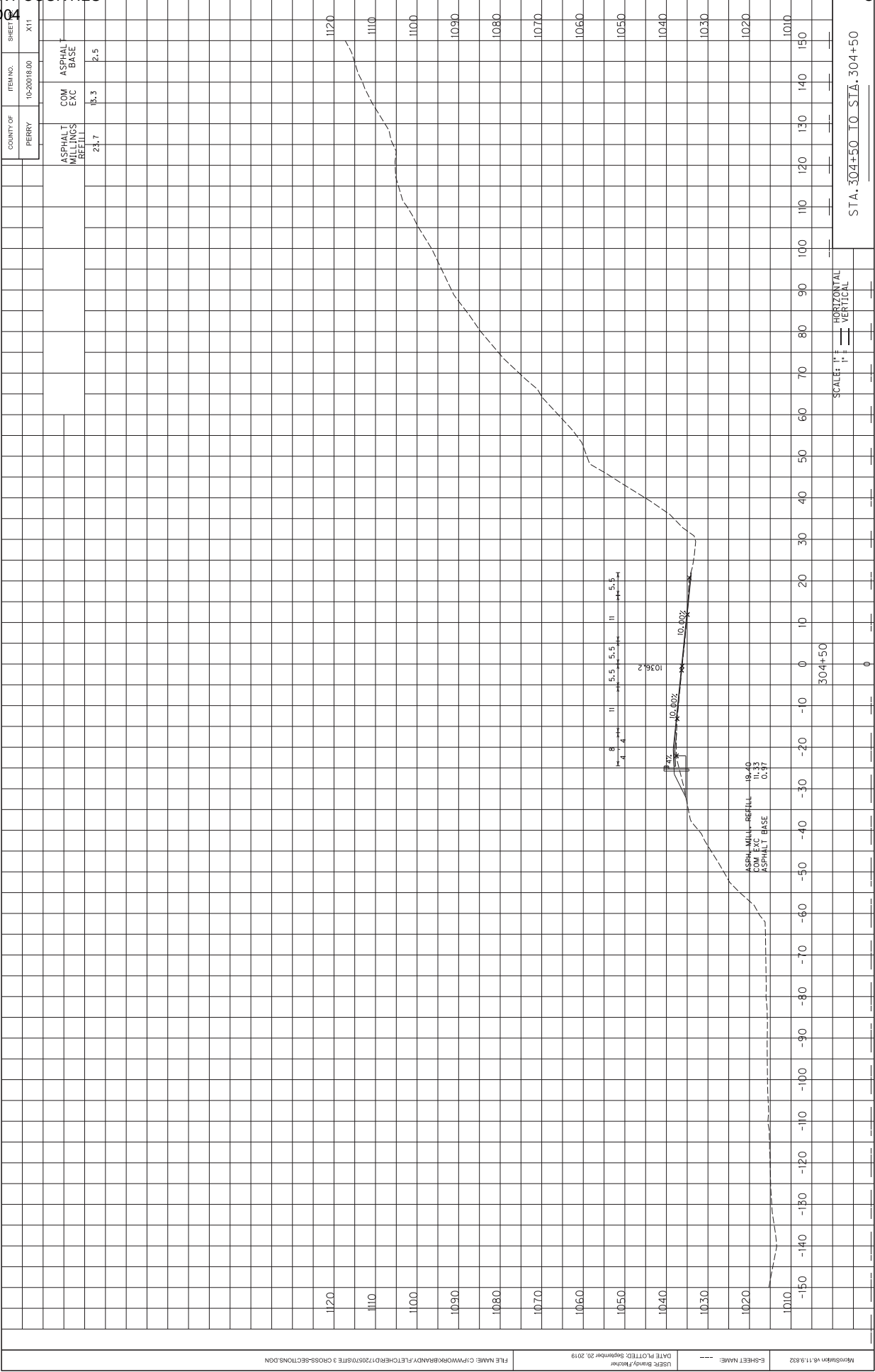
USER: Brandy Fletcher
DATE PLOTTED: September 20, 2019

E-SHEET NAME: ---

MicroStation v8.11.9.832

MicroStation v8.11.9.822	E-SHEET NAME: ---	DATE PLOTTED: September 20, 2019 USER: BRANDY.FLITCHER	FILE NAME: C:\PWWORK\BRANDY.FLITCHER\RD17205\0919\FE 3 CROSS-SECTIONS.DGN
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MicroStation v8.11.9.822	E-SHEET NAME: ---	DATE PLOTTED: September 20, 2019 USER: BRANDY.FLITCHER	FILE NAME: C:\PWWORK\BRANDY.FLITCHER\RD17207019\FIT 3 CROSS-SECTIONS.DGN
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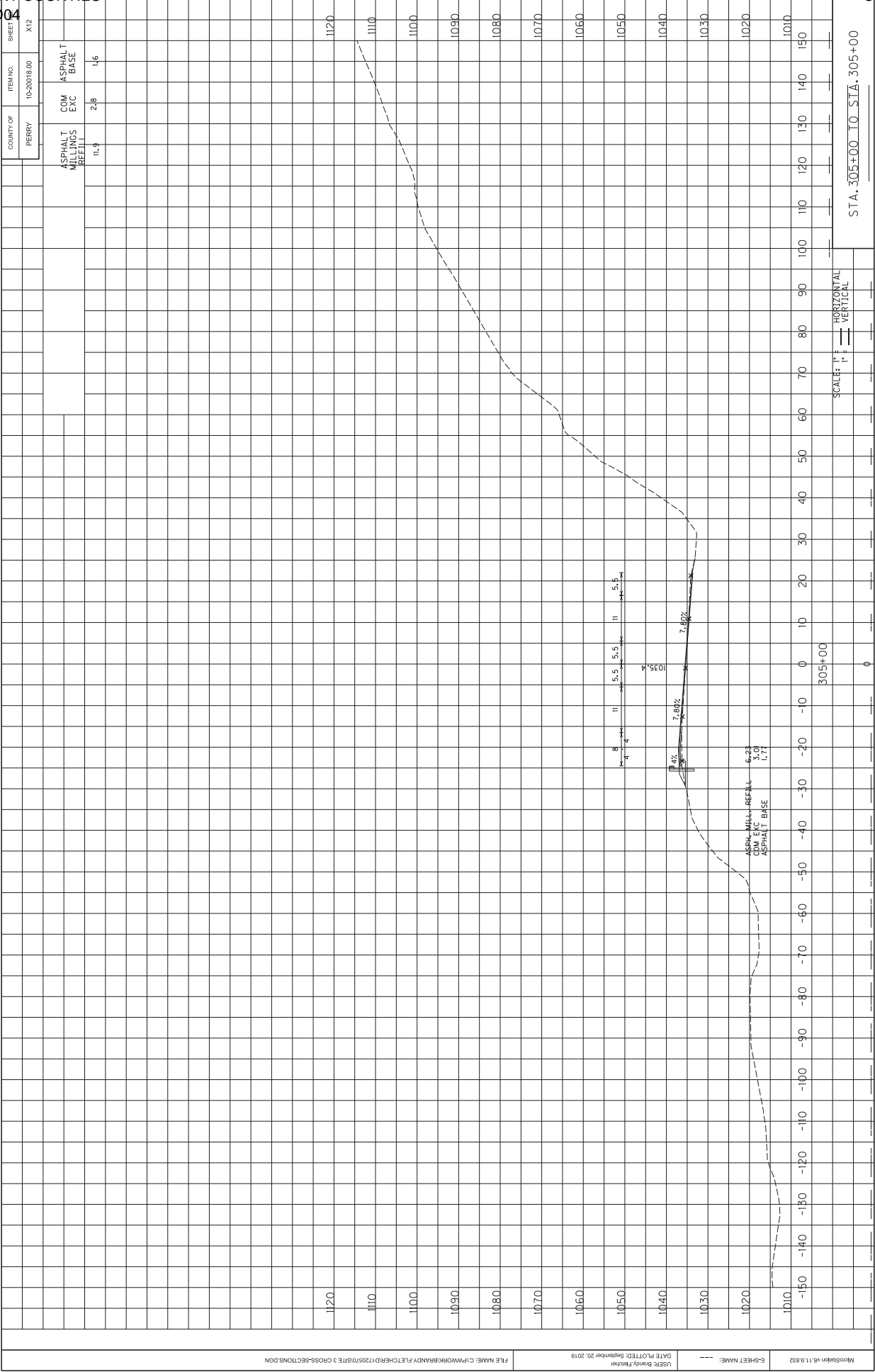


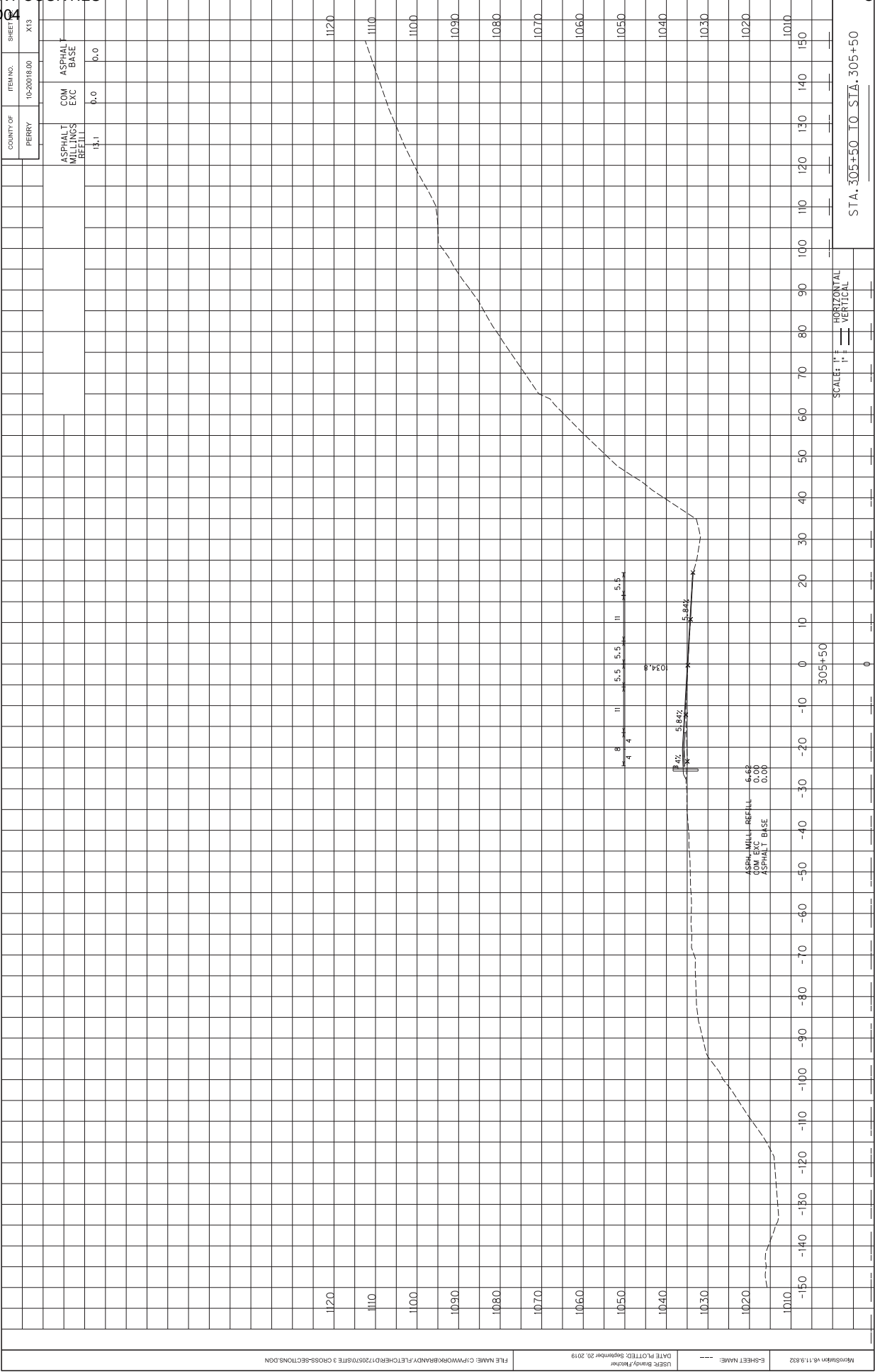
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USER: Brandy Frasier
DATE PLOTTED: September 20, 2019

E-SHEET NAME: ---

MicroStation v8.11.9.832



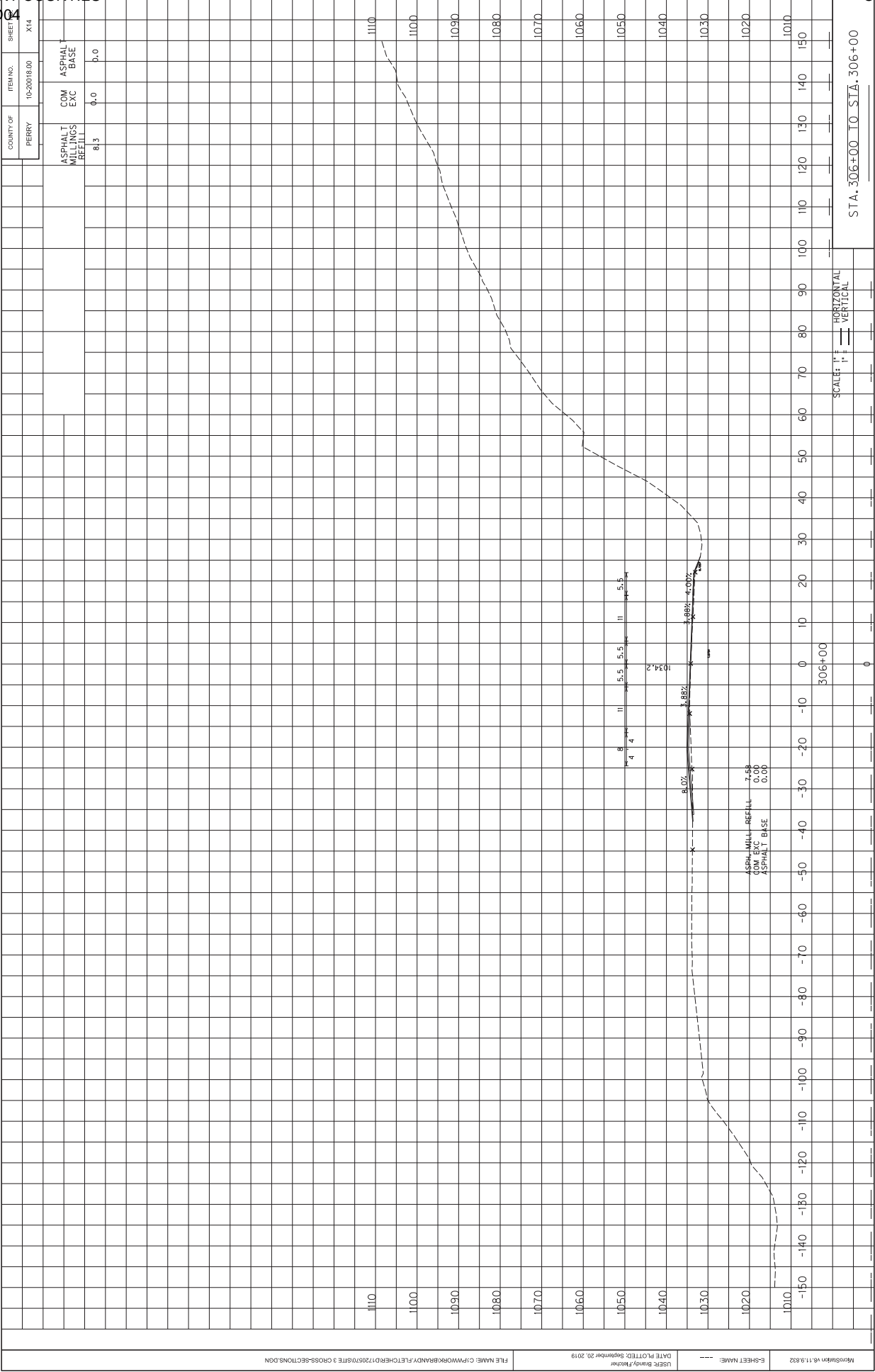


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MicroStation v8.11.9.832

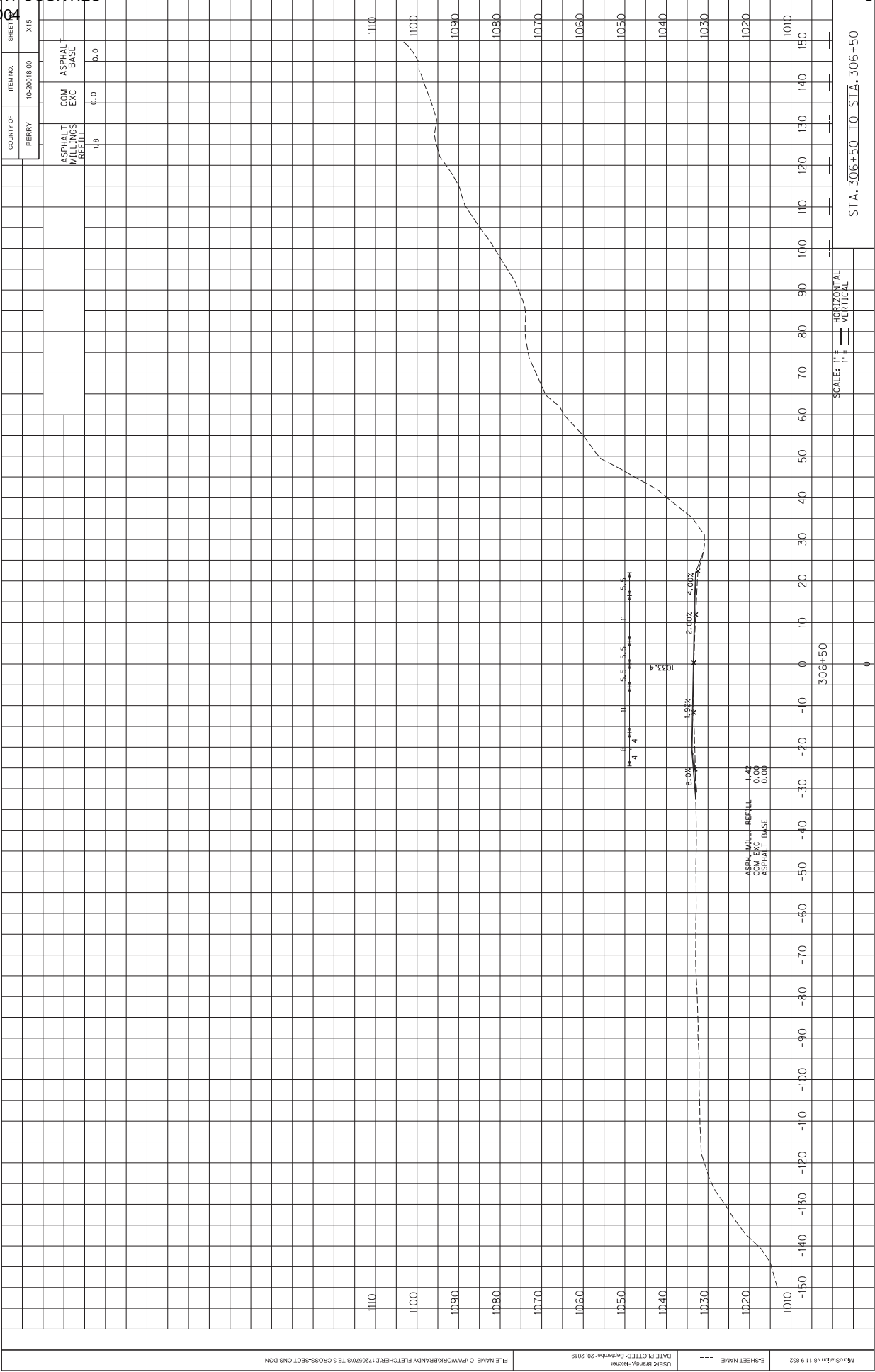


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MicroStation v8.11.9.832

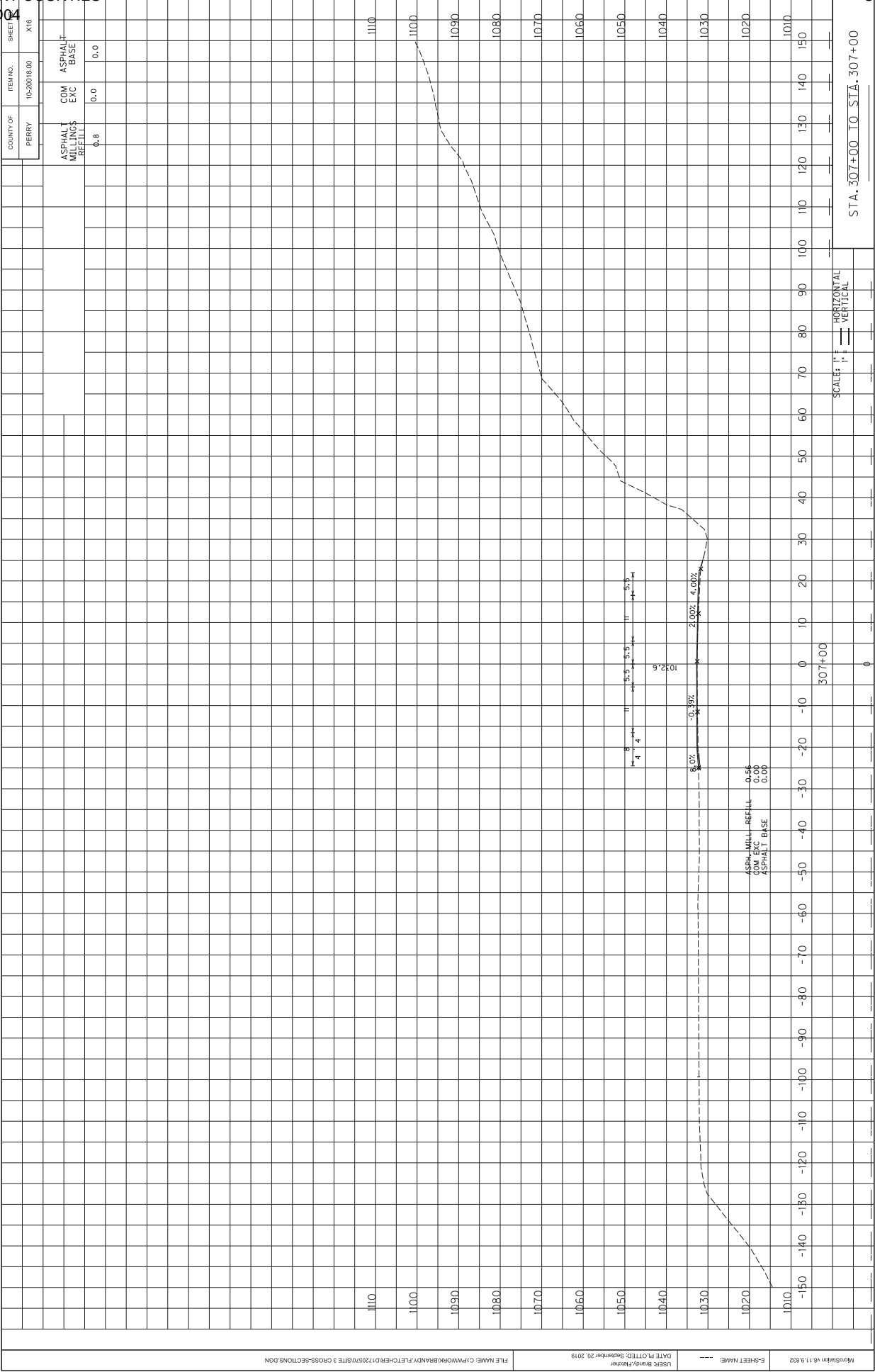


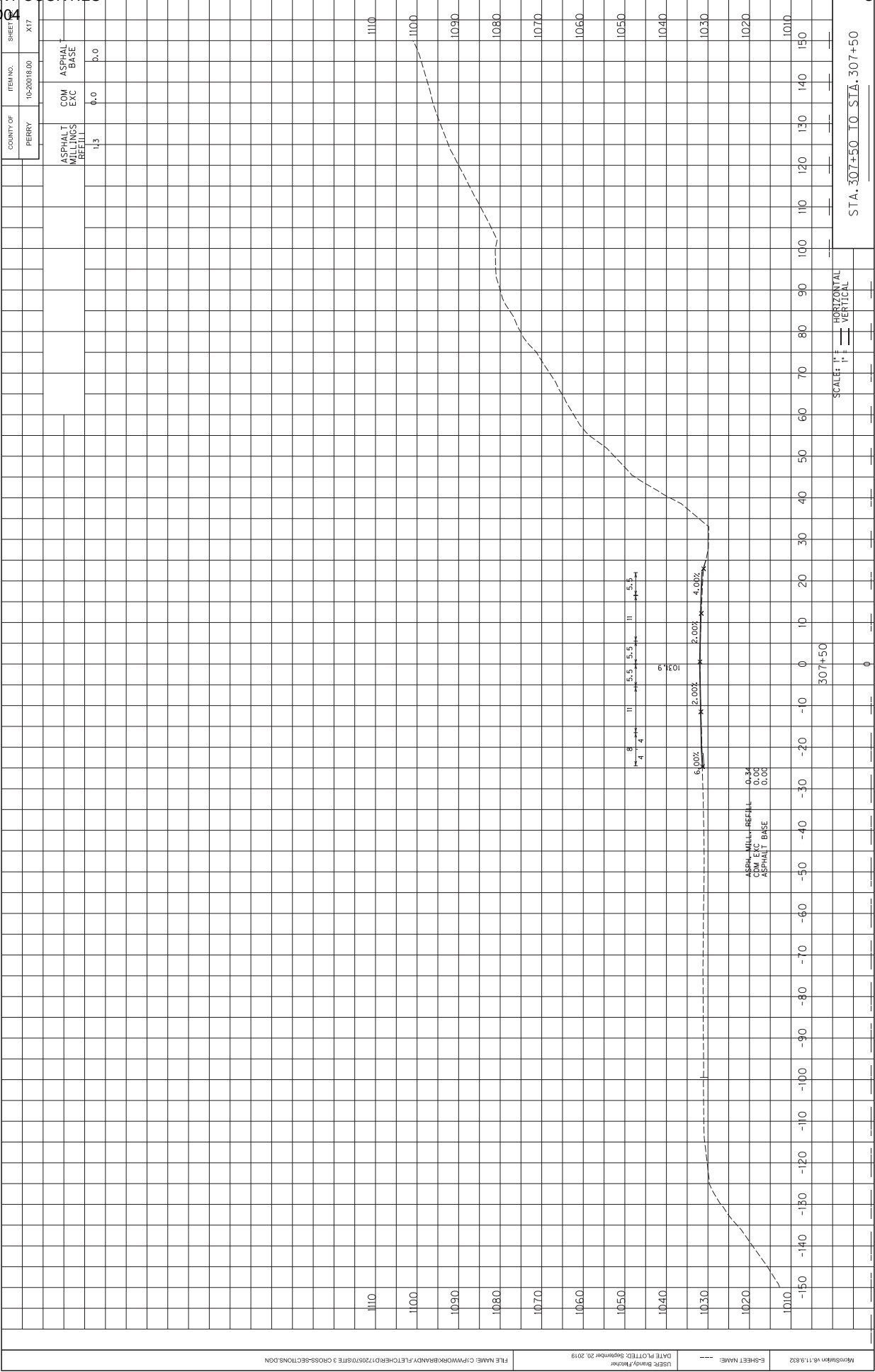
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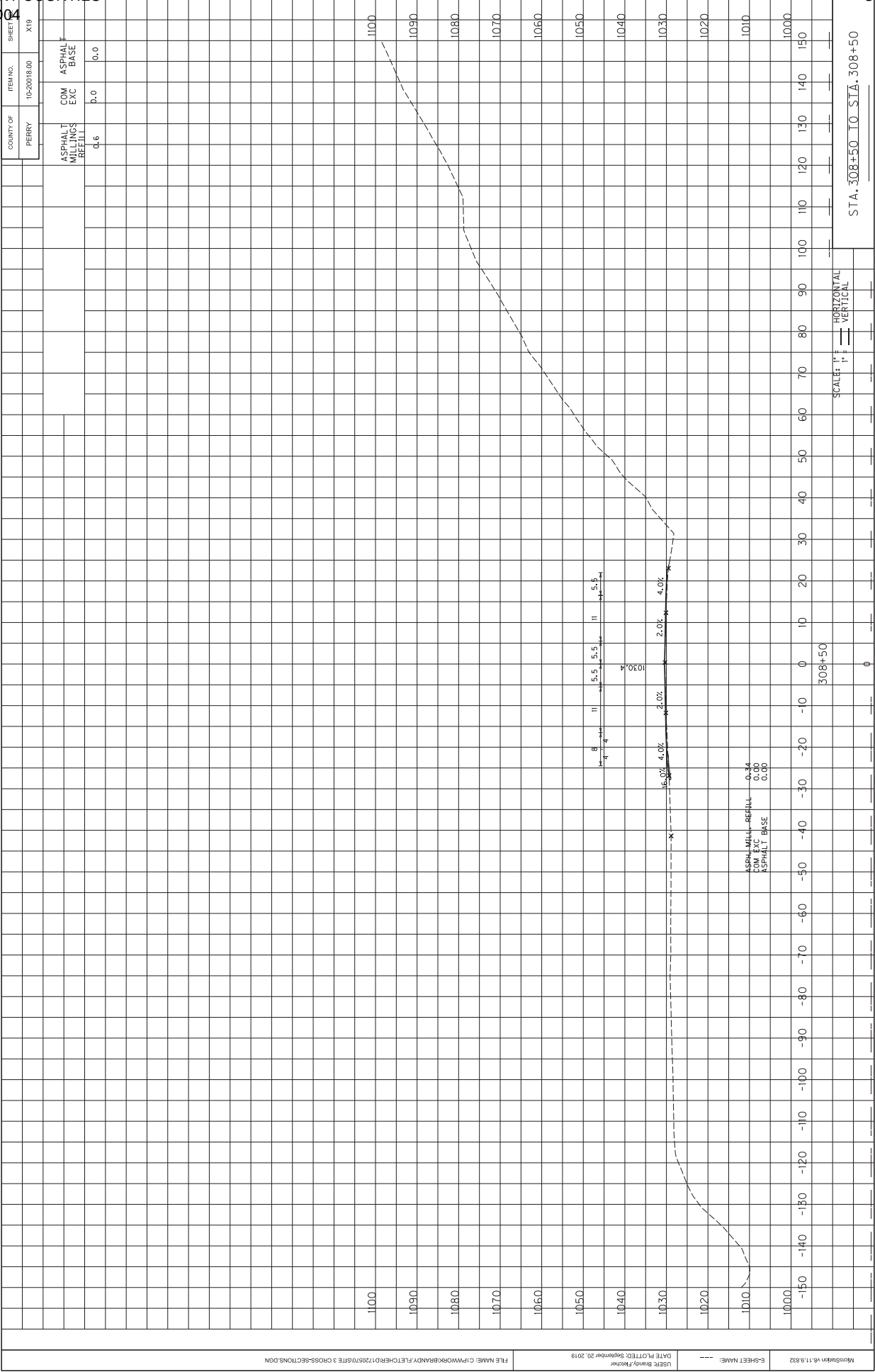
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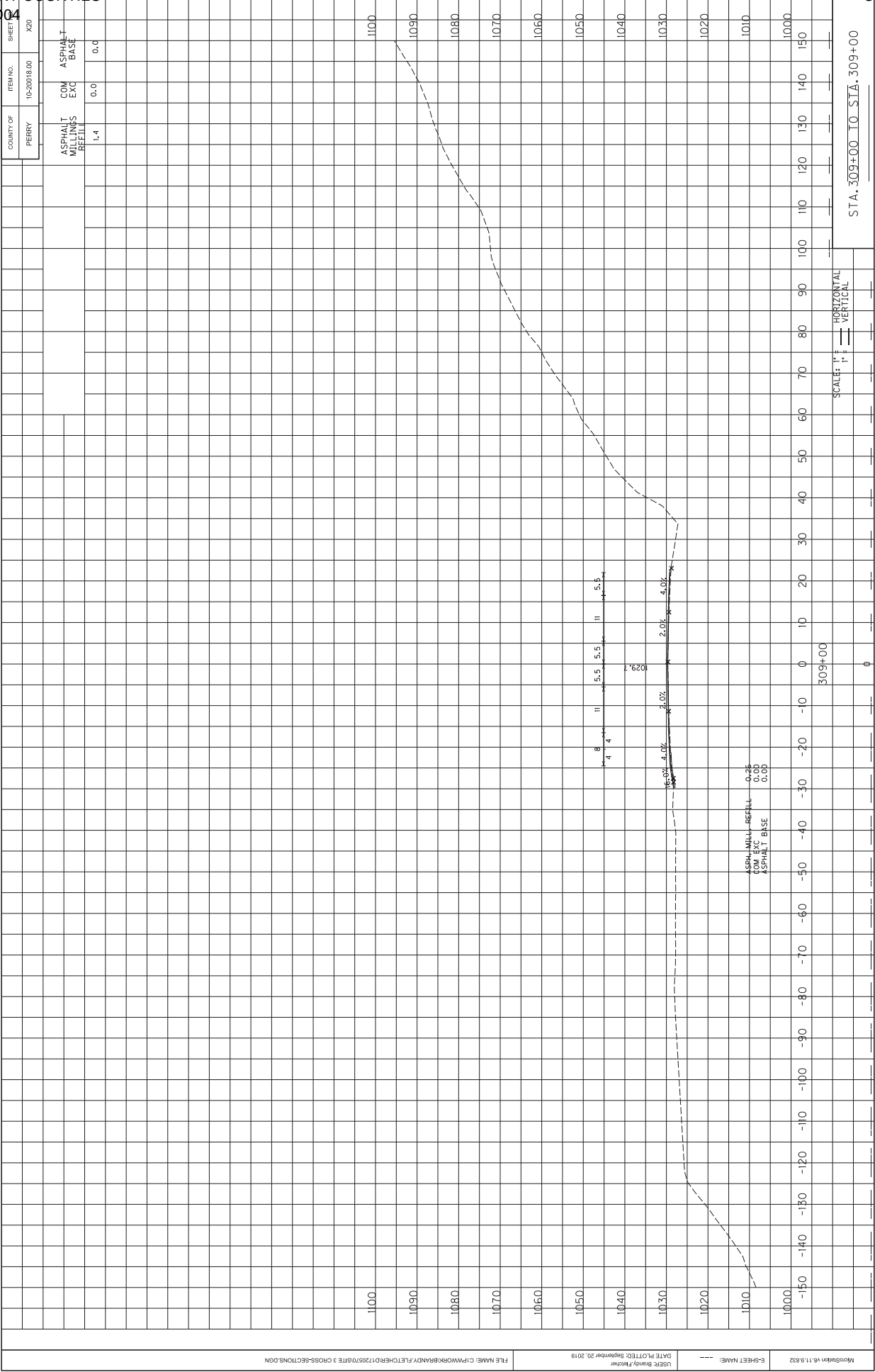
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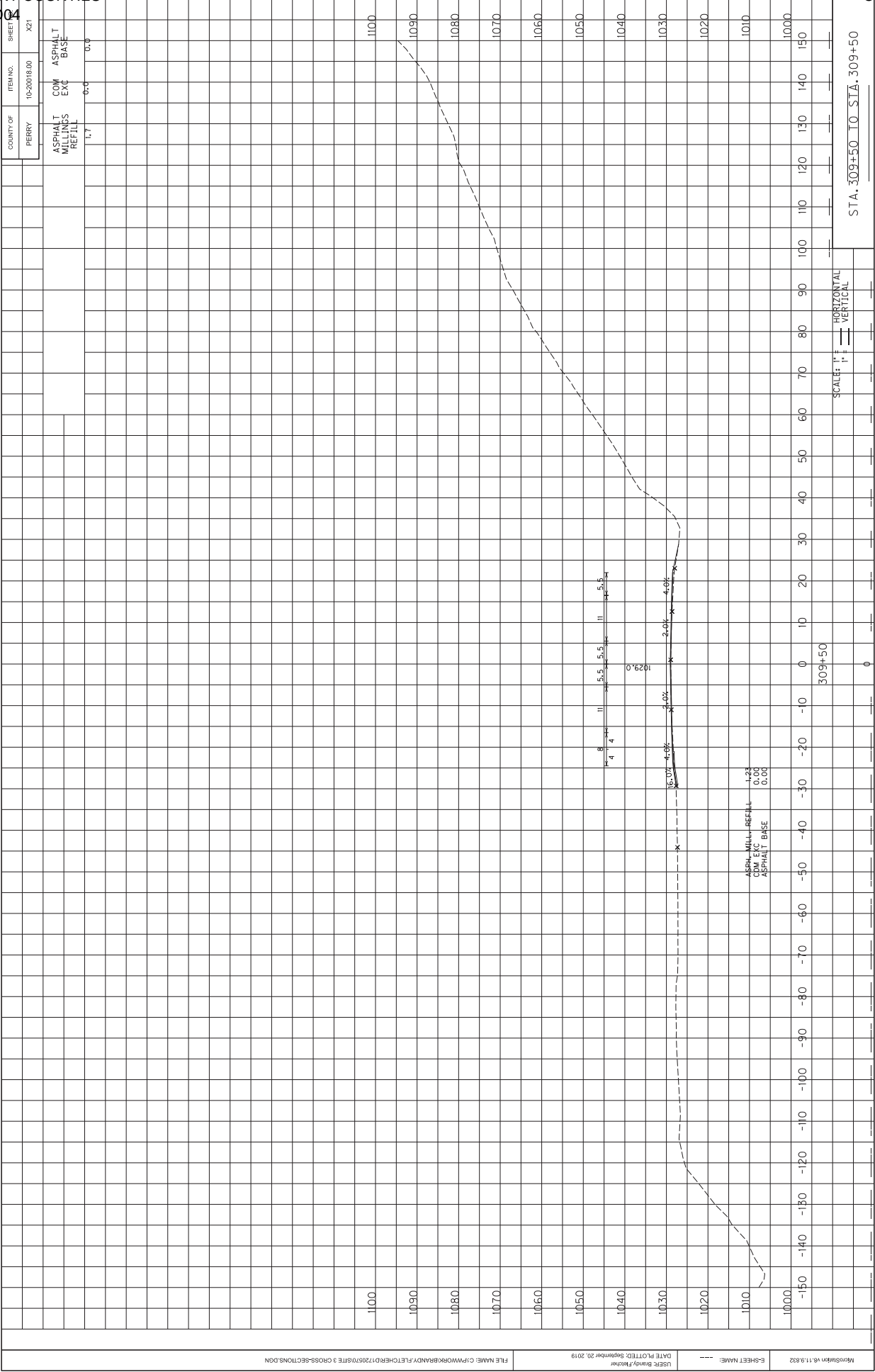
MicroStation v8.11.9.832

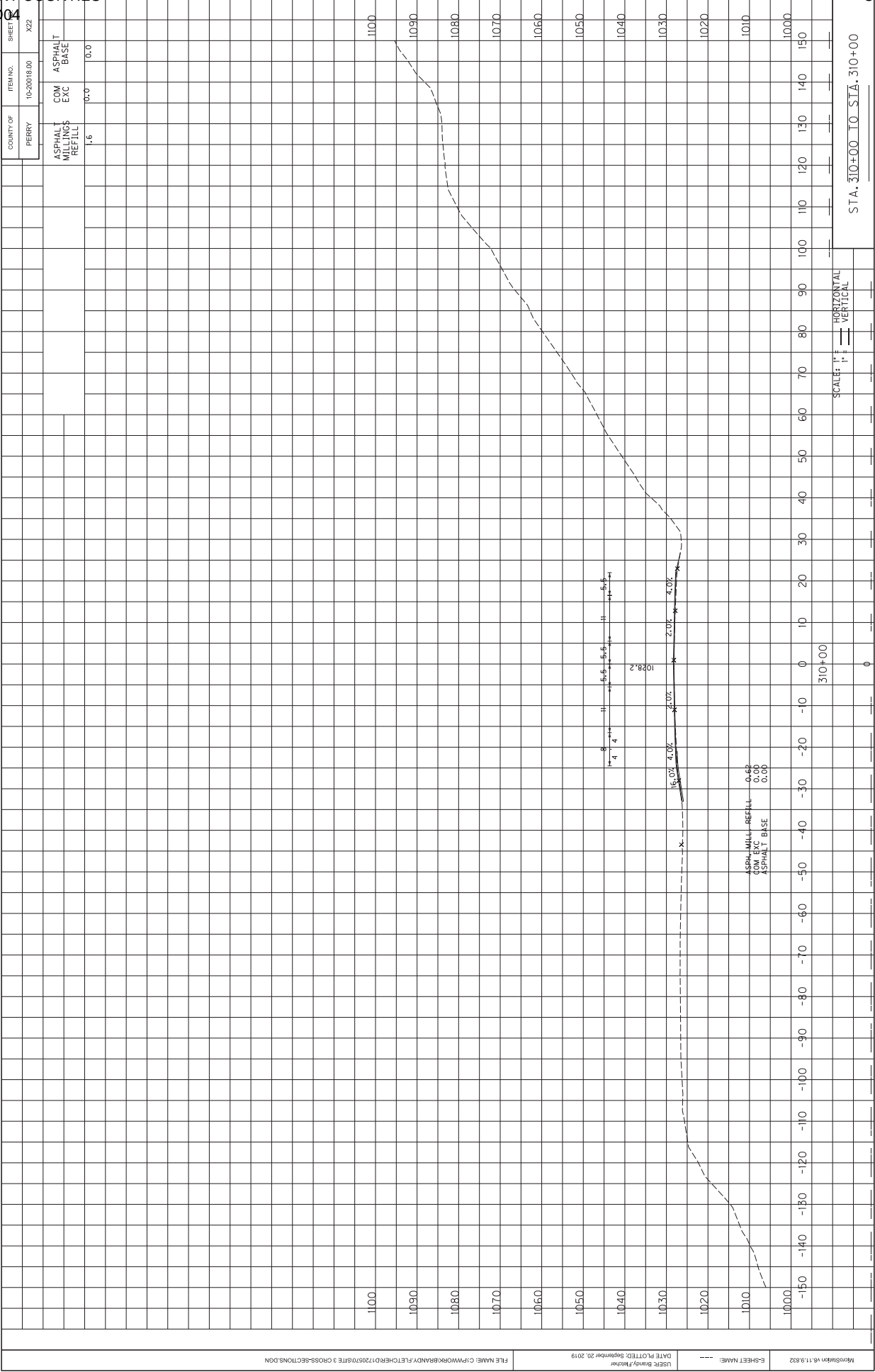


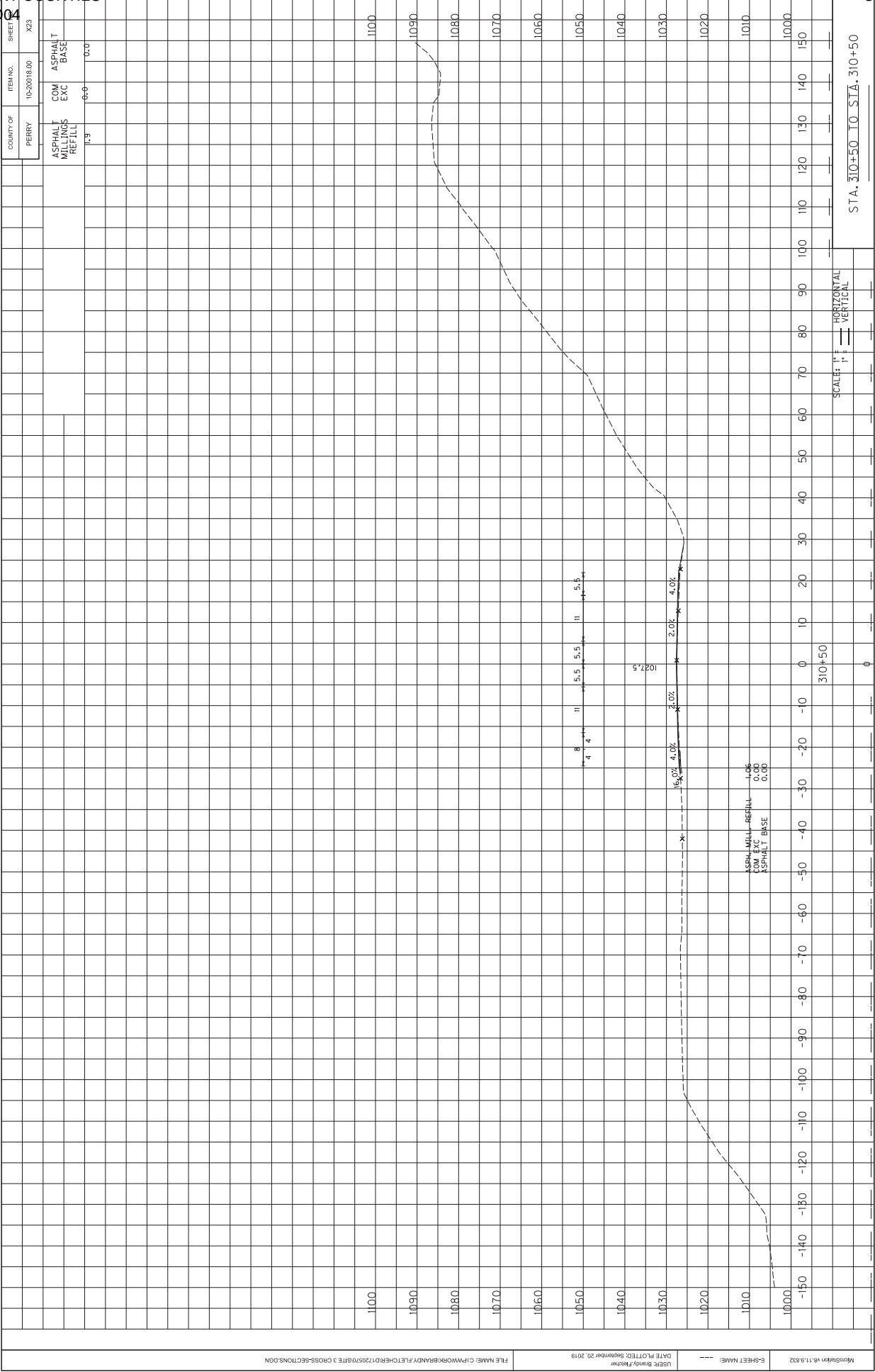


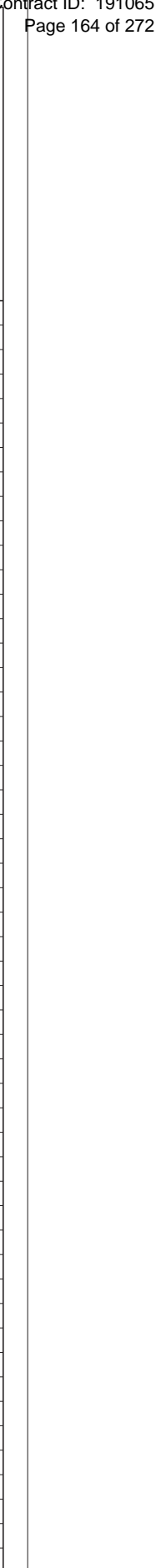










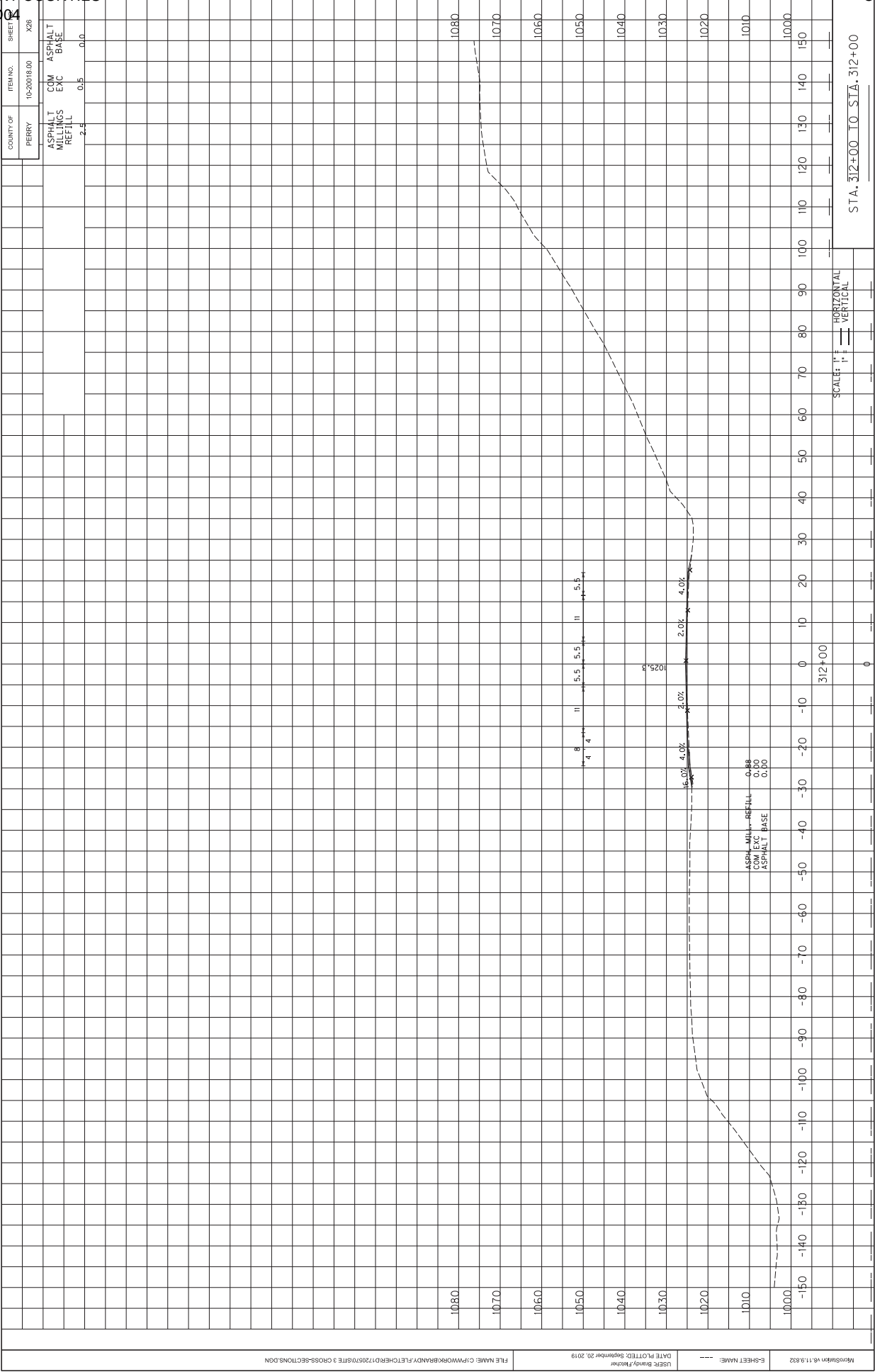
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Vertical Curve Data Table:

Station	Grade (%)	Offset (ft)
-150	16.0%	4
-140	4.0%	4
-130	2.0%	4
-120	2.0%	4
-110	2.0%	4
-100	2.0%	4
-90	2.0%	4
-80	2.0%	4
-70	2.0%	4
-60	2.0%	4
-50	2.0%	4
-40	2.0%	4
-30	2.0%	4
-20	2.0%	4
-10	2.0%	4
0	2.0%	4
10	2.0%	4
20	2.0%	4
30	2.0%	4
40	2.0%	4
50	2.0%	4
60	2.0%	4
70	2.0%	4
80	2.0%	4
90	2.0%	4
100	2.0%	4
110	2.0%	4
120	2.0%	4
130	2.0%	4
140	2.0%	4
150	2.0%	4

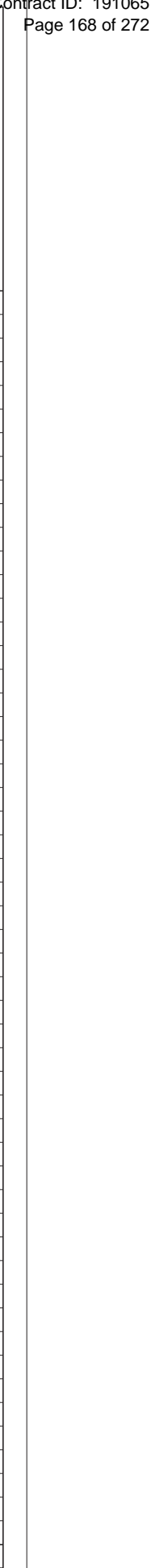
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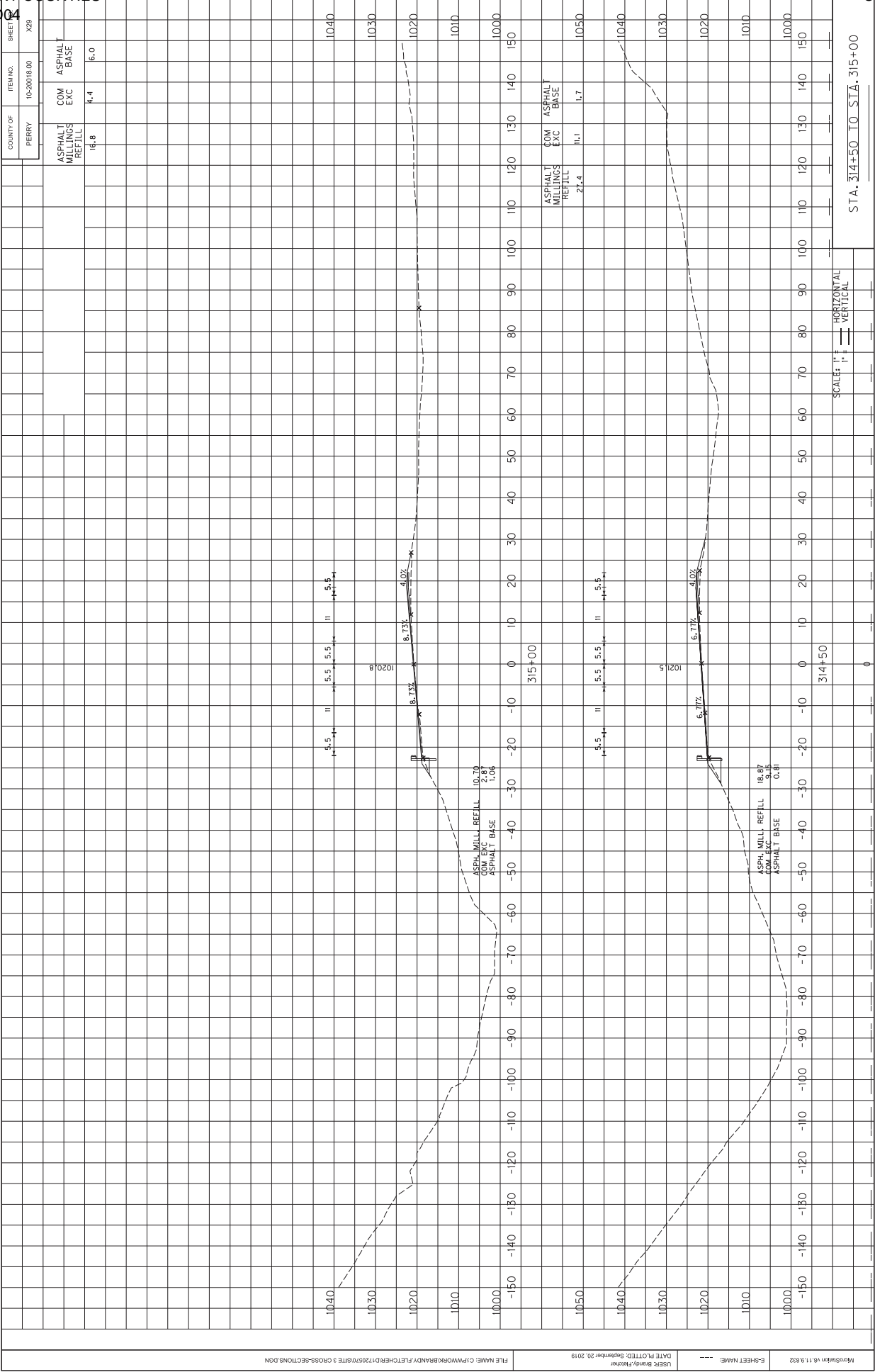
Station	Grade (%)	Offset (ft)
-150	16.0%	4
-140	4.0%	4
-130	2.0%	4
-120	2.0%	4
-110	2.0%	4
-100	2.0%	4
-90	2.0%	4
-80	2.0%	4
-70	2.0%	4
-60	2.0%	4
-50	2.0%	4
-40	2.0%	4
-30	2.0%	4
-20	2.0%	4
-10	2.0%	4
0	2.0%	4
10	2.0%	4
20	2.0%	4
30	2.0%	4
40	2.0%	4
50	2.0%	4
60	2.0%	4
70	2.0%	4
80	2.0%	4
90	2.0%	4
100	2.0%	4
110	2.0%	4
120	2.0%	4
130	2.0%	4
140	2.0%	4
150	2.0%	4



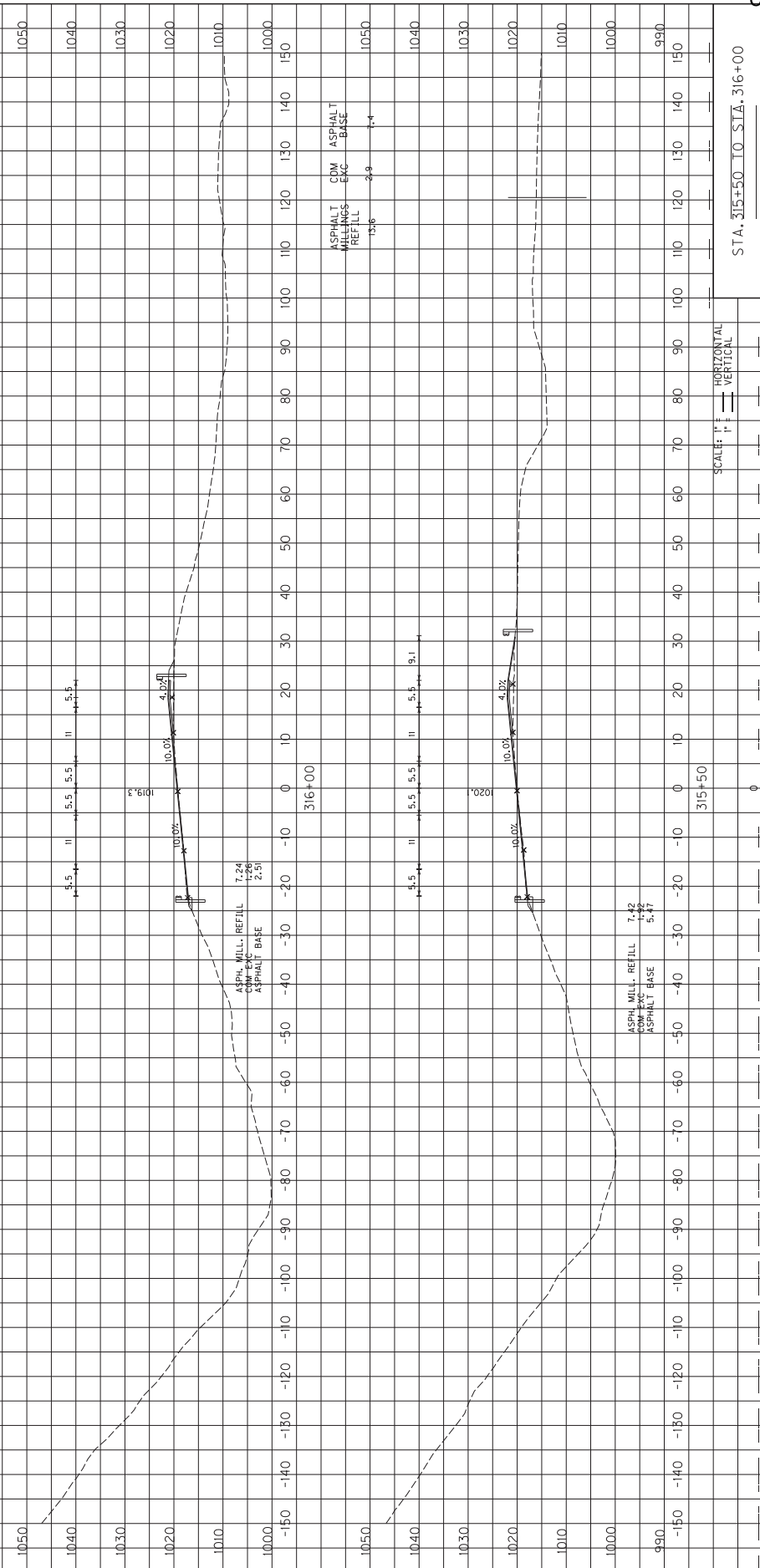
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Age Group	Percentage
18-24	25.8
25-34	3.0
35-44	1.1



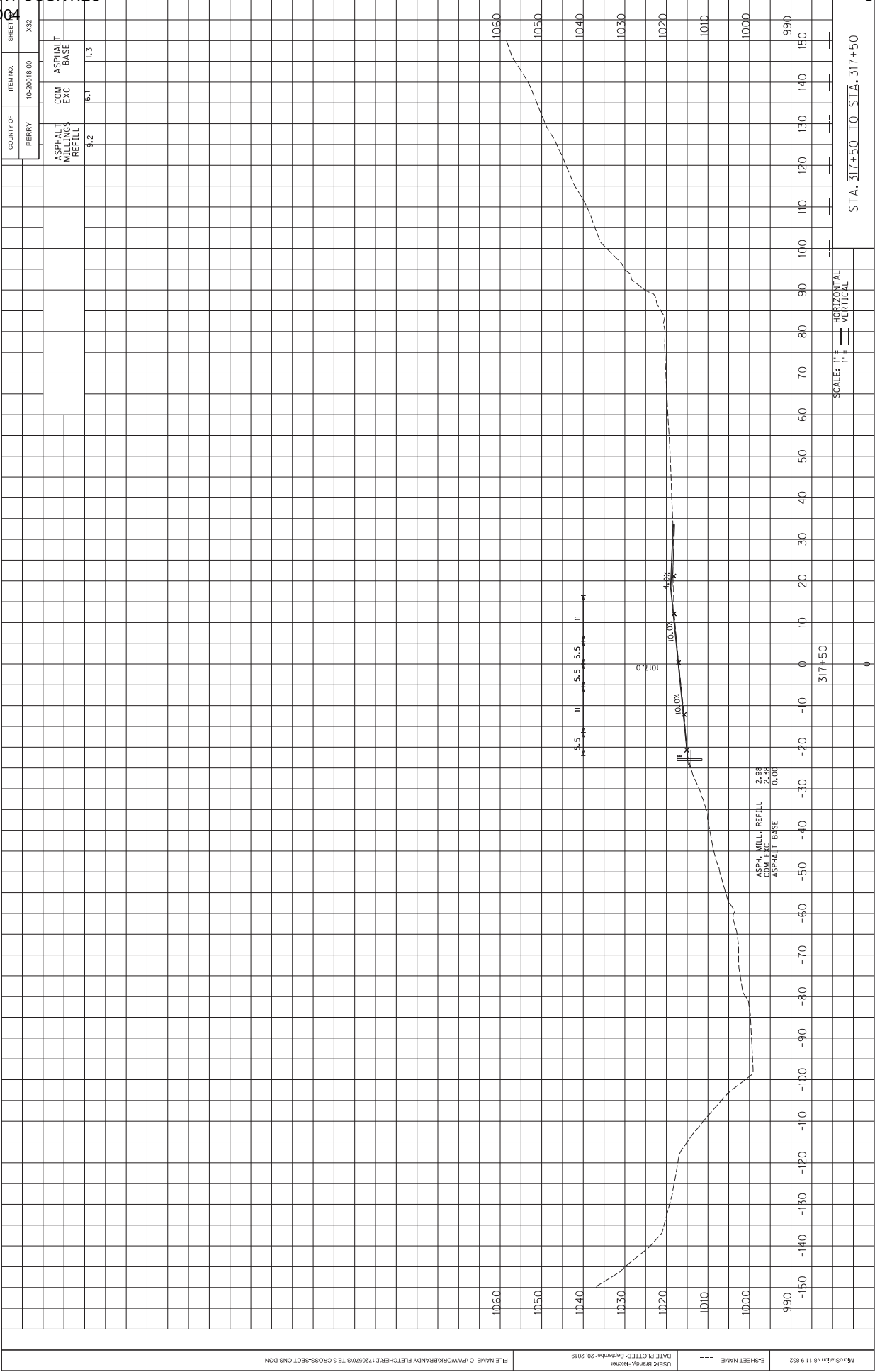


ASPHALT MILLINGS REFILL	COM EXC	ASPHALT BASE
14.3	4.5	3.2

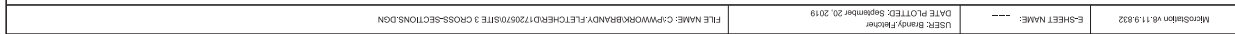


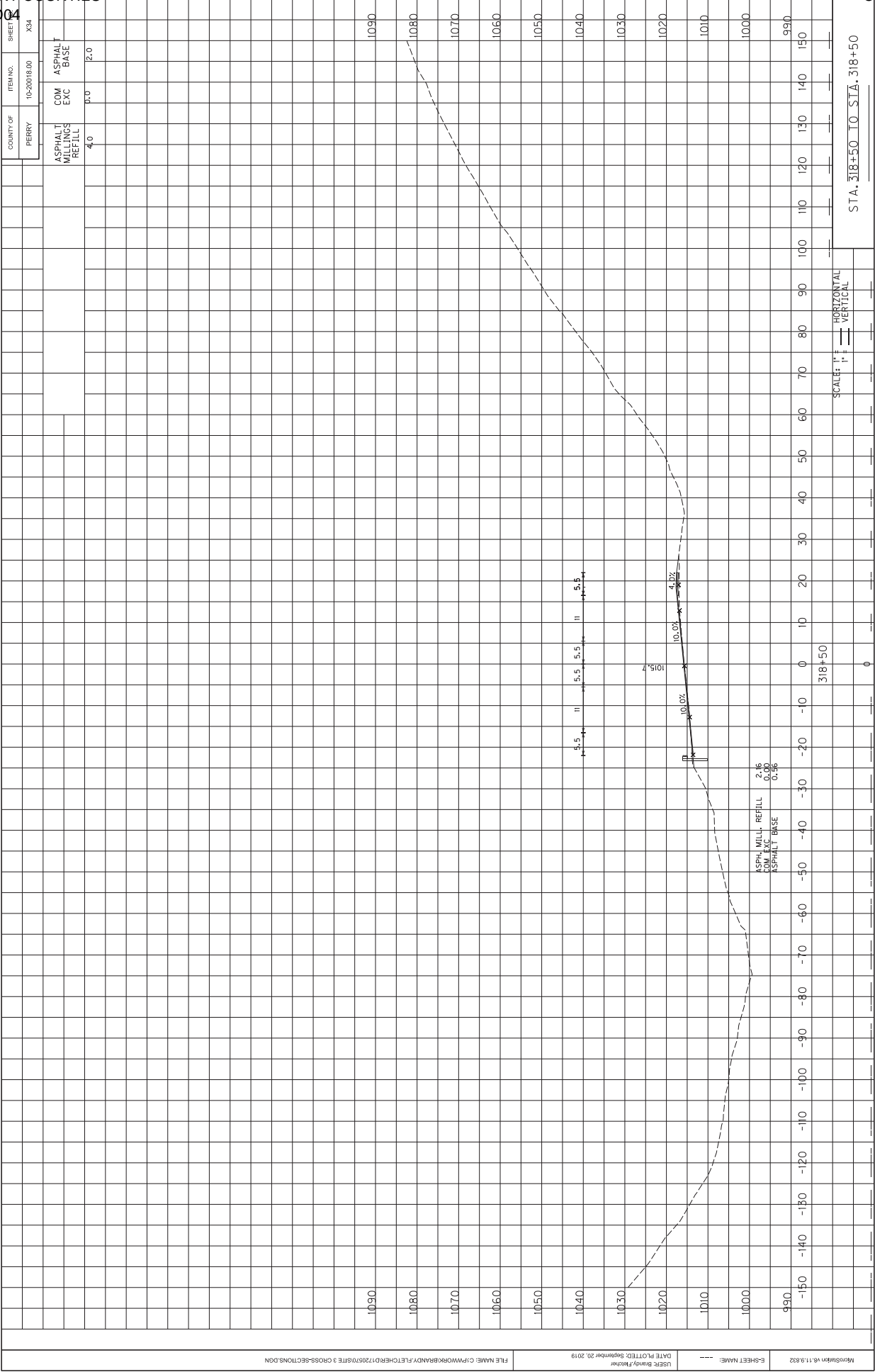
STA. 315+50 TO STA. 316+00

MicroStation v8.11.9.832	E-SHEET NAME: ---	USER: Brandy.Fletcher DATE PLOTTED: September 20, 2019	FILE NAME: C:\PWORK\KBRANDY\FLETCHER\1720570\SITE 3 CROSS-SECTIONS.DGN
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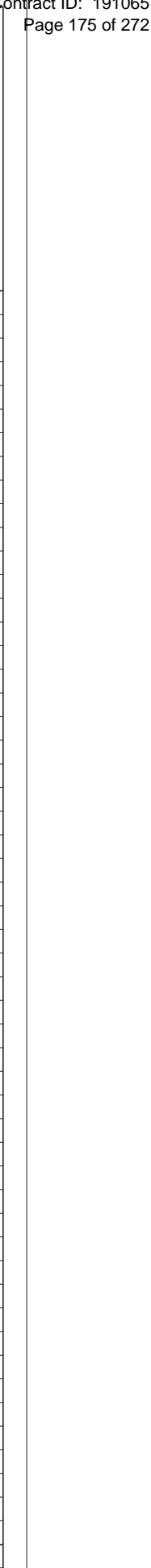


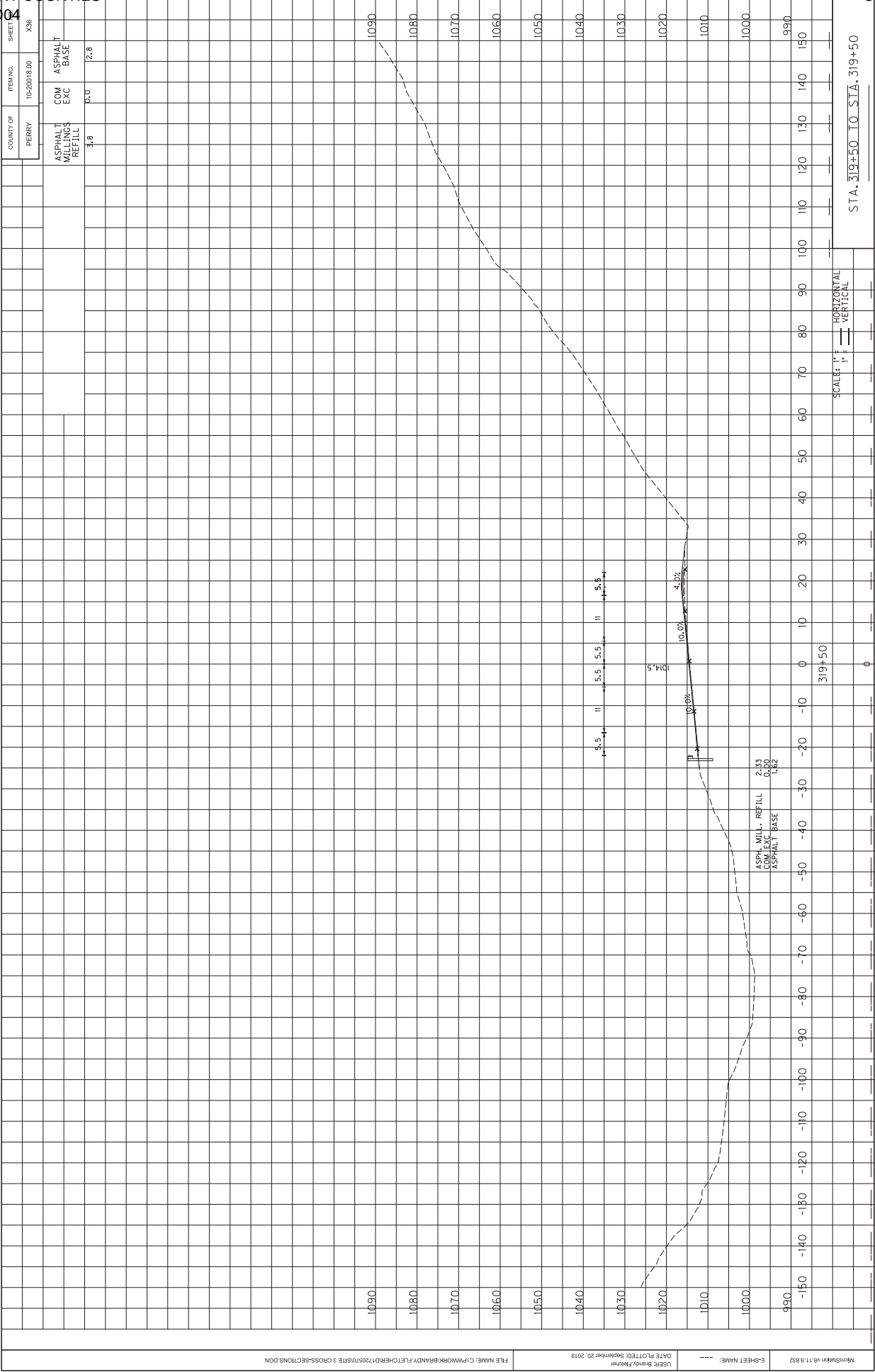
ASPHALT FILLINGS REFILL	COM EXC	ASPHALT BASE
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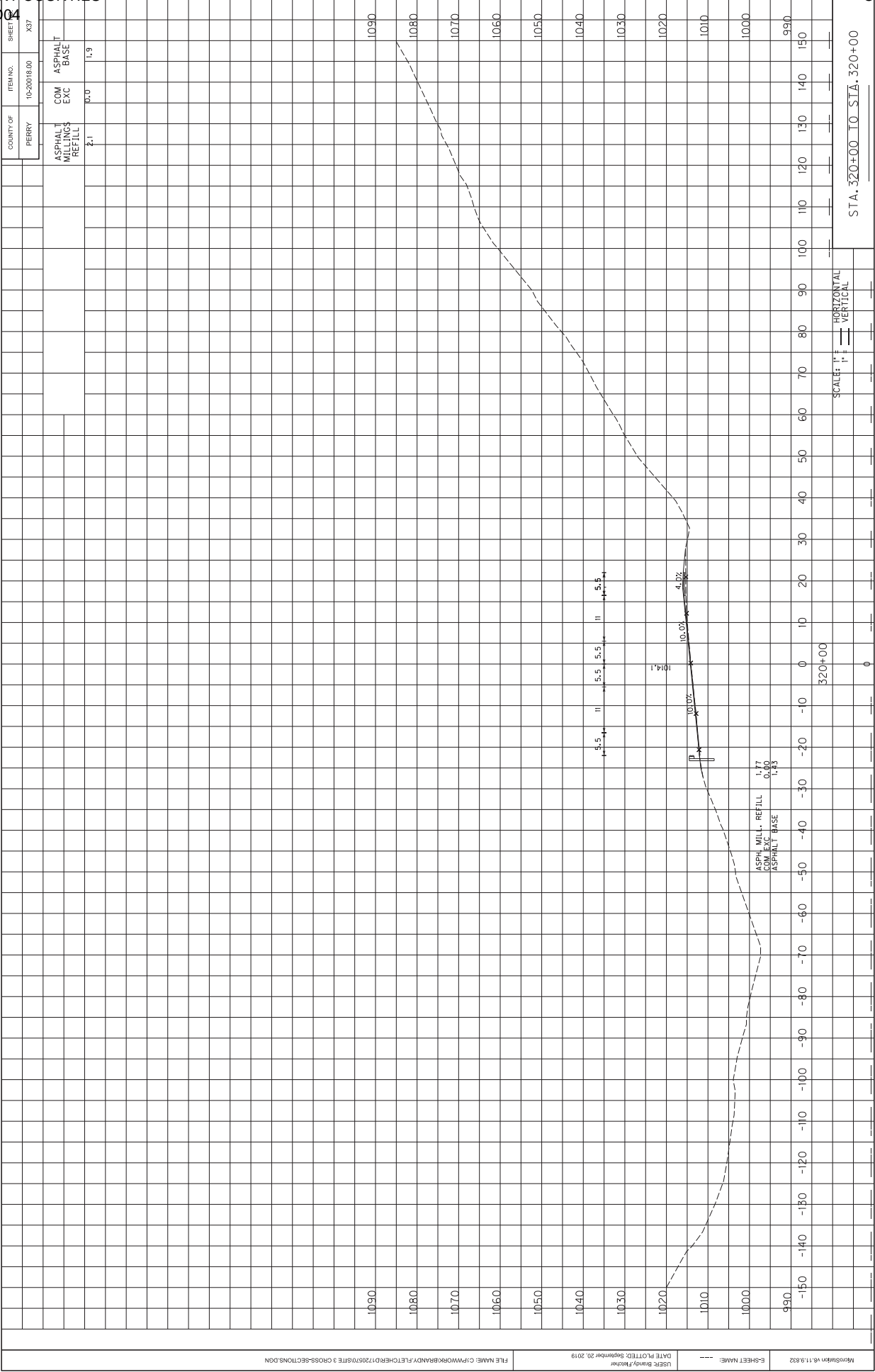


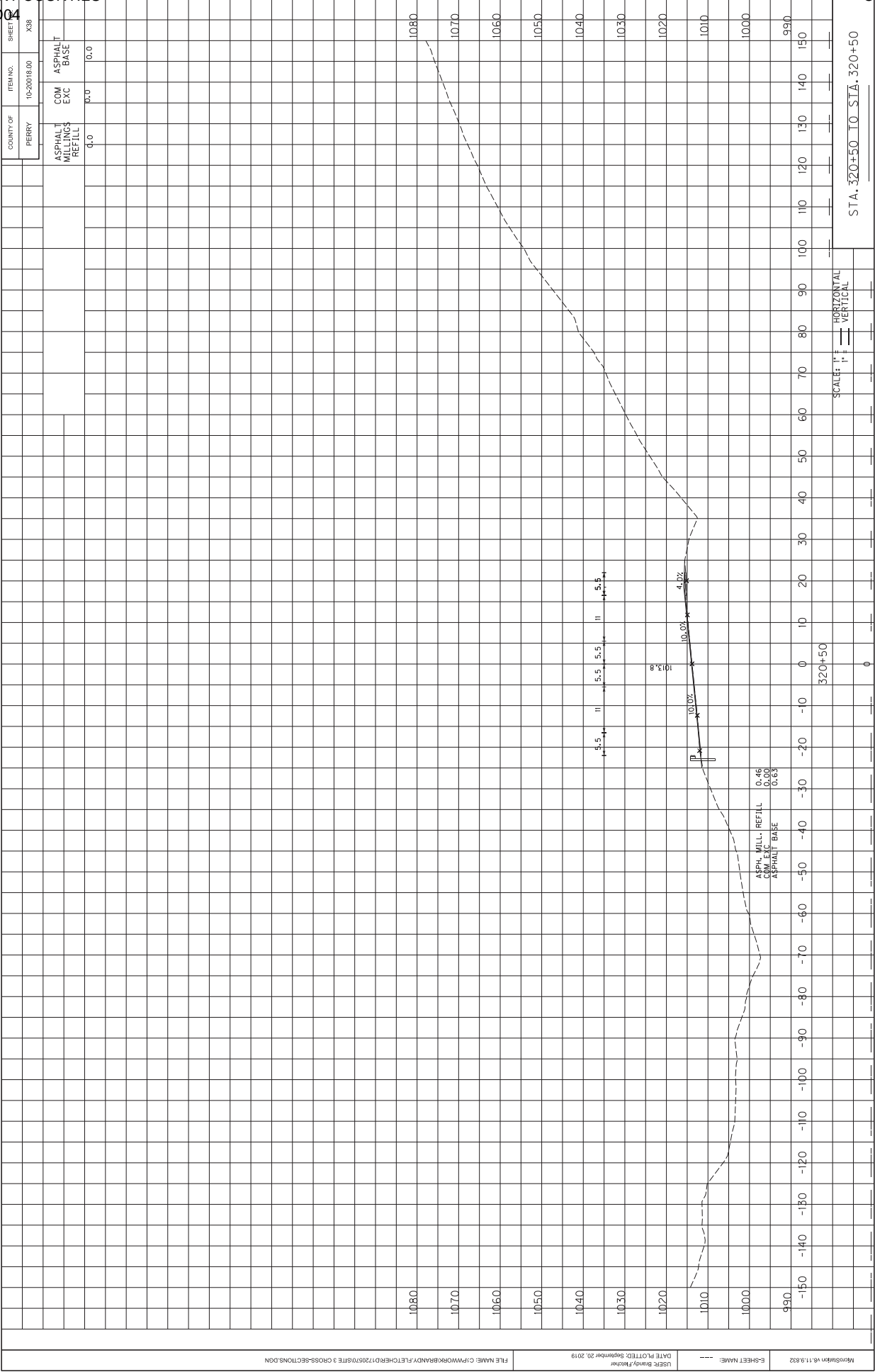


ASPHALT FILLINGS REFILL	COM EXC	ASPHALT BASE
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Mitigation v8.11.832	E-SHEET NAME: ---	USER: Brandt Fletcher DATE PLOTTED: September 20, 2019	FILE NAME: C:\PW\WORK\BRANDY_FLETCHER\1720570\SITE 3 CROSS-SECTIONS.DGN
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STANDARD DRAWINGS APPLICABLE TO PROJECT

RBI-002-07	TYPICAL GUARDRAIL INSTALLATIONS
RBI-004-05	INSTALLATION OF G.R. END TREATMENT TYPE 1
RBR-001-12	STEEL BEAM GUARDRAIL ("W" BEAM)
RBR-005-10	GUARDRAIL RAIL COMPONENTS
RBR-010-05	GUARDRAIL TERMINAL SECTIONS
RBR-015-05	STEEL GUARDRAIL POSTS
RBR-020-06	GUARDRAIL END TREATMENT TYPE 1
RBR-035-11	GUARDRAIL END TREATMENT TYPE 4A
RBR-055	DELINEATORS FOR GUARDRAIL
RBR-060	DELINEATORS AT NARROW SHOULDER BRIDGES
RBR-100-07	STEEL BEAM GUARDRAIL (THRIE BEAM)
RDB-105-06	SLOPED AND FLARED BOX INLET-OUT 18"-36"
RDB-106-05	GRATES FOR SLOPED AND FLARED BOX INLET-OUTLET
RDB-150-02	METAL END SECT. TYPE 1 AND 2 (PARRALLEL STRUCTURES)

RDD-021-07	FLUME INLET TYPE 2
RDX-225	SILT TRAP TYPE B
RDX-101-04	SILT TRAP TYPE C
RDD-040-04	CHANNEL LINING CLASS II AND III
RDI-001-10	CULVERT, ENT, AND S.S. PIPE TYPE AND COVER HEIGHT.
RDI-020-09	PIPE BEDDING FOR CULVERTS, ENTRANCE & S.S. PIPE
RDI-021-01	PIPE BEDDING FOR CULV, ENT & S.S. REINFOR. CONC. PIPE.
RDI-040-01	PIPE BEDDING TRENCH CONDITION
RDI-41-01	PIPE BEDDING TRENCH CONDITION REINFOR. CONC. PIPE.
RDI-035-02 RGX-060-01	COATINGS, LININGS AND PAVINGS NON-STRUCT. PLAT PIPE. BREAKAWAY SIGN SUPPORT SYSTEM FOR TYPE C BEAM
RDI-200-05	SLOTTED DRAIN PIPE (DETAIL SHEET)
TPM-115-03	PAVE MARKER ARRANGE. TWO-LANE, TWO-WAY RDWY.
TPM-15—02	CENTERLINE RUMBLE STRIPS
TPM-160-02	CENTERLINE RUMBLE STRIPS 6 INCH STRIPING
TPM-165	SHOULDER AND EDGELINE RUMBLE STRIP DETAILS
TPM -170	FLEXIBLE DELINEATOR POST ARRANGEMENTS FOR HORIZONTAL CURVES.
TTC-135-02	SHOULDE CLOSURE
TTC-155-02	TEMPORARY PAVE MARKER ARRANGE. FOR CONST. ZONE.
TTC-160-02	TEMPORARY PAVE MARKER ARRANGE FOR LANE CLOSURES.
TTD-120-01	WORK ZONE SPEED LIMIT AND DOUBLE FINE SIGNS

TID-125-02

PAVEMENT CONDITION WARNING SIGNS

TTS-100-02

MOBILE OPERATION FOR PAINT STRIPING CASE I

TTS-105-02

MOBILE OPERATION FOR PAINT STRIPING CASE II

RGS-002-05

SUPERELEVATION FOR MULTI-LANE PAVEMENT

RGS-001-06

CURVE WIDENING AND SUPERELEVATION TRANSITIONS

SEPIA LIST

1. SEPIA 002 CENTERLINE RUMBLE STRIPS
2. SEPIA 004 CENTERLINE RUMBLE STRIPS 6 INCH STRIPING
3. SEPIA 005 SHOULDER AND EDGELINE RUMBLE STRIP DETAILS
4. SEPIA 007 SHOULDER RUMBLE STRIP DETAILS TWO LANE ROADWAYS.
5. SEPIA 008 RUMBLE STRIP DETAILS MULTI-LANE RDWYS AND RAMPS
6. SEPIA 011 PAVE. MARKER ARRANGEMENTS TWO-WAY LEFT TURN LANE
7. SEPIA 024 TYPICAL GUARDRAIL INSTALLATIONS
8. SEPIA 025 INSTALLATION OF GUARDRAIL END TREATMENT TYPE 1
9. SEPIA 027 STEEL BEAM GUARDRAIL "W" BEAM
10. SEPIA 028 STEEL GUARDRAIL POSTS
11. SEPIA 029 GUARDRAIL END TREATMENT TYPE 1
12. SEPIA 030 GUARDRAIL END TREATMENT TYPE 4A
13. SEPIA 032 DELINEATOR FOR GUARDRAIL
14. SEPIA 033 GUARDRAIL SYSTEM TRANSITION

GENERAL NOTE:

165 BEFORE YOU DIG

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.

444 ASPHALT PAVEMENT RIDE QUALITY

PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY ON THIS PROJECT. CATEGORY A SHALL APPLY.

650 STANDARD DRAWINGS

STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING BOOK AND THE HEADWALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES IN FRANKFORT, KY. AT (502) 564-3670

SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

THE DIMENSIONS SHOWN ON THE TYPICAL SECTIONS FOR PAVEMENT AND SHOULDER WIDTHS AND THICKNESS ARE NOMINAL OR TYPICAL DIMENSIONS. THE ACTUAL DIMENSIONS TO BE CONSTRUCTED MAY BE VARIED TO FIT EXISTING CONDITIONS AS DIRECTED OR APPROVED BY THE ENGINEER. IT IS NOT INTENDED THAT EXISTING PAVEMENT OR SHOULDERS BE WIDENED UNLESS SPECIFIED ELSEWHERE IN THE PROPOSAL.

SPECIAL NOTES INCLUDED IN THE PROPOSAL

1. EROSION CONTROL
2. INLAID PAVEMENT MARKERS
3. LONGITUDINAL PAVEMENT JOINT ADHESIVE
4. COMPACTION OF ASPHALT MIXTURE
5. BARCODE LABEL

6. FIXED COMPLETION DATE
7. FOG SEAL
8. CHANGEABLE MESSAGE BOARD
9. WASTE AND BORROW SITE
10. COORDINATION OF WORK

PROJECT NOTES

1. SECTIONS WHERE EXISTING GUARDRAILS ARE TO BE REMAINING IN PLACE, CONTRACTOR IS RESPONSIBLE TO REMOVE MINIMAL PIECES OF GUARDRAIL TO ALLOW EQUIPMENT ACCESS BEHIND THE GUARDRAIL FOR SHOULDERING AND DITCHING OPERATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL UNWANTED MATERIALS FROM SHOULDER AND DITCH, SUCH AS TREES, DEBRIS, LARGE BOULDERS AND OTHER MATERIALS, AND ARE CONSIDERED PART OF THE SHOULDERING AND DITCHING' BID ITEM.
3. GUARDRAIL REMOVED FROM THE PROJECT IN LOCATIONS INDICATED IN THE PROPOSAL SHALL BE DELIVERED TO THE PERRY COUNTY MAINTENANCE LOT OR TO LOCATION AS DIRECTED BY THE PROJECT ENGINEER.
4. ALL MATERIALS REMOVED, EXCEPT ASPHALT MILLINGS, SHALL BE WASTED OFF THE PROJECT AT SITES SELECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER, AND SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK. THE CABINET IS NOT RESPONSIBLE FOR FINDING A WASTE SITE FOR EXCESS MATERIALS.
5. MILLINGS, IN LIEU OF DGA WILL BE USED TO CONSTRUCT RESHAPE THE OUTSIDE SHOULDER WEDGES THROUGHOUT THE PROJECT AT LOCATIONS SPECIFIED IN THE PROPOSAL AND LOCATIONS AS DIRECTED BY THE ENGINEER. COMPACT AND SHAPE THE ASPHALT MILLINGS AS DIRECTED BY THE ENGINEER. THIS WORK IS INCIDENTAL TO THE BID ITEM "DITCHING AND SHOULDERING". THE DEPARTMENT WILL RETAIN HALF OF THE REMAINING SURPLUS MILLINGS. SURPLUS MILLINGS ARE TO BE DELIVERED TO BREATHITT COUNTY MAINTENANCE LOT AND/OR PERRY COUNTY MAINTENANCE LOT.
6. EXISTING PAVEMENT MARKERS ON THE PROJECT SHALL BE REMOVED PRIOR TO THE PAVING OPERATION. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF THE PAVEMENT MARKERS AND THE REMOVED CONCRETE ASPHALT MATERIALS. REMOVAL OF EXISTING PAVEMENT MARKERS SHALL BE INCIDENTAL TO ASPHALT PAVEMENT MILLING & TEXTURING BID ITEM.
7. STRIPPING VEGETATION AS NECESSARY FOR THE PROPOSED PAVEMENT CONSTRUCTION OR AS DIRECTED BY THE ENGINEER SHALL BE INCIDENTAL TO THE OTHER ITEMS OF WORK.

8. QUANTITIES FOR MILLING AND ASPHALT BASE ARE INCLUDED FOR THE PURPOSE OF SHOULDER JOINT AND CENTERLINE JOINT REPAIRS. THE ENGINEER WILL DETERMINE THE ULTIMATE LOCATIONS THAT WILL BE REPAIRED BASED UPON THE CONDITION OF THE PAVEMENT AT THE TIME THE REPAIRS ARE ACCOMPLISHED.
9. INLAID PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH THE "SPECIAL NOTE FOR INLAID PAVEMENT MARKERS." THE CONTRACTOR SHALL NOTIFY THE UNIVERSITY OF KENTUCKY TRANSPORTATION CENTER 14 DAYS PRIOR TO THE INSTALLATION OF INLAID PAVEMENT MARKERS.
10. THE EXISTING EDGE DRAIN SYSTEM IS TO BE PRESERVED. CARE SHOULD BE TAKEN WHEN ASPHALT IS REMOVED AND REPLACED, ANY EDGE DRAINS DAMAGED DURING THESE ACTIVITIES WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
11. A PILOT VEHICLE IS REQUIRED DURING PAVING OPERATION AND SHALL BE INCIDENTAL TO BID ITEM "MAINTAIN & CONTROL TRAFFIC."
12. PAVING AND MILLING OPERATIONS AND OTHER PAVEMENT WORK SHALL NOT BE ALLOWED AT THE SAME TIME ON BOTH NORTHBOUND AND SOUTHBOUND LANES. PAVING AND OTHER PAVEMENT WORK SHALL BE COMPLETED ON THE SAME DAY AS THE MILLING OPERATION.
13. POSITIVE DRAINAGE OF ROADWAY SHALL BE MAINTAINED AT ALL TIME.
14. THE CONTRACTOR SHOULD USE WATER BLASTING, OR OTHER METHODS AS DIRECTED BY THE ENGINEER, TO REMOVE EXISTING PAINT STRIPES. WATER BLASTING IS INCIDENTAL TO THE MAINTAIN AND CONTROL TRAFFIC BID ITEM.

TRAFFIC CONTROL PLAN

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE STANDARD DRAWINGS.

2. THE ENGINEER AND THE CONTRACTOR, OR THEIR AUTHORIZED REPRESENTATIVES, SHALL REVIEW THE SIGNING BEFORE TRAFFIC IS ALLOWED TO USE ANY LANE CLOSURES, CROSSOVERS OR DETOURS. ALL SIGNING SHALL BE APPROVED BY THE ENGINEER BEFORE WORK CAN BE STARTED BY THE CONTRACTOR.

3. THE CONTRACTOR SHALL SCHEDULE A REVIEW OF FINAL STRIPING PLANS PRIOR TO PLACEMENT WITH PROJECT TRAFFIC ENGINEER.

4. EXCEPT FOR THE ROADWAY AND TRAFFIC CONTROL BID ITEMS LISTED, ALL ITEMS OF WORK NECESSARY TO MAINTAIN AND CONTROL TRAFFIC WILL BE PAID AT THE LUMP SUM BID PRICE TO MAINTAIN AND CONTROL TRAFFIC AS SET FORTH IN THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE PROVIDED FOR IN THESE NOTES. THE LUMP SUM BID TO MAINTAIN AND CONTROL TRAFFIC SHALL ALSO INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS AND OPERATIONS:

A. ALL LABOR AND MATERIALS NECESSARY FOR CONSTRUCTION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AND MARKINGS.

B. ALL FLAG PERSONS AND TRAFFIC CONTROL DEVICES SUCH AS, BUT NOT LIMITED TO, FLASHERS, SIGNS BARRICADES AND VERTICAL PANELS, PLASTIC DRUMS (STEEL DRUMS WILL NOT BE PERMITTED) AND CONES NECESSARY FOR THE CONTROL AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC AS SPECIFIED IN THESE NOTES, THE PLANS, THE MUTCD OR THE ENGINEER.

C. ALL GRADING AND NECESSARY DRAINAGE FOR THE TEMPORARY ROADWAY AND REMOVAL THEREOF WHEN IT IS NO LONGER NEEDED.

D. LANE CLOSURES AND ALL NECESSARY ITEMS AND WORK NECESSARY TO PERFORM THIS WORK.

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

6. THE CONTRACTOR SHALL MAINTAIN A TWO-LANE TRAVELED WAY WITH A MINIMUM LANE WIDTH OF 10.5 FEET. HOWEVER, DURING WORKING HOURS, ONE-WAY TRAFFIC MAY BE ALLOWED AT THE DISCRETION OF THE ENGINEER, PROVIDED ADEQUATE SIGNING AND A FLAG PERSON ARE AT THE LOCATION. ONE-WAY TRAFFIC WITH TEMPORARY SIGNALS TO BE USED DURING REMOVAL AND CONSTRUCTING OF BRIDGE BARRIERS.

7. THE CONTRACTOR SHALL COMPLETELY COVER ANY SIGNS, EITHER EXISTING, PERMANENT OR TEMPORARY, WHICH DO NOT PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING, AND SHALL MAINTAIN THE COVERING UNTIL THE SIGNS ARE APPLICABLE OR ARE REMOVED.

8. IN GENERAL, ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED STARTING AND PROCEEDING IN THE DIRECTION OF THE FLOW OF TRAFFIC AND REMOVED STARTING AND PROCEEDING IN THE DIRECTION OPPOSITE THE FLOW OF TRAFFIC.

9. ALL KENTUCKY DEPARTMENT OF HIGHWAYS SIGNS (NON-ESSENTIAL AND NON-DIRECTIONAL) SHALL BE REMOVED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR IS ADVISED TO SCHEDULE SIGN REMOVAL WITH THE ENGINEER. SIGNS AND POSTS SHALL BE SEPARATED, BONDED ON PALLETS AND DELIVERED TO THE BREATHITT TRAFFIC BARN.

10. IF TRAFFIC SHOULD BE STOPPED DUE TO CONSTRUCTION OPERATIONS AND AN EMERGENCY VEHICLE ON AN OFFICIAL EMERGENCY RUN ARRIVES AT THE SCENE, THE CONTRACTOR SHALL MAKE THE PROVISIONS FOR THE PASSAGE OF THAT VEHICLE AS QUICKLY AS POSSIBLE.

11. THE CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAINST THE FLOW OF TRAFFIC. VEHICLES SHALL ENTER AND LEAVE WORK AREAS IN A MANNER WHICH NOT BE HAZARDOUS TO OR INTERFERE WITH NORMAL TRAFFIC. VEHICLES SHALL NOT PARK OR STOP EXCEPT WITHIN WORK AREAS DESIGNATED BY THE ENGINEER.

12. REMOVE ALL PAVEMENTS MARKING BY WATER BLASTING PROCESS TO THE SATISFACTION OF THE ENGINEER.

13. PAVEMENT DROP-OFF

A PAVEMENT EDGE THAT TRAFFIC IS NOT EXPECTED TO CROSS, EXCEPT ACCIDENTALLY, SHOULD BE TREATED AS FOLLOWS:

- LESS THAN TWO INCHES - NO PROTECTION REQUIRED. WARNING SIGNS SHOULD BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA.
- TWO TO FOUR INCHES - PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MPH OR GREATER. CONES MAY BE USED IN PLACE OF PLASTIC DRUMS, PANELS AND BARRICADES DURING DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MPH AND FOR CURVES, DEVICES SHOULD BE PLACED EVERY 50 FEET. SPACING OF DEVICES ON TAPERED SECTIONS SHOULD BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
- GREATER THAN FOUR INCHES - POSITIVE SEPARATION OR WEDGE WITH 3:1 OR FLATTER SLOPE NEEDED. IF THERE IS FIVE FEET OR MORE DISTANCE BETWEEN THE EDGE OF THE PAVEMENT AND THE DROP-OFF, THEN DRUMS, PANEL, OR POSITIVE SEPARATION IS STRONGLY ENCOURAGED. IF CONCRETE BARRIERS ARE USED, SPECIAL REFLECTIVE DEVICES OR STEADY BURN LIGHTS SHOULD BE USED FOR OVERNIGHT INSTALLATIONS. BARRICADES MAY BE USED IF THE DROP-OFF IS GREATER THAN 12 INCHES.

FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN FOUR INCHES MAY BE PROTECTED WITH PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.

PAYMENT WILL BE ALLOWED FOR DGA, CSB AND OTHER SUITABLE MATERIALS USED FOR WEDGING.

14. PAYMENT FOR SPEED LIMIT SIGNS (INCLUDING MOUNTING HARDWARE AND POSTS) FOR ADVISEMENT OF REDUCED SPEEDS THROUGH THE WORK ZONE SHALL BE ERECTED WHILE THE CONTRACTOR IS WORKING AND BE INCLUDED IN THE LUMP SUM BID TO "MAINTAIN AND CONTROL TRAFFIC."

15. THE CONTRACTOR SHALL PROVIDE PORTABLE FLASHING ARROW PANEL AT THE LOCATIONS INDICATED ON THE STANDARD DRAWING "LANE CLOSURE TWO-LANE

HIGHWAY” AND SHALL MEET THE REQUIREMENTS SPECIFIED IN THE CURRENT STANDARD DRAWINGS. THE PORTABLE FLASHING ARROWS SHALL BE MOUNTED ON TRAFFIC-WORTHY CARRIAGES THAT MEET ALL APPLICABLE SAFETY STANDARDS.

16. THE CONTRACTOR SHALL HAVE AVAILABLE ONE RESERVE FLASHING ARROW TO BE PLACED IN OPERATION IN THE EVENT OF DAMAGE OR MECHANIC ELECTRICAL FAILURE. NO DIRECT PAYMENT WILL BE ALLOWED FOR THE RESERVE UNIT. ALL FLASHING ARROWS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AT THE COMPLETION OF THE PROJECT.

17. THE CONTRACTOR SHALL PROVIDE TWO WEEKS NOTIFICATION PRIOR TO ANY BRIDGE REHABILITATION WORK OR LANE CLOSURE. MESSAGE BOARDS SHALL BE PLACED AT CAMPTON MOUNTAIN PARKWAY INTERCHANGE AND HAZARD HAL-ROGER INTERCHANGE TO NOTIFY OVER-DIMENSION VEHICLES OF NARROW LANE AHEAD.

18. IF THE CONTRACTOR DESIRES TO DEVIATE FROM THE TRAFFIC CONTROL SCHEME AND CONSTRUCTION SCHEDULE AS OUTLINED IN THE PROJECT MAINTAIN OF TRAFFIC PLAN, HE SHE SHALL PREPARE AN ALTERNATE PLAN AND PRESENT IT IN WRITING TO THE ENGINEER. THIS ALTERNATE PLAN CAN BE USED ONLY AFTER REVIEWED AND APPROVED BY THE DIVISION OF TRAFFIC, DESIGN AND CONSTRUCTION AND THE FEDERAL HIGHWAY ADMINISTRATION, AND OTHER AGENCIES WHERE APPLICABLE.

EROSION CONTROL NOTES

1. ALL SILT CONTROL DEVICES SHALL BE SIZED TO RETAIN A VOLUME OF 3,600 CUBIC FEET PER DISTURBED CONTRIBUTING ACRE.
2. THE CONTRACTOR SHALL CONDUCT HIS OPERATION TO MINIMIZE THE AMOUNT OF DISTURBED GROUND DURING EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL COMPUTE THE VOLUME NECESSARY TO CONTROL SEDIMENT DURING EACH PHASE OF CONSTRUCTION. AS WORK PROCEEDS, SILT TRAPS/FENCES MAY BE ADDED OR REMOVED IN ORDER TO ACHIEVE THE BEST MANAGEMENT PLAN.
3. THE REQUIRED VOLUME AT EACH SILT TRAP SHALL BE COMPUTED AS UP GRADIENT CONTRIBUTING AREAS ARE DISTURBED OR ARE STABILIZED TO THE SATISFACTION OF THE ENGINEER. THE REQUIRED VOLUME CALCULATION FOR EACH SILT TRAP SHALL BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER. THE REQUIRED VOLUME AT EACH SILT TRAP MAY BE REDUCED BY THE FOLLOWING AMOUNTS:
 - UP GRADIENT AREAS NOT DISTURBED (ACRES).
 - UP GRADIENT AREAS THAT HAVE BEEN RECLAIMED AND PROTECTED BY EROSION CONTROL BLANKET OR OTHER GROUND PROTECTION MATERIAL SUCH AS TEMPORARY MULCH (ACRES).
 - UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT FENCE (ACRES). AREAS PROTECTED BY SILT FENCE SHALL BE COMPUTED AT A MAXIMUM RATE OF 100 SQUARE FOOT PER LINEAR FOOT OF SILT FENCE.
 - UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT TRAPS (ACRES).
 - THE USE OF TEMPORARY MULCH IS ENCOURAGED.
4. SILT TRAP TYPE B SHALL ALWAYS BE PLACED AT THE COLLECTION POINT PRIOR TO DISCHARGING INTO A BLUE LINE STREAM OR ONTO AN ADJACENT PROPERTY OWNER. WHERE OVERLAND FLOWS EXIST, A SILT FENCE OR OTHER FILTER DEVICES MAY BE USED. EROSION CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONING PRIOR TO ANY EXCAVATION OR DISTURBANCE WITHIN A DRAINAGE AREA.
5. THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT (REMOVE SEDIMENT FROM) SILT TRAPS AND SILT FENCES WHENEVER BECOME ONE
 - HALF FULL AND PROPERLY DISPOSE OF MATERIAL AT SITES APPROVED BY THE RESIDENT ENGINEER.

SPECIAL NOTE FOR EROSION CONTROL

I. DESCRIPTION

P I S S , S P S N , S S
S D , , E . S
S S . T :

(1) D B M P P (BMP)
(2) P
, , , ,
/
BMP
(3) C
(4) R
(5) R
(6) P
() P K E P S C P
(KEPSC) () P
/
E . BMP,

II. MATERIALS

F S S , S S I
S S D , S P S N , S
D S . P M . U E ,
.

III. CONSTRUCTION

B , E C P N BMP BMP . J
E ,
S 213. P BMP
,
, . B ,
,
BMP . R , C W A (33 USC
S 1251), 404 P , 401 W Q C ,

E C
P 2 4

105.05, , , , , S C S
S S , S S N , S S D , I
 ,

C
P . S /
 . U , ,
 , , BMP , E . P
 ,

P . C
 . R
 . M /
 , , ,
E . P C D (S S
N W B).

A , BMP
C . U . E
BMP BMP
BMP
A , S 212.
C

. P , E
 . G (E R -W)
 , E . P
S 212.03.03. ()

E C
P 3 4

IV. MEASUREMENT

Erosion Control Blanket. I BMP, D E
C B S 212.04.0 .

Sodding. I BMP, D S
S 212.04.0 .

Channel Lining. I BMP, D C L
S 03.04.04- 03.04.0 .

Erosion Control. C S 212.04, 213.04, 03.04 E
C B , S , C L , D E
C . T D , ,
BMP KEPSC ,
, R , E , B , E I P , T
F P , S S T T F , T
P S P , S S C V , T
M S B C S B , S T T A C
S T T A S T T B C S T T B S T T C
C S T T C T S F C T S F
P , V , S , T G D S D S F R
S B T D T D G F ,
BMP E ,
E C .

V. Basis of Payment

Erosion Control Blanket. I BMP,
D E C B E W S
104.03 10 .04.

Sodding. I , BMP, D
S E W S 104.03 10 .04.

Channel Lining. I BMP, D
C L E W S 104.03 10 .04.

E C
P 4 4

Erosion Control. C S 212.05 213.05, E C
B , S , C L , C , E
C , , ,
 , S 212 213, S S P
S N , S S D ,
 , , BMP KEPSC
 , , R , E , , B , E ,
E I P , T F P , S T ,
T F , T P S P , S S
C V , T M S B C S B ,
S T T A C S T T A S T T B C S T
T B S T T C C S T T C T S F
C T S F P , V , S , T G D S
D R S B T D T
D G F
BMP E .

**Special Note for Fixed Completion Date and
Liquidated Damages
Kentucky 15
Breathitt County
Perry County
Item No. 10-20018.00**

Contrary to Section 108.09, Liquidated Damages of \$5,000 per calendar day will be assessed for each day work remains uncompleted beyond the Specified Completion Date. This project has an Ultimate Fixed Completion Date of October 1, 2020.

Base failure repairs in Breathitt County are to be completed by April 30, 2020.

In addition to the Liquidated Damages specified in Section 108.09, Liquidated Damages will be charged a rate of \$2000 per calendar day for each day work remains uncompleted beyond the Specified Completion Date.

List below are Holidays and Special Events when construction work, road closures, and lane closures are not allowed in Perry County:

2020 Perry Black Gold Festival & 2020 - Perry County County Fair;

Contrary to Section 108.09 of the Standard Specifications, **the disincentive fee will be charged during those periods when seasonal limitations of the Contract prohibit the Contractor from working on a controlling item or operation. This includes the months from December through March.**

All liquidated damages will be applied cumulatively.

All other applicable portions of Section 108 apply.

Special Provision for Waste and Borrow Sites

The contractor is advised that it is their responsibility to gain U.S. Army Corp of Engineer's approval before utilizing a waste or borrow site that involves "Waters of the United States". "Waters of the United States" are defined as perennial or intermittent streams, ponds or wetlands. Ephemeral streams are also considered jurisdictional waters, and are typically dry except during rainfall, but have a defined drainage channel. Questions concerning any potential impacts to "Waters..." should be brought to the attention of the appropriate District Office for the Corps of Engineers for a determination, prior to disturbance. Any fees associated with obtaining approval from the U.S. Army Corp of Engineer or other appropriate regulatory agencies for waste and borrow sites is the responsibility of the contractor.

01/01/2009

COORDINATION OF WORK

The Contractor is advised that other projects may be in progress within or in the near vicinity of this project. The traffic control of those projects may affect this project and the traffic control of this project may affect those projects. The contractor will coordinate the work on this project with the work of the other contractor(s). In case of conflict, the engineer will determine the relative priority to give to work phasing on the various projects.

The Contractor shall coordinate with the adjacent Contractor(s) for the KYTC #10-269.10 prior to items of work listed under Phase II construction at Site 3 in Perry County.

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SPECIAL NOTE FOR LONGITUDINAL PAVEMENT JOINT ADHESIVE

1. **DESCRIPTION.** This specification covers the requirements and practices for applying an asphalt adhesive material to the longitudinal joint of the surface course of an asphalt pavement. Apply the adhesive to the face of longitudinal joint between driving lanes for the first lane paved. Then, place and compact the adjacent lane against the treated face to produce a strong, durable, waterproof longitudinal joint.
2. **MATERIALS, EQUIPMENT, AND PERSONNEL.**

2.1 **Joint Adhesive.** Provide material conforming to Subsection 2.1.1.

2.1.1 Provide an adhesive conforming to the following requirements:

Property	Specification	Test Procedure
Viscosity, 400 ° F (Pa·s)	4.0 – 10.0	ASTM D 4402
Cone Penetration, 77 ° F	60 – 100	ASTM D 5329
Flow, 140 ° F (mm)	5.0 max.	ASTM D 5329
Resilience, 77 ° F (%)	30 min.	ASTM D 5329
Ductility, 77 ° F (cm)	30.0 min.	ASTM D 113
Ductility, 39 ° F (cm)	30.0 min.	ASTM D 113
Tensile Adhesion, 77 ° F (%)	500 min.	ASTM D 5329, Type II
Softening Point, ° F	171 min.	AASHTO T 53
Asphalt Compatibility	Pass	ASTM D 5329

Ensure the temperature of the pavement joint adhesive is between 380 and 410 °F when the material is extruded in a 0.125-inch-thick band over the entire face of the longitudinal joint.

2.2. **Equipment.**

2.2.1 **Melter Kettle.** Provide an oil-jacketed, double-boiler, melter kettle equipped with any needed agitation and recirculating systems.

2.2.2 **Applicator System.** Provide a pressure-feed-wand applicator system with an applicator shoe attached.

2.3 **Personnel.** Ensure a technical representative from the manufacturer of the pavement joint adhesive is present during the initial construction activities and available upon the request of the Engineer.

3. **CONSTRUCTION.**

3.1 **Surface Preparation.** Prior to the application of the pavement joint adhesive, ensure the face of the longitudinal joint is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the joint face by the use of compressed air.

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Ensure this preparation process occurs shortly before application to prevent the return of debris on the joint face.

3.2 Pavement Joint Adhesive Application. Ensure the ambient temperature is a minimum of 40 ° F during the application of the pavement joint adhesive. Prior to applying the adhesive, demonstrate competence in applying the adhesive according to this note to the satisfaction of the Engineer. Heat the adhesive in the melter kettle to the specified temperature range. Pump the adhesive from the melter kettle through the wand onto the vertical face of the cold joint. Apply the adhesive in a continuous band over the entire face of the longitudinal joint. Do not use excessive material in either thickness or location. Ensure the edge of the extruded adhesive material is flush with the surface of the pavement. Then, place and compact the adjacent lane against the joint face. Remove any excessive material extruded from the joint after compaction (a small line of material may remain).

3.3 Pavement Joint Adhesive Certification. Furnish the joint adhesive's certification to the Engineer stating the material conforms to all requirements herein prior to use.

3.4 Sampling and Testing. The Department will require a random sample of pavement joint adhesive from each manufacturer's lot of material. Extrude two 5 lb. samples of the heated material and forward the sample to the Division of Materials for testing. Reynolds oven bags, turkey size, placed inside small cardboard boxes or cement cylinder molds have been found suitable. Ensure the product temperature is 400°F or below at the time of sampling.

4. MEASUREMENT. The Department will measure the quantity of Pavement Joint Adhesive in linear feet. The Department will not measure for payment any extra materials, labor, methods, equipment, or construction techniques used to satisfy the requirements of this note. The Department will not measure for payment any trial applications of Pavement Joint Adhesive, the cleaning of the joint face, or furnishing and placing the adhesive. The Department will consider all such items incidental to the Pavement Joint Adhesive.
5. PAYMENT. The Department will pay for the Pavement Joint Adhesive at the Contract unit bid price and apply an adjustment for each manufacturer's lot of material based on the degree of compliance as defined in the following schedule. When a sample fails on two or more tests, the Department may add the deductions, but the total deduction will not exceed 100 percent.

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Pavement Joint Adhesive Price Adjustment Schedule						
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay
Joint Adhesive Referenced in Subsection 2.1.1						
Viscosity, 400 ° F (Pa•s)			3.0-3.4	2.5-2.9	2.0-2.4	≤1.9
ASTM D 3236	4.0-10.0	3.5-10.5	10.6-11.0	11.1-11.5	11.6-12.0	≥ 12.1
Cone Penetration, 77 ° F			54-56	51-53	48-50	≤ 47
ASTM D 5329	60-100	57-103	104-106	107-109	110-112	≥ 113
Flow, 140 ° F (mm) ASTM D 5329	≤ 5.0	≤ 5.5	5.6-6.0	6.1-6.5	6.6-7.0	≥ 7.1
Resilience, 77 ° F (%) ASTM D 5329	≥ 30	≥ 28	26-27	24-25	22-23	≤ 21
Tensile Adhesion, 77 ° F (%) ASTM D 5329	≥ 500	≥ 490	480-489	470-479	460-469	≤ 459
Softening Point, ° F AASHTO T 53	≥ 171	≥ 169	166-168	163-165	160-162	≤ 159
Ductility, 77 ° F (cm) ASTM D 113	≥ 30.0	≥ 29.0	28.0-28.9	27.0-27.9	26.0-26.9	≤ 25.9
Ductility, 39 ° F (cm) ASTM D 113	≥ 30.0	≥ 29.0	28.0-28.9	27.0-27.9	26.0-26.9	≤ 25.9

Code
20071EC

Pay Item
Joint Adhesive

Pay Unit
Linear Foot

May 7, 2014

447 Compaction of Asphalt Mixtures

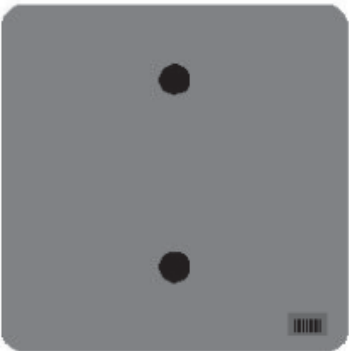
Will accept the Compaction of Asphalt Mixtures furnished for driving lanes and ramps at one inch (25 MM) or greater on this project by Option A according to Subsections 402 and 403 of the current Standard Specifications. Use joint cores as described in Subsection 402.03.02 for surface mixtures only.

Will accept the compaction of all other Asphalt Mixtures by Option B.

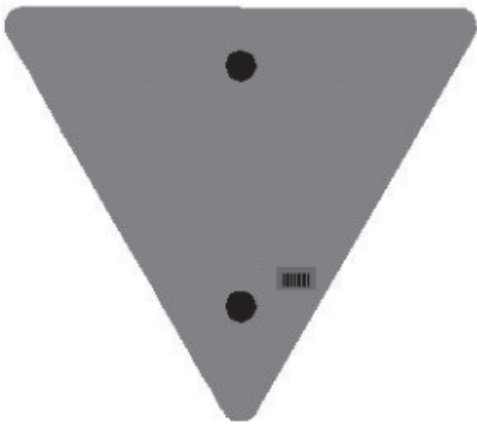
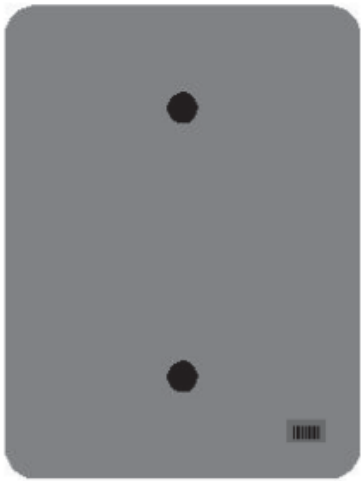
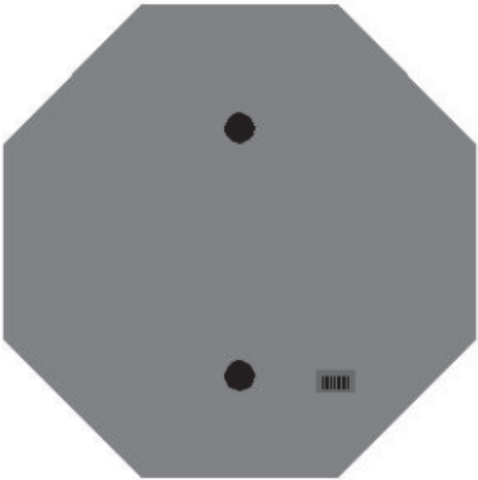
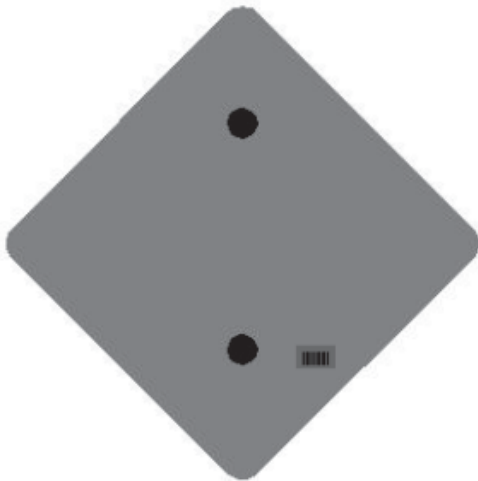
One Sign Post



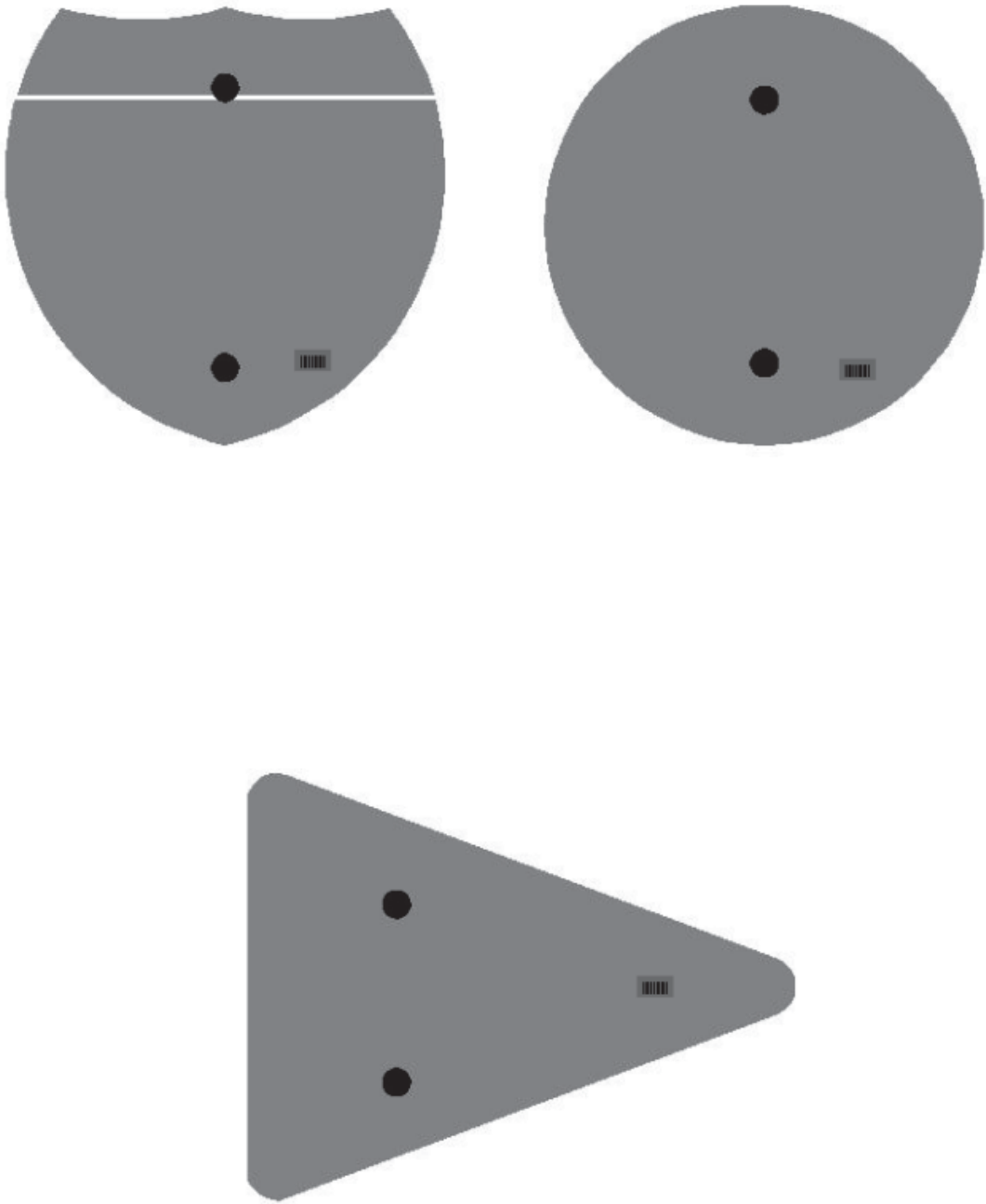
↑
2" Wide Post



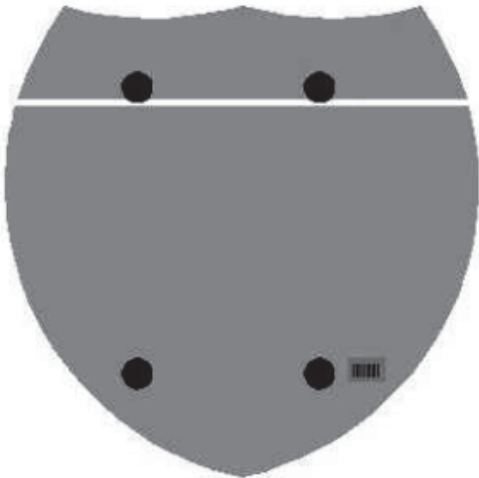
One Sign Post



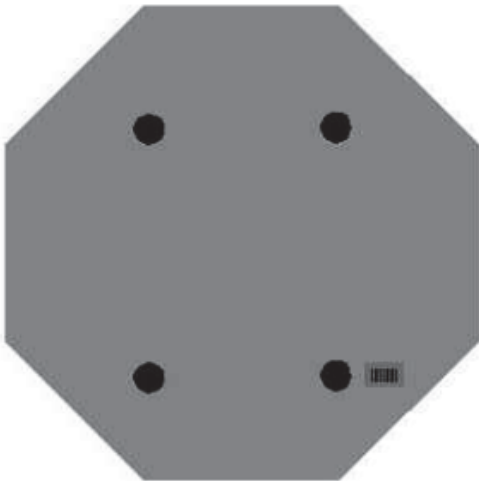
One Sign Post



Double Sign Post

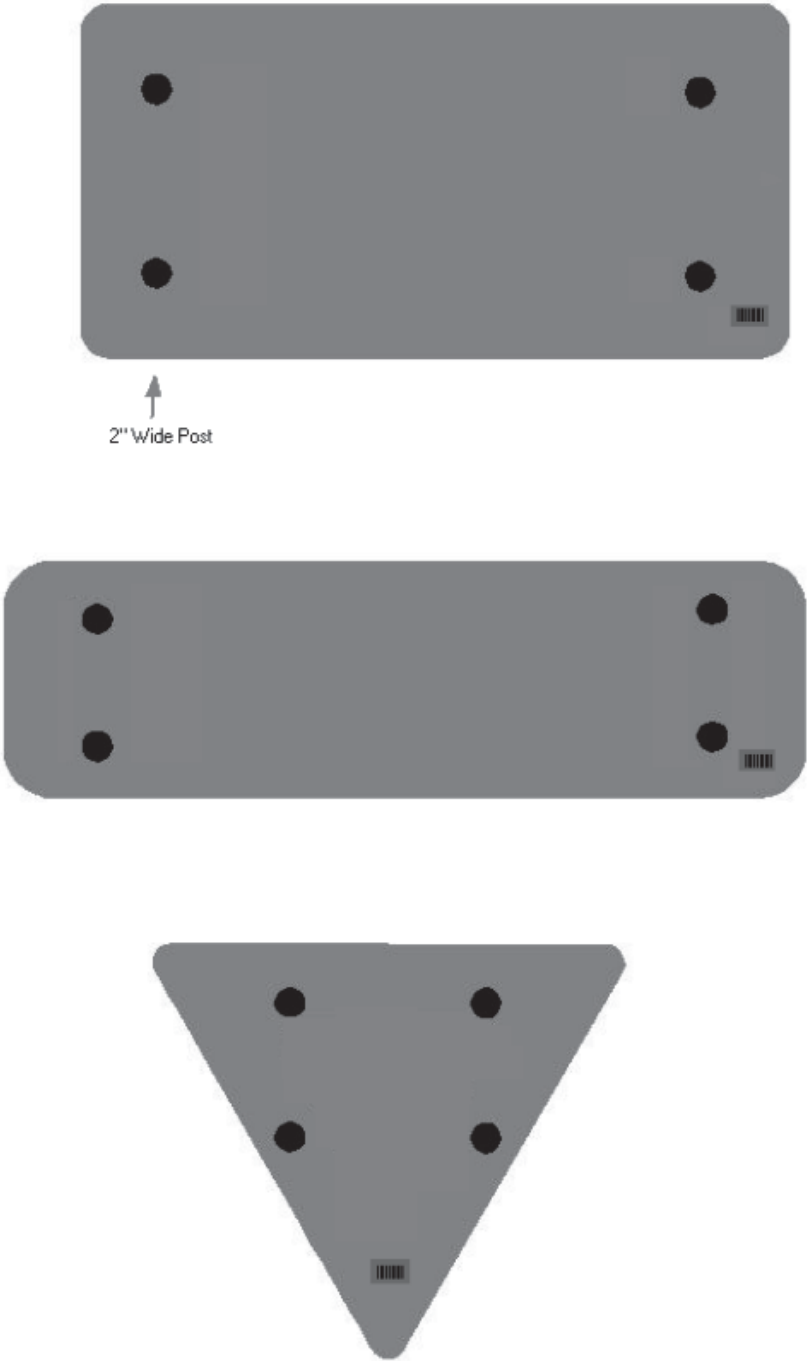


Interstate
Shield



48" Stop

2 Post Signs



October, 2018

SPECIAL NOTE FOR FOG SEAL

Except as provided herein, conform to all requirements of the current Standard Specifications for Road and Bridge Construction. Section references are to the Standard Specifications. For chip seal applications, use an approved fog seal material applied in two passes in opposite directions at a rate of 0.05 – 0.08 gallons per square yard with a total rate of 0.10-0.16 gallons per square yard. The emulsion used for fog sealing chip application shall be diluted between 28-32%.

For all other applications, use undiluted approved fog seal material at a rate of 0.12-0.16 gallons per square yard. The recommended emulsions are to be in accordance with AASHTO M208 or M140.

Before applying the fog seal, sweep the chip seal or roadway to remove any loose aggregate, mud, dirt, dust, and other caked material or loose foreign material that may have accumulate on the roadway. Uniformly apply the asphalt emulsion with an asphalt distributor or approved equipment in accordance with Section 406.03.03b except apply at the rates specified herein. Contrary to section 406 of the Standard Specification, material shall maintain a temperature range of 120° to 180° F during application. The fog seal shall be applied when air temperature is at least 50 degrees F and rising and a minimum surface temperature of 70 degrees F.

Any water added to the emulsion must meet the requirements of Section 803 of the Standard Specifications. If placed over a chip/scrub seal treatment, the application shall be a minimum of 5 to a maximum of 10 calendar days after the treatment application.

Adjust operations as necessary and as directed by the engineer to achieve complete, uniform coverage of the application. Correct areas of incomplete coverage by hand spraying or by a second application of material as approved by the engineer. Any fog seal material applied in excess of the requirements shall be covered or removed with a blotter course dry sand as directed by the Engineer.

Payment will be based on the accepted, weighed tons of diluted emulsion applied as specified. Payment per ton of “Asphalt Emulsion for Fog Seal” will be full compensation for all labor, materials, and equipment necessary to prepare the surface for treatment, application of the emulsion, corrective work, and protection of the emulsion until cured. Dry sand used as a blotter course due to excessive use of fog seal will not be considered for payment. Liquid asphalt and fuel adjustments will not be considered for payment for all fog seal applications.

Application Rates of Material.

Properties	Minumum	Maximum
Application rate of emulsion for chip seal Fog seal application required in both directions	0.05	0.08
Application rate of emulsion for non chip seal	0.12	0.16
Emulsion temperature, F	120	180

Special Note for Bridge Demolition, Renovation and Asbestos Abatement

If the project includes any bridge demolition or renovation, the successful bidder is required to notify Kentucky Division for Air Quality (KDAQ) via filing of form (DEP 7036) a minimum of 10 days prior to commencement of any bridge demolition or renovation work.

Any available information regarding possible asbestos containing materials (ACM) on or within bridges to be affected by the project has been included in the bid documents. These are to be included with the Contractor's notification filed with the KDAQ. If not included in the bid documents, the Department will provide that information to the successful bidder for inclusion in the KDAQ notice as soon as possible. If there are no documents stating otherwise, the bidders should assume there are no asbestos containing materials that will in any way affect the work.



Matthew G. Bevin
Governor

**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

Asbestos Inspection Report

To: Brandon Baker

District: 10

Date: September 18, 2019

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Breathitt 10-20018

Structure ID: 013B00030N

Structure Location: KY-15 over Quicksand Creek MM #14

Sample Description: Any suspect materials collected were negative for asbestos.

Inspection Date: September 3, 2019

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.



MRS, Inc. Analytical Laboratory Division

(502) 495-1212
Fax: (502) 491-7111

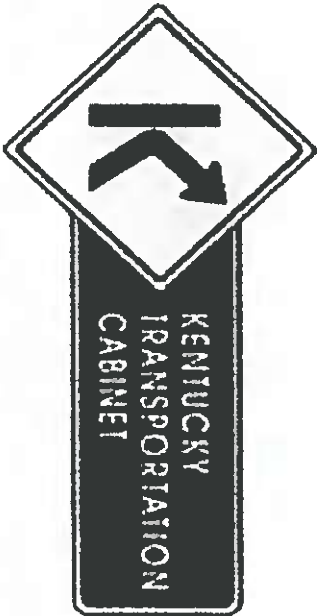
Analysis N #	# 909142 A	Address:	Breathitt 10-2018 013B00030N
Client Name:	K Y T C		
Sampled By:	O'Dail Lawson		

[illegible]

Date Analyzed : 14-Sep-19
Analyst : Winterford Mensah

Reviewed By: Hindogars Murali
Signature

AJHA #1 02459



Chain of Custody Record

Kentucky Transportation Cabinet
200 Metro Street, 5th Floor West
Frankfort, Kentucky 40622
(502) 564-7250 fax (502) 564-5655

O'Dail Lawson odail.lawson@ky.gov KYTC		Client Information KY TRANS CABINET Results Code: ND = None Detected FTD = Filter Tampering or Damaged N/A = Not Applicable		44-15 over Quiliana Creek mm 14	
Address: 200 Metro Street Frankfort KY Phone: 502-564-7250 Fax: 502-564-5655 PO#:		Project or Subject Reference: Breathitt 10-20018 0138000 30N			
Sample ID: 30-1 Sample Description: Joins Compans		Collected Date: 9/3/19 Time: 12:00	Analysis Requested: Asbestos bulk		
30-2 Concrete Scaffolding		Date: 9/3/19 Time: 12:00	Grab/Comp.: black No. of Cont.: 1 Cont. Type: N/A Preservative:		
30-3 Quinn Rail Mast		Date: 9/3/19 Time: 12:00	Grab/Comp.: black No. of Cont.: 1 Cont. Type: N/A Preservative:		
Relinquished By: [Signature] Date/Time:		Relinquished By: [Signature] Date/Time:			
Received By: [Signature] Date/Time: 9/10/19		Received By: [Signature] Date/Time:			
Relinquished By: [Signature] Date/Time:		Relinquished By: [Signature] Date/Time:			
Received at Lab By:		Received at Lab By:			

ENVIRONMENTAL TRAINING CONCEPTS, INC

P.O. Box 99603 Louisville, KY 40269
(502)640-2951

Certification Number: ETC-AIR-041619-00415

O'Dail Lawson

has on 04-16-2019, attended and successfully completed the requirements and passed the examination with a score of 70% of better on the entitled course.


ASBESTOS INSPECTOR REFRESHER

Training was in accordance with 40 CFR Part 763 (AHERA) approved by the Commonwealth of Kentucky, the Indiana Department of Environmental Management and Tennessee Department of Environment & Conservation The above student received requisite training for Asbestos Accreditation under Title II of the Toxic Substance Act (TSCA).

Conducted at: 1520 Alliant Ave., Louisville, KY


Name -- Training Manager

Expiration Date: 04-16-2020


Name - Instructor



Matthew G. Bevin
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

Asbestos Inspection Report

To: Brandon Baker

District: 10

Date: September 18, 2019

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Breathitt 10-20018

Structure ID: 013B00031N

Structure Location: KY-15 over Troublesome Creek MM #7

Sample Description: Any suspect materials collected were negative for asbestos.

Inspection Date: September 3, 2019

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.



MRS, Inc. Analytical Laboratory Division

(502) 495-1212
Fax: (502) 491-7111

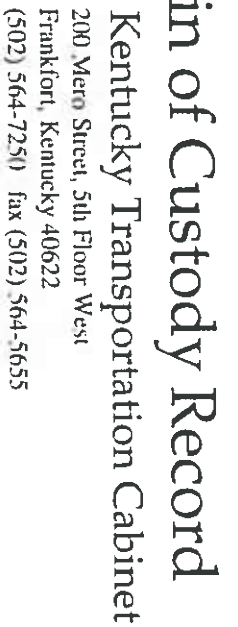
Analysis N #	# 909142 B	Address:	Breathitt 10-2018 013B00031N
Client Name:	K Y T C		
Sampled By:	O'Dail Lawson		

[illegible]

Reviewed By:

Kintaro Muraoka
Signature

AJHA #1 02459



Chain of Custody Record

Kentucky Transportation Cabinet

2000 Mero Street, 5th Floor West

Frankfort, Kentucky 40622

(502) 564-7251 fax (502) 564-5655

KYTC COC

ENVIRONMENTAL TRAINING CONCEPTS, INC

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(502)640-2951

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Conducted at: 1520 Alliant Ave., Louisville, KY

Expiration Date: 04-16-2020


Name - Training Manager


Name - Instructor



Matthew G. Bevin
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

Asbestos Inspection Report

To: Brandon Baker

District: 10

Date: September 18, 2019

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Breathitt 10-20018

Structure ID: 013B00032N

Structure Location: KY-15 over Lost Creek MM #6

Sample Description: Any suspect materials collected were negative for asbestos.

Inspection Date: September 3, 2019

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.



MRS, Inc. Analytical Laboratory Division

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Fax: (502) 491-7111

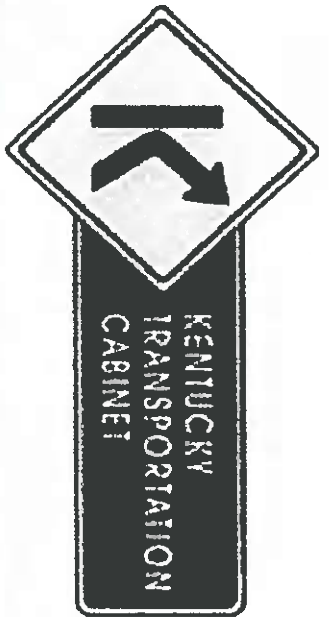
Analysis N #	# 909142 C	Address:	Breathitt 10-2018 013B00032N
Client Name:	K Y T C		
Sampled By:	O'Dail Lawson		

[illegible]

Reviewed By:

Victor M. Mena
Signature

AJHA #1 02459



Chain of Custody Record

Kentucky Transportation Cabinet

200 Mero Street, 5th Floor West
Frankfort, Kentucky 40622

(502) 564-7250 fax (502) 564-5655

[illegible]

ENVIRONMENTAL TRAINING CONCEPTS, INC

P.O. Box 99603 Louisville, KY 40269
(502)640-2951

Certification Number: ETC-AIR-041619-00415

O'Dail Lawson

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Conducted at: 1520 Alliant Ave., Louisville, KY


Name - Training Manager

Expiration Date: 04-16-2020


Name - Instructor



Matthew G. Bevin
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

Asbestos Inspection Report

To: Brandon Baker

District: 10

Date: September 18, 2019

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Breathitt 10-20018

Structure ID: 013B00033N

Structure Location: KY-15 over Lost Creek MM #6 (South)

Sample Description: Any suspect materials collected were negative for asbestos.

Inspection Date: September 3, 2019

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.



MRS, Inc. Analytical Laboratory Division

(502) 495-1212
Fax: (502) 491-7111

Analysis N#	# 909142 D	Address:	Breathitt 10-2018 013B00033N
Client Name:	K Y T C		
Sampled By:	O'Dail Lawson		

[illegible]

Reviewed By: *Wintor Mendez*
Signature

AJHA #1 02459



Chain of Custody Record

Kentucky Transportation Cabinet

200 Mero Street, 5th Floor, West

Frankfort, Kentucky 40622

(502) 564-7250 fax (502) 564-5655

[illegible]

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(502)640-2951

Certification Number: ETC-AIR-041619-00415

O'Dail Lawson

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Conducted at: 1520 Alliant Ave., Louisville, KY


Name - Training Manager

Expiration Date: 04-16-2020


Name - Instructor



Matthew G. Bevin
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

Asbestos Inspection Report

To: Brandon Baker

District: 10

Date: September 18, 2019

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Breathitt 10-20018

Structure ID: 013B00034N

Structure Location: KY-15 over Lost Creek MM #3

Sample Description: Any suspect materials collected were negative for asbestos.

Inspection Date: September 3, 2019

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.





Chain of Custody Record

Kentucky Transportation Cabinet

Kentucky Transportation Cabinet
200 Metro Street, 5th Floor West
Frankfort, Kentucky 40622
(502) 564-7250 fax (502) 564-5655

[illegible]

MRS, Inc. Analytical Laboratory Division

Fax: (502) 491-7111

Analysis N#	# 909142 E	Address:	Breathitt 10-2018 013B00034N
Client Name:	K Y T C		
Sampled By:	O'Dail Lawson		

[illegible]

Date Analyzed : 14-Sep-19
Analyst : Winterford Mensah

Reviewed By:

Kintopras Mena
Signature

AIHA # 102459

AJHA #1 02459

ENVIRONMENTAL TRAINING CONCEPTS, INC

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(502)640-2951

Certification Number: ETC-AIR-041619-00415

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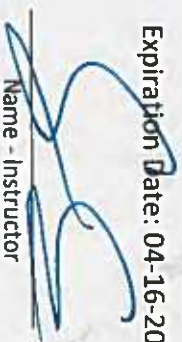
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Conducted at: 1520 Alliant Ave., Louisville, KY

Expiration Date: 04-16-2020


Name - Training Manager


Name - Instructor



Matthew G. Bevin
Governor

**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

Asbestos Inspection Report

To: Brandon Baker

District: 10

Date: September 18, 2019

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Breathitt 10-20018

Structure ID: 013B00035N

Structure Location: KY-15 over Lost Creek MM #3 (South)

Sample Description: Any suspect materials collected were negative for asbestos.

Inspection Date: September 3, 2019

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.



MRS, Inc. Analytical Laboratory Division

(502) 495-1212

Fax: (502) 491-7111

Analysis N #	# 909142 F	Address:	Breathitt 10-2018 013B00035N
Client Name:	K Y T C		
Sampled By:	O'Dail Lawson		

[illegible]

Reviewed By:

Wintgers Mena
Signature

AJHA #1 02459



Chain of Custody Record

Kentucky Transportation Cabinet

200 Mero Street, 5th Floor West

Frankfort, Kentucky 40622

(502) 564-7250 fax (502) 564-5655

[illegible]

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Conducted at: 1520 Alliant Ave., Louisville, KY

Expiration Date: 04-16-2020


Name - Training Manager


Name - Instructor



Matthew G. Bevin
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

Asbestos Inspection Report

To: Brandon Baker

District: 10

Date: September 18, 2019

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Breathitt 10-20018

Structure ID: 013B00037N

Structure Location: KY-15 over Lost Creek MM #0

Sample Description: Any suspect materials collected were negative for asbestos.

Inspection Date: September 3, 2019

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.





(502) 495-1212
Fax: (502) 491-7111

Analysis N #	# 909142 G	Address:	Breathitt 10-2018 013B00037N
Client Name:	K Y T C		
Sampled By:	O'Dail Lawson		

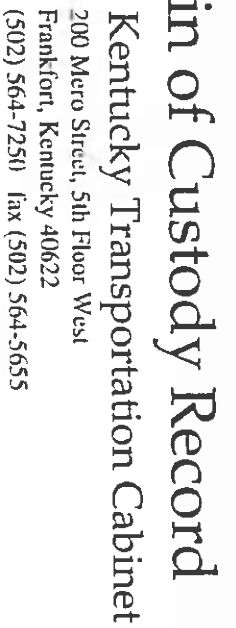
[illegible]

Date Analyzed : 14-Sep-19
Analyst : Winterford Mensah

Reviewed By: Kintaro Mera
Signature

The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government. Partial Reproduction of any part of this report is strictly prohibited. Samples shall be retained for (30) days.

AJHA #1 02459



Chain of Custody Record

Kentucky Transportation Cabinet

2000 Mero Street, 5th Floor West

Frankfort, Kentucky 40622

(502) 564-7250 fax (502) 564-5655

KYTC COC

ENVIRONMENTAL TRAINING CONCEPTS, INC

P.O. Box 99603 Louisville, KY 40269
(502)640-2951

Certification Number: ETC-AIR-041619-00415

O'Dail Lawson

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Conducted at: 1520 Alliant Ave., Louisville, KY

Expiration Date: 04-16-2020


Name - Training Manager


Name - Instructor

KENTUCKY TRANSPORTATION CABINET
Department of Highways
DIVISION OF RIGHT OF WAY & UTILITIESTC 62-226
Rev. 01/2016
Page 1 of 1

RIGHT OF WAY CERTIFICATION

<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #		COUNTY		PROJECT # (STATE)	PROJECT # (FEDERAL)
10-20018.00		Breathitt/Perry		1100 FD04 013 1070801D	
PROJECT DESCRIPTION					
PAVEMENT REHAB AND LOW COST SAFETY IMPROVEMENTS ALONG THE KY 15 CORRIDOR THROUGH PERRY COUNTY (MP 17.000 - 25.179) AND BREATHITT COUNTY (MP 0.00 - 15.900)					
<input checked="" type="checkbox"/>	No Additional Right of Way Required				
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.					
<input type="checkbox"/>	Condition # 1 (Additional Right of Way Required and Cleared)				
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.					
<input type="checkbox"/>	Condition # 2 (Additional Right of Way Required with Exception)				
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract					
<input type="checkbox"/>	Condition # 3 (Additional Right of Way Required with Exception)				
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.					
Total Number of Parcels on Project		EXCEPTION (S) Parcel #		ANTICIPATED DATE OF POSSESSION WITH EXPLANATION	
Number of Parcels That Have Been Acquired					
Signed Deed					
Condemnation					
Signed ROE					
Notes/ Comments (Use Additional Sheet if necessary)					
LPA RW Project Manager			Right of Way Supervisor		
Printed Name				Printed Name	
Signature				Edgar Raleigh II	
Date				September 10, 2019	
Right of Way Director			FHWA		
Printed Name				Printed Name	
Signature				Signature	
Date				Date	

UTILITIES AND RAIL CERTIFICATION NOTE

Perry County

No federal number available

No state project number available

Mile point: 17.000 TO 25.179

**PAVEMENT REHAB AND LOW COST SAFETY IMPROVEMENTS ALONG THE KY 15 CORRIDOR THROUGH
PERRY COUNTY (MP 17.000 - 25.179) AND BREATHITT COUNTY (MP 0.00 - 15.900).**

ITEM NUMBER: 10-20018.00

PROJECT NOTES ON UTILITIES

For all projects under 2000 Linear feet which require a normal excavation locate request pursuant to KRS 367.4901-4917, the awarded contractor shall field mark the proposed excavation or construction boundaries of the project (also called white lining) using the procedure set forth in KRS 367.4909(9)(k). For all projects over 2000 linear feet, which are defined as a "Large Project" in KRS 367.4903(18), the awarded contractor shall initially mark the first 2000 linear feet minimally of proposed excavation or construction boundaries of the project to be worked using the procedure set forth in KRS 367.4909(9)(k). This temporary field locating of the project excavation boundary shall take place prior to submitting an excavation location request to the underground utility protection Kentucky Contact Center. For large projects, the awarded contractor shall work with the impacted utilities to determine when additional white lining of the remainder of the project site will take place. This provision shall not alter or relieve the awarded contractor from complying with requirements of KRS 367.4905 to 367.4917 in their entirety.

Please Note: The information presented in this Utility Note is informational in nature and the information contained herein is not guaranteed.

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs. The utility facilities as noted in the previous section(s) have been determined using data garnered by varied means and with varying degrees of accuracy: from the facility owners, a result of S.U.E., field inspections, and/or reviews of record drawings. The facilities defined may not be inclusive of all utilities in the project scope and are not Level A quality, unless specified as such. It is the contractor's responsibility to verify all utilities and their respective locations before excavating.

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to

UTILITIES AND RAIL CERTIFICATION NOTE

Perry County
No federal number available
No state project number available
Mile point: 17.000 TO 25.179
PAVEMENT REHAB AND LOW COST SAFETY IMPROVEMENTS ALONG THE KY 15 CORRIDOR THROUGH
PERRY COUNTY (MP 17.000 - 25.179) AND BREATHITT COUNTY (MP 0.00 - 15.900).
ITEM NUMBER: 10-20018.00

367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. The contractor is instructed to contact KY 811 for the location of existing underground utilities. Contact shall be made a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY 811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom are to be contacted through their individual Protection Notification Center. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area. Non-compliance with these directives can result in the enforcement of penalties.

Utility coordination efforts determined that no significant utility relocation work is required to complete the project. Any work pertaining to these utility facilities is defined in the bid package and is to be carried out as instructed by the Kentucky Transportation Cabinet. The contractor will be responsible for any coordination or adjustments that are discussed or quantified in the proposal.

NOTE: DO NOT DISTURB THE FOLLOWING FACILITIES LOCATED WITHIN THE PROJECT DISTURB LIMITS

AT&T - KY - Communication

Breathitt County Water District - Water

City of Hazard - Water

Thacker-Grigsby Telephone Company, Inc. - Telephone

American Electric Power - Electric

Crystal Broadband Networks - CATV

UTILITIES AND RAIL CERTIFICATION NOTE

<p>Perry County</p> <p>No federal number available</p> <p>No state project number available</p> <p>Mile point: 17.000 TO 25.179</p> <p>PAVEMENT REHAB AND LOW COST SAFETY IMPROVEMENTS ALONG THE KY 15 CORRIDOR THROUGH PERRY COUNTY (MP 17.000 - 25.179) AND BREATHITT COUNTY (MP 0.00 - 15.900).</p> <p>ITEM NUMBER: 10-20018.00</p>
--

The Contractor is fully responsible for protection of all utilities listed above

**THE FOLLOWING FACILITY OWNERS ARE RELOCATING/ADJUSTING THEIR FACILITIES WITHIN THE
PROJECT LIMITS AND WILL BE COMPLETE PRIOR TO CONSTRUCTION**

Not Applicable

**THE FOLLOWING FACILITY OWNERS HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE OWNER OR
THEIR SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT**

Not Applicable

**THE FOLLOWING FACILITY OWNERS HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE ROAD
CONTRACTOR AS INCLUDED IN THIS CONTRACT**

Not Applicable

UTILITIES AND RAIL CERTIFICATION NOTE

Perry County

No federal number available

No state project number available

Mile point: 17.000 TO 25.179

PAVEMENT REHAB AND LOW COST SAFETY IMPROVEMENTS ALONG THE KY 15 CORRIDOR THROUGH
PERRY COUNTY (MP 17.000 - 25.179) AND BREATHITT COUNTY (MP 0.00 - 15.900).

ITEM NUMBER: 10-20018.00

RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

☒ No Rail Involvement ☐ Rail Involved ☐ Rail Adjacent

AREA FACILITY OWNER CONTACT LIST

Facility Owner	Address	Contact Name	Phone	Email
American Electric Power - Electric	12333 Kevin Avenue Ashland KY 41102	Ellis McKnight	6064361329	ermcknight@aep.com
AT&T - KY - Communication	29 Willis Branch Prestonsburg KY 41653	Jack Salyer	6064249328	js2299@att.com
Breathitt County Water District - Water	1137 Main Street, Suite 305 Jackson KY 41339	Estill McIntosh	6065685188	breathittwater@yahoo.com
City of Hazard - Water	700 Main Street Hazard Ky 41702	Carlos Combs	6064363171	linda.stele@cityofhazard.com
Crystal Broadband Networks - CATV	PO Box 180336 Chicago IL 60618	Jonathan Kurien	6066633439	jonathank@crystalbn.com
TVS - CATV	PO Box 789 Hindman KY 41822	Freddy Williams	6067859500	f.williams@tgtel.com

UTILITIES AND RAIL CERTIFICATION NOTE

Perry County
No federal number available
No state project number available
Mile point: 17.000 TO 25.179
PAVEMENT REHAB AND LOW COST SAFETY IMPROVEMENTS ALONG THE KY 15 CORRIDOR THROUGH
PERRY COUNTY (MP 17.000 - 25.179) AND BREATHITT COUNTY (MP 0.00 - 15.900).
ITEM NUMBER: 10-20018.00

MATERIAL SUMMARY

CONTRACT ID: 191065

121GR19D065 - FD04

DE01300151965

#MULTIVALUE

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	9.00	TON
0010	00100	ASPHALT SEAL AGGREGATE	5.30	TON
0015	00103	ASPHALT SEAL COAT	.60	TON
0020	00194	LEVELING & WEDGING PG76-22	48.00	TON
0025	00216	CL3 ASPH BASE 1.00D PG76-22	484.00	TON
0030	00387	CL3 ASPH SURF 0.38B PG76-22	327.00	TON
0035	02677	ASPHALT PAVE MILLING & TEXTURING	654.00	TON
0040	00461	CULVERT PIPE-15 IN	8.00	LF
0045	00981	SLOTTED DRAIN PIPE-15 IN	32.00	LF
0050	01370	METAL END SECTION TY 1-15 IN	2.00	EACH
0055	01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	79.00	EACH
0060	02014	BARRICADE-TYPE III	2.00	EACH
0065	02200	ROADWAY EXCAVATION	165.50	CUYD
0070	21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)	8,675.00	LF
0075	02360	GUARDRAIL TERMINAL SECTION NO 1	14.00	EACH
0080	02367	GUARDRAIL END TREATMENT TYPE 1	2.00	EACH
0085	02372	REMOVE GUARDRAIL CON TO BR END	28.00	EACH
0090	02377	GUARDRAIL CONNECTOR TO BRIDGE END TY C	28.00	EACH
0095	02381	REMOVE GUARDRAIL	8,763.00	LF
0100	02383	REMOVE & RESET GUARDRAIL	163.00	LF
0105	02391	GUARDRAIL END TREATMENT TYPE 4A	1.00	EACH
0110	02562	TEMPORARY SIGNS	500.00	SQFT
0115	02565	OBJECT MARKER TYPE 2	28.00	EACH
0120	20191ED	OBJECT MARKER TY 3	3.00	EACH
0125	02650	MAINTAIN & CONTROL TRAFFIC - BREATHITT	1.00	LS
0130	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0135	02676	MOBILIZATION FOR MILL & TEXT - BREATHITT	1.00	LS
0140	02726	STAKING - BREATHITT	1.00	LS
0145	02775	ARROW PANEL	2.00	EACH
0150	05950	EROSION CONTROL BLANKET	200.00	SQYD
0155	06510	PAVE STRIPING-TEMP PAINT-4 IN	500.00	LF
0160	06514	PAVE STRIPING-PERM PAINT-4 IN	1,000.00	LF
0165	21415ND	EROSION CONTROL	1.00	LS
0170	06403	FLEXIBLE DELINEATOR POST-B/W	118.00	EACH
0175	06406	SBM ALUM SHEET SIGNS .080 IN	720.00	SQFT
0180	06407	SBM ALUM SHEET SIGNS .125 IN	1,240.00	SQFT
0185	06410	STEEL POST TYPE 1	3,260.00	LF
0190	06412	STEEL POST MILE MARKERS	16.00	EACH
0195	24631EC	BARCODE SIGN INVENTORY	339.00	EACH
0200	02568	MOBILIZATION	1.00	LS
0205	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 191065

121GR19D065 - FD04

DE09700151965

#MULTIVALUE

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0210	00001	DGA BASE	3,357.00	TON
0215	00078	CRUSHED AGGREGATE SIZE NO 2	200.00	TON
0220	00100	ASPHALT SEAL AGGREGATE	38.20	TON
0225	00103	ASPHALT SEAL COAT	4.60	TON
0230	00194	LEVELING & WEDGING PG76-22	1,445.00	TON
0235	00214	CL3 ASPH BASE 1.00D PG64-22	5,741.00	TON
0240	00216	CL3 ASPH BASE 1.00D PG76-22	3,829.00	TON
0245	00356	ASPHALT MATERIAL FOR TACK	84.70	TON
0250	00387	CL3 ASPH SURF 0.38B PG76-22	16,139.00	TON
0255	02677	ASPHALT PAVE MILLING & TEXTURING	24,914.00	TON
0260	24878EC	ASPHALT EMULSION FOR FOG SEAL	50.00	TON
0265	00462	CULVERT PIPE-18 IN	8.00	LF
0270	00982	SLOTTED DRAIN PIPE-18 IN	20.00	LF
0275	01450	S & F BOX INLET-OUTLET-18 IN	2.00	EACH
0280	01691	FLUME INLET TYPE 2	3.00	EACH
0285	01897	ASPHALT WEDGE CURB	1,000.00	LF
0290	01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	475.00	EACH
0295	02014	BARRICADE-TYPE III	4.00	EACH
0300	02200	ROADWAY EXCAVATION	229.50	CUYD
0305	21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)	3,925.00	LF
0310	02360	GUARDRAIL TERMINAL SECTION NO 1	7.00	EACH
0315	02367	GUARDRAIL END TREATMENT TYPE 1	1.00	EACH
0320	02381	REMOVE GUARDRAIL	4,050.00	LF
0325	02383	REMOVE & RESET GUARDRAIL	2,000.00	LF
0330	02391	GUARDRAIL END TREATMENT TYPE 4A	2.00	EACH
0335	02484	CHANNEL LINING CLASS III	200.00	TON
0340	02562	TEMPORARY SIGNS	1,069.00	SQFT
0345	20191ED	OBJECT MARKER TY 3	3.00	EACH
0350	02575	DITCHING AND SHOULDERING	2,000.00	LF
0355	02650	MAINTAIN & CONTROL TRAFFIC - PERRY	1.00	LS
0360	02671	PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH
0365	02676	MOBILIZATION FOR MILL & TEXT - PERRY	1.00	LS
0370	02696	SHOULDER RUMBLE STRIPS	86,370.00	LF
0375	02726	STAKING - PERRY	1.00	LS
0380	02775	ARROW PANEL	4.00	EACH
0385	03262	CLEAN PIPE STRUCTURE	5.00	EACH
0390	05950	EROSION CONTROL BLANKET	300.00	SQYD
0395	06510	PAVE STRIPING-TEMP PAINT-4 IN	90,895.00	LF
0400	06514	PAVE STRIPING-PERM PAINT-4 IN	182,790.00	LF
0405	06568	PAVE MARKING-THERMO STOP BAR-24IN	68.00	LF
0410	06573	PAVE MARKING-THERMO STR ARROW	5.00	EACH
0415	06574	PAVE MARKING-THERMO CURV ARROW	50.00	EACH
0420	06576	PAVE MARKING-THERMO ONLY	1.00	EACH
0425	06578	PAVE MARKING-THERMO MERGE ARROW	11.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0430	20458ES403	CENTERLINE RUMBLE STRIPS	33,514.00	LF
0435	24489EC	INLAID PAVEMENT MARKER	825.00	EACH
0440	10020NS	FUEL ADJUSTMENT	40,867.00	DOLL
0445	10030NS	ASPHALT ADJUSTMENT	102,647.00	DOLL
0450	21415ND	EROSION CONTROL - PERRY	1.00	LS
0455	20071EC	JOINT ADHESIVE	165,400.00	LF
0460	06403	FLEXIBLE DELINEATOR POST-B/W	118.00	EACH
0465	06406	SBM ALUM SHEET SIGNS .080 IN	1,014.00	SQFT
0470	06407	SBM ALUM SHEET SIGNS .125 IN	1,648.00	SQFT
0475	06410	STEEL POST TYPE 1	4,500.00	LF
0480	06412	STEEL POST MILE MARKERS	21.00	EACH
0485	24631EC	BARCODE SIGN INVENTORY	468.00	EACH
0490	02568	MOBILIZATION	1.00	LS
0495	02569	DEMOBILIZATION	1.00	LS

Contract Id: _____ Contractor: _____

Section Engineer: _____ District & County: _____

DESCRIPTION	UNIT	QTY LEAVING PROJECT	QTY RECEIVED@BB YARD
GUARDRAIL (Includes End treatments & crash cushions)	LF	_____	_____
STEEL POSTS	EACH	_____	_____
STEEL BLOCKS	EACH	_____	_____
WOOD OFFSET BLOCKS	EACH	_____	_____
BACK UP PLATES	EACH	_____	_____
CRASH CUSHION	EACH	_____	_____
NUTS, BOLTS, WASHERS	BAG/BCKT	_____	_____
DAMAGED RAIL TO MAINT. FACILITY	LF	_____	_____
DAMAGED POSTS TO MAINT. FACILITY	EACH	_____	_____

***Required Signatures before Leaving Project Site**

Printed Section Engineer’s Representative_____ & Date_____

Signature Section Engineer’s Representative_____ & Date_____

Printed Contractor’s Representative_____ & Date_____

Signature Contractor’s Representative_____ & Date_____

***Required Signatures after Arrival at Bailey Bridge Yard (All material on truck must be counted & the quantity received column completed before signatures)**

Printed Bailey Bridge Yard Representative_____ & Date_____

Signature Bailey Bridge Yard Representative_____ & Date_____

Printed Contractor’s Representative_____ & Date_____

Signature Contractor’s Representative_____ & Date_____

**Payment for the bid item remove guardrail will be based upon the quantities shown in the Bailey Bridge Yard received column. Payment will not be made for guardrail removal until the guardrail verification sheets are electronically submitted to the Section Engineer by the Bailey Bridge Yard Representative.

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to previous editions of the *Standard Specifications for Road and Bridge Construction* and *Standard Drawings* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2019* and *Standard Drawings, Edition of 2016*.

SUPPLEMENTAL SPECIFICATIONS

The contractor shall use the Supplemental Specifications that are effective at the time of letting.
The Supplemental Specifications can be found at the following link:

<http://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx>

SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

This Special Note will apply when indicated on the plans or in the proposal.

1.0 DESCRIPTION. Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

2.0 MATERIALS.

2.1 General. Use LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

2.2 Sign and Controls. All signs must:

- 1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- 2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
 - a) Keyboard or keypad.
 - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
 - c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
 - d) Logic circuitry to control the sequence of messages and flash rate.
- 4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
- 5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
- 6) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 7) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
- 8) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
- 9) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
- 10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
- 11) Provide a photocell control to provide automatic dimming.

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- 12) Allow an on-off flashing sequence at an adjustable rate.
- 13) Provide a sight to aim the message.
- 14) Provide a LED display color of approximately 590 nm amber.
- 15) Provide a controller that is password protected.
- 16) Provide a security device that prevents unauthorized individuals from accessing the controller.
- 17) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/KEEP/RIGHT/⇒⇒⇒/	/MIN/SPEED/**MPH/
/KEEP/LEFT/⇐⇐⇐/	/ICY/BRIDGE/AHEAD/ /ONE
/LOOSE/GRAVEL/AHEAD/	LANE/BRIDGE/AHEAD/
/RD WORK/NEXT/**MILES/	/ROUGH/ROAD/AHEAD/
/TWO WAY/TRAFFIC/AHEAD/	/MERGING/TRAFFIC/AHEAD/
/PAINT/CREW/AHEAD/	/NEXT/***/MILES/
/REDUCE/SPEED/**MPH/	/HEAVY/TRAFFIC/AHEAD/
/BRIDGE/WORK/***() FT/	/SPEED/LIMIT/**MPH/
/MAX/SPEED/**MPH/	/BUMP/AHEAD/
/SURVEY/PARTY/AHEAD/	/TWO/WAY/TRAFFIC/

*Insert numerals as directed by the Engineer.

Add other messages during the project when required by the Engineer.

2.3 Power.

- 1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.

3.0 CONSTRUCTION. Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel.

When the sign is not needed, move it outside the clear zone or where the Engineer directs. Variable Message Signs are the property of the Contractor and shall be removed from the project when no longer needed. The Department will not assume ownership of these signs.

4.0 MEASUREMENT. The final quantity of Variable Message Sign will be

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the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

5.0 PAYMENT. The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012

SPECIAL NOTE FOR BARCODE LABEL ON PERMANENT SIGNS

1.0 DESCRIPTION. Install barcode label on sheeting signs. Section references herein are to the Department's Standard Specifications for Road and Bridge Construction, current edition.

2.0 MATERIALS. The Department will provide the Contractor with a 2 inch x 1 inch foil barcode label for each permanent sheeting sign. A unique number will be assigned to each barcode label.

The Contractor shall contact the Operations and Pavement Management Branch in the Division of Maintenance at (502) 564-4556 to obtain the barcode labels.

3.0 CONSTRUCTION. Apply foil barcode label in the lower right quadrant of the sign back. Signs where the bottom edge is not parallel to the ground, the lowest corner of the sign shall serve as the location to place the barcode label. The barcode label shall be placed no less than one-inch and no more than three inches from any edge of the sign. The barcode must be placed so that the sign post does not cover the barcode label.

Barcodes shall be applied in an indoor setting with a minimum air temperature of 50°F or higher. Prior to application of the barcode label, the back of the sign must be clean and free of dust, oil, etc. If the sign is not clean, an alcohol swab shall be used to clean the area. The area must be allowed to dry prior to placement of the barcode label.

Data for each sign shall include the barcode number, MUTCD reference number, sheeting manufacturer, sheeting type, manufacture date, color of primary reflective surface, installation date, latitude and longitude using the North American Datum of 1983 (NAD83) or the State Plane Coordinates using an x and y ordinate of the installed location.

Data should be provided electronically on the TC 71-229 Sign Details Information and TC 71-230 Sign Assembly Information forms. The Contractor may choose to present the data in a different format provided that the information submitted to the Department is equivalent to the information required on the Department TC forms. The forms must be submitted in electronic format regardless of which type of form is used. The Department will not accept PDF or handwritten forms. These completed forms must be submitted to the Department prior to final inspection of the signs. The Department will not issue formal acceptance for the project until the TC 71-229 and TC-230 electronic forms are completed for all signs and sign assemblies on the project.

4.0 MEASUREMENT. The Department will measure all work required for the installation of the barcode label and all work associated with completion and submission of the sign inventory data (TC 71-229 and TC 71-230).

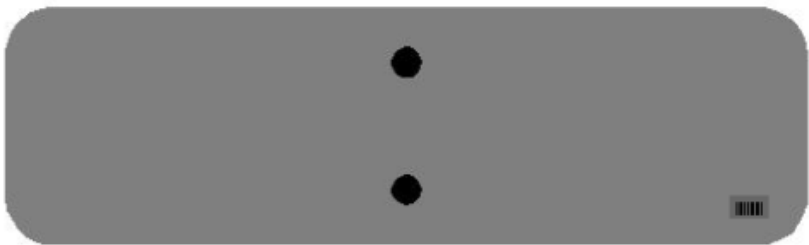
The installation of the permanent sign will be measured in accordance to Section 715.

5.0 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

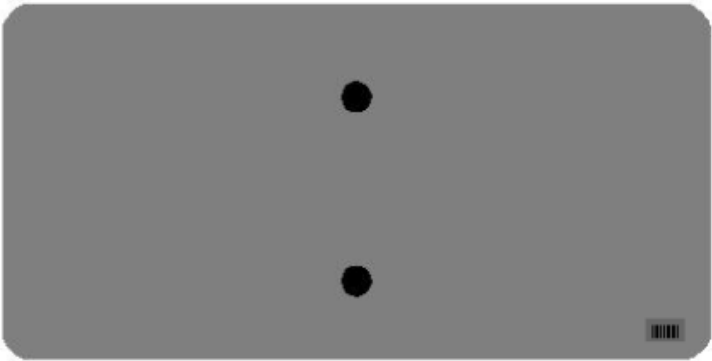
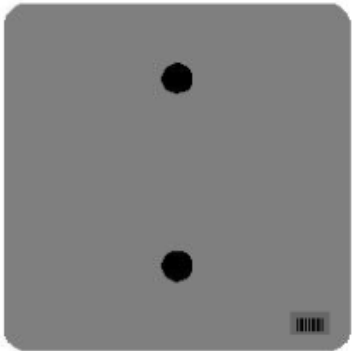
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24631EC	Barcode Sign Inventory	Each

The Department will not make payment for this item until all barcodes are installed and sign inventory is complete on every permanent sign installed on the project. The Department will make payment for installation of the permanent sign in accordance to Section 715. The Department will consider payment as full compensation for all work required under this special note.

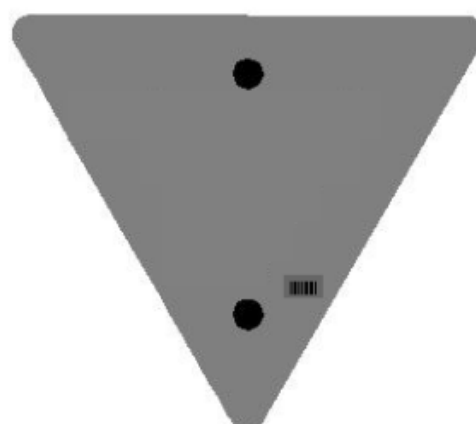
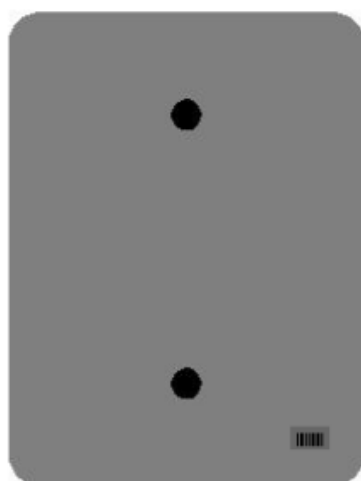
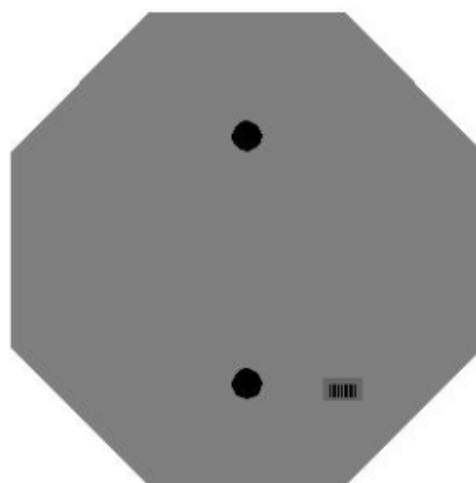
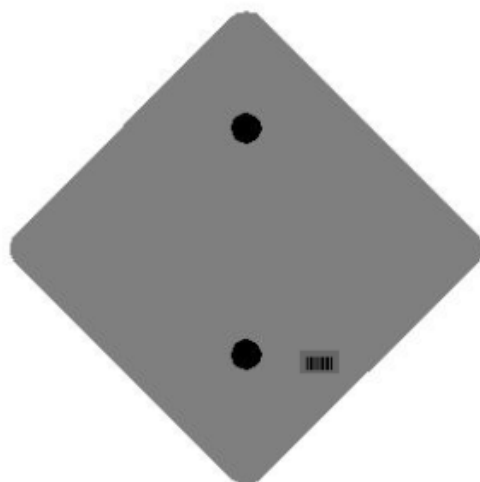
One Sign Post



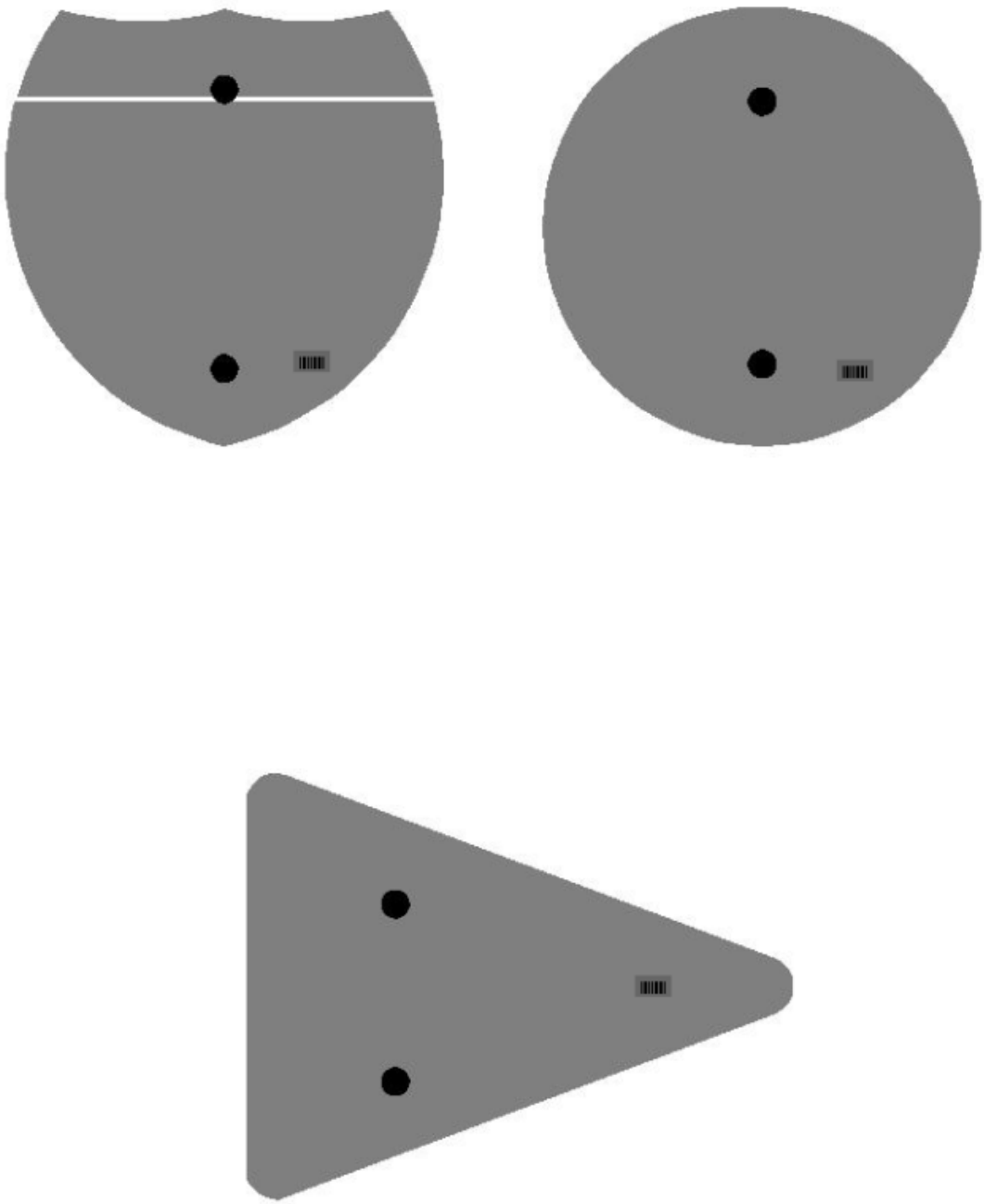
↑
2" Wide Post



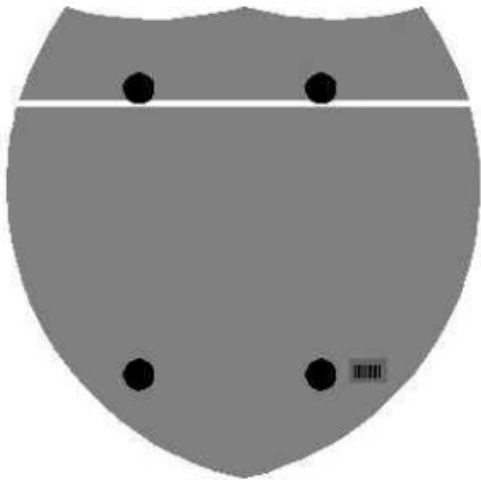
One Sign Post



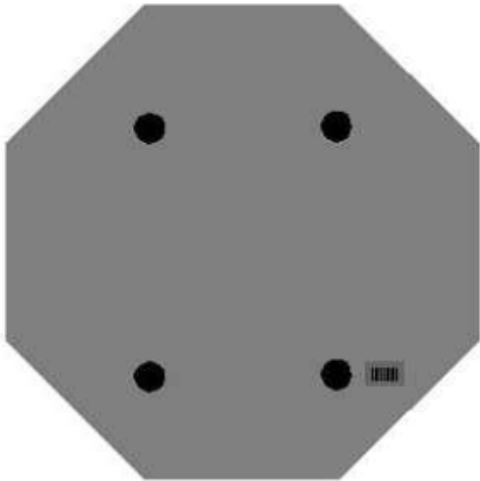
One Sign Post



Double Sign Post

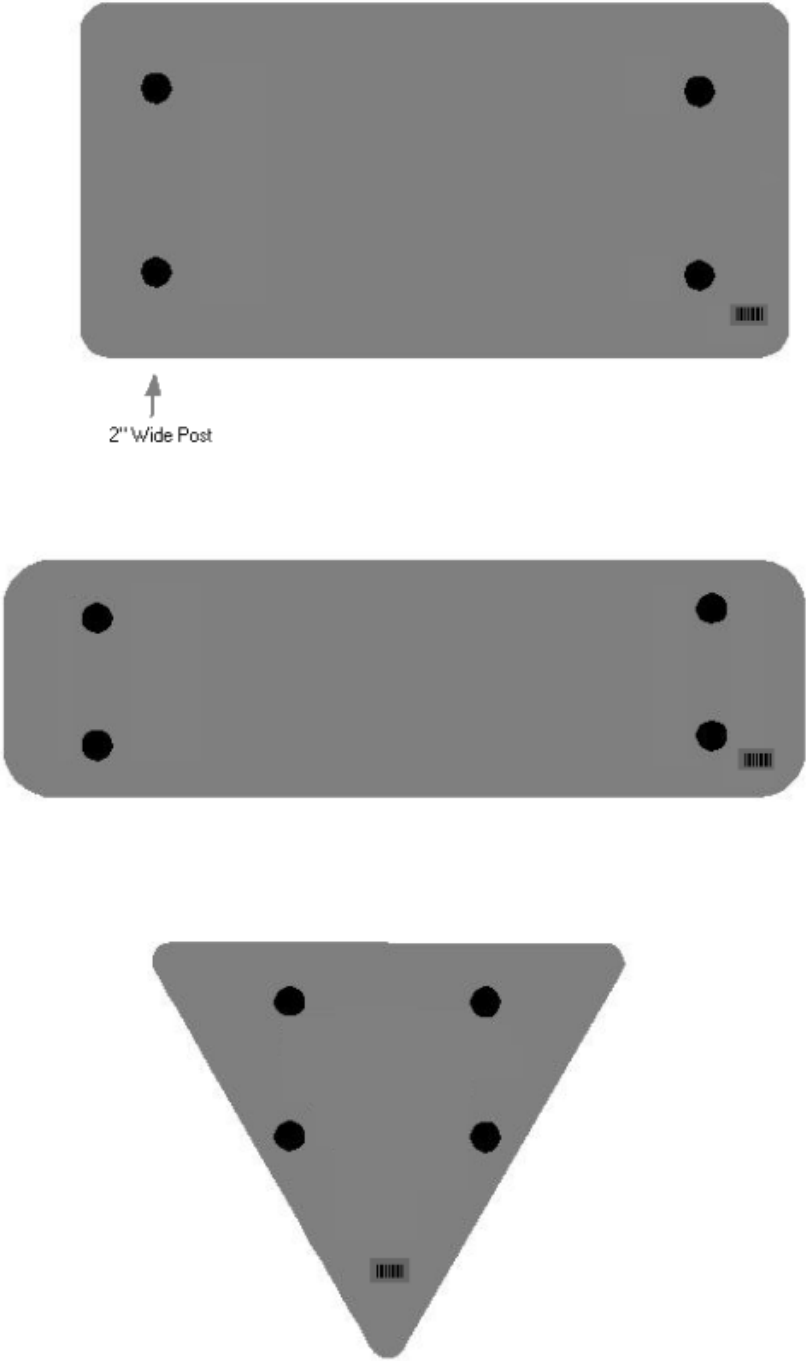


Interstate
Shield



48" Stop

2 Post Signs



PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

**TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS**

**LABOR AND WAGE REQUIREMENTS
APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS**

- I. Application
- II. Nondiscrimination of Employees (KRS 344)

I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age forty (40) and over, in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

II. NONDISCRIMINATION OF EMPLOYEES

**AN ACT OF THE KENTUCKY
GENERAL ASSEMBLY TO PREVENT
DISCRIMINATION IN EMPLOYMENT
KRS CHAPTER 344
EFFECTIVE JUNE 16, 1972**

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (forty and above); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age forty (40) and over. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, except that such a notice or advertisement may indicate a preference, limitation, or specification based on religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, when religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, is a bona fide occupational qualification for employment.

EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (7) provides:

No present or former public servant shall, within six (6) months following termination of his office or employment, accept employment, compensation, or other economic benefit from any person or business that contracts or does business with, or is regulated by, the state in matters in which he was directly involved during the last thirty-six (36) months of his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, or for which he received, prior to his state employment, a professional degree or license, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved during the last thirty-six (36) months of his tenure in state government. This subsection shall not prohibit the performance of ministerial functions, including but not limited to filing tax returns, filing applications for permits or licenses, or filing incorporation papers, nor shall it prohibit the former officer or public servant from receiving public funds disbursed through entitlement programs.

KRS 11A.040 (9) states:

A former public servant shall not represent a person or business before a state agency in a matter in which the former public servant was directly involved during the last thirty-six (36) months of his tenure, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, 3 Fountain Place, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: January 27, 2017

Kentucky Equal Employment Opportunity Act of 1978

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under ***Vendor Information, Standard Attachments and General Terms*** at the following address:
<https://www.eProcurement.ky.gov>.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **finance.contractcompliance@ky.gov** or by phone at 502-564-2874.

EMPLOYEE RIGHTS UNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

FEDERAL MINIMUM WAGE

\$7.25 PER HOUR

BEGINNING JULY 24, 2009

OVERTIME PAY

At least $1\frac{1}{2}$ times your regular rate of pay for all hours worked over 40 in a workweek.

CHILD LABOR

An employee must be at least **16** years old to work in most non-farm jobs and at least **18** to work in non-farm jobs declared hazardous by the Secretary of Labor.

Youths **14** and **15** years old may work outside school hours in various non-manufacturing, non-mining, non-hazardous jobs under the following conditions:

No more than

- **3** hours on a school day or **18** hours in a school week;
- **8** hours on a non-school day or **40** hours in a non-school week.

Also, work may not begin before **7 a.m.** or end after **7 p.m.**, except from June 1 through Labor Day, when evening hours are extended to **9 p.m.** Different rules apply in agricultural employment.

TIP CREDIT

Employers of "tipped employees" must pay a cash wage of at least \$2.13 per hour if they claim a tip credit against their minimum wage obligation. If an employee's tips combined with the employer's cash wage of at least \$2.13 per hour do not equal the minimum hourly wage, the employer must make up the difference. Certain other conditions must also be met.

ENFORCEMENT

The Department of Labor may recover back wages either administratively or through court action, for the employees that have been underpaid in violation of the law. Violations may result in civil or criminal action.

Employers may be assessed civil money penalties of up to \$1,100 for each willful or repeated violation of the minimum wage or overtime pay provisions of the law and up to \$11,000 for each employee who is the subject of a violation of the Act's child labor provisions. In addition, a civil money penalty of up to \$50,000 may be assessed for each child labor violation that causes the death or serious injury of any minor employee, and such assessments may be doubled, up to \$100,000, when the violations are determined to be willful or repeated. The law also prohibits discriminating against or discharging workers who file a complaint or participate in any proceeding under the Act.

ADDITIONAL INFORMATION

- Certain occupations and establishments are exempt from the minimum wage and/or overtime pay provisions.
- Special provisions apply to workers in American Samoa and the Commonwealth of the Northern Mariana Islands.
- Some state laws provide greater employee protections; employers must comply with both.
- The law requires employers to display this poster where employees can readily see it.
- Employees under 20 years of age may be paid \$4.25 per hour during their first 90 consecutive calendar days of employment with an employer.
- Certain full-time students, student learners, apprentices, and workers with disabilities may be paid less than the minimum wage under special certificates issued by the Department of Labor.

For additional information:



1-866-4-USWAGE

(1-866-487-9243)

TTY: 1-877-889-5627



WWW.WAGEHOUR.DOL.GOV

PART IV

INSURANCE

Refer to
Kentucky Standard Specifications for Road and Bridge Construction,
current edition

PART V

BID ITEMS

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	3,366.00	TON		\$	
0020	00078		CRUSHED AGGREGATE SIZE NO 2	200.00	TON		\$	
0030	00100		ASPHALT SEAL AGGREGATE	43.50	TON		\$	
0040	00103		ASPHALT SEAL COAT	5.20	TON		\$	
0050	00194		LEVELING & WEDGING PG76-22	1,493.00	TON		\$	
0060	00214		CL3 ASPH BASE 1.00D PG64-22	5,741.00	TON		\$	
0070	00216		CL3 ASPH BASE 1.00D PG76-22	4,313.00	TON		\$	
0080	00356		ASPHALT MATERIAL FOR TACK	84.70	TON		\$	
0090	00387		CL3 ASPH SURF 0.38B PG76-22	16,466.00	TON		\$	
0100	02677		ASPHALT PAVE MILLING & TEXTURING	25,568.00	TON		\$	
0110	24878EC		ASPHALT EMULSION FOR FOG SEAL	50.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0120	00461		CULVERT PIPE-15 IN	8.00	LF		\$	
0130	00462		CULVERT PIPE-18 IN	8.00	LF		\$	
0140	00981		SLOTTED DRAIN PIPE-15 IN	32.00	LF		\$	
0150	00982		SLOTTED DRAIN PIPE-18 IN	20.00	LF		\$	
0160	01370		METAL END SECTION TY 1-15 IN	2.00	EACH		\$	
0170	01450		S & F BOX INLET-OUTLET-18 IN	2.00	EACH		\$	
0180	01691		FLUME INLET TYPE 2	3.00	EACH		\$	
0190	01897		ASPHALT WEDGE CURB	1,000.00	LF		\$	
0200	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	554.00	EACH		\$	
0210	02014		BARRICADE-TYPE III	6.00	EACH		\$	
0220	02200		ROADWAY EXCAVATION	395.00	CUYD		\$	
0230	02360		GUARDRAIL TERMINAL SECTION NO 1	21.00	EACH		\$	
0240	02367		GUARDRAIL END TREATMENT TYPE 1	3.00	EACH		\$	
0250	02372		REMOVE GUARDRAIL CON TO BR END	28.00	EACH		\$	
0260	02377		GUARDRAIL CONNECTOR TO BRIDGE END TY C	28.00	EACH		\$	
0270	02381		REMOVE GUARDRAIL	12,813.00	LF		\$	
0280	02383		REMOVE & RESET GUARDRAIL	2,163.00	LF		\$	
0290	02391		GUARDRAIL END TREATMENT TYPE 4A	3.00	EACH		\$	
0300	02484		CHANNEL LINING CLASS III	200.00	TON		\$	
0310	02562		TEMPORARY SIGNS	1,569.00	SQFT		\$	
0320	02565		OBJECT MARKER TYPE 2	28.00	EACH		\$	
0330	02575		DITCHING AND SHOULDERING	2,000.00	LF		\$	
0340	02650		MAINTAIN & CONTROL TRAFFIC BREATHITT	1.00	LS		\$	
0350	02650		MAINTAIN & CONTROL TRAFFIC PERRY	1.00	LS		\$	
0360	02671		PORTABLE CHANGEABLE MESSAGE SIGN	6.00	EACH		\$	
0370	02676		MOBILIZATION FOR MILL & TEXT BREATHITT	1.00	LS		\$	

Report Date 10/2/19

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0380	02676		MOBILIZATION FOR MILL & TEXT PERRY	1.00	LS		\$	
0390	02696		SHOULDER RUMBLE STRIPS	86,370.00	LF		\$	
0400	02726		STAKING BREATHITT	1.00	LS		\$	
0410	02726		STAKING PERRY	1.00	LS		\$	
0420	02775		ARROW PANEL	6.00	EACH		\$	
0430	03262		CLEAN PIPE STRUCTURE	5.00	EACH		\$	
0440	05950		EROSION CONTROL BLANKET	500.00	SQYD		\$	
0450	06510		PAVE STRIPING-TEMP PAINT-4 IN	91,395.00	LF		\$	
0460	06514		PAVE STRIPING-PERM PAINT-4 IN	183,790.00	LF		\$	
0470	06568		PAVE MARKING-THERMO STOP BAR-24IN	68.00	LF		\$	
0480	06573		PAVE MARKING-THERMO STR ARROW	5.00	EACH		\$	
0490	06574		PAVE MARKING-THERMO CURV ARROW	50.00	EACH		\$	
0500	06576		PAVE MARKING-THERMO ONLY	1.00	EACH		\$	
0510	06578		PAVE MARKING-THERMO MERGE ARROW	11.00	EACH		\$	
0520	10020NS		FUEL ADJUSTMENT	40,867.00	DOLL	\$1.00	\$	\$40,867.00
0530	10030NS		ASPHALT ADJUSTMENT	102,647.00	DOLL	\$1.00	\$	\$102,647.00
0540	20071EC		JOINT ADHESIVE	165,400.00	LF		\$	
0550	20191ED		OBJECT MARKER TY 3	6.00	EACH		\$	
0560	20458ES403		CENTERLINE RUMBLE STRIPS	33,514.00	LF		\$	
0570	21415ND		EROSION CONTROL	1.00	LS		\$	
0580	21415ND		EROSION CONTROL PERRY	1.00	LS		\$	
0590	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	12,600.00	LF		\$	
0600	24489EC		INLAID PAVEMENT MARKER	825.00	EACH		\$	

Section: 0003 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0610	06403		FLEXIBLE DELINEATOR POST-B/W	236.00	EACH		\$	
0620	06406		SBM ALUM SHEET SIGNS .080 IN	1,734.00	SQFT		\$	
0630	06407		SBM ALUM SHEET SIGNS .125 IN	2,888.00	SQFT		\$	
0640	06410		STEEL POST TYPE 1	7,760.00	LF		\$	
0650	06412		STEEL POST MILE MARKERS	37.00	EACH		\$	
0660	24631EC		BARCODE SIGN INVENTORY	807.00	EACH		\$	

Section: 0004 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0670	02568		MOBILIZATION	1.00	LS		\$	
0680	02569		DEMOBILIZATION	1.00	LS		\$	

4 SPACES

PAY LIMITS FOR GUARDRAIL CONNECTOR TO BRIDGE END TYPE "C"



GUARDRAIL CONNECTOR TO BRIDGE END TYPE "C" SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH. THE UNIT PRICE INCLUDES ALL METAL COMPONENTS WITHIN THE PAY LIMITS AND IN ADDITION SHALL INCLUDE AN EXTRA 7620 MM OF STEEL "W" BEAM GUARDRAIL FOR DOUBLE STRENGTH.

GUARDRAIL CONNECTOR TO BRIDGE END TYPE "C" SHALL BE APPLIED ON:
 A. ALL FOUR CORNERS OF EXISTING STRUCTURES WHICH HAVE TWO DIRECTIONAL TRAFFIC AND CURBS GREATER THAN 230 MM IN WIDTH.
 B. APPROACH END OF EXISTING STRUCTURES WHICH HAVE ONE DIRECTION TRAFFIC AND CURBS GREATER THAN 230 MM IN WIDTH.
 C. NO PEDESTRIAN TRAFFIC IS INVOLVED.

SEE CURRENT DRAWINGS RBR SERIES FOR ALL OTHER APPLICABLE MATERIAL AND CONSTRUCTION REQUIREMENTS.

TERMINAL SECT. NO. 2 SHALL BE ANCHORED TO THE BRIDGE BRUSH CURB WITH 4 CHUCK END TYPE SELF-DRILL EXPANSION SHIELDS M22 DIA. BOLT SIZE AND FOUR - M22x50 HEX HEAD HIGH STRENGTH GALVANIZED CAP SCREWS AND GALVANIZED STANDARD STEEL WASHERS.

ANGLE BRACKETS SHALL BE ANCHORED TO THE BRIDGE BRUSH CURB WITH TWO CHUCK END TYPE SELF-DRILL EXPANSION SHIELDS

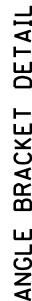
MM22 DIAMETER BOLT SIZE AND TWO M22x50 HEX HEAD HIGH STRENGTH GALVANIZED CAP SCREWS AND GALVANIZED STANDARD STEEL WASHERS.
TERMINAL SECTION NO. 2; FOR RECTANGULAR PLATE WASHER REQUIREMENTS AT SPLICE SEE CUR. STD. DWG. RBR-010

GUARDRAIL NOT REQUIRED TO BE ATTACHED TO POST AT THESE LOCATIONS.

A 1905 MM SECTION OF GUARDRAIL FACTORY PUNCHED SHALL BE REQUIRED.

BACKUP PLATES SHALL NOT BE REQUIRED WITHIN THE 2 PLY GUARDRAIL SECTION.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.



KENTUCKY
 DEPARTMENT OF HIGHWAYS
 GUARDRAIL CONNECTOR
 TO BRIDGE END
 TYPE "C"

SUBMITTED _____ DATE _____