



CALL NO. 406

CONTRACT ID. 241001

LEE COUNTY

FED/STATE PROJECT NUMBER 065GR24D001-FD04

DESCRIPTION KY-11

WORK TYPE ASPHALT SURFACE WITH GRADE & DRAIN

PRIMARY COMPLETION DATE 11/1/2024

LETTING DATE: August 22,2024

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME August 22,2024. 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 - 241001
065GR24D001-FD04
COUNTY - LEE
PCN - DE06500112401
FD04 065 0011 004-005

KY-11 (MP 4.55) EXTEND TWO WAY LEFT TURN LANE FROM .047 MILES NORTH OF LEE COUNTY SENIOR CITIZENS CENTER TO .103 MILES SOUTH OF GRAND AVE (MP 5.15), A DISTANCE OF 0.59 MILES.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 10-80102.00.
GEOGRAPHIC COORDINATES LATITUDE 37:34:37.00 LONGITUDE 83:42:21.00
ADT

PCN - DE06500112402
FD04 065 0011 009-010

KY-11 (MP 9.30) ADD TURN LANE AT THE INTERSECTION OF KY-11 AND KY-498 (MP 9.49), A DISTANCE OF 0.19 MILES.ASPHALT RESURFACING SYP NO. 10-80103.00.
GEOGRAPHIC COORDINATES LATITUDE 37:38:19.00 LONGITUDE 83:41:50.00
ADT

COMPLETION DATE(S):
COMPLETED BY 11/01/2024 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 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/construction-procurement). 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.

BOYCOTT PROVISIONS

If applicable, the contractor represents that, pursuant to [KRS 45A.607](#), they are not currently engaged in, and will not for the duration of the contract engage in, the boycott of a person or an entity based in or doing business with a jurisdiction with which Kentucky can enjoy open trade. **Note:** The term Boycott does not include actions taken for bona fide business or economic reasons, or actions specifically required by federal or state law.

If applicable, the contractor verifies that, pursuant to KRS 41.480, they do not engage in, and will not for the duration of the contract engage in, in energy company boycotts as defined by KRS 41.472.

LOBBYING PROHIBITIONS

The contractor represents that they, and any subcontractor performing work under the contract, have not violated the agency restrictions contained in [KRS 11A.236](#) during the previous ten (10) years, and pledges to abide by the restrictions set forth in such statute for the duration of the contract awarded.

The contractor further represents that, pursuant to [KRS 45A.328](#), they have not procured an original, subsequent, or similar contract while employing an executive agency lobbyist who was convicted of a crime related to the original, subsequent, or similar contract within five (5) years of the conviction of the lobbyist.

Revised: 2/29/2024

1.0 BUY AMERICA REQUIREMENT.

Follow the “Buy America” provisions as required by 23 U.S.C. § 313 and 23 C.F.R. § 635.410. Except as expressly provided herein all manufacturing processes of steel or iron materials including but not limited to structural steel, guardrail materials, corrugated steel, culvert pipe, structural plate, prestressing strands, and steel reinforcing bars shall occur in the United States of America, including the application of:

- Coating,
- Galvanizing,
- Painting, and
- Other coating that protects or enhances the value of steel or iron products.

The following are exempt, unless processed or refined to include substantial amounts of steel or iron material, and may be used regardless of source in the domestic manufacturing process for steel or iron material:

- Pig iron,
- Processed, pelletized, and reduced iron ore material, or
- Processed alloys.

The Contractor shall submit a certification stating that all manufacturing processes involved with the production of steel or iron materials occurred in the United States.

Produce, mill, fabricate, and manufacture in the United States of America all aluminum components of bridges, tunnels, and large sign support systems, for which either shop fabrication, shop inspection, or certified mill test reports are required as the basis of acceptance by the Department.

Use foreign materials only under the following conditions:

- 1) When the materials are not permanently incorporated into the project; or
- 2) When the delivered cost of such materials used does not exceed 0.1 percent of the total Contract amount or \$2,500.00, whichever is greater.

The Contractor shall submit to the Engineer the origin and value of any foreign material used.

2.0 – BUILD AMERICA, BUY AMERICA (BABA)

Contractor shall comply with the Federal Highway Administration (FHWA) Buy America Requirement in 23 C.F.R. § 635.410 and all relevant provisions of the Build America, Buy America Act (BABA), contained within the Infrastructure Investment and Jobs Act, Pub. L. No. 117-58, §§ 70901-52 enacted November 15, 2021. The BABA requires iron, steel, manufactured products, and construction materials used in infrastructure projects funded by federal financial assistance to be produced in the United States. Comply with 2 C.F.R § 184.

BABA permits FHWA participation in the Contract only if domestic steel and iron will be used on the Project. To be considered domestic, all steel and iron used, and all products manufactured from steel and iron must be produced in the United States and all manufacturing processes, including application of a coating, for these materials must occur in the United States. Coating includes all processes that protect or enhance the value of the material to which the coating is applied. This requirement does not preclude a minimal use of foreign steel and iron materials, provided the cost of such materials does not exceed 0.1% of the total contract amount under the Contract or \$2,500.00 whichever is greater.

BABA permits FHWA participation in the Contract only if all “construction materials” as defined in the Act are made in the United States. The Buy America preference applies to the following construction materials

SPECIAL NOTE – BUY AMERICA REQUIREMENTS AND BUILD
AMERICA, BUY AMERICA (BABA) ACT

10/26/2023

incorporated into infrastructure projects: non-ferrous metals; plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables); glass (including optic glass); Fiber optic cable; optical fiber; lumber; engineered wood; and drywall. Contractor will be required to use construction materials produced in the United States on this Project. The Contractor shall submit a certification stating that all construction materials are certified to be BABA compliant.

Finally, BABA permits the continuation of FHWA's current general applicability waivers for manufactured products, raw materials, and ferryboat parts, but these waivers are subject to reevaluation, specifically the general applicability waiver for manufactured products.

The Contractor has completed and submitted, or shall complete and submit, to the Cabinet a Buy America/Build America, Buy America Certificate prior to the Cabinet issuing the notice to proceed, in the format below. After submittal, the Contractor is bound by its original certification.

A false certification is a criminal act in violation of 18 U.S.C. § 1001. The Contractor has the burden of proof to establish that it is in compliance.

At the Contractor's request, the Cabinet may, but is not obligated to, seek a waiver of Buy America requirements if grounds for the waiver exist under 23 C.F.R. § 635.410(c) or will comply with the applicable Buy America requirements if a waiver of those requirements is not available or not pursued by the Cabinet.

Please refer to the Federal Highway Administration's Buy America webpage for more information.

[Buy America - Construction Program Guide - Contract Administration - Construction - Federal Highway Administration \(dot.gov\)](#)

October 26, 2023 Letting

BUY AMERICA / BUILD AMERICA, BUY AMERICA (ACT) MATERIALS CERTIFICATE OF COMPLIANCE

The Contractor hereby certifies that it will comply with all relevant provisions of the Build America, Buy America Act, contained within the Infrastructure Investment and Jobs Act, Pub. L. NO. 117-58, §§ 70901-52, the requirements of 23 U.S.C. § 313, 23 C.F.R. § 635.410 and 2 C.F.R § 184.

Date Submitted:_____

Contractor:_____

Signature:_____

Printed Name:_____

Title:_____

NOTE: THIS CERTIFICATION IS IN ADDITION TO ANY AND ALL REQUIREMENTS OUTLINED IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND/OR SPECIAL NOTES CONTAINED IN THE PROJECT PROPOSAL.

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.

OPTION A

Be advised that the Department will accept compaction of asphalt mixtures furnished for driving lanes and ramps, at 1 inch (25mm) or greater, on this project according to OPTION A in accordance with Section 402 and Section 403 of the current Standard Specifications. The Department will require joint cores as described in Section 402.03.02 for surface mixtures only. The Department will accept compaction of all other asphalt mixtures according to OPTION B.

LEE COUNTY
KY 11
TWO-WAY
LEFT TURN LANE
ITEM #: 10-80102.00
PROJECT #: FD04 065 0011 004-005

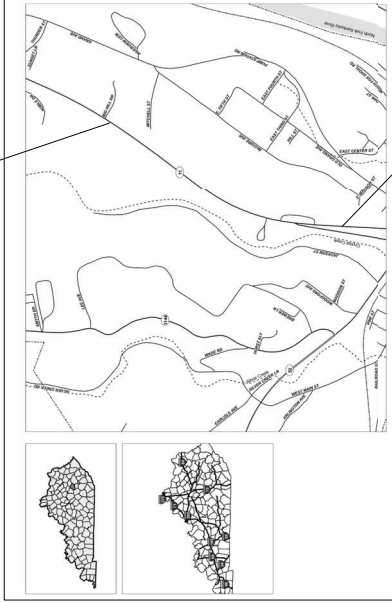
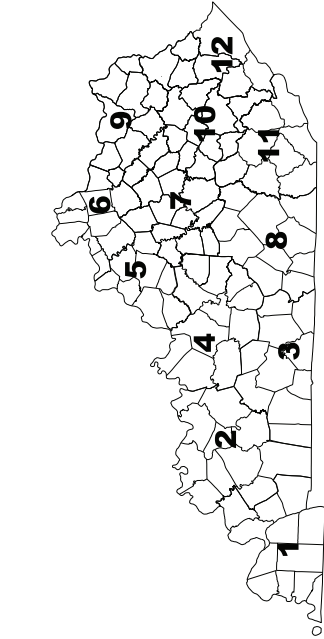
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



PLANS OF
PROPOSED PROJECT
LEE County

STATE # FD04 065 0011 004-005
GRADE, DRAIN, AND SURFACING PLANS

END PROJECT
STA. 133+65.67



BEGIN PROJECT
STA. 102+36.27

LAYOUT MAP

INDEX OF SHEETS

- R1-20 LAYOUT SHEET
- R3-A4 PLAN & SECTION
- R6-80A COORDINATE CONTROL
- R6-80A MAINTENANCE OF TRAFFIC

DESIGN CRITERIA

CLASS OF HIGHWAY	MINOR ARTERIAL
TYPE OF TERRAIN	FLAT
DESIGN SPEED	55 MPH
REQUIRED NFSD	400'
DESIGN FSD	900'
LEVEL OF SERVICE	X
ADT PRESENT ()	2020) 2627
ADT FUTURE ()	X) X
DIV	X
D %	2.6%
T %	0.08%
GEOGRAPHIC COORDINATES	
LATITUDE	37 DEGREES 34 MINUTES 37 SECONDS NORTH
LONGITUDE	82 DEGREES 42 MINUTES 21 SECONDS WEST
DESIGNED	
% RESTRICTED SD	X
LEVEL OF SERVICE	X
MAX. DISTANCE W/O PASSING	X

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-2007 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 must coordinate with the utility owners, including those whom do not subscribe to KY 811. It is the contractor's responsibility to contact the County Court Clerk to determine what utility companies have facilities in the area.

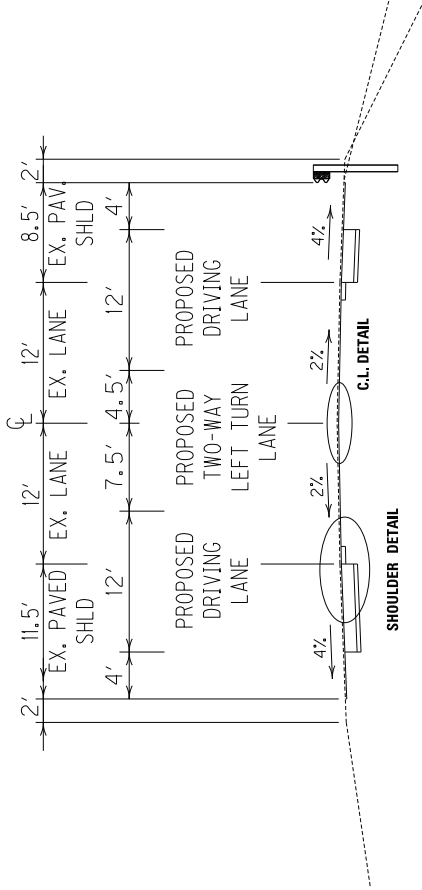
THE CONTROL OF ACCESS ON THIS
PROJECT SHALL BE BY PERMIT

LENGTH	3129.4	UN. FT.	0.593	MILES	LENGTH	X	UN. FT.	X	MILES
ADDED		UN. FT.			ADDED		UN. FT.		
DELETED		UN. FT.			DELETED		UN. FT.		
FOR EQUALITIES	X	UN. FT.			FOR EQUALITIES	X	UN. FT.		
NOT INCLUDED		UN. FT.			NOT INCLUDED		UN. FT.		
RAILROAD CROSSINGS NO.	X	UN. FT.			RAILROAD CROSSINGS NO.	X	UN. FT.		
ADJUST		UN. FT.			ADJUST		UN. FT.		
ADJUST		UN. FT.			ADJUST		UN. FT.		

PROJECT NUMBER: 10-80102.00	RECOMMENDED BY: Min Jiang, P.E.	DATE: January 5, 2024
PROJECT DESCRIPTION: INSTALL TWO-WAY LEFT TURN LANE IN BEATTYVILLE NEAR SENIOR CITIZENS CENTER.	PROJECT NUMBER	DATE
FILE NAME: C:\P\WORK\KENT\H\ADMS\20140229\10_80102_00_SHEETS_LAYOUT.DGN	STATE: KENTUCKY	DATE
USER: cthawadms	PLAN APPROVED BY:	

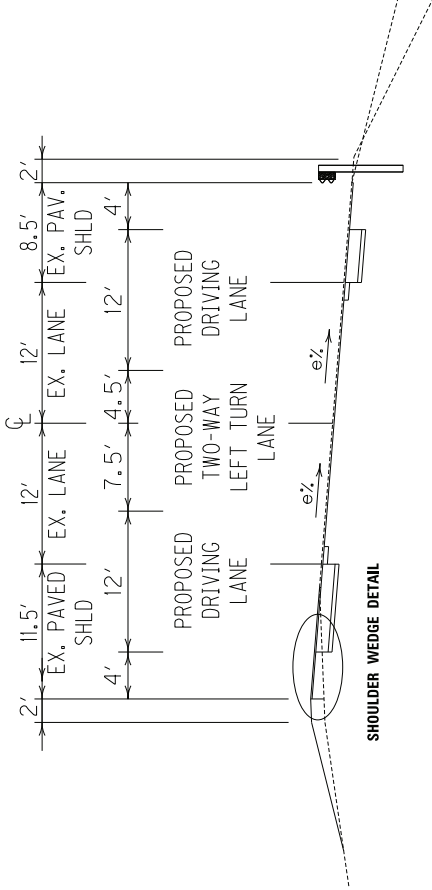
LETTING DATE: FEB 22, 2024	COUNTY OF LEE
ITEM NO. 10-80102.00	SHEET NO. 01

TYPICAL SECTIONS
KENTUCKY 11



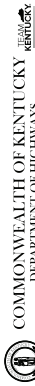
THE DIMENSIONS SHOWN ON THE TYPICAL SECTIONS FOR PAVEMENT AND SHOULDER WIDTHS AND THICKNESS ARE NOMINAL OR TYPICAL DIMENSIONS. THE ACTUAL DIMENSIONS TP BE CONSTRUCTED MAY BE VARIED TO FIT EXISTING CONDITIONS AS DIRECTED OR APPROVED BY THE ENGINEER. IT IS NOT INTENDED THAT EXISTING PAVEMENT OR SHOULDERS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

NORMAL SECTION
2 LANE



SUPER-ELEVATION SECTION
2 LANE

DRAWING TITLE: TYPICAL SECTION



FILE NAME: C:\P\WORK\KIN\J\ANG\220719\KTC_DWG_2D_SEED.DGN

USER: mls.jing

ITEM NO. 10-B0103.00
COUNTY OF LEE
SHEET NO. R2

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
OpenRoads Designer v10.10.2.207

SHLD WEDGE DETAIL



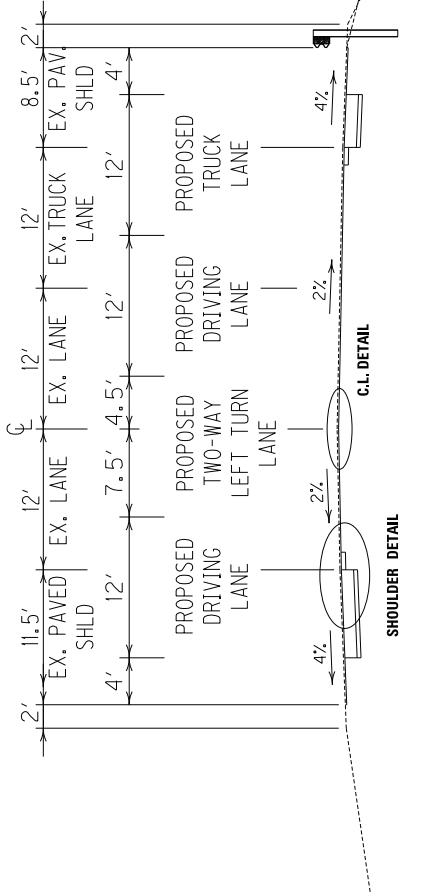
ASPHALT SEAL COAT	2.4 LB/SQ. YD.
ASPHALT SEAL AGGREGATE	20 LB/SQ. YD. (SIZE NO. 9 OR 9M)

DRAWING TITLE: TYPICAL SECTION - DETAILS

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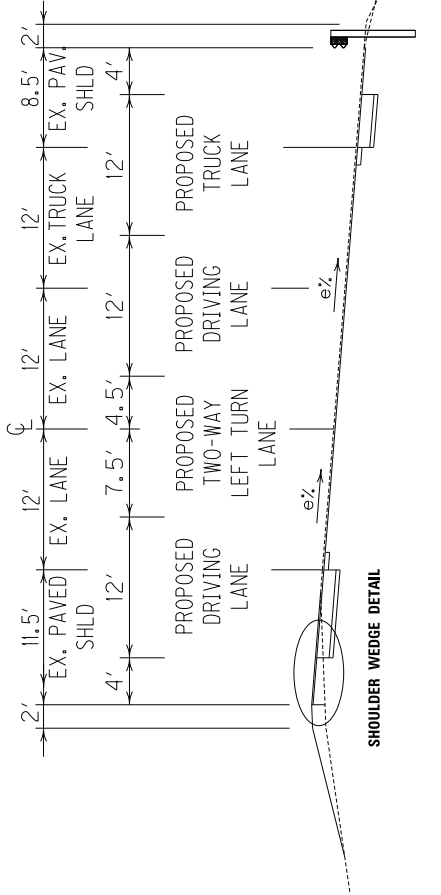
ITEM NO.	COUNTY OF
10-80103.00	LEE
SHEET NO.	
	R2A

TYPICAL SECTIONS
KENTUCKY 11



THE DIMENSIONS SHOWN ON THE TYPICAL SECTIONS FOR PAVEMENT AND SHOULDER WIDTHS AND THICKNESS' ARE NOMINAL OR TYPICAL DIMENSIONS. THE ACTUAL DIMENSIONS TP 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.

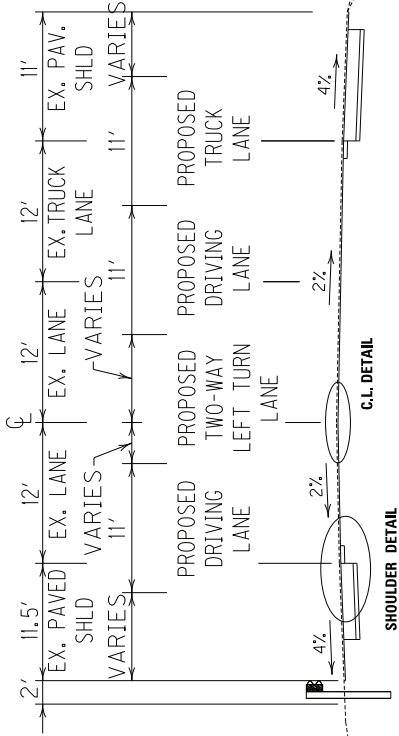
NORMAL SECTION
2 LANE W/ TRUCK CLIMBING LANE



SUPER-ELEVATION SECTION
2 LANE W/ TRUCK CLIMBING LANE

ITEM NO. 10-80103.00 COUNTY OF LEE
SHEET NO. R2C

TYPICAL SECTIONS
KENTUCKY 11



THE DIMENSIONS SHOWN ON THE TYPICAL SECTIONS FOR PAVEMENT AND SHOULDER WIDTHS AND THICKNESS' ARE NOMINAL OR TYPICAL DIMENSIONS. THE ACTUAL DIMENSIONS TP 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.

SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION

NORMAL SECTION
2 LANE W/ TRUCK CLIMBING LANE

ITEM NO.	COUNTY OF
10-80103.00	LEE
SHEET NO.	R2D

DRAWING TITLE: SECTION 2 TYPICAL SECTION - 2 LANES WITH TRUCK LANE

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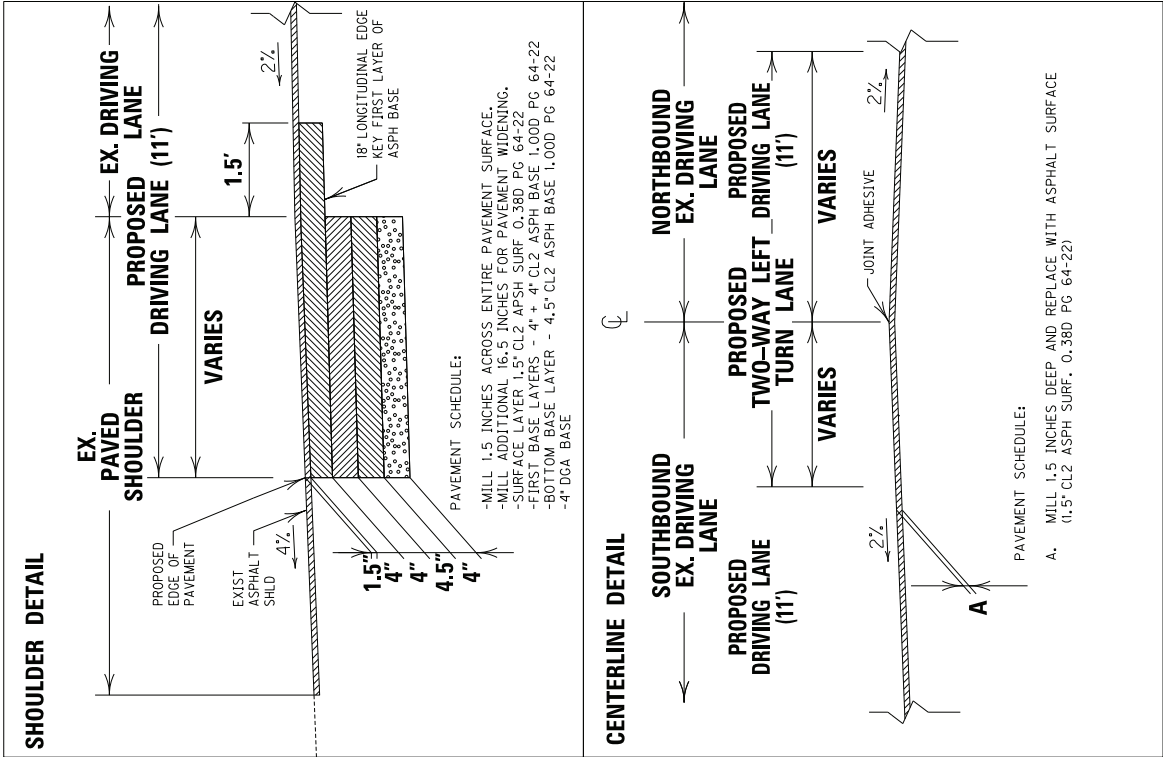
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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



OpenRoads Designer v10.16.2.267



DRAWING TITLE: SECTION 2 - TYPICAL SECTION - DETAILS

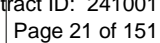
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

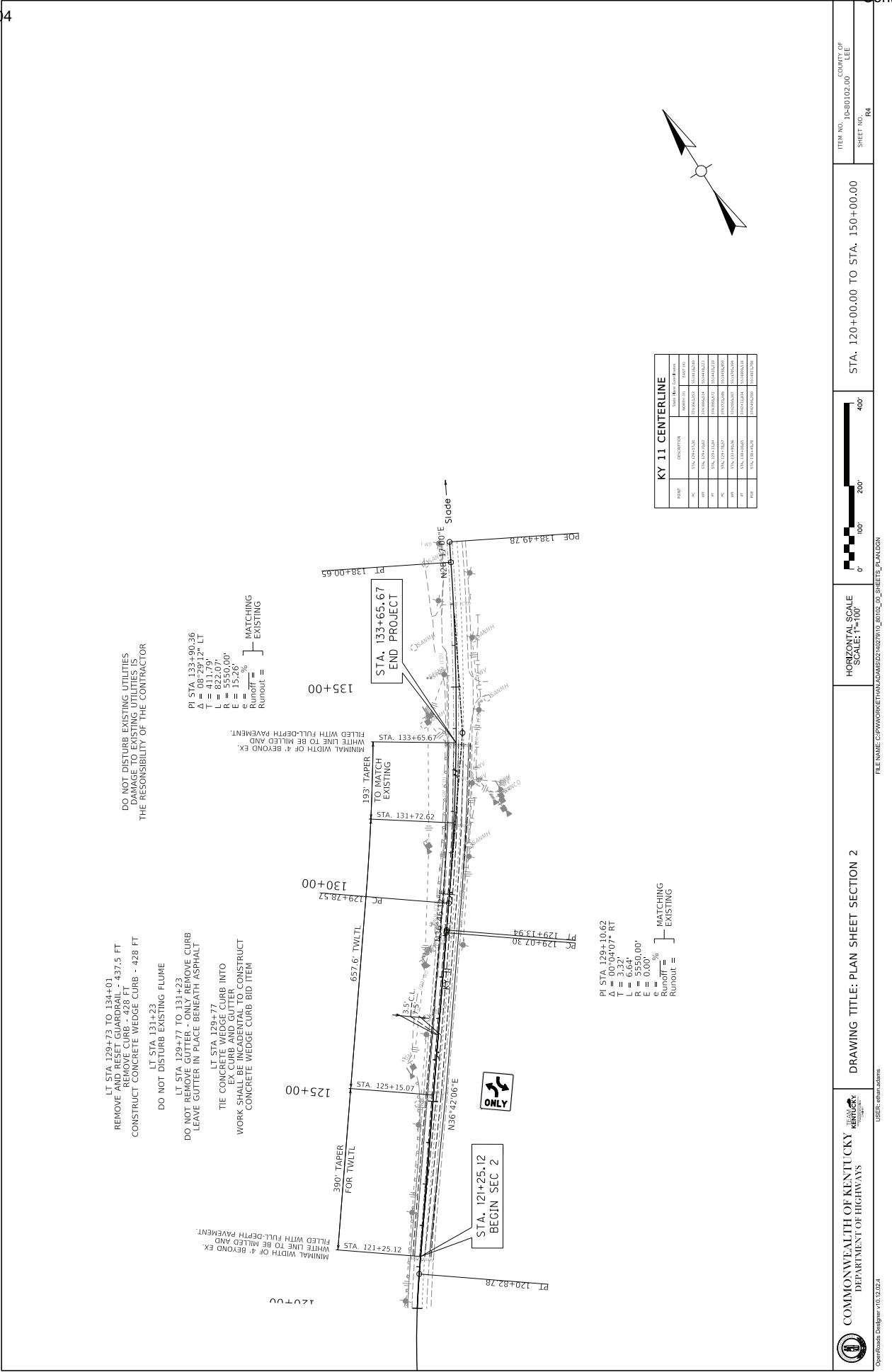
OpenRoads Designer v10.16.2.267

FILE NAME: C:\P\WORK\065GR24D001\FD04_20_SEED.DGN

USER: rnh.jing

ITEM NO.	COUNTY OF
10-80103.00	LEE
SHEET NO.	
202	





MAINTENANCE OF TRAFFIC GENERAL NOTES

GENERAL NOTES

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE STANDARD DRAWINGS, CURRENT EDITIONS.
2. 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 GRADING AND NECESSARY DRAINAGE (UNLESS A BID ITEM FOR DETOUR CONSTRUCTION IS INCLUDED) FOR THE TEMPORARY ROADWAY AND REMOVAL THEREOF, WHEN IT IS NO LONGER NEEDED. IF A BID ITEM FOR DETOUR CONSTRUCTION IS INCLUDED, GRADING AND DRAINAGE WILL BE PAID FOR IN THE BID ITEM "DETOUR CONSTRUCTION".
 - B. ALL LABOR AND MATERIALS NECESSARY FOR CONSTRUCTION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AND MARKINGS.
 - C. ALL FLAGPERSONS 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 NOTED ON THE ENGINEER.
 - D. ANY TEMPORARY TRAFFIC CONTROL ITEMS, DEVICES, MATERIALS AND INCIDENTALS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED.
3. THE CONTRACTOR SHALL MAINTAIN A TWO-LANE TRAVELED WAY WITH A MINIMUM LANE WIDTH OF 11 FEET. HOWEVER, FOR WORKING CONDITIONS, A SINGLE TRAFFIC LANE MAY BE ALLOWED AT THE DISCRETION OF THE ENGINEER. PROVIDED ADEQUATE SIGNING AND A FLAGPERSON ARE AT THE LOCATION.
4. 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.
5. 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.
6. THE ENGINEER AND THE CONTRACTOR, OR THEIR AUTHORIZED REPRESENTATIVES, SHALL REVIEW THE SIGNING BEFORE THE SIGNING IS PLACED OR REMOVED. NO WORK SHALL BE STARTED BY THE CONTRACTOR, APPROVED BY THE ENGINEER BEFORE WORK CAN BE STARTED BY THE CONTRACTOR.
7. IF THE CONTRACTOR DESIRES TO DEVIATE FROM THE TRAFFIC CONTROL SCHEME AND CONSTRUCTION SCHEDULE OUTLINED IN THESE PLANS, THIS PROPOSAL, HE SHALL PREPARE AN ALTERNATE PLAN AND PRESENT IT IN WRITING TO THE ENGINEER. THIS ALTERNATE PLAN CAN BE USED ONLY AFTER REVIEW AND APPROVAL OF THE ENGINEER. DEVIATION FROM TRAFFIC, DESIGN AND CONSTRUCTION, AND THE FEDERAL HIGHWAY ADMINISTRATION, WHERE APPLICABLE.
8. 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 POSSIBLE.
9. ALL SIGNS NECESSARY FOR A MARKED DETOUR WILL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY STANDARD DRAWINGS AND THE MUTCD. SIGNS OUTSIDE THE PROJECT LIMITS SHALL BE PAID FOR BY THE SQUARE FOOT. THIS QUANTITY SHALL INCLUDE SIGN MOUNTING HARDWARE AND POSTS.

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 OF 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 BARRICADES MAY BE USED. IF THE DROP-OFF IS GREATER THAN 12 INCHES, POSITIVE SEPARATION IS STRONGLY ENCOURAGED. IF CONCRETE BARRIERS ARE USED, SPECIAL REFLECTIVE DEVICES OR STEADY BURN LIGHTS SHOULD BE USED FOR OVERNIGHT INSTALLATIONS.
- * TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN FOUR INCHES MAY BE TREATED WITH PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES FOR SHORT PERIODS DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP AREA.
- * TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.
- * WILL BE ALLOWED FOR DGA MATERIAL USED FOR WEDGING.
- * NOT ALLOWED FOR DGA MATERIAL USED FOR WEDGING.

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.

LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW VOLUME LOCAL STREETS

PAYMENT WILL BE ALLOWED FOR DGA MATERIAL USED FOR WEDGING.



USE STANDARD DRAWINGS AND MUTCD FOR PLACEMENT OF TEMPORARY SIGNS, TEMPORARY STRIPINGS, PORTABLE CHANGEABLE MESSAGE SIGNS, BARRICADES, BARRELS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES. LOCATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE ENGINEER.

INSTALL TEMPORARY TRAFFIC CONTROL DEVICES ON KY 11 MAINLINE.

ADVISORY (WARNING) SPEED LIMIT SET TO 35 MPH DURING CONSTRUCTION.

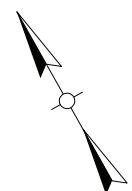
INSTALL STRIPING AND TEMPORARY DELINEATION FOR TEMPORARY 11' LANES.

MAINTAIN TRAFFIC ON TEMPORARY LANES WHILE CONSTRUCTING FULL-DEPTH FOR WIDENING ON EXISTING SOUTHBOUND SHOULDERS ON KY 11.

[illegible]

* AS DIRECTED BY ENGINEER.
* TO BE PLACED AT EACH END
OF CONSTRUCTION ZONE





HORIZONTAL SCALE: 1"=100'

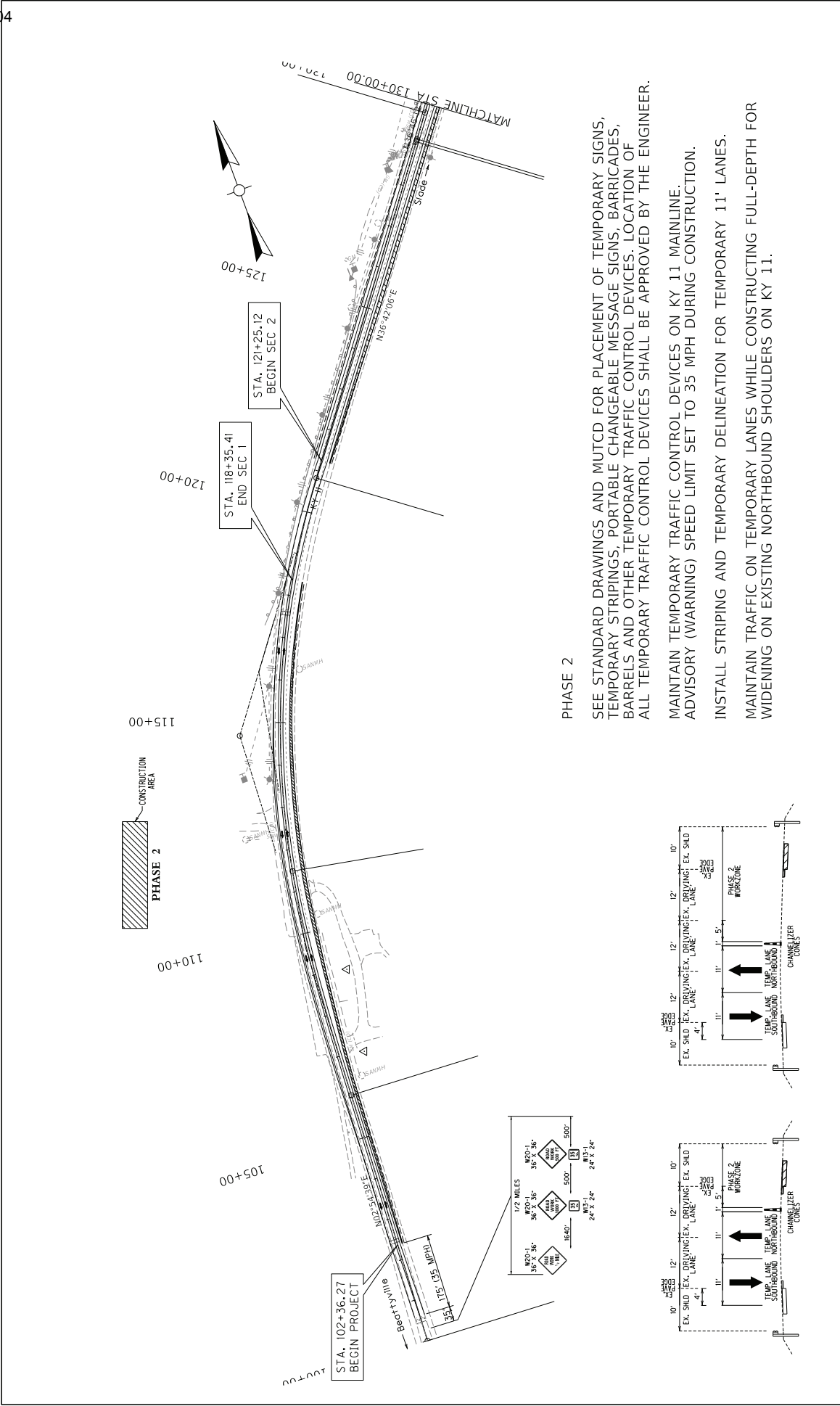
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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
TEAM KENTUCKY
KENTUCKY'S HIGHWAY DEPARTMENT

FILE NAME: C:\P\WORK\ETHAN.ADAMS\ID2286019\MOT_1_2D.DGN

SER: ethan.adams

OpenRoads Designer v10.12.02.4



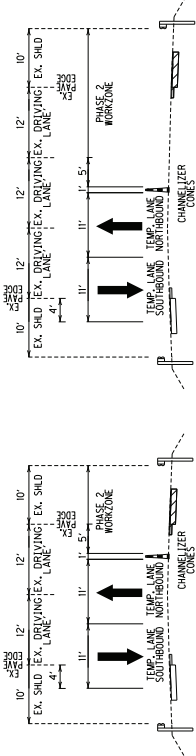
PHASE 2

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

MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES ON KY 11 MAINLINE. ADVISORY (WARNING) SPEED LIMIT SET TO 35 MPH DURING CONSTRUCTION.

INSTALL STRIPING AND TEMPORARY DELINEATION FOR TEMPORARY 11' LANES.

MAINTAIN TRAFFIC ON TEMPORARY LANES WHILE CONSTRUCTING FULL-DEPTH FOR WIDENING ON EXISTING NORTHBOUND SHOULDERS ON KY 11.

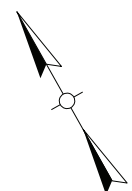


	COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS	DRAWING TITLE: MAINTENANCE OF TRAFFIC PHASE 2 PLAN	HORIZONTAL SCALE SCALE: 1"=100'		STA 100+00 TO 130+00	ITEM NO. 10-B0102.00 SHEET NO. 27	COUNTY OF LEE RT

FILE NAME: C:\P\WORK\KENT\KANS\22861\RM07_2.DGN

USER: rhaubach

OpenRoads Designer (12.12.24)



HORIZONTAL SCALE: 1"=100'

DRAWING TITLE: MAINTENANCE OF TRAFFIC PHASE 2 PLAN


COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 TEAM KENTUCKY
 "Pursuing the Vision"

FILE NAME: C:\P\WORK\ETHAN.ADAMS\ID2286019\MOT_2_2D.DGN

USER: ethan.adams

OpenRoads Designer v10.12.02.4



STA 100+00 TO 130+00



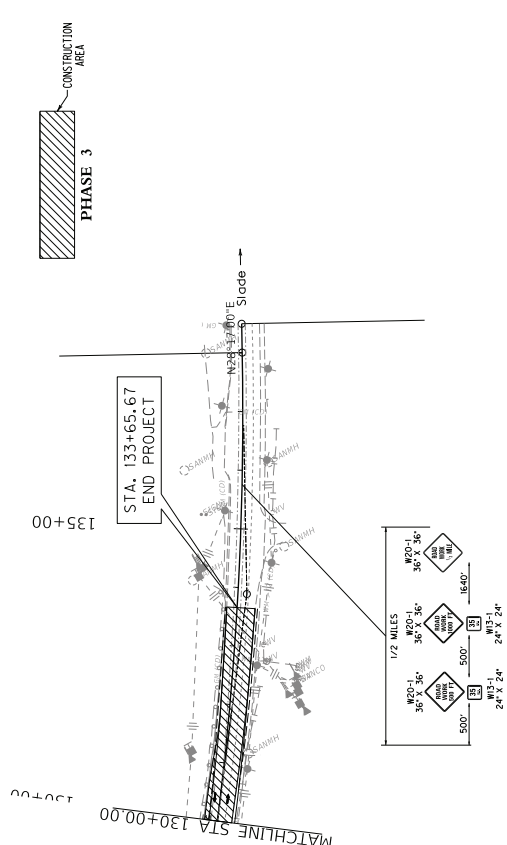
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SCALE: 1"=100'

DRAWING TITLE: MAINTENANCE OF TRAFFIC PHASE 3 PLAN



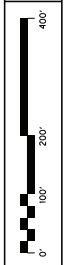
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

penRoads Designer v10.12.02.4



ITEM NO.	COUNTY OF
10-80102.00	LEE
SHEET NO.	
RS	

STA 130+00 TO 138+49.78



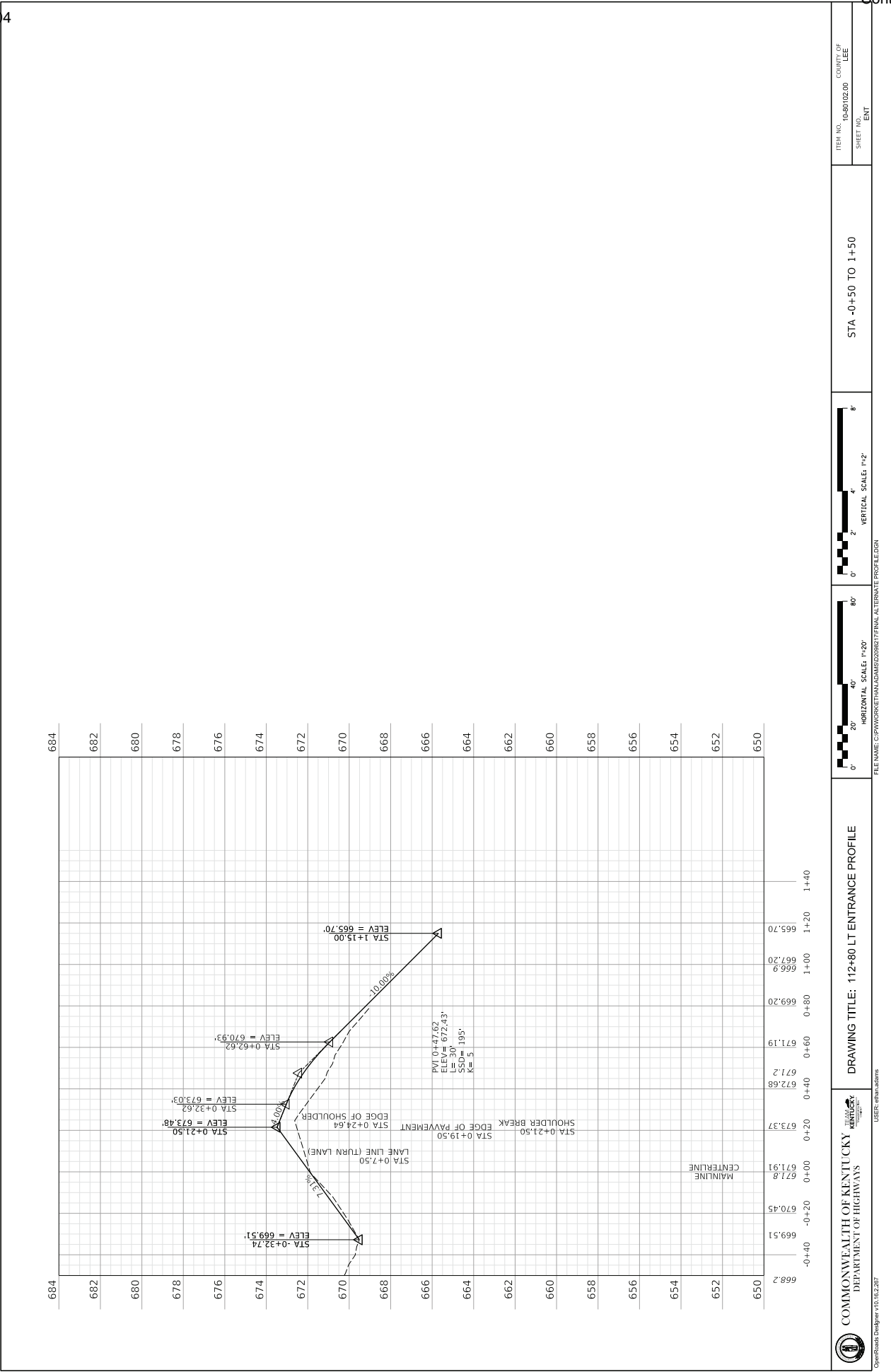
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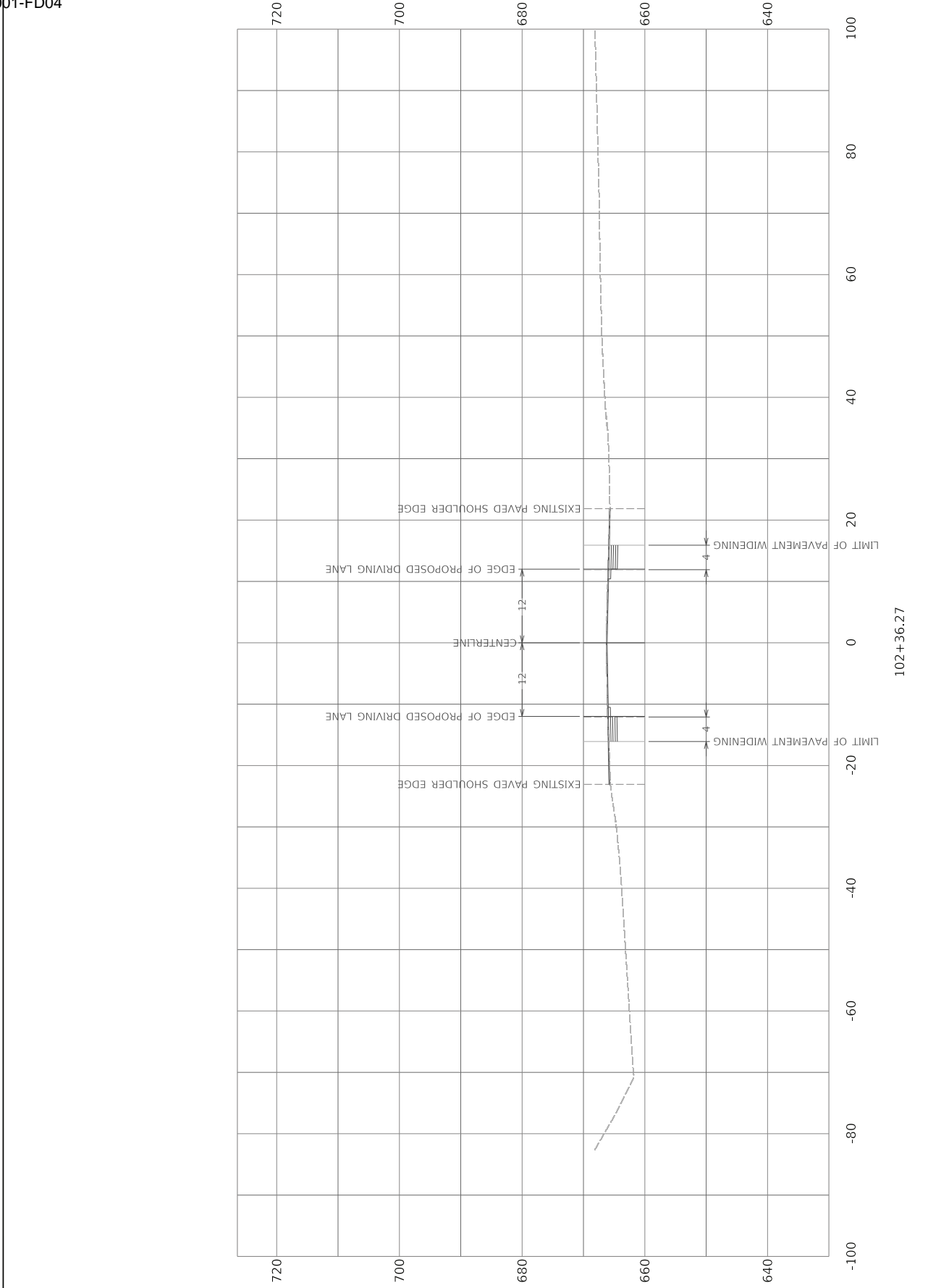
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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

FILE NAME: C:\P\WORK\KENTUCKY\JMS\222861\RMOT_1_20.DGN

USER: jms





ITEM NO. 10-80102.00	COUNTY OF LEE
SHEET NO. X1	

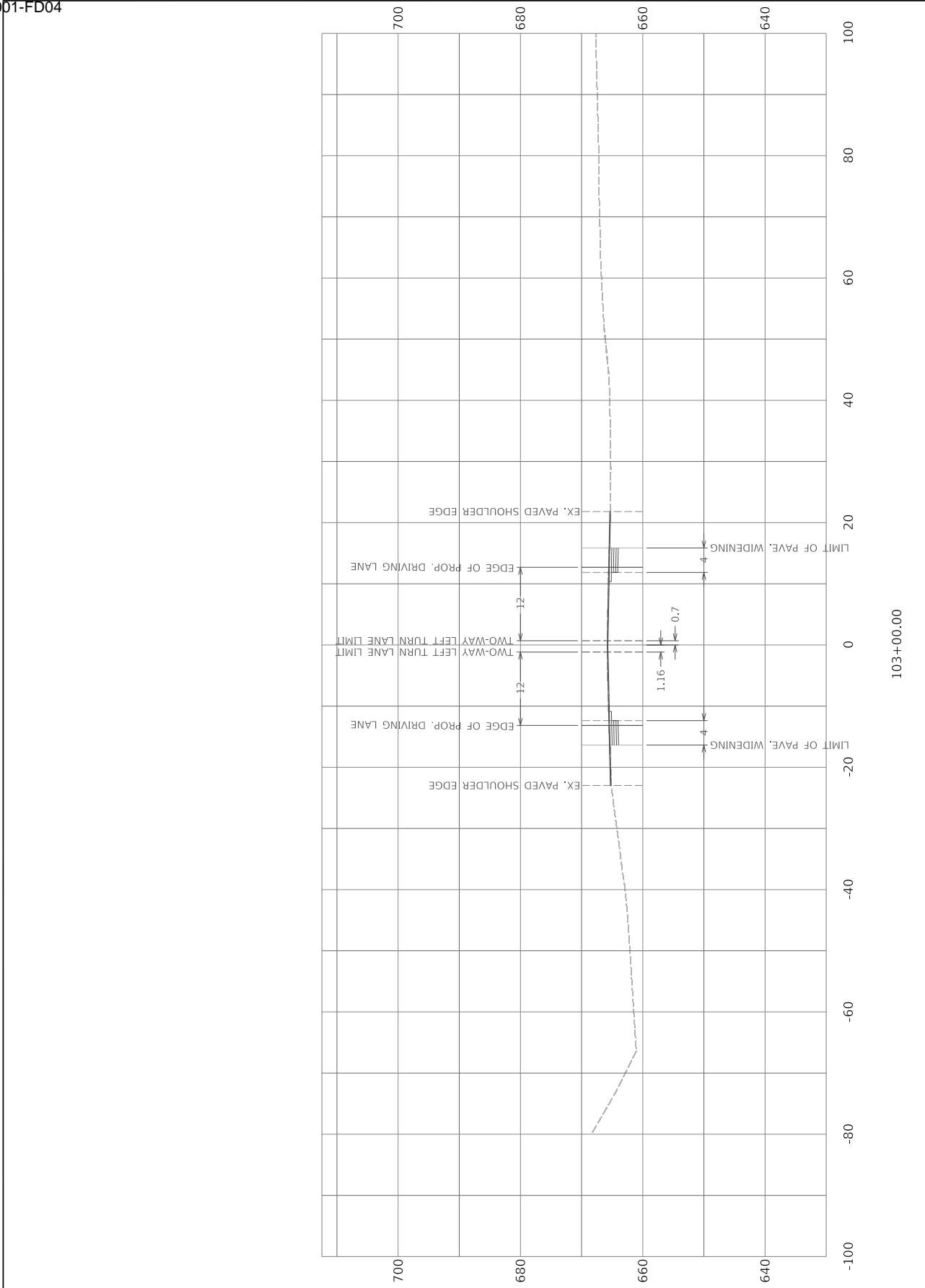
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HORIZONTAL SCALE: 1"=20'

DRAWING TITLE: X1
STA 102+36.27 TO 102+36.27

	COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS

OpenRoads Designer v10.12.024
FILE NAME: C:\P\WORK\ETHAN.ADAMS\200827\FINAL ALTERNATE.DGN





COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY
DESIGN

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

DRAWING TITLE: X2
STA 103+00.00 TO 103+00.00

ITEM NO.
10-80102.00
SHEET NO.
X2

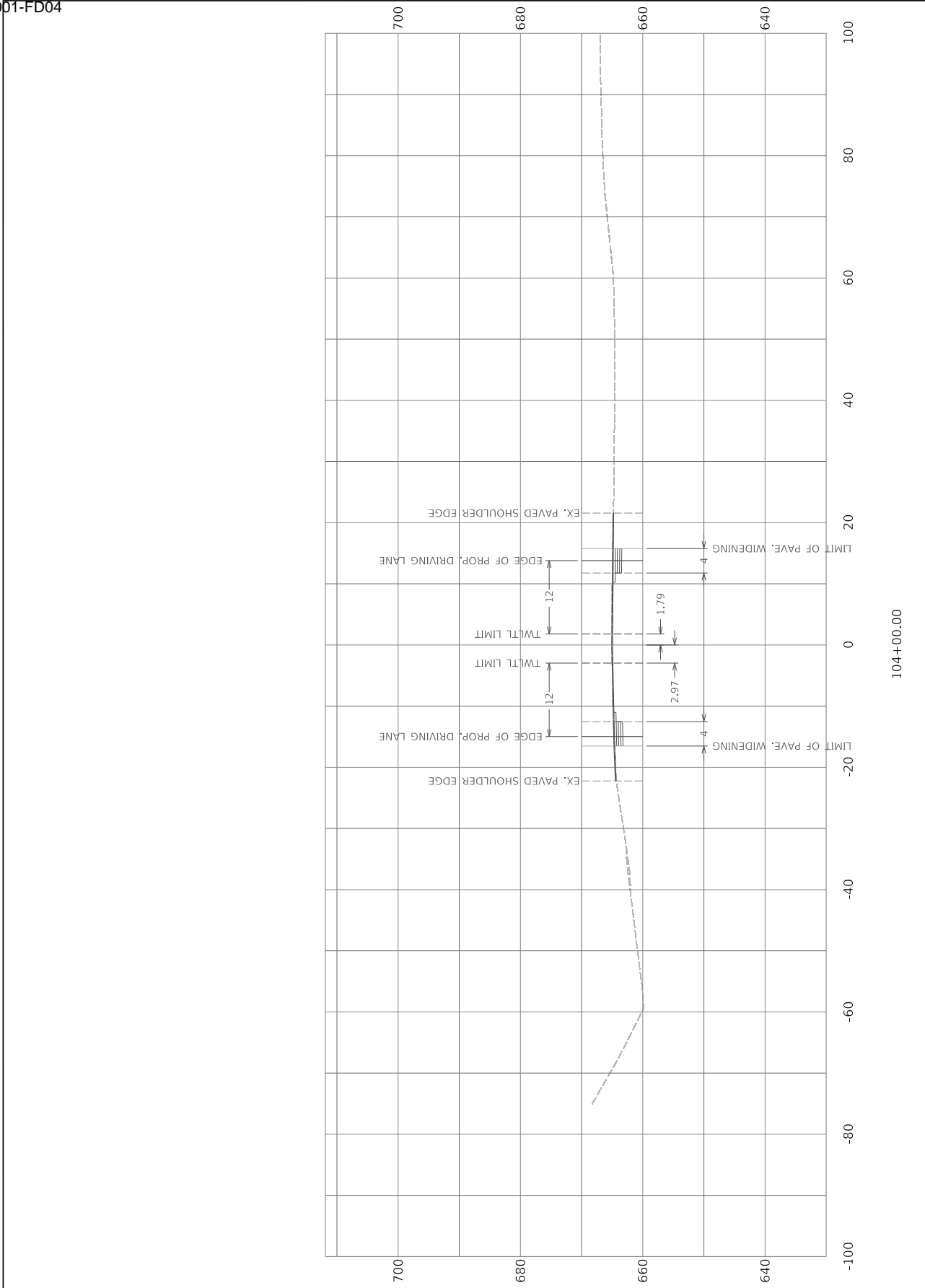
COUNTY OF
LEE




0' 20' 40' 80'

HORIZONTAL SCALE: 1"=20'

103+00.00



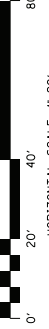


COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

DRAWING TITLE: X3
STA 104+00.00 TO 104+00.00

ITEM NO.
10-80102.00
SHEET NO.
X3

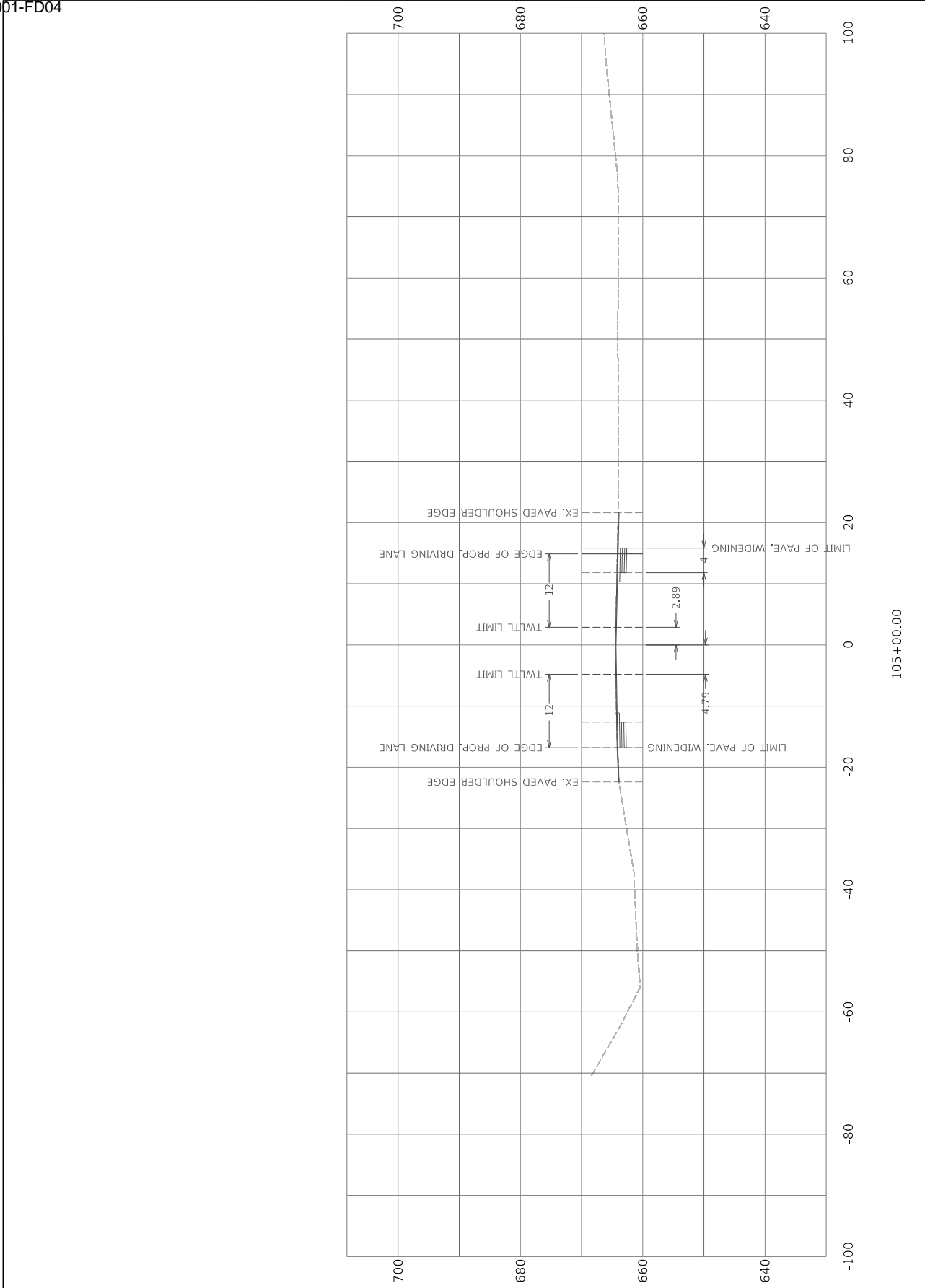
COUNTY OF
LEE



HORIZONTAL SCALE: 1"=20'

USER: ethan.adams

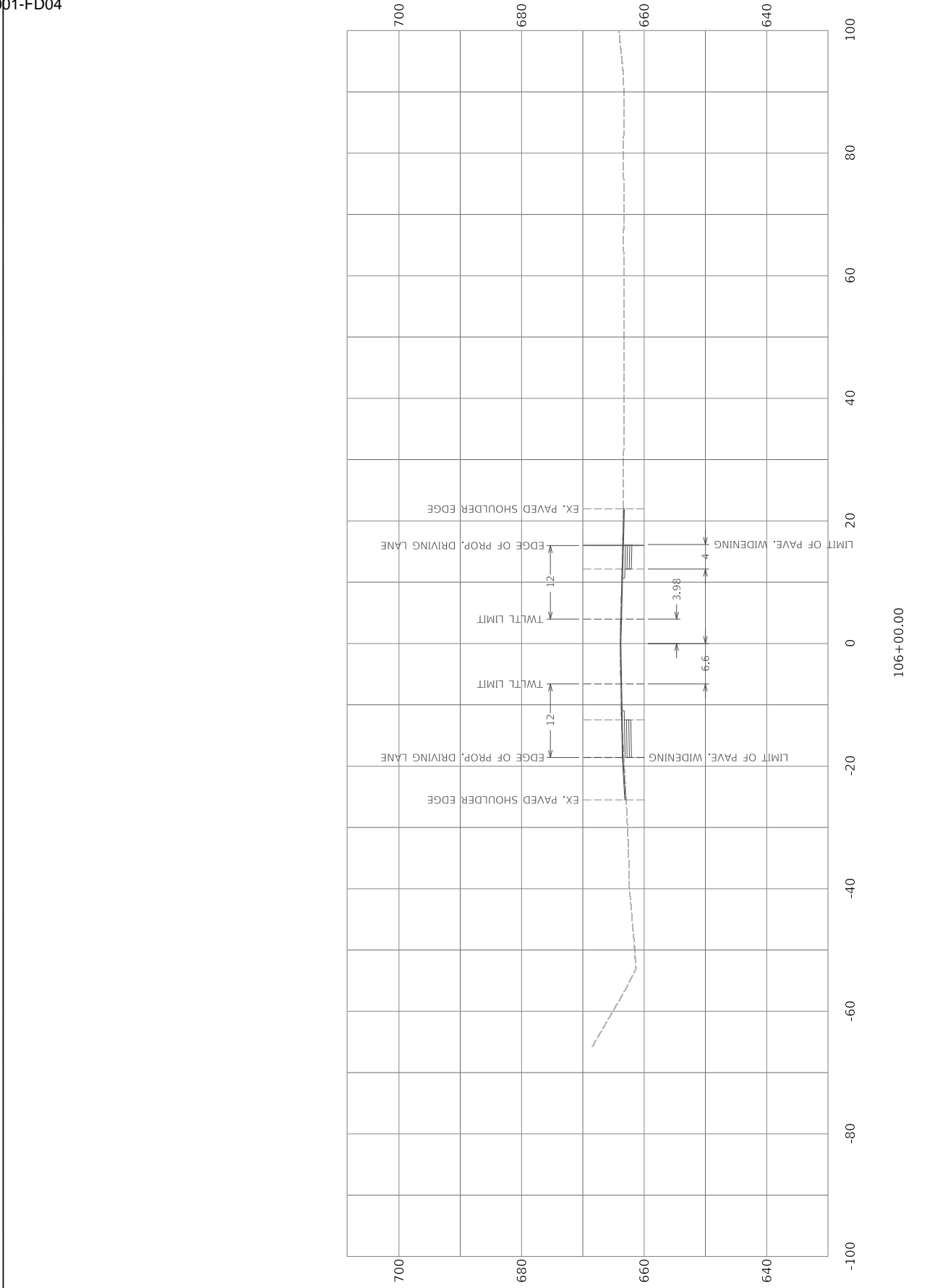
OpenRoads Designer v10.16.2.267
FILE NAME: C:\PWORK\ETHAN\ADAMS\2008217\FINAL ALTERNATE.DGN



	ITEM NO. 10-80102.00	COUNTY OF LEE
	SHEET NO. X4	

DRAWING TITLE: X4
STA 105+00.00 TO 105+00.00

	COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS	TEAM KENTUCKY DESIGN
		USER: ethan.adams





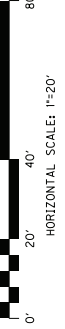
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

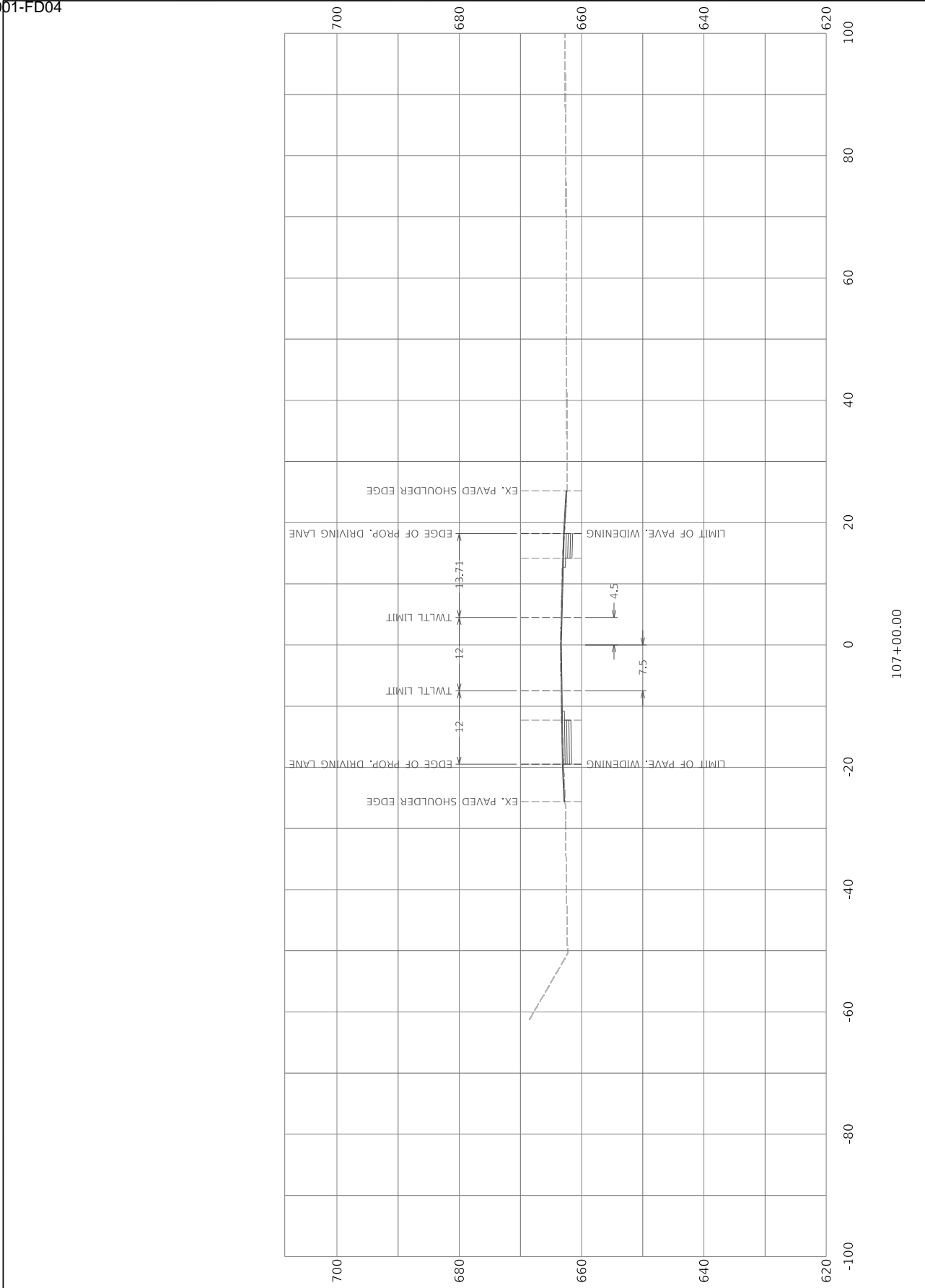
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STA 106+00.00 TO 106+00.00

ITEM NO.
10-80102.00

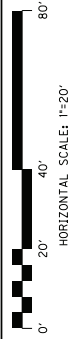
SHEET NO.
X5

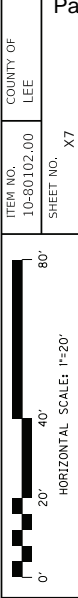
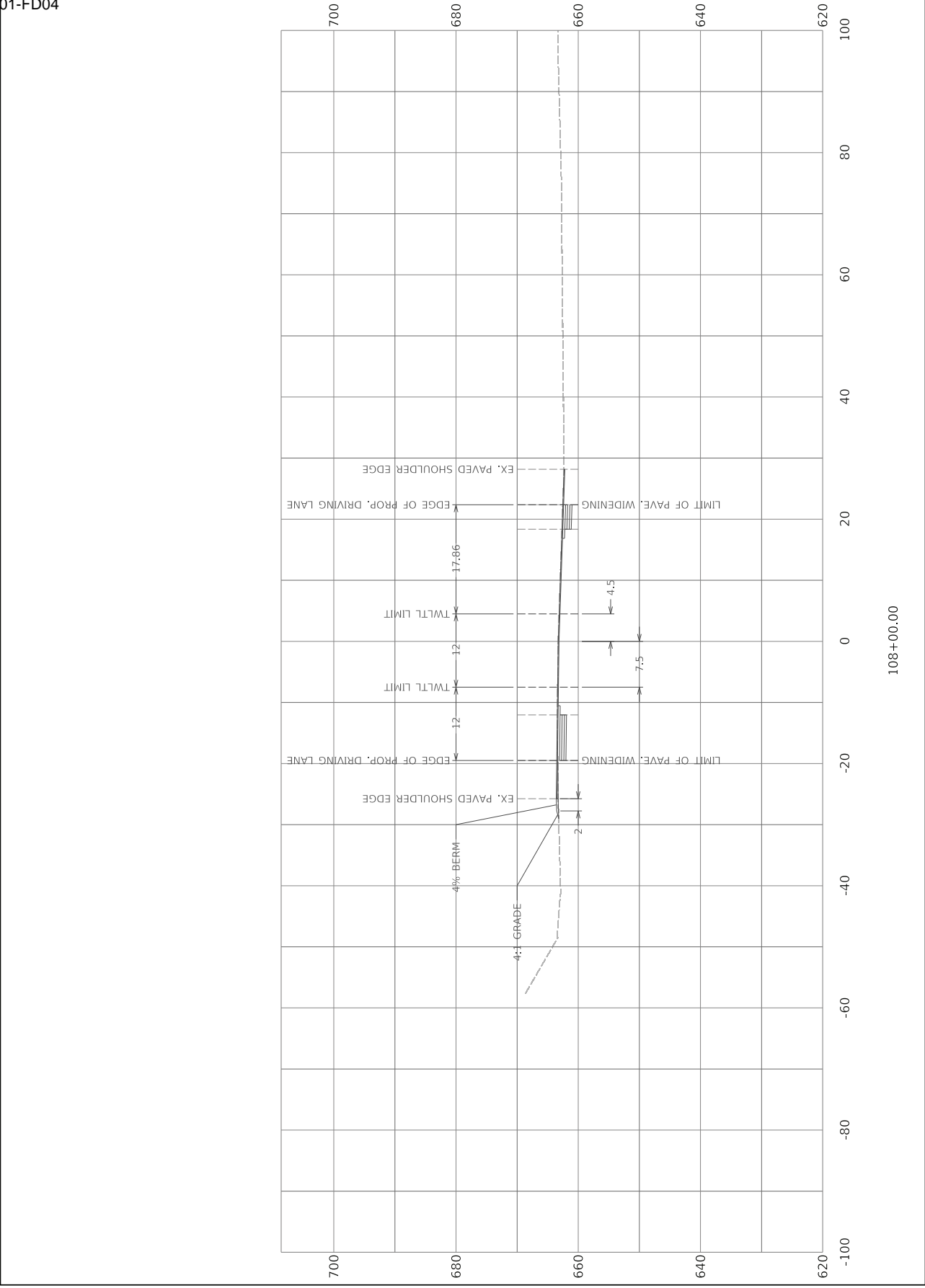
COUNTY OF
LEE





 COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS	 TEAM KENTUCKY 2024	DRAWING TITLE: X6 STA 107+00.00 TO 107+00.00	
		COUNTY OF LEE ITEM NO. 10-80102.00 SHEET NO. X6	





ITEM NO.
10-80102.00
SHEET NO.
X7

COUNTY OF
LEE

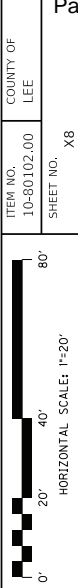
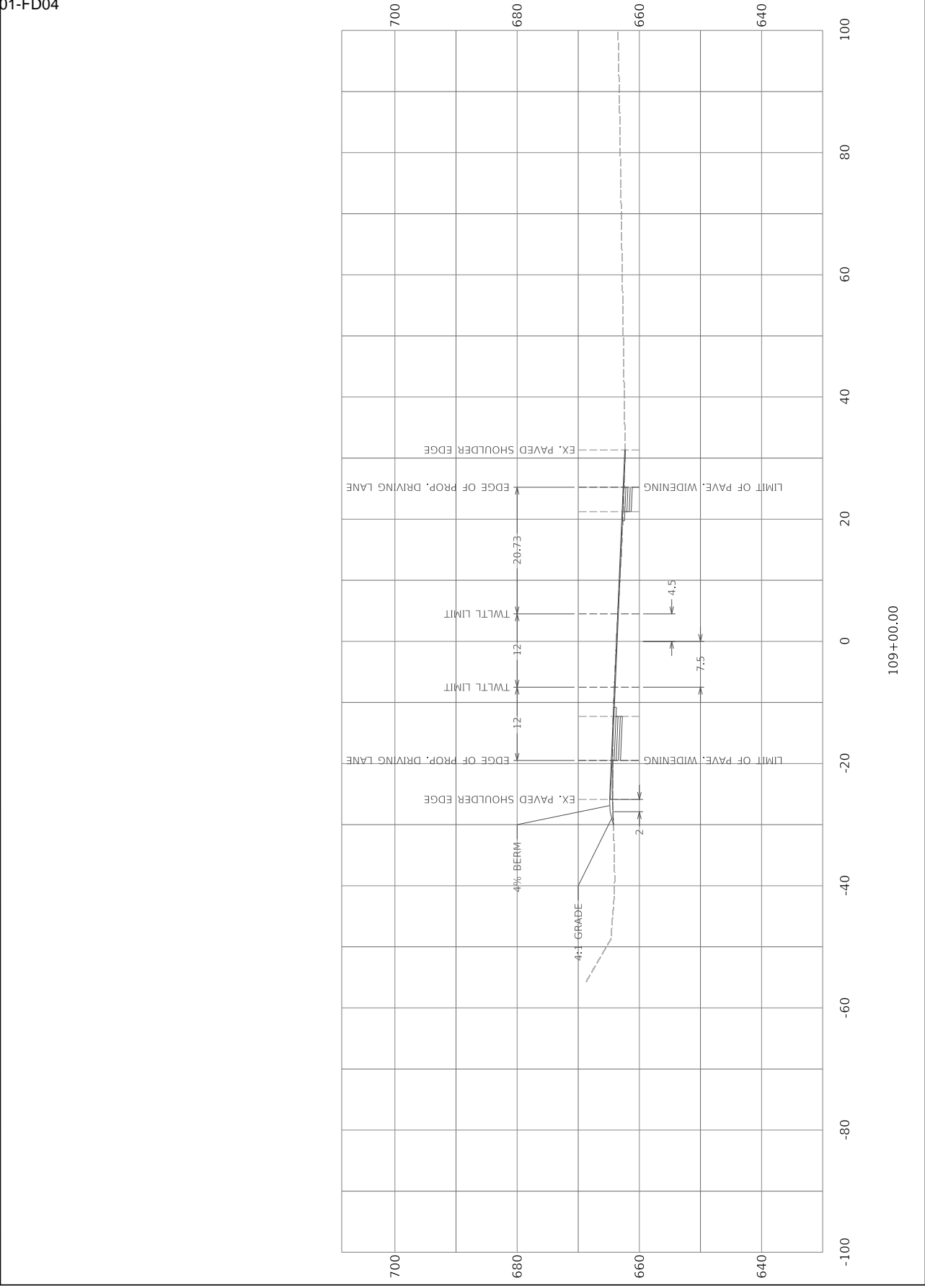
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY
CONSTRUCTION

OpenRoads Designer v10.12.024
FILE NAME: C:\P\WORK\KETHAN\ADAMS\2008217\FINAL ALTERNATE.DGN

USER: ethan.adams

DRAWING TITLE: X7
STA 108+00.00 TO 108+00.00

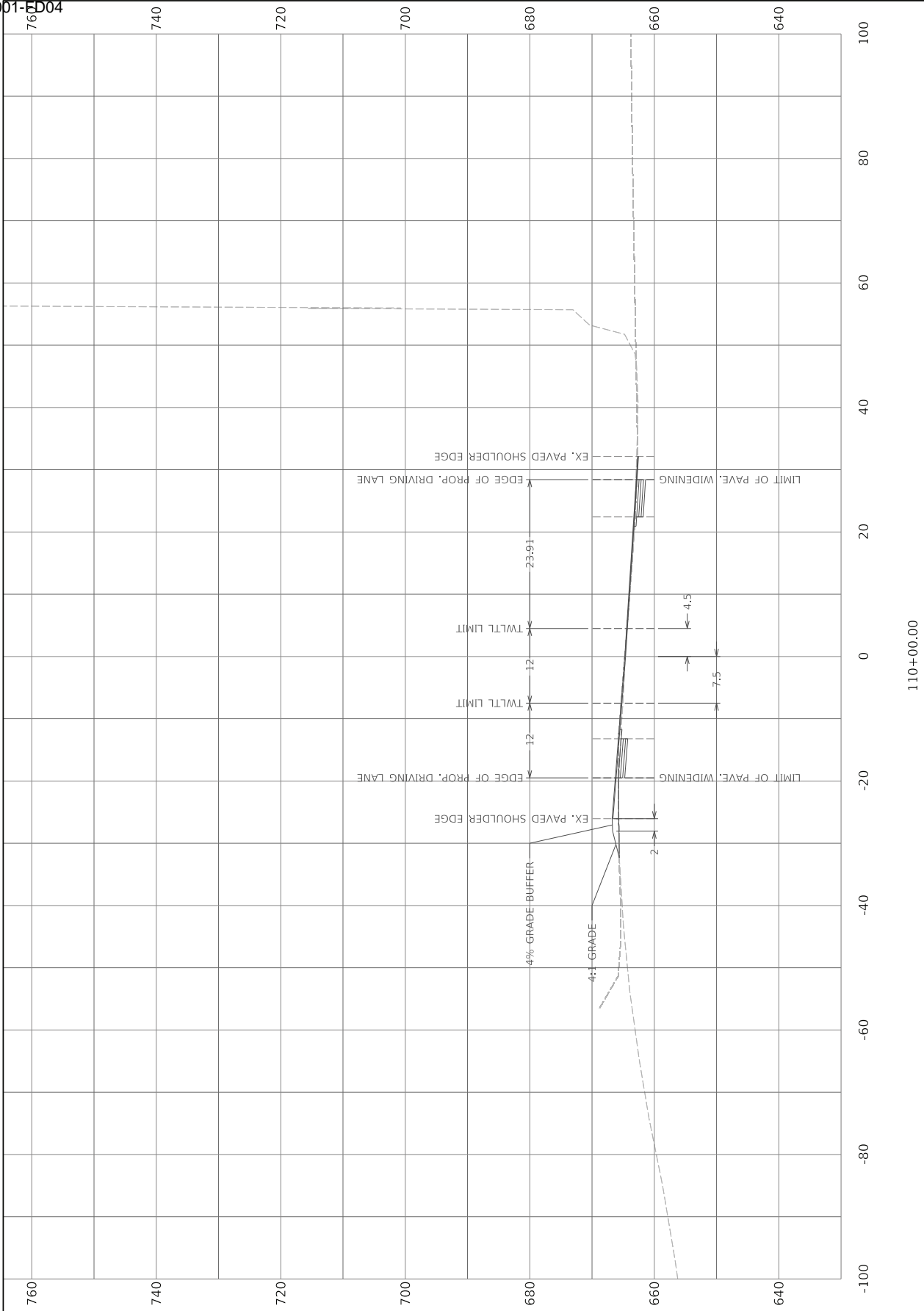


**COMMONWEALTH OF KENTUCKY**
DEPARTMENT OF HIGHWAYS

DRAWING TITLE: X8
STA 109+00.00 TO 109+00.00

ITEM NO. 10-80102.00
SHEET NO. X8

COUNTY OF LEE



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

DRAWING TITLE: X9
STA 110+00.00 TO 110+00.00

110+00.00

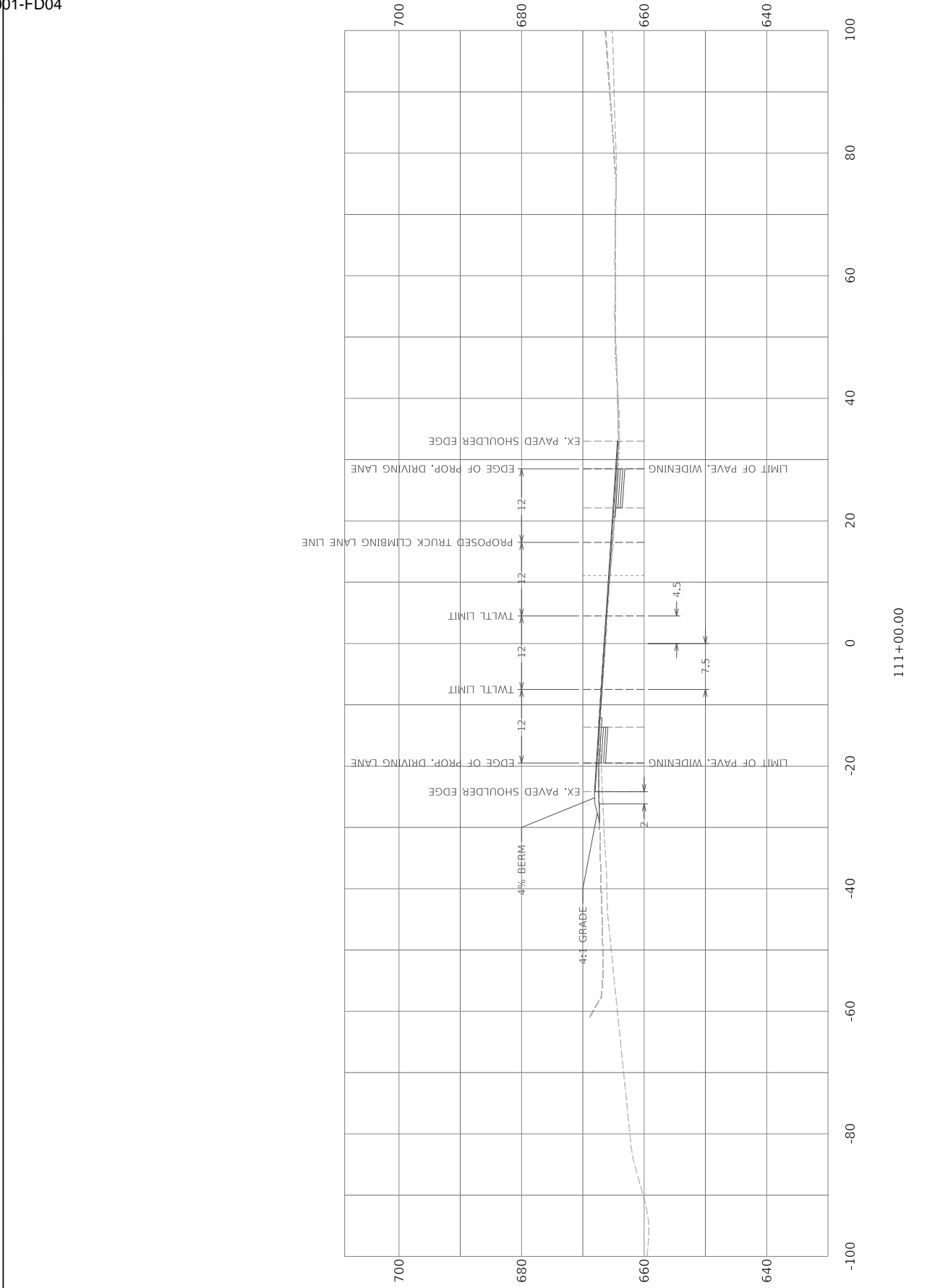
ITEM NO.
10-80102.00

COUNTY OF
LEE

SHEET NO.
X9

HORIZONTAL SCALE: 1"=20'

0' 20' 40' 80'



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY
DESIGN

OpenRoads Designer v10.16.2.267
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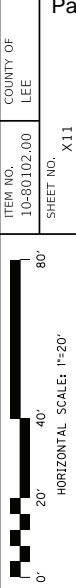
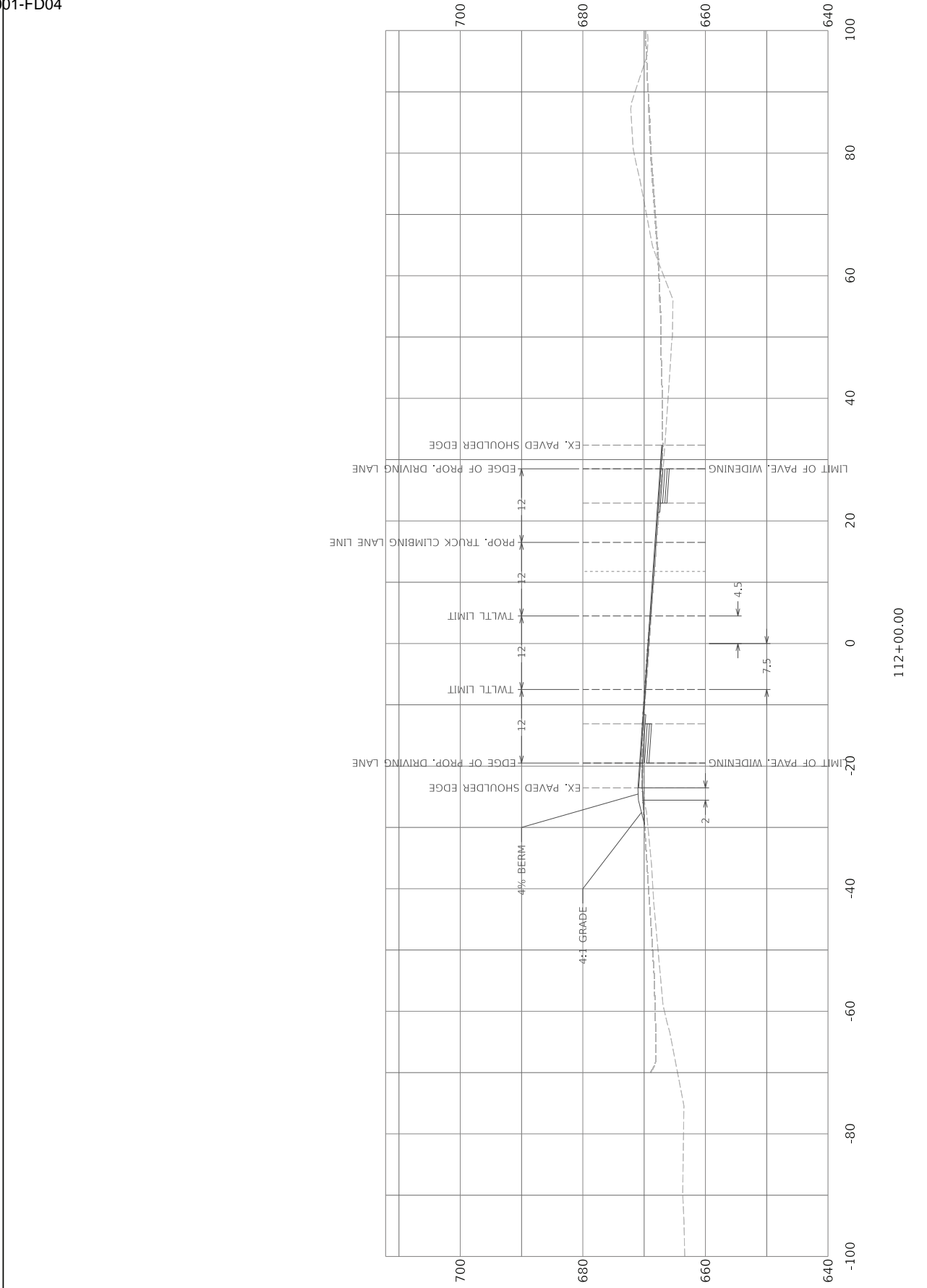
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STA 111+00.00 TO 111+00.00

ITEM NO.
10-80102.00

SHEET NO.
X10

COUNTY OF
LEE

HORIZONTAL SCALE: 1"=20'



HORIZONTAL SCALE: 1"=20'

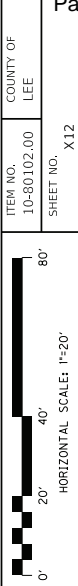
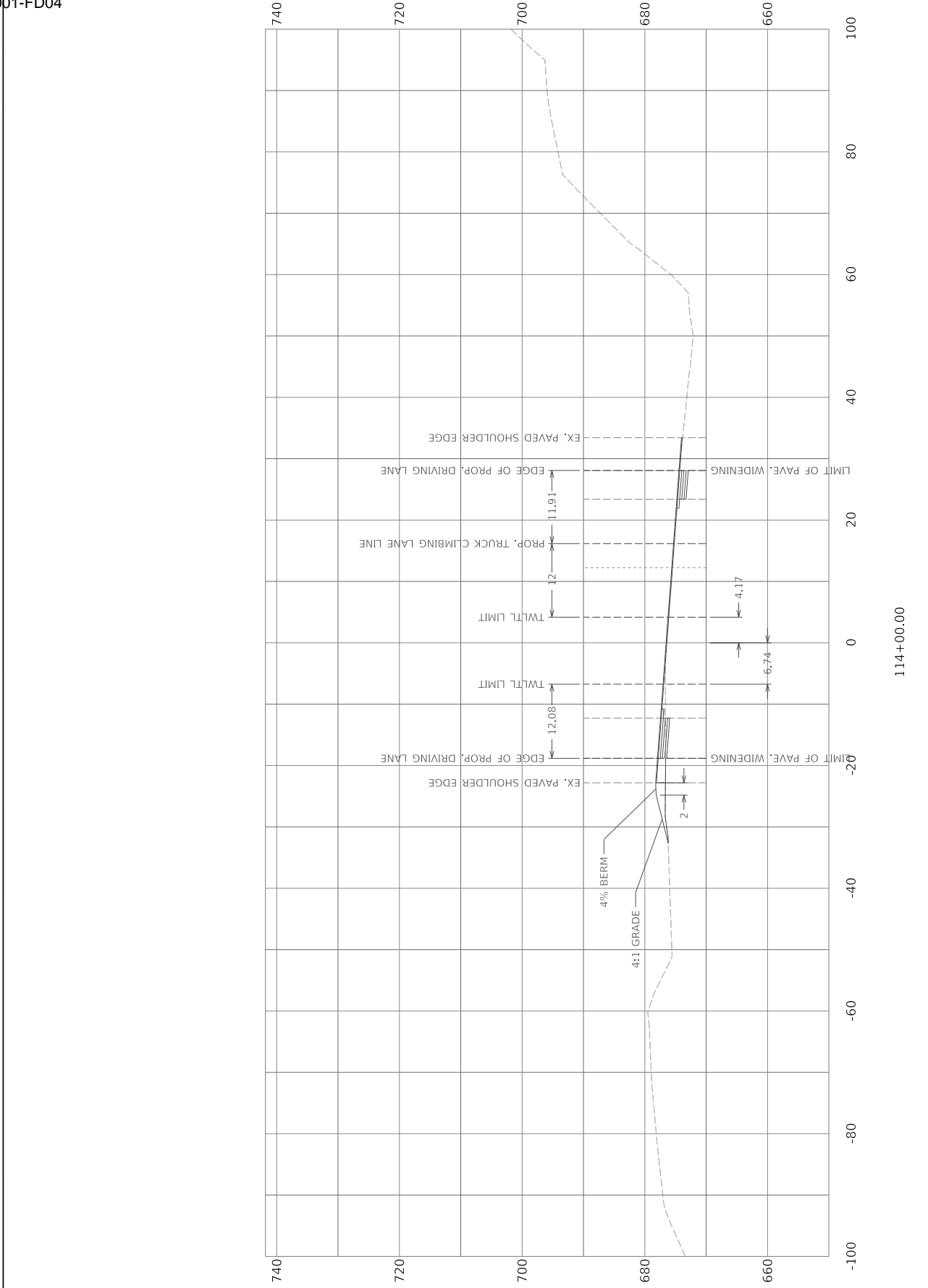
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STA 112+00.00 TO 112+00.00

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY
DESIGN

USER: ethan.adams

OpenRoads Designer v10.12.024
FILE NAME: C:\P\WORK\ETHAN.ADAMS\200827\FINAL ALTERNATE.DGN



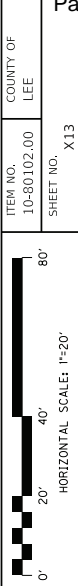
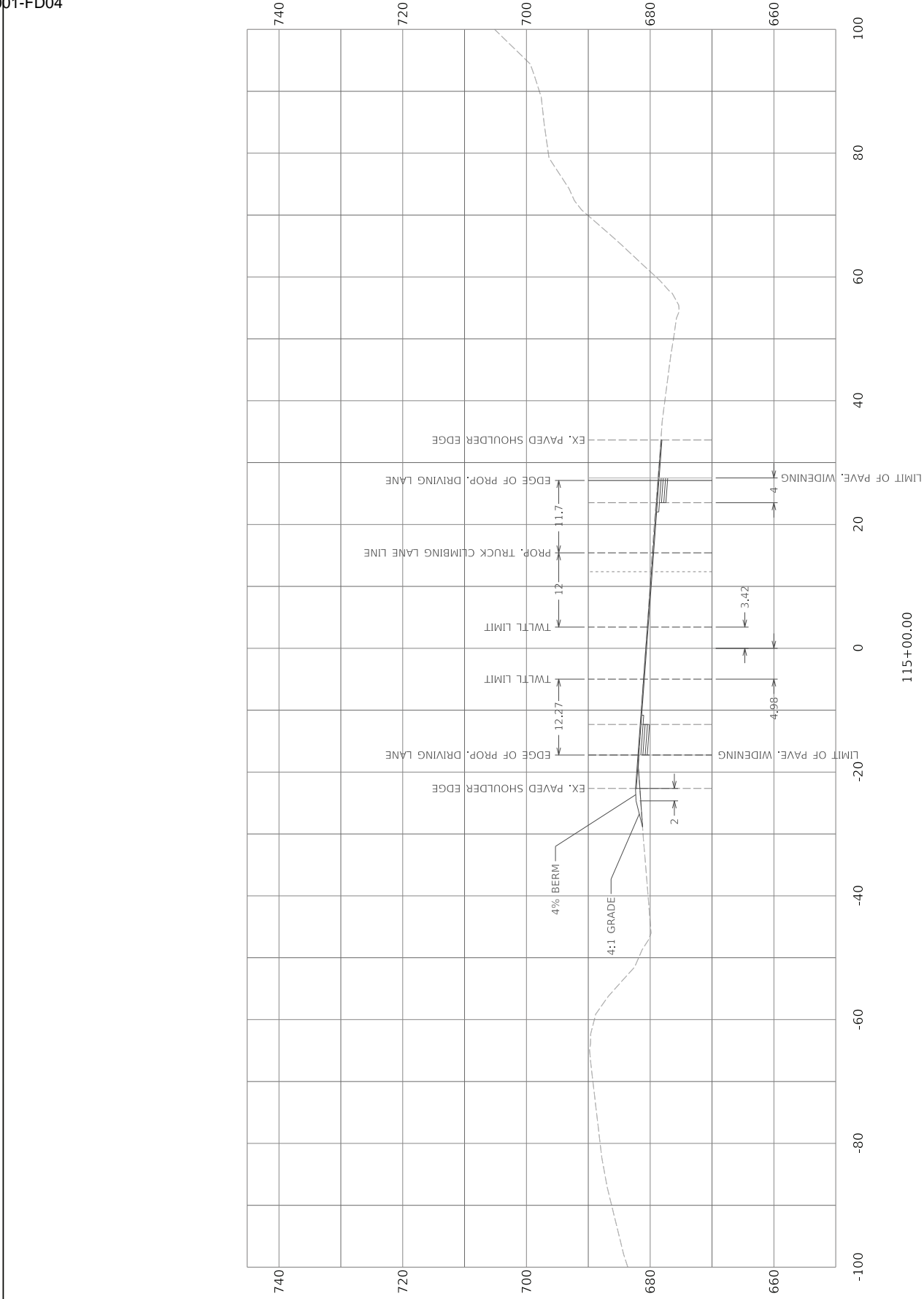
ITEM NO. 10-80102.00
SHEET NO. X12
HORIZONTAL SCALE: 1"=20'

DRAWING TITLE: X12
STA 114+00.00 TO 114+00.00

**COMMONWEALTH OF KENTUCKY**
DEPARTMENT OF HIGHWAYS

**TEAM KENTUCKY**
CONSTRUCTION

USER: scott.weddington



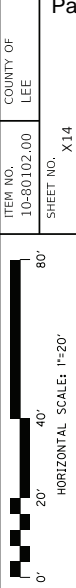
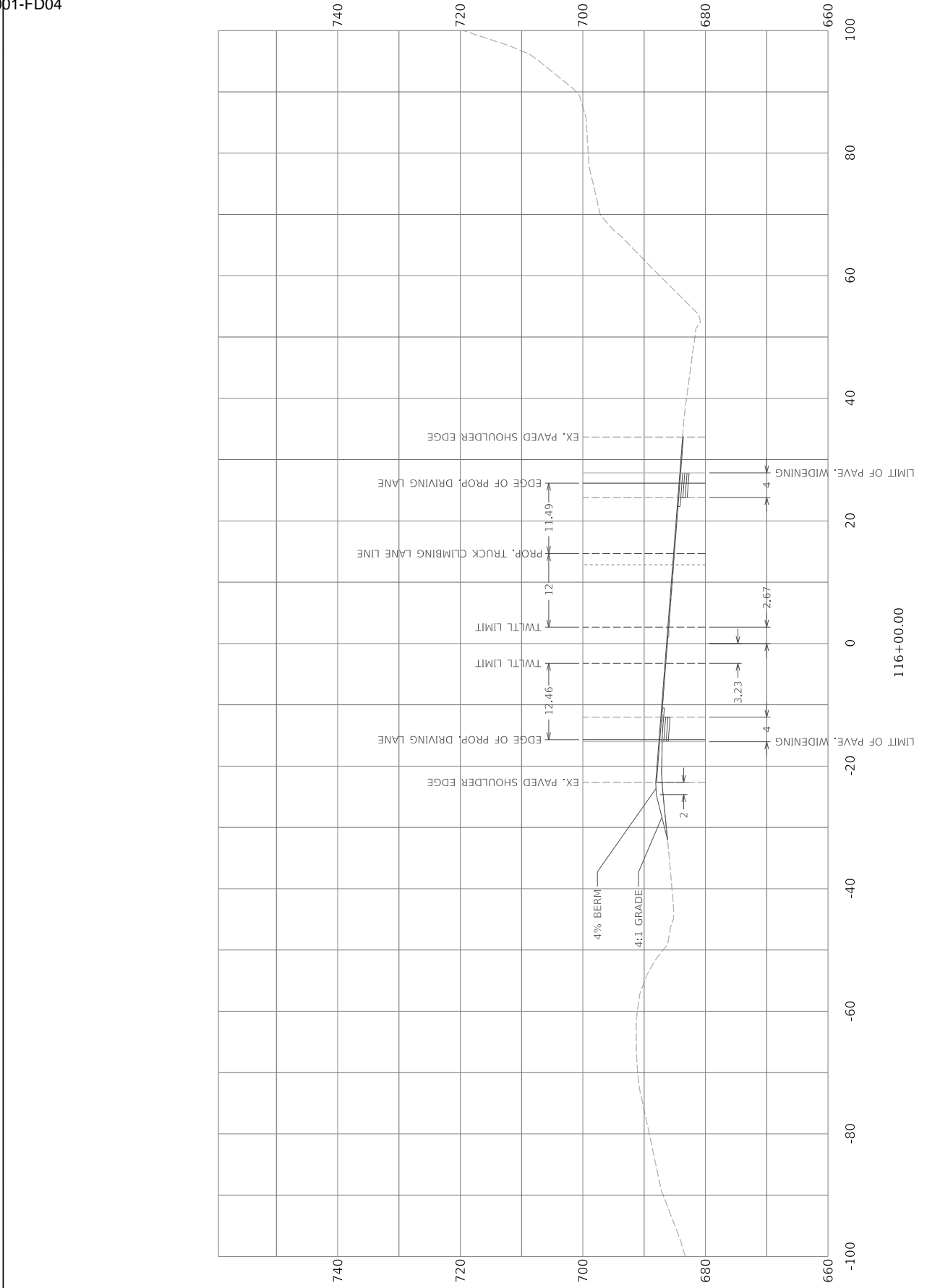
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ITEM NO. 10-80102.00
SHEET NO. X13

COUNTY OF LEE

DRAWING TITLE: X13
STA 115+00.00 TO 115+00.00

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



ITEM NO. 10-80102.00
SHEET NO. X14
COUNTY OF LEE

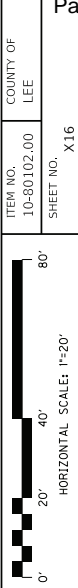
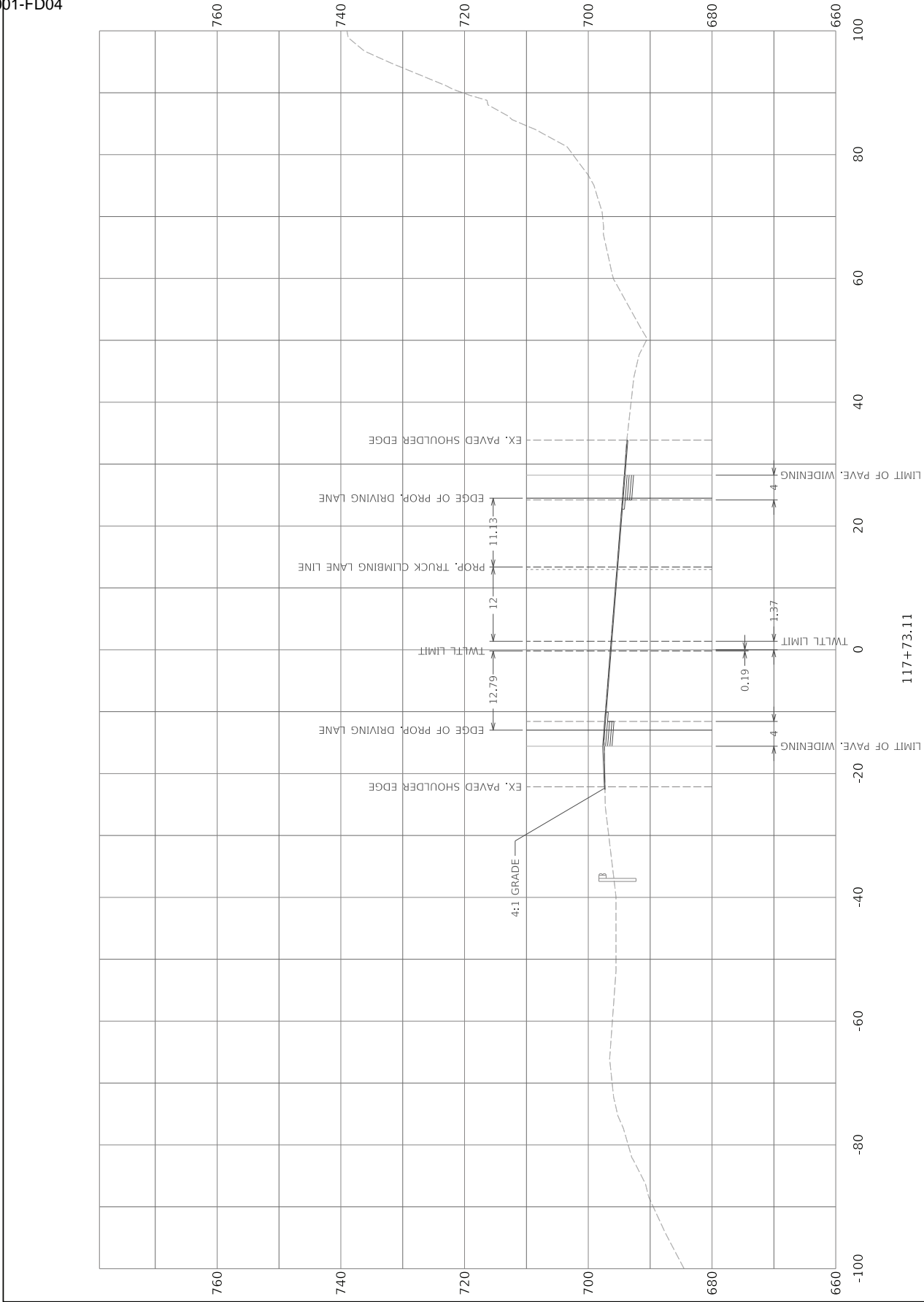
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY
DESIGN-BUILD

DRAWING TITLE: X14
STA 116+00.00 TO 116+00.00

USER: ethan.adams



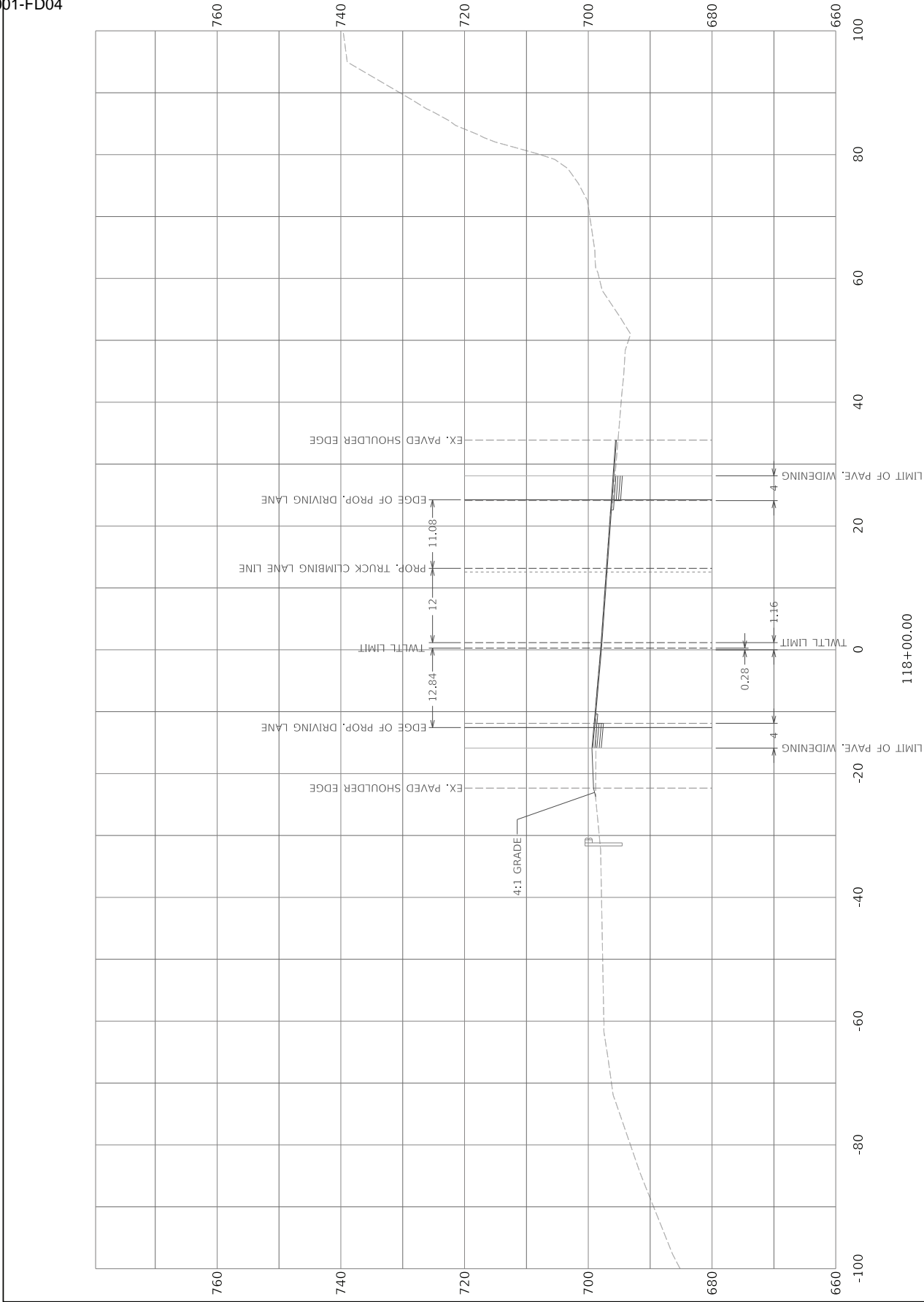


ITEM NO.
10-80102.00
SHEET NO.
X16

HORIZONTAL SCALE: 1"=20'

DRAWING TITLE: X16
STA 117+73.11 TO 117+73.11

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

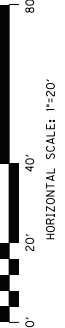


DRAWING TITLE:
STA. 118+00.00 TO STA. 118+00.00

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

ITEM NO.
XX-XXXX.XX

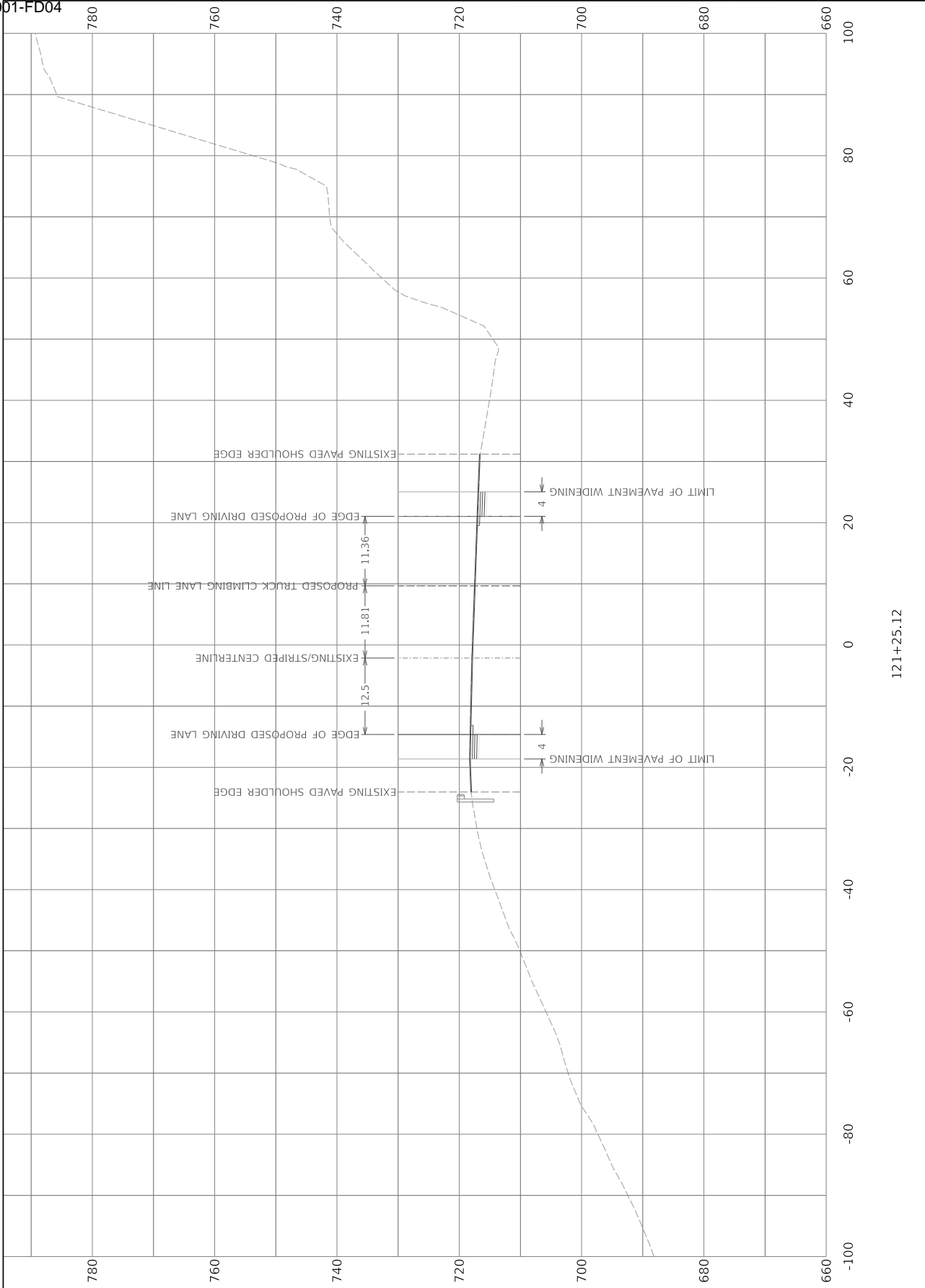
SHEET NO.
X018




OpenRoads Designer v10.12.024
FILE NAME: C:\P\WORK\MIN\JANG\020827\FINAL ALTERNATE.DGN

USER: min.jang





121+25.12



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY
DESIGN-BUILD

USER: scott.weddington

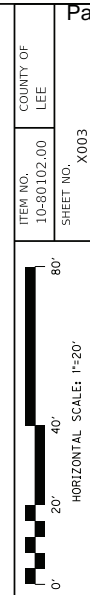
DRAWING TITLE:
STA TO

ITEM NO.
10-80102.00

COUNTY OF
LEE

SHEET NO.
121+25.12

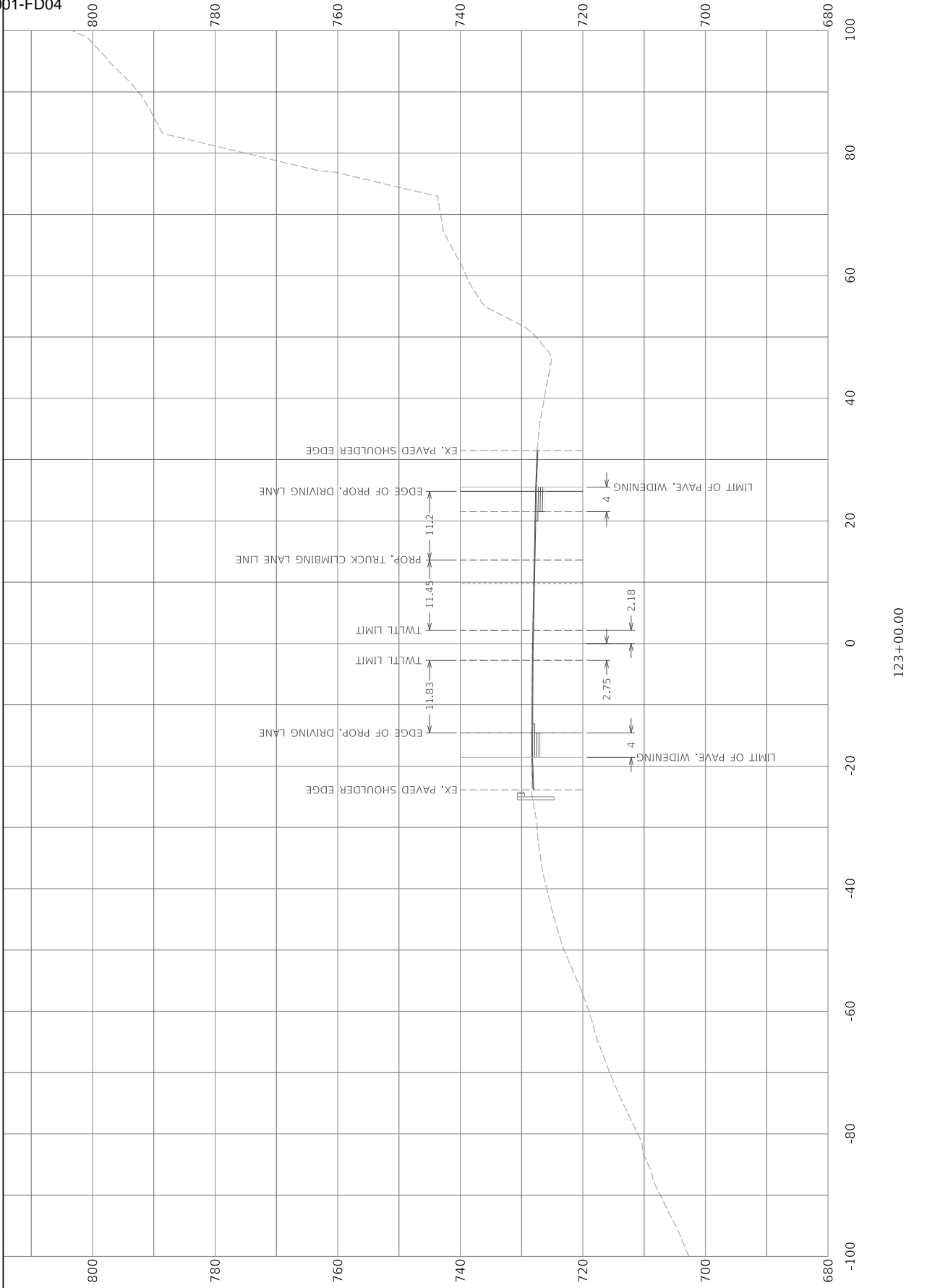
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DRAWING TITLE:
STA TO



OpenRoads Designer v10.12.02.4
FILE NAME: C:\PWORK\MIN_JIANG\ID2286019\WORKING FILE 2D.DGN
USER: min.jiang



123+00.00

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:
STA TO

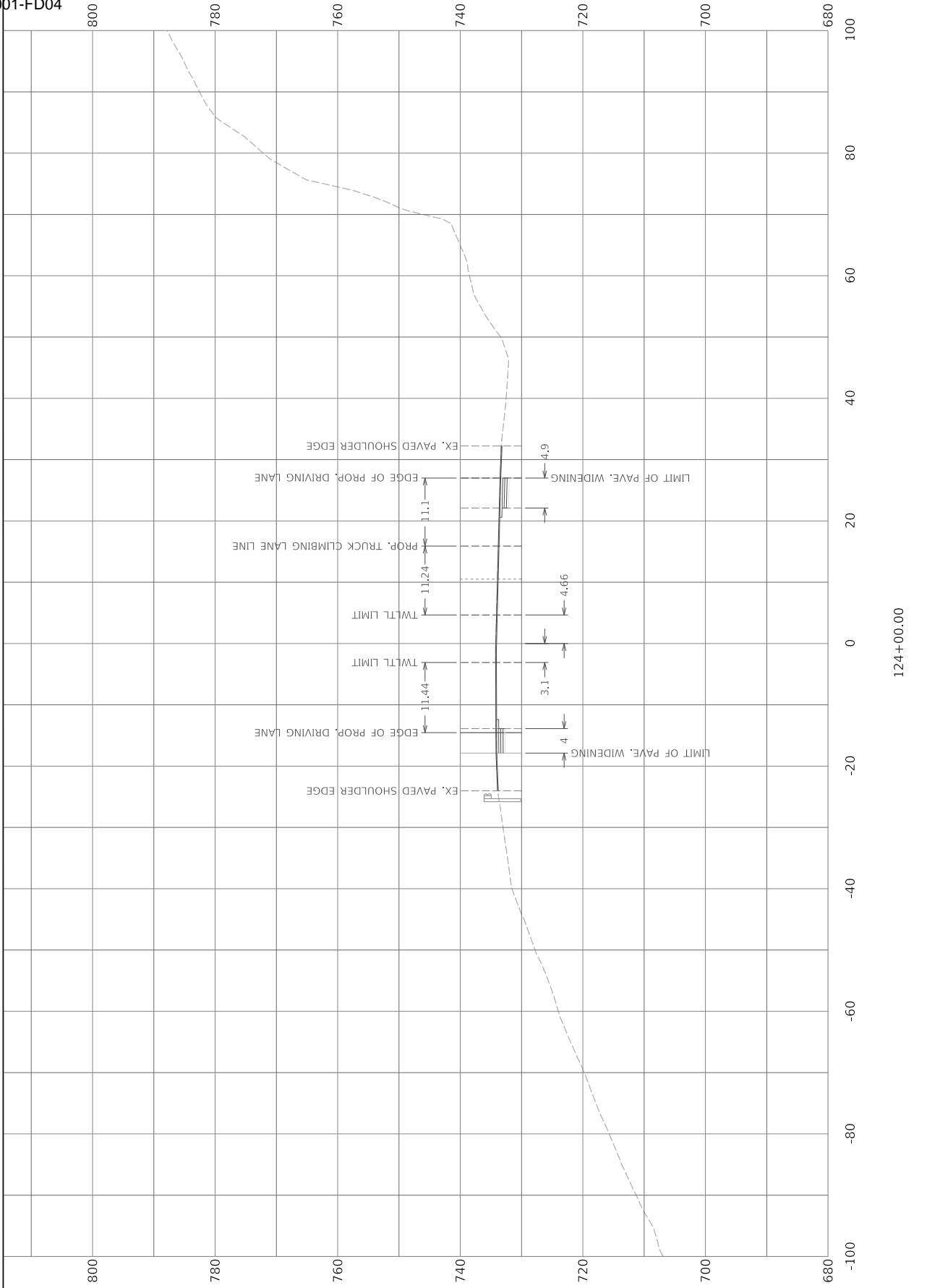
ITEM NO.
10-80102.00

COUNTY OF
LEE


SHEET NO.
X004

HORIZONTAL SCALE: 1"=20'


Contract ID: 241001



124+00.00



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



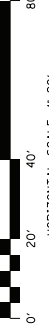
TEAM
KENTUCKY

DRAWING TITLE:
STA TO

ITEM NO.
10-80102.00

COUNTY OF
LEE

SHEET NO.
X005



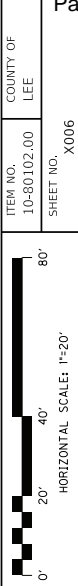
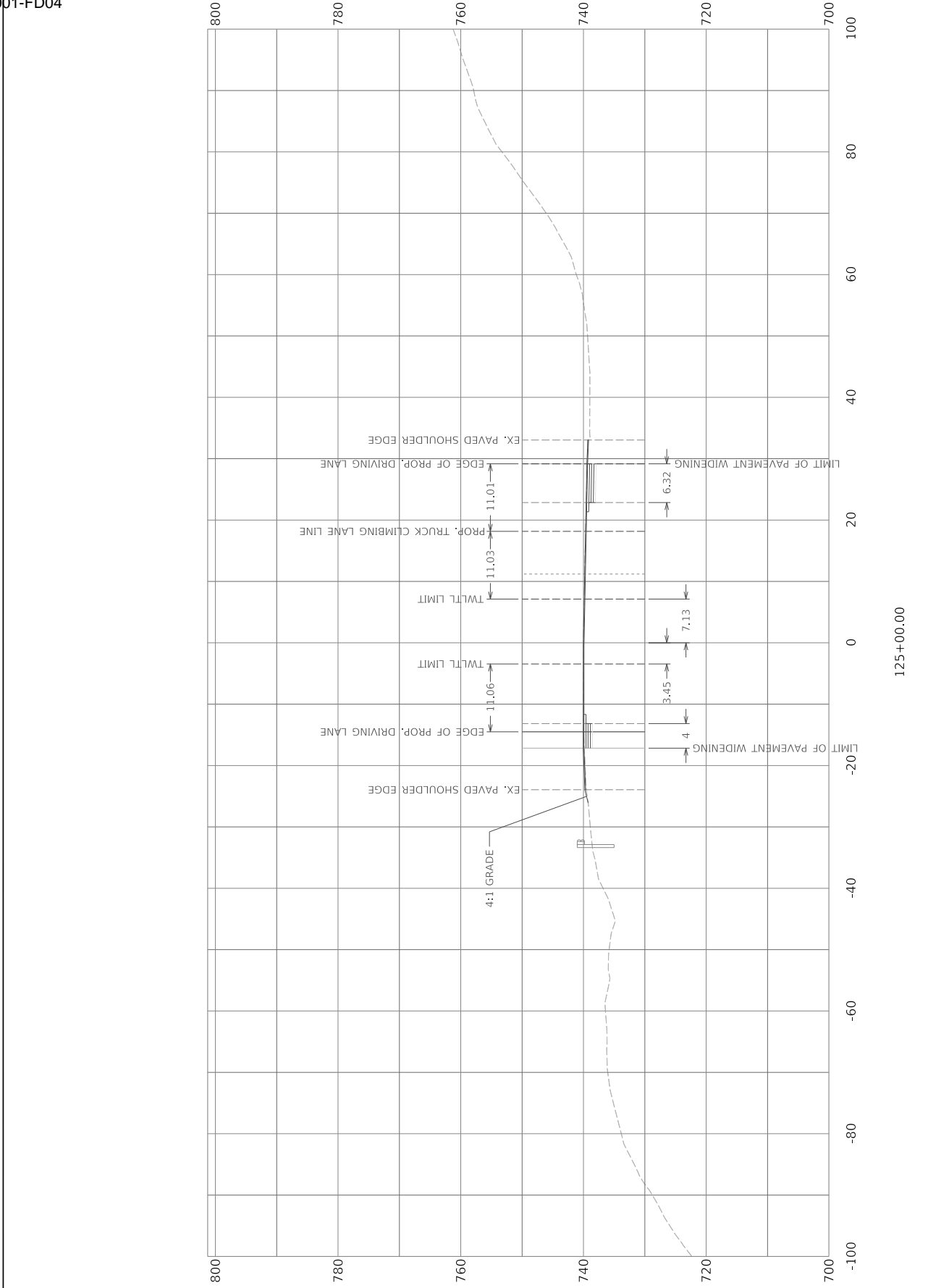
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HORIZONTAL SCALE: 1"=20'

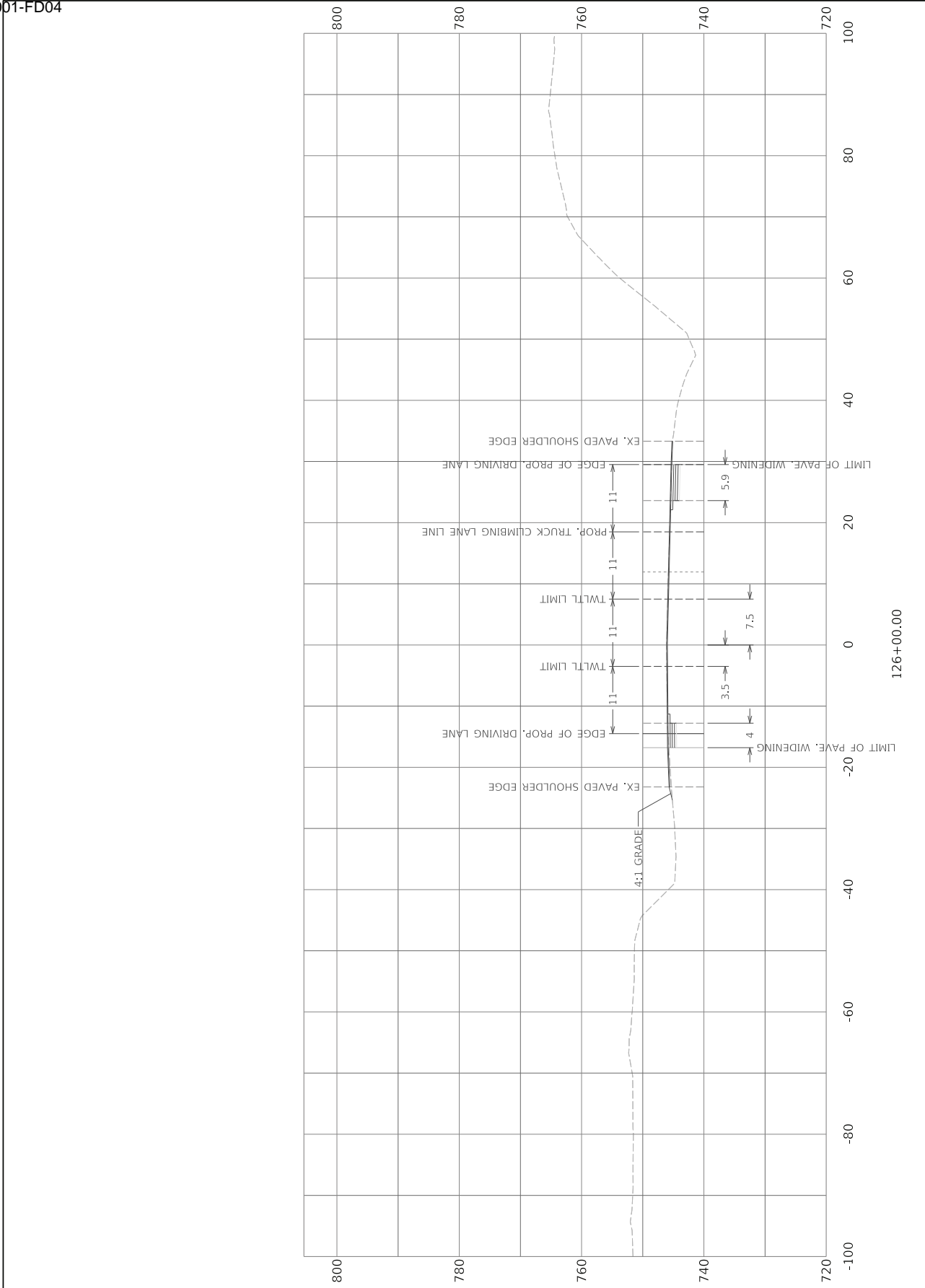
OpenRoads Designer v10.12.024

FILE NAME: C:\PW\WORK\MIN\JANG\02286019\WORKING_FILE_20.DGN

USER: min.jang



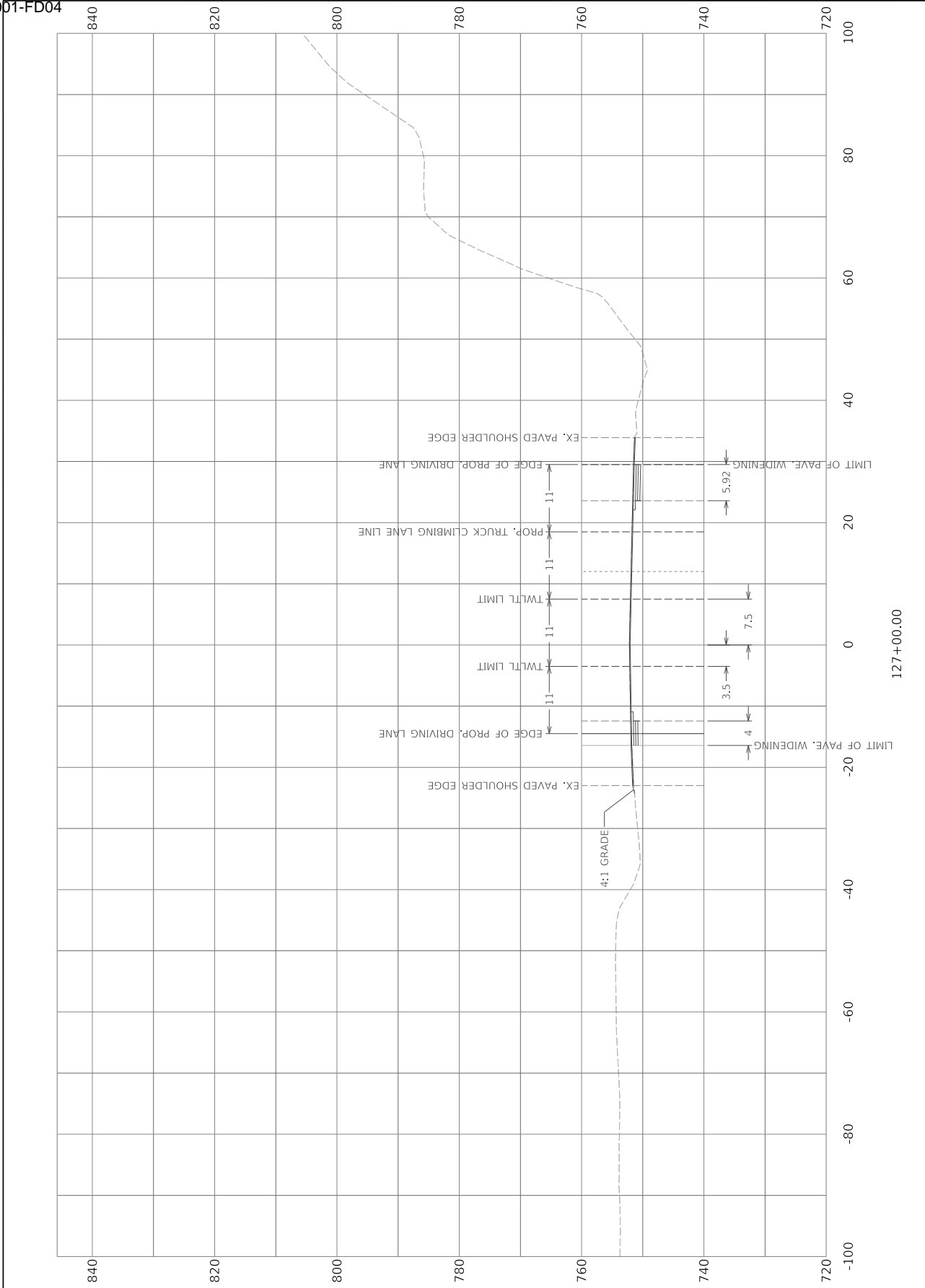
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		ITEM NO. 10-80102.00	COUNTY OF LEE
		SHEET NO. X006	



	ITEM NO. 10-80102.00	COUNTY OF LEE
	SHEET NO. X007	

HORIZONTAL SCALE: 1"=20'

	COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS	DRAWING TITLE: STA TO



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:
STA TO

127+00.00

ITEM NO.
10-80102.00

COUNTY OF
LEE

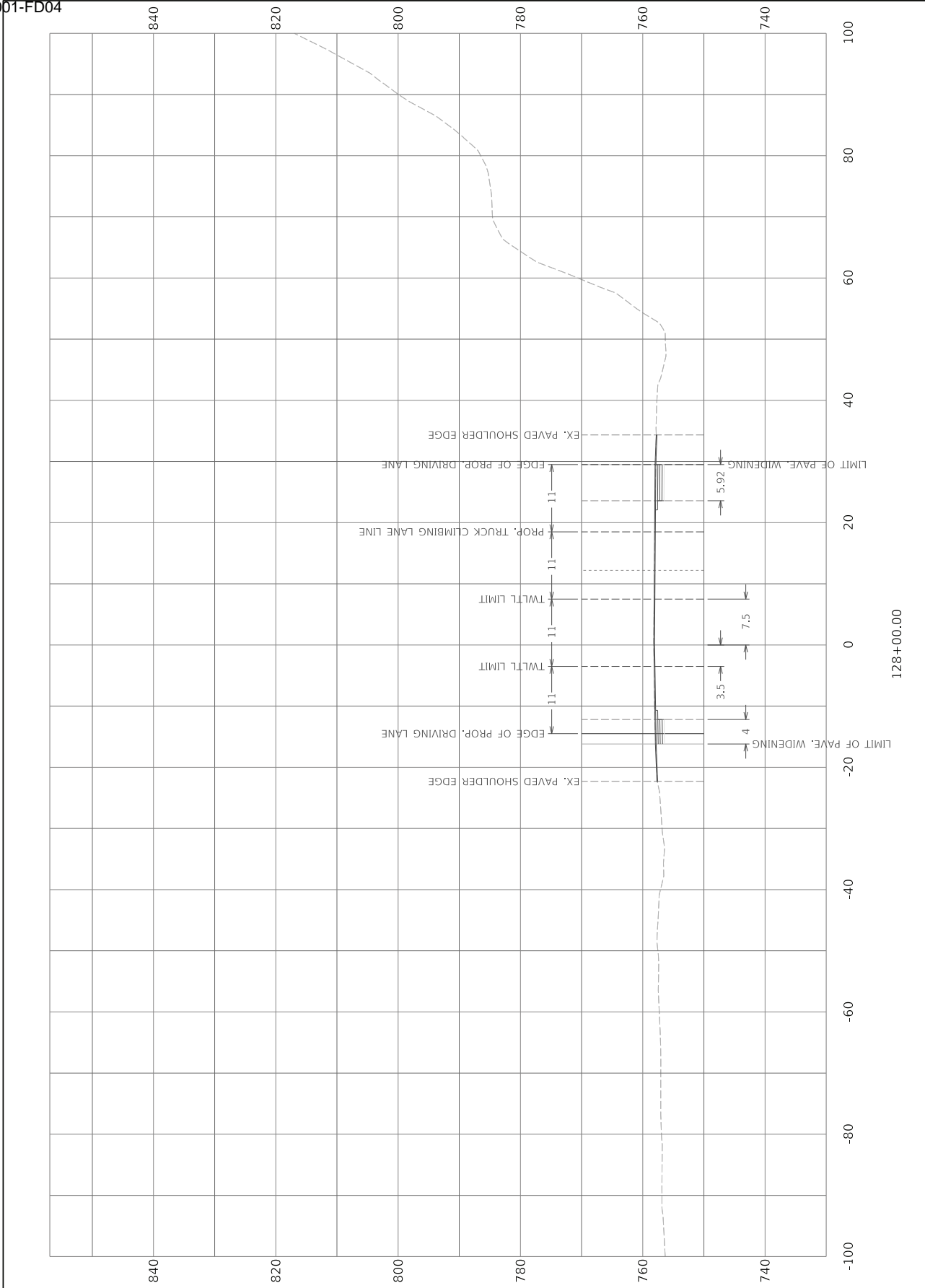
SHEET NO.
X008

0' 20' 40' 80'

HORIZONTAL SCALE: 1"=20'

USER: min.jiang

OpenRoads Designer v10.12.024
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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY

USER: scott.weddington

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STA TO

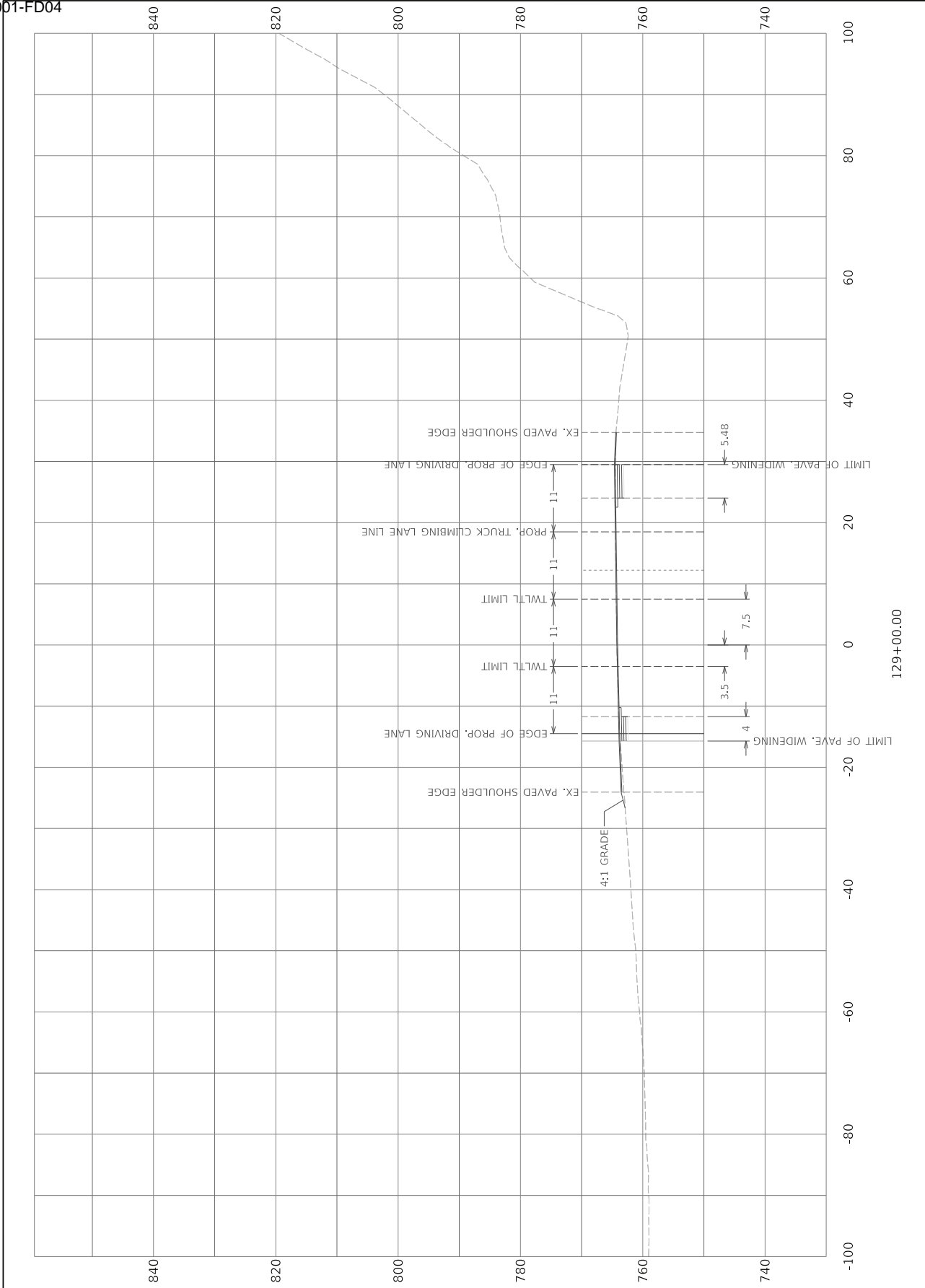
ITEM NO.
10-80102.00

COUNTY OF
LEE

SHEET NO.
X009

HORIZONTAL SCALE: 1"=20'

80'



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

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129+00.00

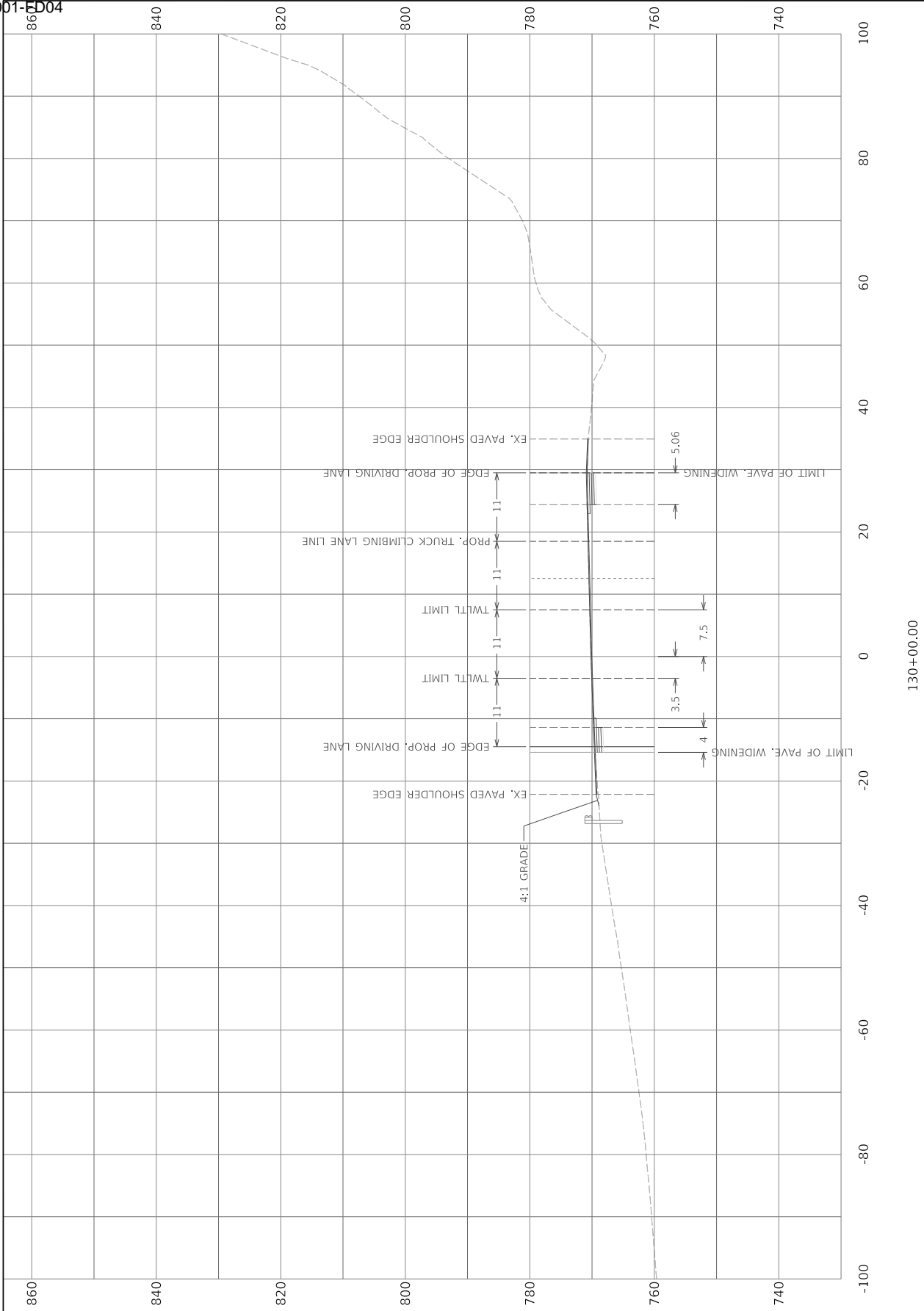
ITEM NO.
10-80102.00

COUNTY OF
LEE

SHEET NO.
X010

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HORIZONTAL SCALE: 1"=20'



ITEM NO.
10-80102.00

COUNTY OF
LEE

SHEET NO.
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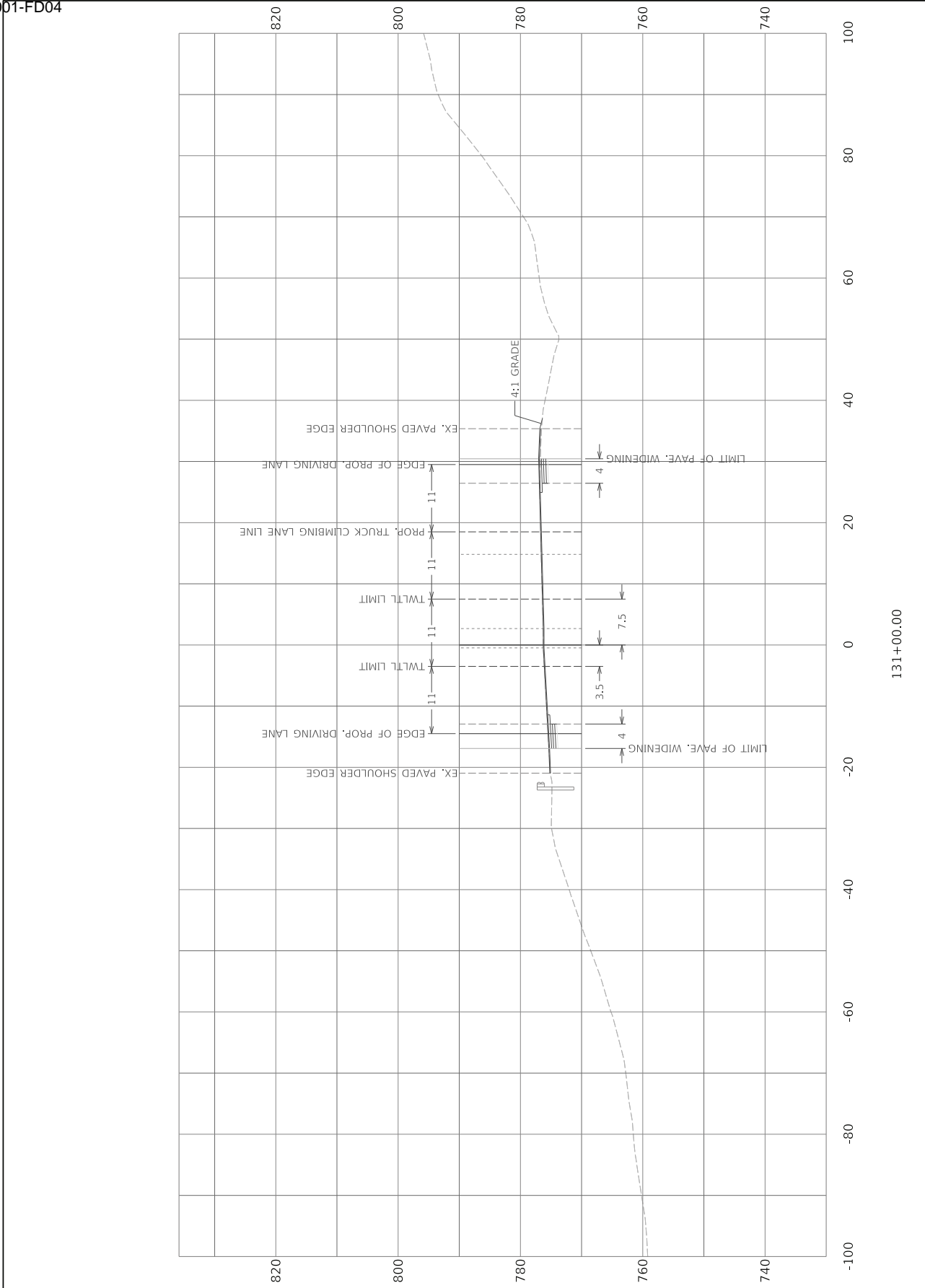
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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

USER: scott.weddington

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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY

DESIGN

USER: scott.weddington

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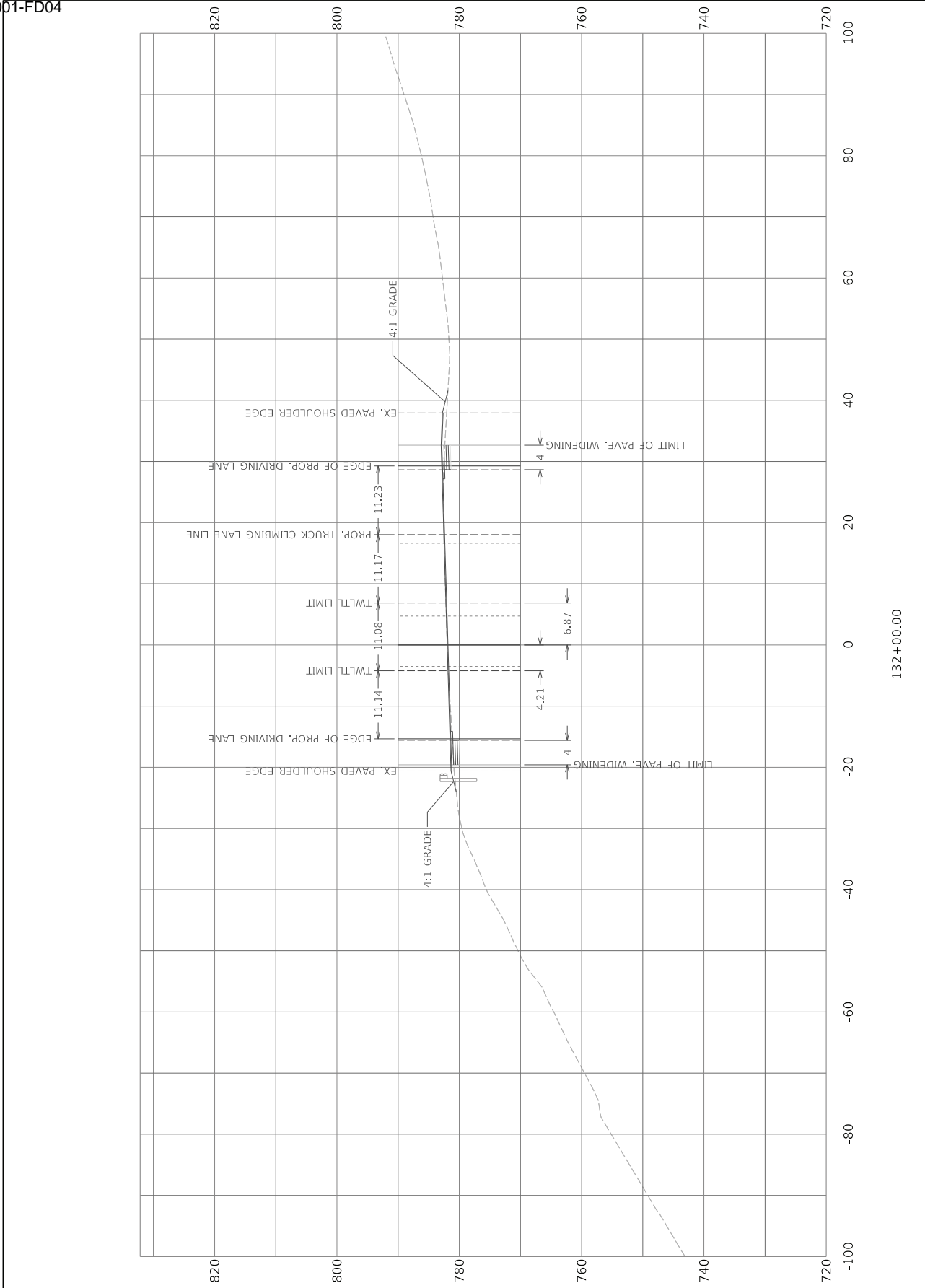
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ITEM NO.
10-80102.00


COUNTY OF
LEE

SHEET NO.
X012

HORIZONTAL SCALE: 1"=20'



132+00.00



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY
DESIGN-BUILD

USER: scott.weddington

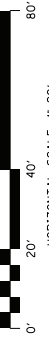
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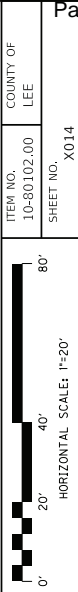
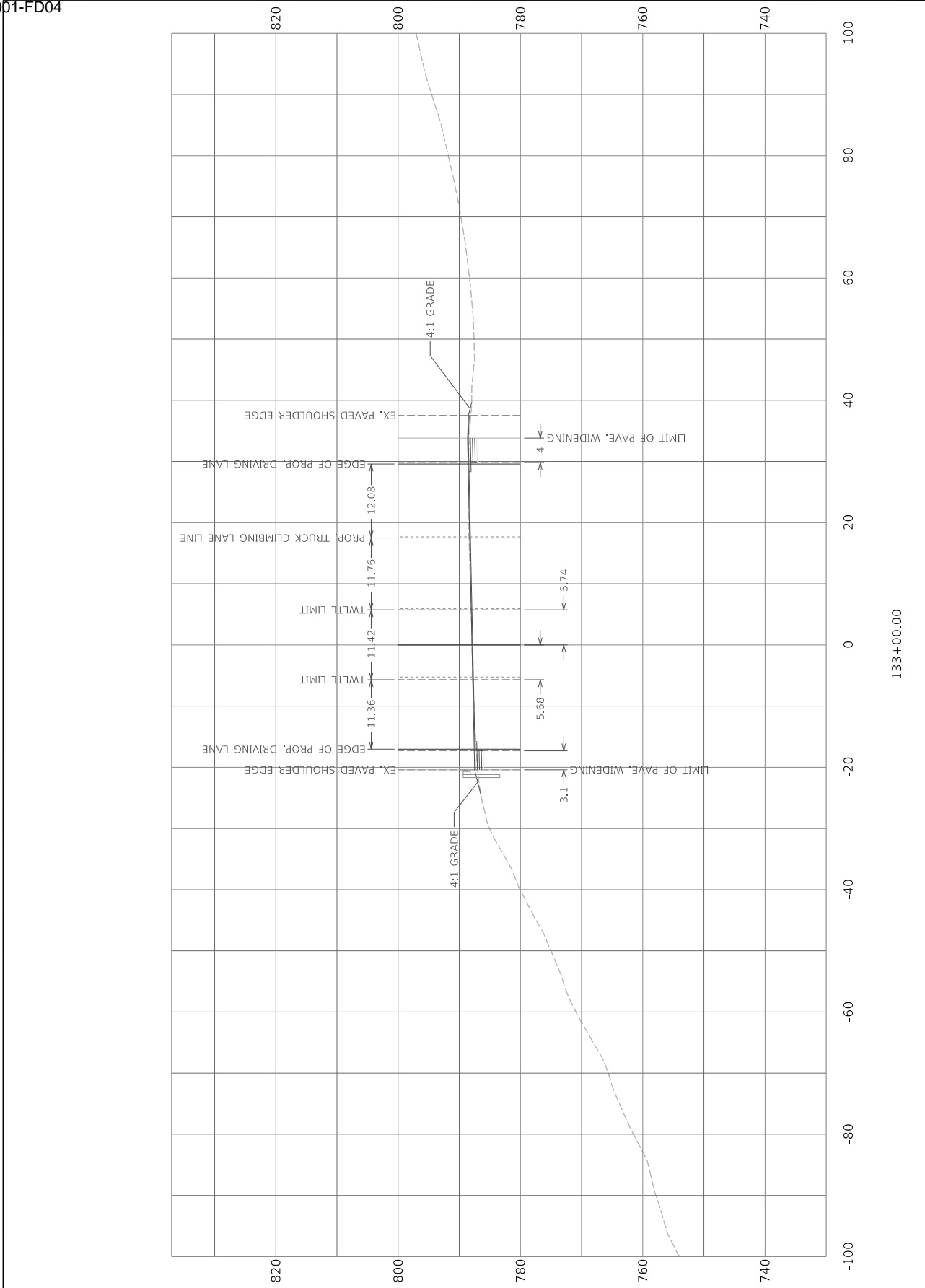
ITEM NO.
10-80102.00

COUNTY OF
LEE

SHEET NO.
X013

HORIZONTAL SCALE: 1"=20'



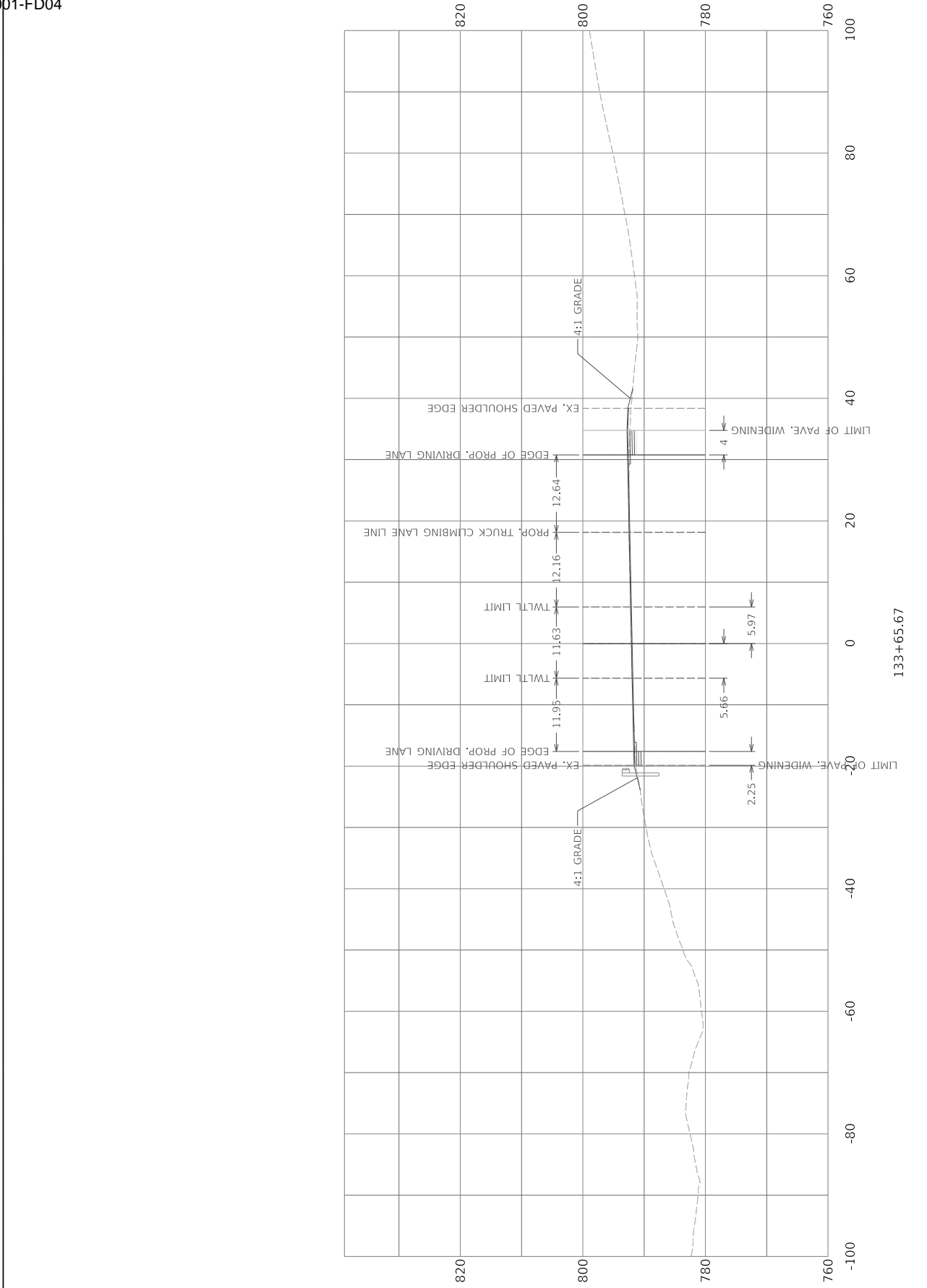


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DEPARTMENT OF HIGHWAYS

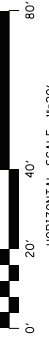
TEAM KENTUCKY

USER: min.jiang



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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



ITEM NO.
10-80102.00
SHEET NO.
X015

COUNTY OF
LEE

OpenRoads Designer v10.12.02.4
FILE NAME: C:\P\WORK\MIN\JANG\02286019\WORKING_FILE_20.DGN
USER: min.jang

GENERAL SUMMARY					
ITEM CODE	ITEM	UNIT	Section 1	Section 2	PROJECT TOTAL
1904	REMOVE CURB	L.F.		428	428
2014	BARRICADE-TYPE III	EACH			4
2383	REMOVE & RESET GUARDRAIL	L.F.		437.5	437.5
2562	TEMPORARY SIGNS	SQ. FT.			108
2569	DEMOBILIZATION	L.S.			1
2585	EDGE KEY (1)	L.F.	25		25
2650	MAINTAIN & CONTROL TRAFFIC	L.S.			1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH			2
2676	MOBILIZATION FOR MILL & TEXT.	L.S.			1
2696	SHOULDER RUMBLE STRIPS-SAWED (2)	L.F.	3356	2483	6,418
2726	STAKING	L.S.			1
6407	SBM ALUM SHEET SIGNS .126 IN	SQ. FT.	15	8	23
6410	STEEL POST TYPE 1	L.F.	30	15	45
6510	PAVE STRIPING-TEMP PAINT-4 IN	L.F.	19533	12960	32493
6542	PAVE STRIPING-THERMO -6 IN W (2)	L.F.	3933	2793	7378
6543	PAVE STRIPING-THERMO -6 IN Y (2)	L.F.	5833	3687	10099
6574	PAVE MARKING - THERMO CURVE ARROW	EACH	4	2	6
6612	INLAID PAVEMENT MARKER - BY	EACH	36	42	78
20071EC	JOINT ADHESIVE (2)	L.F.	2,654	2,482	5715
22883EN	CONCRETE WEDGE CURB	L.F.		428	428
24631EC	BARCODE SIGN INVENTORY	EACH	2	1	3
24880EC	REMOVE PAVEMENT MARKER	EACH			10
10020NS	FUEL ADJUSTMENT	DOLLAR			6843
10030NS	ASPHALT ADJUSTMENT	DOLLAR			17187
(1) ENT LT. STA. 112+80					
(2) INCLUDE FOLLOWING QUANTITIES BETWEEN STAT 118+35.41 & STA 121+25.12 : 579 LF OF SHLD RUMBLE STRIP, 579 LF OF JOINT ADHESIVE, 579 LF OF PAVE STRIPING-THERMO-6 IN Y, AND 652 LF OF PAVE STRIPING - THERMO - 6 IN W.					

PAVING AREA								
	Section 1			Section 2			STA. 118+35.41 to STA. 121+25.12	PROJECT TOTAL
	LT. SHLD	RT. SHLD	TRAFFIC LANES	LT. SHLD	RT. SHLD	TRAFFIC LANES		
1.5" CL2 ASPH SURF 0.3D PG64-22	2,027	1,744	5,634	1,243	1,366	5,242	1,793	19,049
4" CL2 ASPH BASE 1.00D 64-22 (FIRST BASE)	1,275	1,048		748	884			3,955
4" CL2 ASPH BASE 1.00D 64-22 (SECOND BASE)	1,007	783		542	677			3,009
4.5" CL2 ASPH BASE 1.00 64-22 (THIRD BASE)	1,007	783		542	677			3,009
4" DGA BASE	1,007	783		542	677			3,164
ASPHALT MATERIAL FOR TACK NON-TRACK	2,027	1,744	5,634	1,243	1,366	5,242	1,793	19,049
ASPHALT SEAL COAT (TWO LAYERS)								862
ASPHALT SEAL AGGREGATE (TWO LAYERS)								862
DGA WEDGE (CU YD)								155
LEVELING & WEDGING PG 64-22 (CU YD)								127

PAVING SUMMARY						
ITEM CODE		UNIT				PROJECT TOTAL
1	DGA BASE (3)(8)	TON				1,204
100	ASPHALT SEAL AGGREGATE (7)	TON				9
103	ASPHALT SEAL COAT (6)	TON				2
190	LEVELING AND WEDGING PG 64-22 (2)(8)	TON				521
212	CL2 ASPH BASE 1.0D PG 64-22	TON				2,277
301	CL2 ASPH SURF 0.38D PG 64-22 (8)	TON				1,598
2677	ASPH. PAVE MILL. & TEXTURING (4)	TON				3,807
24970EC	ASPHALT MATERIAL FOR TACK (5)	TON				9
(1) ALL ASPHALT MIXTURES ARE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH						
(2) INCLUDE ADDITIONAL 100 TONS FOR MOT						
(3) ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH						
(4) SEE PROJECT NOTES FOR MILLINGS.						
(5) ESTIMATED AT 0.84 LBS (0.1 GAL) PER SQUARE YARD.						
(6) 2.4 LBS/ SQ. YD.						
(7) 20 lbs/SQ. YD.						
(8) ENT STA. 112+80. 26 TON OF ASPH. SURFACE, 99 TONS OF LEVEL & WEDGE, AND 83 TONS OF DGA WEDGE.						

PROJECT NOTES

1. 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.
2. THE DEPARTMENT WILL RETAIN ALL MILLINGS. MILLINGS ARE TO BE DELIVERED TO THE LEE COUNTY MAINTENANCE LOT OR LOCATION AS DIRECTED BY THE ENGINEER.
3. DURING MAINTENANCE OF TRAFFIC PHASE, RUMBLE STRIPS (CENTERLINE AND SHOULDER) SHALL BE COVERED WITH ASPHALT, OR AS DIRECTED BY THE ENGINEER PRIOR TO UTILIZING TAPERING AND ALLOWING TRAFFIC DRIVING OVER EXISTING SHOULDERS.
4. STRIPPING VEGETATION AS NECESSARY FOR THE PROPOSED PAVEMENT CONSTRUCTION OR AS DIRECTED BY THE ENGINEER SHALL BE INCIDENTAL TO THE OTHER ITEMS OF WORK.
5. POSITIVE DRAINAGE OF ROADWAY SHALL BE MAINTAINED AT ALL TIME.
6. 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.
7. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING AROUND EXISTING GUARDRAIL. THE CONTRACTOR IS RESPONSIBLE TO REPAIR ANY DAMAGES DONE TO EXISTING GUARDRAIL.

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. LONGITUDINAL PAVEMENT JOINT ADHESIVE
2. COMPACTION OF ASPHALT MIXTURE
3. FIXED COMPLETION DATE
4. CHANGEABLE MESSAGE BOARD
5. WASTE AND BORROW SITE
6. NON-TRACKING TACK COAT
7. BARCODE INVENTORY
8. SEPIA SHEET 015 & 017

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.

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 11 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. 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.

16. REASONABLE INGRESS AND EGRESS SHALL BE PROVIDED AT ALL TIME FOR ENTRANCES ALONG THE PROJECT LIMIT DURING CONSTRUCTION.

**Special Note for Fixed Completion Date and
Liquidated Damages
KY 11
Lee County
Item No. 10-80102.00**

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 November 1, 2024.

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.

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

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.

11N

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.

11N

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

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.

- 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/**0 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 the actual number of individual signs acceptably furnished and operated during

11
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:

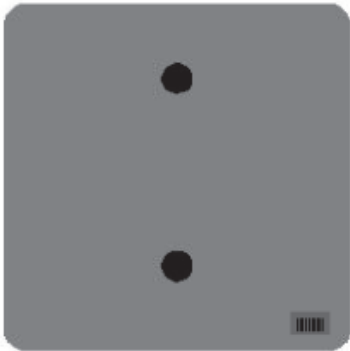
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24631EC	Barcode Sign Inventory	Each

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.

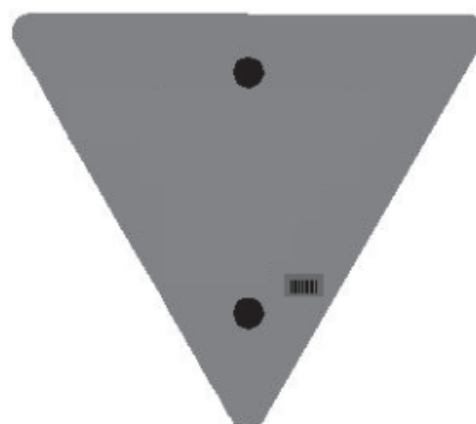
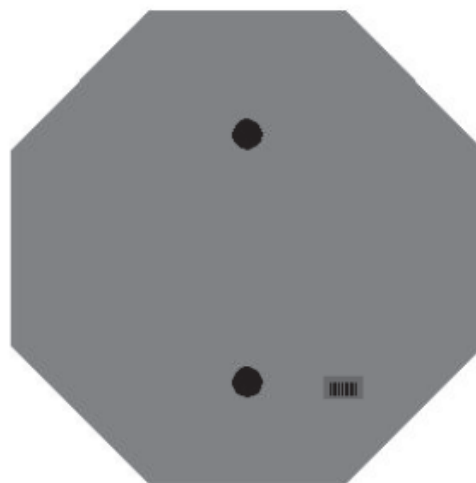
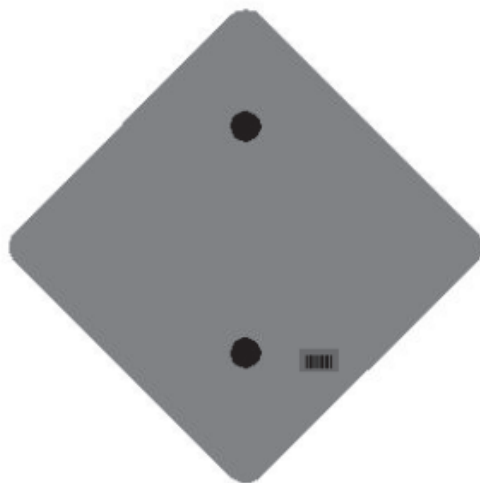
One Sign Post



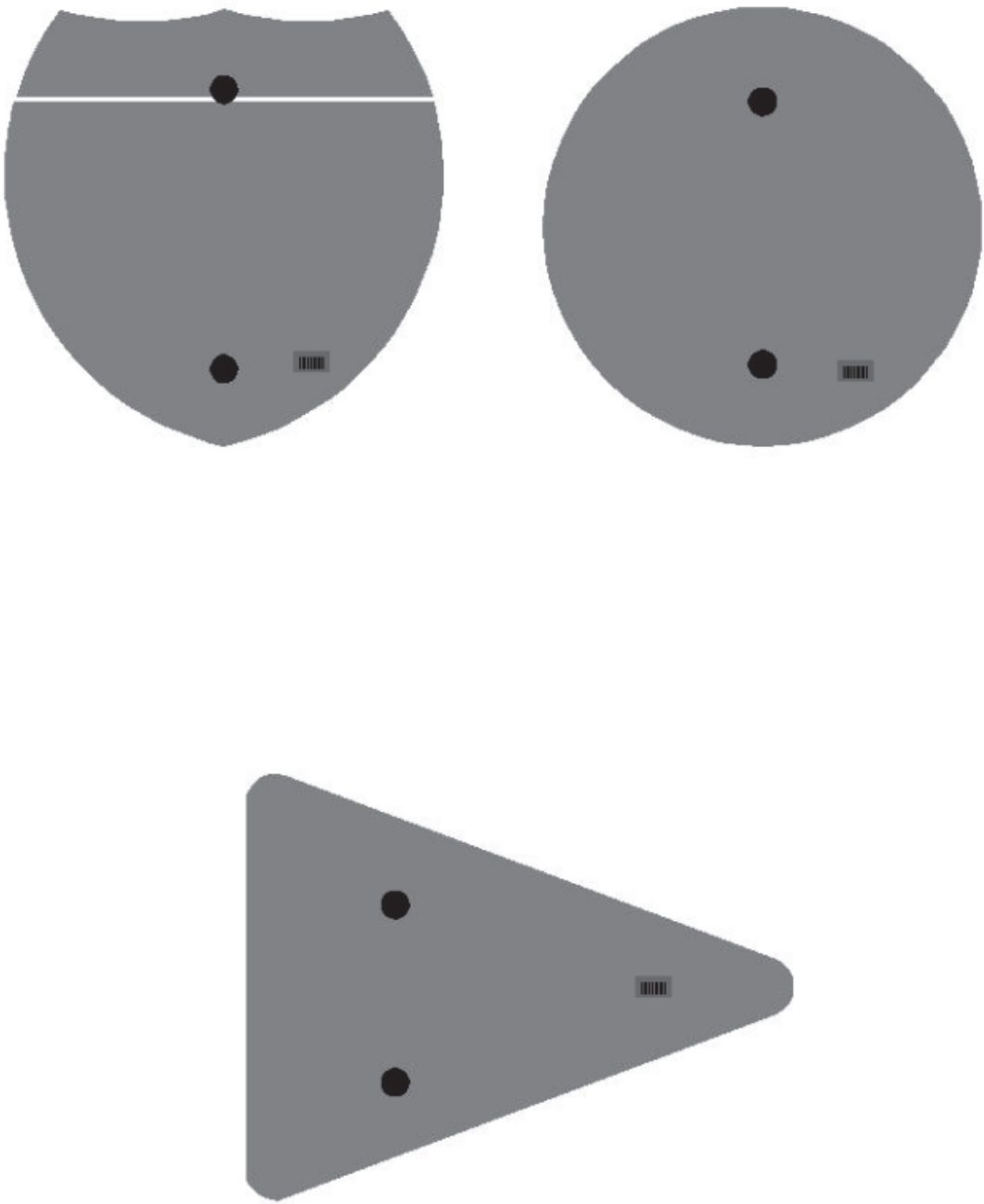
↑
2" Wide Post



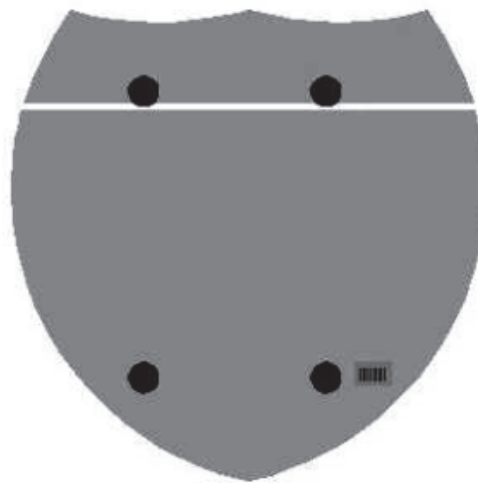
One Sign Post



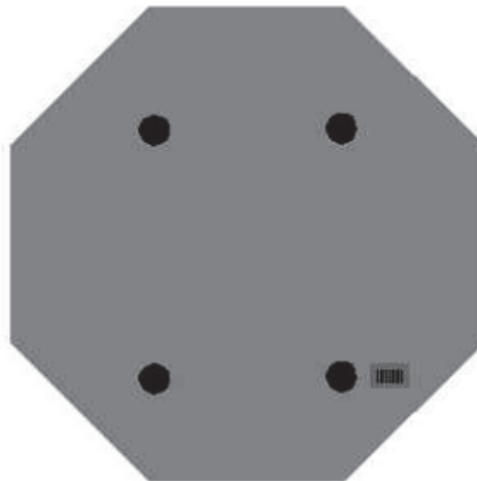
One Sign Post



Double Sign Post

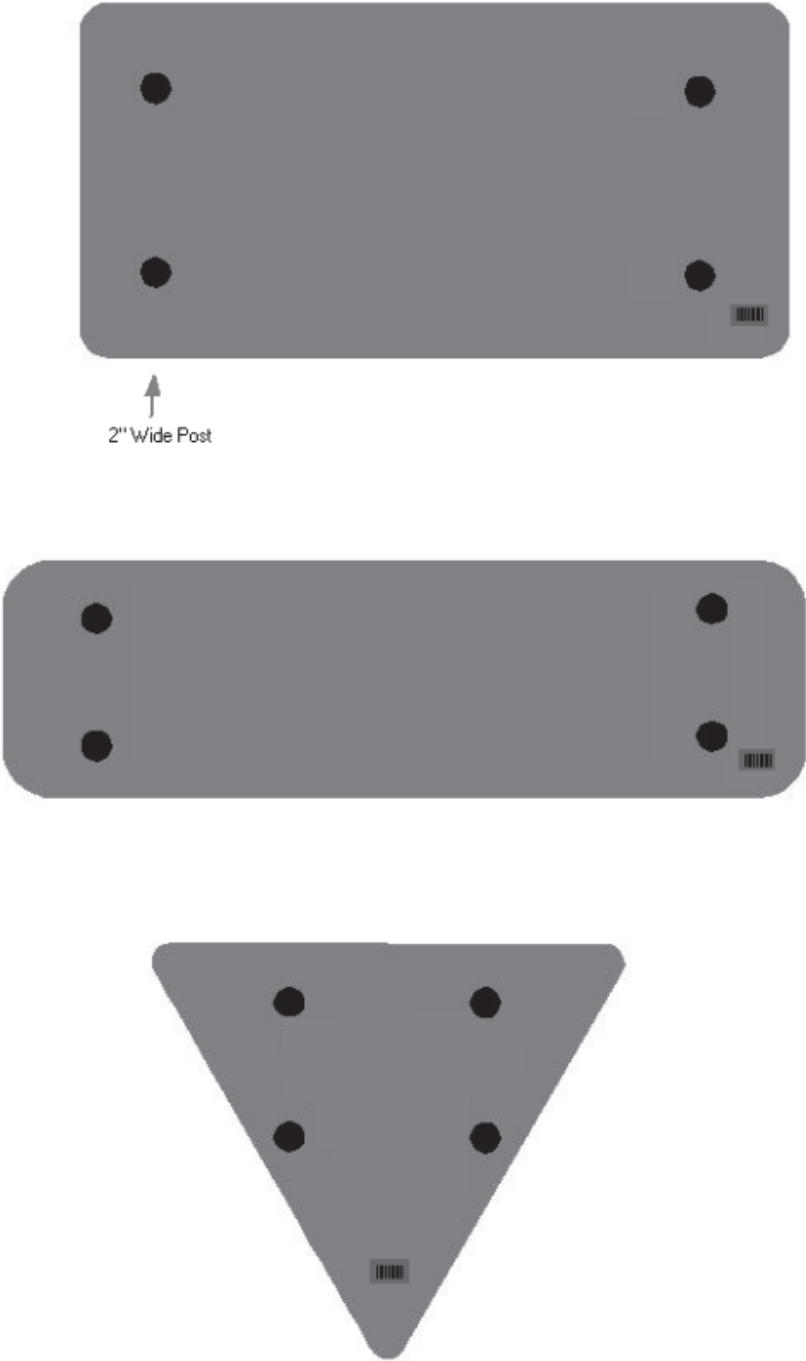


Interstate
Shield



48" Stop

2 Post Signs



SPECIAL NOTE FOR NON-TRACKING TACK COAT

- 1. DESCRIPTION AND USAGE. This specification covers the requirements and practices for applying a non-tracking tack asphalt coating. Place this material on the existing pavement course, prior to placement of a new asphalt pavement layer. Use when expedited paving is necessary or when asphalt tracking would negatively impact the surrounding area. This material is not suitable for other uses. Ensure material can “break” within 15 minutes under conditions listed in 3.2.
- 2. MATERIALS, EQUIPMENT, AND PERSONNEL.

2.1 Non-Tracking Tack. Provide material conforming to Subsection 2.1.1.

2.1.1 Provide a tack conforming to the following material requirements:

Property	Specification	Test Procedure
Viscosity, SFS, 77 ° F	20 – 100	AASHTO T 72
Sieve, %	0.3 max.	AASHTO T 59
Asphalt Residue ¹ , %	50 min.	AASHTO T 59
Oil Distillate, %	1.0 max.	AASHTO T 59
Residue Penetration, 77 ° F	20 max.	AASHTO T 49
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	AASHTO T 315
Softening Point, ° F	149 min.	AASHTO T 53
Solubility, %	97.5 min.	AASHTO T 44

¹ Bring sample to 212 °F over a 10-15 minute period. Maintain 212 °F for 15-20 minutes or until 30-40 mL of water has distilled. Continue distillation as specified in T59.

2.2. Equipment. Provide a distributor truck capable of heating, circulating, and spraying the tack between 170 °F and 180 °F. Do not exceed 180 °F. Circulate the material while heating. As required by the manufacturer, ensure the spray bar is equipped with #1 or #2 ¼” V-slot Etnyre nozzles. Other nozzles are not acceptable. Arrange the nozzles in the following patterns from left to right:

Nozzle number(s)	Activity	Orientation
1	On	Vertical
2	Off	-
3	On	Horizontal
4 & 5	Off	-
6	On	Horizontal
Continue 2 off and 1 on pattern through rest of spray bar system.		

Ensure the bar can be raised to between 14 and 18” from the roadway.

2.3 Personnel. Ensure the tack supplier has provided training to the contractor on the installation procedures for this product. Make a technical representative from the supplier available at the request of the Engineer.

3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the non-tracking tack, ensure the pavement surface is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the surface by scraping, sweeping, and the use of compressed air. Ensure this preparation process occurs shortly before application to prevent the return of debris pavement. If rain is expected within one hour after application, do not apply material. Apply material only when the surface is dry, and no precipitation is expected.

3.2 Non-tracking Tack Application. Ensure the roadway temperature is a minimum of 40 °F and rising during the application of the tack. This material is not suitable for use in colder temperatures. Prior to applying the tack, demonstrate competence in applying the tack according to this note to the satisfaction of the Engineer. Heat the tack in the distributor to between 170 – 180 °F. After initial heating to between 170 – 180 °F, the material may be sprayed between 165 °F and 180 °F. Do not apply outside this temperature range. Apply material at a rate of 0.50 pounds (0.06 gallons) per square yard. Ensure full coverage of the material on the pavement surface. Full coverage of this material is critical. If full coverage is not achieved, material application rate may be increased to ensure full coverage. Do not heat material more than twice in one day.

3.3 Non-tracking Tack Certification. Furnish the tacks 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 sample of non-tracking tack be taken from the distributor at a rate of one sample per 15,000 tons of mix. Take two 1 gallon samples of the heated material and forward the sample to the Division of Materials for testing within 7 days. Ensure the product temperature is between 170 and 180 °F at the time of sampling.

4. MEASUREMENT. The Department will measure the quantity of non-tracking tack in tons. 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 non-tracking tack, the cleaning of the pavement surface, or furnishing and placing the adhesive. The Department will consider all such items incidental to the non-tracking tack.

5. PAYMENT. The Department will pay for the non-tracking tack 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.

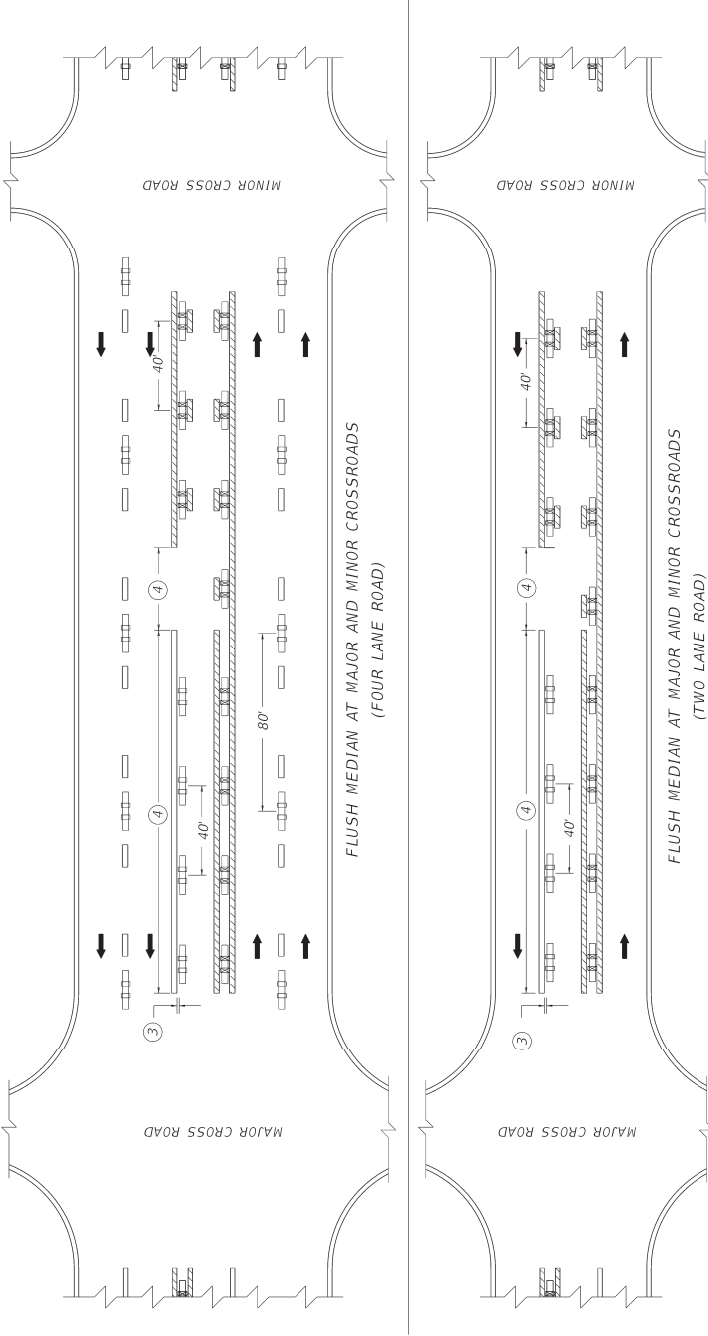
Non-Tracking Tack Price Adjustment Schedule						
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay
Viscosity, SFS, 77 ° F	20 – 100	19 - 102	17 - 18	15 - 16	14	≤13
			103 - 105	106 - 107	108 - 109	≥ 110
Sieve, %	0.30 max.	≤ 0.40	0.41 - 0.50	0.51 - 0.60	0.61 - 0.70	≥ 0.71
Asphalt Residue, %	50 min.	≥49.0	48.5 – 48.9	48.0 – 48.4	47.5-47.9	≤ 47.4
Oil Distillate, %	1.0 max.	≤1.0	1.1-1.5	1.6 - 1.7	1.8-1.9	>2.0
Residue Penetration, 77 ° F	20 max.	≤ 21	22 - 23	24 - 25	26 - 27	≥ 28
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	≥0.95	0.92 – 0.94	0.90 – 0.91	0.85 - 0.89	≤ 0.84
Softening Point, ° F	149 min.	≥145	142 - 144	140 - 141	138 - 139	≤ 137
Solubility, %	97.5 min.	≥ 97.0	96.8 – 96.9	96.6 – 96.7	96.4 – 96.5	≤ 96.3

Code
24970EC

Pay Item
Asphalt Material for Tack Non-Tracking

Pay Unit
Ton

April 30, 2018



- ~ NOTES ~
1. MARKERS INSTALLED AT DOUBLE YELLOW CENTERLINES SHALL BE PLACED BETWEEN THE TWO LINES.
 2. MARKERS INSTALLED ALONG LANE LINES OR DASHED YELLOW CENTERLINES SHALL BE PLACED BETWEEN AND IN LINE WITH THE SKIPS.
 - ③ MARKERS INSTALLED ALONG EDGE LINES SHALL BE PLACED SO THAT THE NEAR EDGE OF THE GROOVE IS NO MORE THAN 1' FROM THE NEAR EDGE OF THE LINE.
 - ④ LENGTH TO BE DETERMINED ON A PROJECT BY PROJECT BASIS.
 5. MARKERS SHALL NOT BE INSTALLED ON TOP OF THE PAVEMENT JOINT. OFFSET MARKERS A MINIMUM OF 1' FROM THE NEAR EDGE OF THE LINE. IF MARKERS ARE PLACED STRAIGHT WITH MINIMAL LATERAL DEVIATION, MARKERS MAY BE ELIMINATED OR PLACEMENT ADJUSTED AT THE DISCRETION OF THE ENGINEER.
- BID ITEMS
06610 - INLAID PAVEMENT MARKER - MW
06612 - INLAID PAVEMENT MARKER - BY
- UNIT TO BID
EACH
EACH

LEGEND	
	BI-DIRECTIONAL PAVEMENT MARKER (YELLOW)
	MONO-DIRECTIONAL PAVEMENT MARKER (WHITE)
	MARKINGS (YELLOW)
	MARKINGS (WHITE)

DRAWING NOT TO SCALE
USE WITH CUR. STD. DWG.
TPM-207

SUBMITTED
DAVID J. SMITH
06-09-21
DATE



OpenRoads Designer v10.16.0.80

USER: willmcnair

DATE PLOTTED: 8/20/25 9:53:17 AM

FILE NAME: C:\PW\GRANTY\COMMONWEALTH\065GR24D001-FD04.DGN

DRAWING TITLE: SEPIA 015 - INLAID PAVEMENT MARKER ARRANGEMENTS TWO-WAY, LEFT-TURN LANE

ITEM NO.	COUNTY OF
XX-XXXXXX	LEE
SHEET NO.	XXXX



TWO LANE ROADWAY
PAVEMENT CROSS-SECTION

TRAVELED WAY ②	TYPE OF PAVEMENT STRIPING	NON-STATE PRIMARY ROUTES				STATE PRIMARY ROUTES	
		< 1000 ADT		>= 1000 ADT		ANY ADT	
< 16' ④	EDGE LINE STRIPES ONLY	WIDTH	MATERIAL	WIDTH	MATERIAL	WIDTH	MATERIAL*
		4"	PAINT	4"	PAINT	6"	THERMO (ASHPALT) TYPE I TAPE (CONCRETE)
16' TO < 20'	EDGE LINE STRIPES ONLY OR CENTERLINE STRIPE ONLY	4"	PAINT	4"	PAINT	6"	THERMO (ASHPALT) TYPE I TAPE (CONCRETE)
>=20' ③	CENTERLINE AND EDGE LINE STRIPES	4" ⑤	PAINT	6"	PAINT	6"	THERMO (ASHPALT) TYPE I TAPE (CONCRETE)

*OTHER DURABLE NON-WATERBORNE MARKINGS MAY BE USED WITH APPROVAL FROM THE DIVISION OF TRAFFIC OPERATIONS.

~ NOTES ~

1. INSTALL PAVEMENT STRIPING ON TWO LANE, TWO WAY ROADWAYS AS DETAILED IN THE ABOVE TABLE AND IN ACCORDANCE WITH THE PAVEMENT MARKINGS AND DELINEATION CHAPTER OF THE TRAFFIC OPERATIONS GUIDANCE MANUAL. CONTACT THE DIVISION OF TRAFFIC OPERATIONS FOR ADDITIONAL GUIDANCE IF NECESSARY.
2. THE TRAVELED WAY IS THE PORTION OF ROADWAY FOR THE MOVEMENT OF VEHICLES, EXCLUSIVE OF THE SHOULDERS.
3. ON TWO LANE, TWO WAY ROADWAYS THAT HAVE A TOTAL PAVEMENT WIDTH (W) THAT IS 20 FT OR GREATER, BUT LESS THAN 22 FT, EDGE LINE RUMBLE STRIPS ARE NOT A STANDARD APPLICATION, BUT THEY MAY BE INSTALLED. THE DIVISION OF TRAFFIC OPERATIONS IS AVAILABLE TO ASSIST WITH THE DETERMINATION OF WHETHER OR NOT TO INSTALL EDGE LINE RUMBLE STRIPS ON PAVEMENT WIDTHS LESS THAN 22 FT, AS WELL AS THE DIMENSION AND PLACEMENT DETAILS OF THE RUMBLE STRIPS AND PAVEMENT STRIPING.
- ON TWO LANE, TWO WAY ROADWAYS THAT HAVE A TOTAL PAVEMENT WIDTH (W) THAT IS 22 FT OR GREATER, BUT LESS THAN 34 FT, INSTALL PAVEMENT STRIPING AS DETAILED IN THE ABOVE TABLE AND IN CONJUNCTION WITH CENTERLINE AND EDGE LINE RUMBLE STRIPS AS DETAILED ON TPR-120.
- ON TWO LANE, TWO WAY ROADWAYS THAT HAVE A TOTAL PAVEMENT WIDTH (W) THAT IS 34 FT OR GREATER, INSTALL PAVEMENT STRIPING AS DETAILED IN THE ABOVE TABLE AND IN CONJUNCTION WITH CENTERLINE AND SHOULDER RUMBLE STRIPS AS DETAILED ON TPR-125.
- EDGE LINES MAY BE OMITTED FROM ROADWAYS WITH A TRAVELED WAY WIDTH LESS THAN 16 FEET WITH THE APPROVAL OF THE DIVISION OF TRAFFIC OPERATIONS.
- EDGE LINES MAY BE OMITTED ON NON-STATE PRIMARY ROUTES WITH A TRAVELED WAY WIDTH GREATER THAN OR EQUAL TO 20 FEET AND AN ADT LESS THAN 1,000.
- EDGE LINES MAY BE OMITTED, BASED ON ENGINEERING JUDGMENT, IN AREAS WHERE THE PAVEMENT EDGE IS DELINEATED BY PHYSICAL OBJECTS SUCH AS CURBS, PARKING SPACES, OR OTHER MARKINGS. EDGE LINES SHOULD BE INSTALLED ON ROADWAYS WITH CURB AND GUTTER IF THE POSTED SPEED LIMIT IS 45 MPH OR GREATER.
- DRAWING NOT TO SCALE
USE WITH CUR. STD. DWGS.
TPR-120 & TPR-125

SUBMITTED:  J. J. JONES
DATE: 06-09-21



DRAWING TITLE: SEPIA 017 - PAVEMENT STRIPING DETAILS FOR TWO LANE TWO WAY ROADWAYS

DATE PLOTTED: 8/7/2015 9:53:17 AM

FILE NAME: C:\PW\GRIFFIN\TC\WILLIAMS\GRIFFIN\035998\SEP017.DGN

USER: williamsdgr

ITEM NO. COUNTY OF
XX-XXXXXX
SHEET NO. XXXX

LEE COUNTY
KY 11/KY 498
LEFT TURN LANE
ITEM #: 10-80103.00
PROJECT #: FD04 065 0011 009-010

GENERAL SUMMARY					
ITEM CODE	ITEM	UNIT			PROJECT TOTAL
2014	BARRICADE-TYPE III	EACH			4
2562	TEMPORARY SIGNS	SQ. FT.			143
2569	DEMOBILIZATION	L.S.			1
2650	MAINTAIN & CONTROL TRAFFIC	L.S.			1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH			3
2676	MOBILIZATION FOR MILL & TEXT.	L.S.			1
2696	SHOULDER RUMBLE STRIPS-SAWED	L.F.			1,936
2726	STAKING	L.S.			1
6510	PAVE STRIPING-TEMP PAINT-4 IN (2)	L.F.			10,916
6514	PAVE STRIPING-PERM PAINT-4 IN (1)	L.F.			200
6542	PAVE STRIPING-THERMO-6 IN W	L.F.			2,045
6543	PAVE STRIPING-THERMO-6 IN Y	L.F.			3,415
6568	PAVE MARKING - THERMO STOP BAR- 24 IN	L.F.			40
6574	PAVE MARKING - THERMO CURVE ARROW	EACH			2
20458ES403	CENTERLINE RUMBLE STRIPS	L.F.			915
20071EC	JOINT ADHESIVE	L.F.			1,021
10020NS	FUEL ADJUSTMENT	DOLLAR			2,061
10030NS	ASPHALT ADJUSTMENT	DOLLAR			9,856
(1) TO BE USED ON KY 498.					
(2) FOR MAINTENANCE OF TRAFFIC					

PAVING AREA				
	RESURFACING			
	LT. SHLD	RT. SHLD	TRAFFIC LANES	PROJECT TOTAL
1.5" CL2 ASPH SURF 0.38D PG64-22	1,020	959	3,030	5,009
4" CL2 ASPH BASE 1.00D 64-22 (FIRST BASE)	736	675		1,411
4" CL2 ASPH BASE 1.00D 64-22 (SECOND BASE)	566	505		1,071
4.5" CL2 ASPH BASE 1.00D 64-22 (THIRD BASE)	566	505		1,071
4" DGA BASE	566	505		1,071
ASPHALT MATERIAL FOR TACK NON-TRACK	1,020	959	3,030	5,009

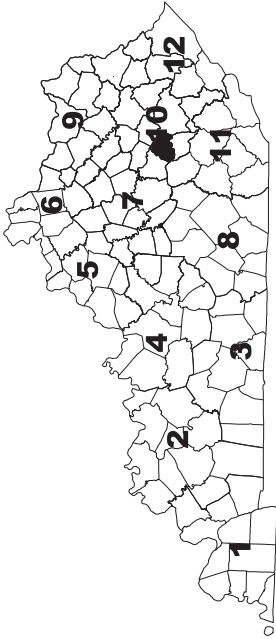
PAVING SUMMARY						
ITEM CODE		UNIT				PROJECT TOTAL
1	DGA BASE (3)	TON				246
190	LEVELING AND WEDGING PG 64-22 (2)	TON				100
212	CL2 ASPH BASE 1.0D PG 64-22	TON				811
301	CL2 ASPH SURF 0.38D PG 64-22	TON				413
2677	ASPH. PAVE MILL. & TEXTURING (4)	TON				1,471
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACK (5)	TON				3
(1) ALL ASPHALT MIXTURES ARE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH						
(2) FOR MOT PHASE AND OTHER LOCATIONS AS DIRECTED BY THE ENG.						
(3) ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH						
(4) SEE PROJECT NOTES FOR MILLINGS.						
(5) ESTIMATED AT 0.84 LBS (0.1 GAL) PER SQUARE YARD.						

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



PLANS OF
PROPOSED PROJECT
LEE County

CONSTRUCT LEFTTURN LANE AT KY 11/KY 498 INTERSECTION
STATE # FD04 065 0011 009-010
GRADE, DRAIN, AND SURFACING PLANS



BEGIN PROJECT
STA. 146+21.08

STA. 150+00.00
KY 11 ML
STA. 50+00.00 KY 498

END PROJECT
STA. 156+41.22



LAYOUT MAP

BEFORE YOU DIG

The contractor is instructed to call 1-800-281-4636 prior to any excavation work to determine 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 shall be responsible for obtaining all necessary permits and approvals from the appropriate agencies. The contractor must coordinate excavation with the utility owners, including those who do not subscribe to KY 811. It is the contractor's responsibility to contact the County Clerk to determine what utility companies have facilities in the area.

THE CONTROL OF ACCESS ON THIS
PROJECT SHALL BE BY PERMIT

INDEX OF SHEETS

- R1 LAYOUT SHEET
- R2A GENERAL NOTES
- R3 PLANT SHEET
- R4 EROSION CONTROL
- R5 MAINTENANCE OF TRAFFIC
- R6-9

STANDARD DRAWINGS

- TPM-206 TYPICAL MARKINGS FOR TURN LANES
- TPM-100 CENTERLINE RUMBLE STRIPS PLACEMENT DETAILS
- TPM-125 SLOPED RUMBLE STRIP DETAILS TWO LANE ROADWAY
- TPM-100 MOBILE OPERATION FOR PAINT STRIPING CASE 1

DESIGN CRITERIA

CLASS OF HIGHWAY MINOR ARTERIAL
TYPE OF TERRAIN RURAL
DESIGN SPEED 35 MPH
REQUIRED NFSD 400'
DESIGN LIFE 20
LEVEL OF SERVICE X
ADT PRESENT () 2627
ADT FUTURE () X
DHV X
D % 26%
T % 5.08%

GEOGRAPHIC COORDINATES

DESIGNED
LATITUDE 37 DEGREES 30 MINUTES 30 SECONDS NORTH
LONGITUDE 82 DEGREES 41 MINUTES 30 SECONDS WEST
% RESTRICTED SD X
LEVEL OF SERVICE X
MAX. DISTANCE W/O PASSING X

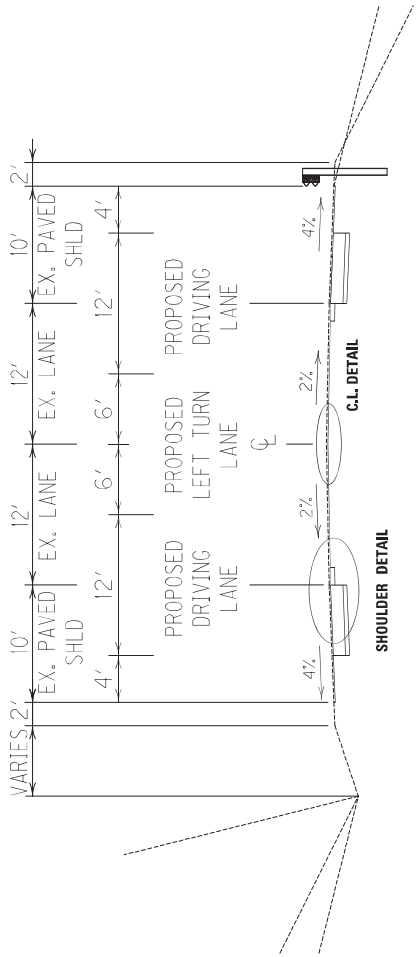
LENGTH 1020.14 UN. FT. 0.193 MILES ADDED FOR EQUALITIES X UN. FT. NOT INCLUDED RAILROAD CROSSINGS NO. X UN. FT. NOT INCLUDED	LENGTH X UN. FT. X MILES ADDED FOR EQUALITIES X UN. FT. NOT INCLUDED RAILROAD CROSSINGS NO. X UN. FT. NOT INCLUDED	LENGTH X UN. FT. X MILES ADDED FOR EQUALITIES X UN. FT. NOT INCLUDED RAILROAD CROSSINGS NO. X UN. FT. NOT INCLUDED
PROJECT NUMBER: 10-80103.00		
PROJECT DESCRIPTION: ADD LEFT TURN LANE AT THE INTERSECTION OF KY 11 AND KY 498.		
RECOMMENDED BY: Min Jiang DATE: APRIL 6, 2023		
PLAN APPROVED BY: DATE: MAY 25, 2023		
LETTING DATE: MAY 25, 2023		
ITEM NO. 10-80103.00 COUNTY OF LEE		
SHEET NO. 91		

FILE NAME: C:\P\WORK\065\J\ANGS22087\LA001 SHEET.DGN

USER: min.jiang

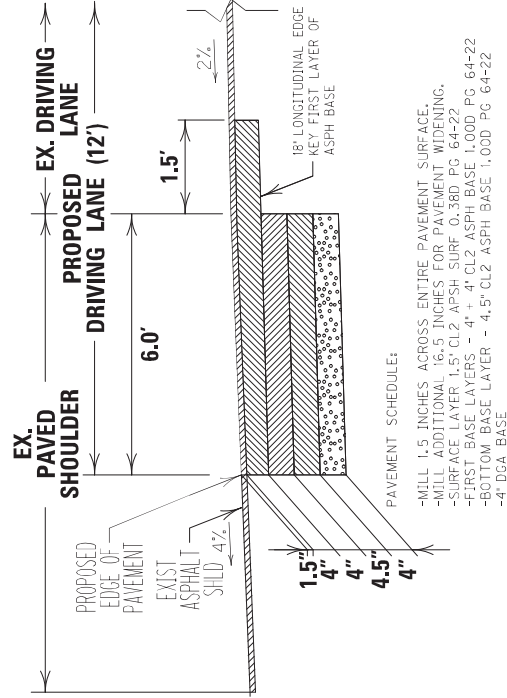
OpenRoads Designer v14.16.2.287

LEE COUNTY
TYPICAL SECTIONS
KENTUCKY 11

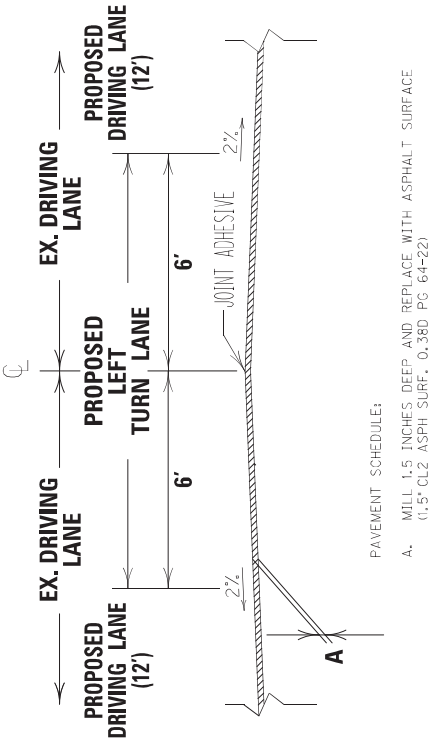


NORMAL SECTION
2 LANE

SHOULDER DETAIL



CENTERLINE DETAIL

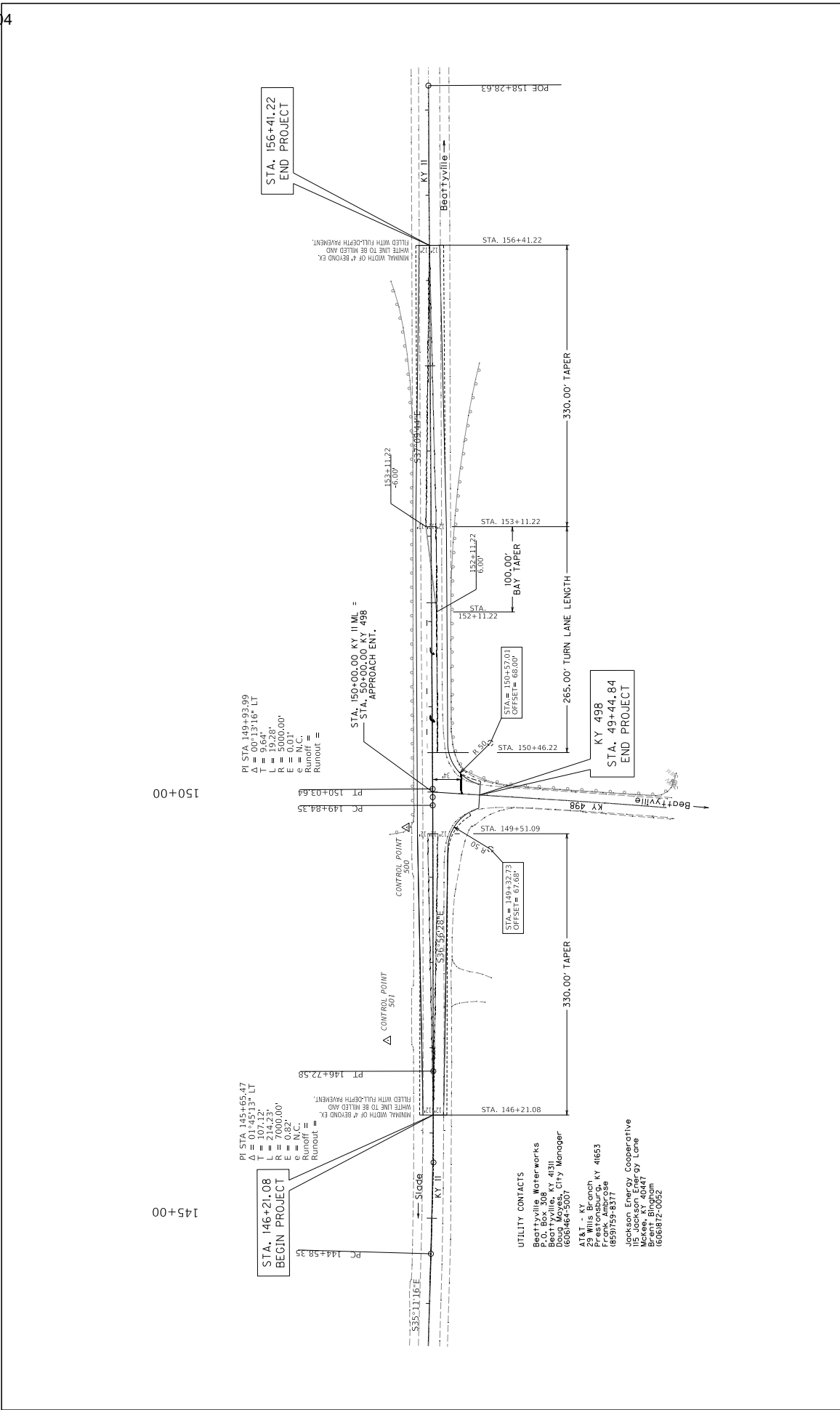


DRAWING TITLE: TYPICAL SECTION



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
USER: rmb_jmg
FILE NAME: C:\P\WORK\K11\JAN2020\K11\CLD_2D_SECTIONS


ITEM NO.	COUNTY OF
10-8010300	LEE
SHEET NO.	R2



PI STA. 145+65.47
Δ = 0°13'16" LT
T = 107.12'
L = 214.23'
R = 7000.00'
E = 0.01'
Runoff =
Runout =

PI STA. 149+93.99
Δ = 0°13'16" LT
T = 107.12'
L = 214.23'
R = 7000.00'
E = 0.01'
Runoff =
Runout =


UTILITY CONTACTS
Beattyville Waterworks
Beattyville, KY 41503
Doug Moyes, City Manager
1606/464-5007
AT&T - KY
Cynthia Cochran
Frank Ambrose
1859/759-8317
Jackson Energy Cooperative
Brent Bingham
1606/812-0052



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

DRAWING TITLE: PLAN SHEET R3

HORIZONTAL SCALE
SCALE: 1"=50'



0' 50' 100' 150' 200' 250' 300' 350' 400' 450' 500' 550' 600' 650' 700' 750' 800' 850' 900' 950' 1000'

STA. 146+21.08 TO 156+41.22

ITEM NO. 10-80103.00
SHEET NO. R3
COUNTY OF LEE

FILE NAME: C:\P\WORK\065GR24D001\FD04\11 TURN LANE PROJECT.DGN

USER: mli.jing

OpenRoads Designer v10.16.2.267

COORDINATE SYSTEM

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System.
Coordinates are based on State Plane Coordinate System SINGLE Zone and in U.S. Survey Feet.

COORDINATE CONTROL POINTS				
POINT	DESCRIPTION	Project Coordinates		
		NORTH (Y)	EAST (X)	STATION and OFFSET
C.P. #500	IRON PIN AND CAP	3762754.446	5515620.907	00+000.00, 00.00 Right
C.P. #501	6 IN MAGNAIL WITH TAB	3762967.588	5515488.670	00+000.00, 00.00 Right

145+00
150+00

PI STA. 145+65.47
Δ = 00°13'16" LT
T = 107.12'
L = 214.23'
R = 7000.00'
E = 0.01'
Runoff = 0.02'
Runout =

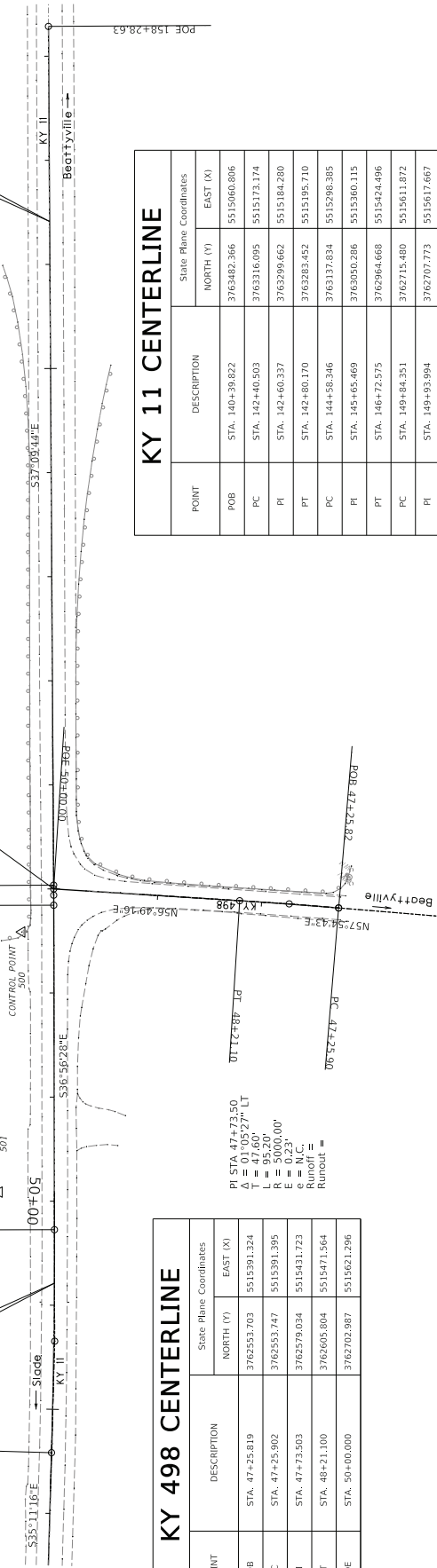
STA. 146+21.08
BEGIN PROJECT

PC 144+58.35

PT 146+72.58

PI STA. 149+93.99
Δ = 00°13'16" LT
T = 107.12'
L = 19.28'
R = 5000.00'
E = 0.01'
Runoff = 0.02'
Runout =

STA. 150+00.00 KY 11 ML =
STA. 50+00.00 KY 498
APPROACH ENT.



POINT	DESCRIPTION	State Plane Coordinates	
		NORTH (Y)	EAST (X)
POB	STA. 47+25.819	3762553.703	5515391.324
PC	STA. 47+25.902	3762553.747	5515391.395
PI	STA. 47+73.003	3762579.034	5515431.723
PT	STA. 48+21.100	3762605.804	5515471.564
POE	STA. 50+00.000	3762702.987	5515621.296

POINT	DESCRIPTION	State Plane Coordinates	
		NORTH (Y)	EAST (X)
POB	STA. 140+39.822	3763482.366	5515660.806
PC	STA. 142+40.503	3763316.095	5515173.174
PI	STA. 142+60.337	3763299.662	5515184.280
PT	STA. 142+80.170	3763283.452	5515195.710
PC	STA. 144+50.346	3763137.834	5515298.385
PI	STA. 145+65.469	3763050.286	5515360.115
PT	STA. 146+72.575	3762964.668	5515424.496
PC	STA. 149+84.351	3762715.480	5515611.872
PI	STA. 149+93.994	3762707.773	5515617.667
PT	STA. 150+03.636	3762700.089	5515623.492
POE	STA. 158+28.631	3762042.627	5516121.850

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 11 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:

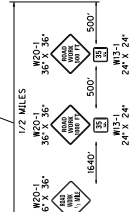
- LESS THAN TWO INCHES - NO PROTECTION REQUIRED. WARNING SIGNS SHOULD BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA.
- TWO TO FOUR INCHES - PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MPH OR GREATER. CONES MAY BE USED IN PLACE OF PLASTIC DRUMS, 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.

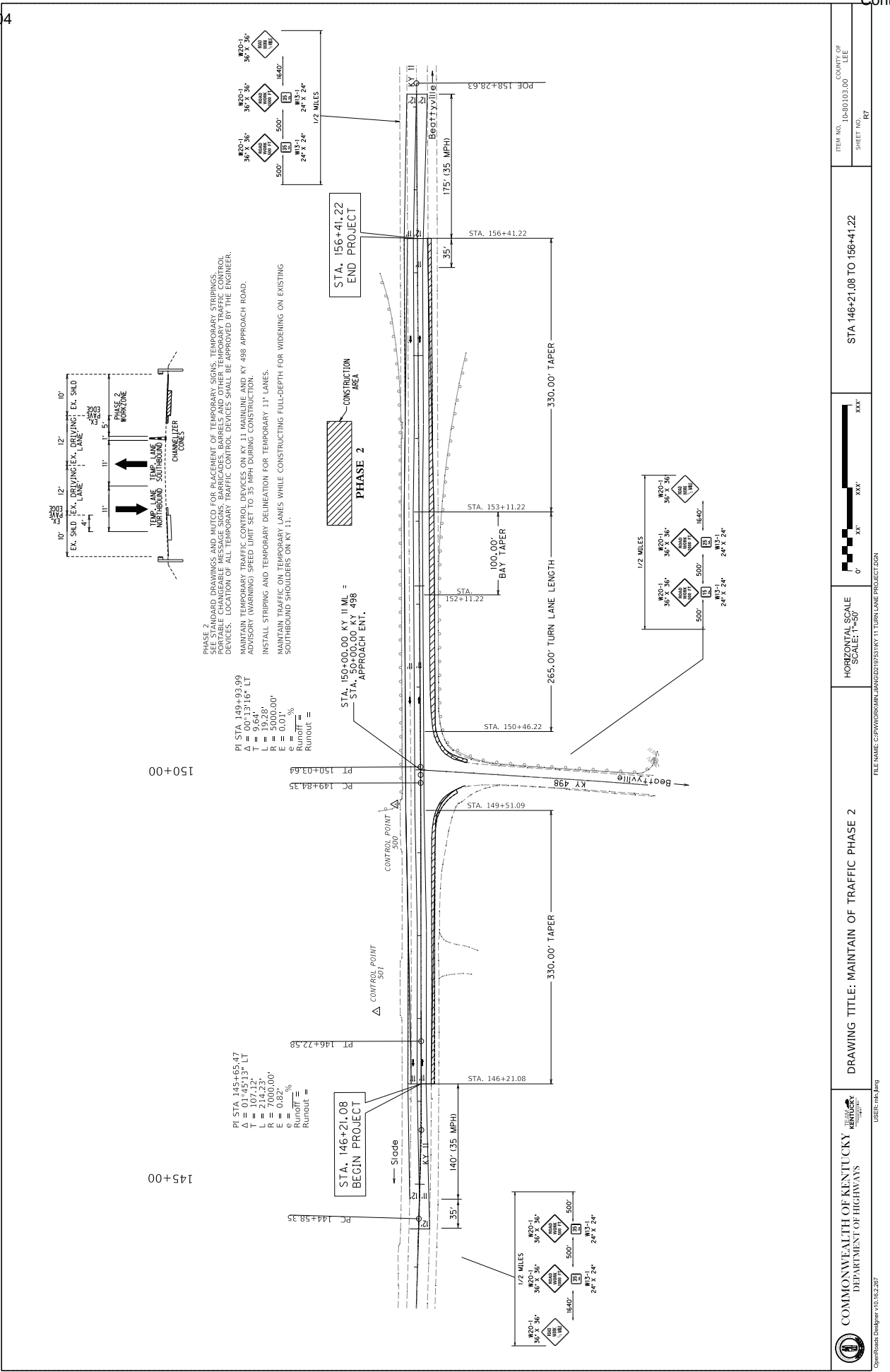
PAYMENT WILL BE ALLOWED FOR DGA, CSB AND OTHER SUITABLE MATERIALS USED FOR WEDGING.

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. 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.

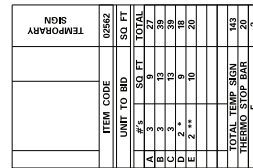



COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 TEAM KENTUCKY
 "Pursuing the Vision"





PHASE 3
SEE STANDARD DRAWINGS AND MUTCD FOR PLACEMENT OF TEMPORARY SIGNS, TEMPORARY STRIPINGS, PORTABLE CHANGEABLE MESSAGE SIGNS, BARRICADES, BARRELS, AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES. LOCATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE ENGINEER.
MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES ON KY 11 MAINLINE AND KY 498 APPROACH ROAD.
ADVISORY (WARNING) SPEED LIMIT SET TO 35 MPH DURING CONSTRUCTION.
REMOVE TEMPORARY STRIPING AND TEMPORARY DELINEATION.
MILL AND FILL PAVEMENT SURFACE LAYER. INSTALL FINAL STRIPING AND RUMBLE STRIPES ACCORDING TO THE PLAN.
REMOVE TEMPORARY SIGNS AND OTHER TEMPORARY MOT ITEMS.



* AS DIRECTED BY ENGINEER.
** TO BE PLACED AT EACH END
OF CONSTRUCTION ZONE

					TEMPORARY SIGN
ITEM CODE					
UNIT TO BID		SQ FT		SQ FT	
A	#'s	SQ FT	TOTAL		
B	3	9	27		
C	3	13	39		
D	3	13	39		
E	2 *	9	18		
F	2 **	10	20		
TOTAL TEMP SIGN				143	
THERMO STOP BAR				20	



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM
KENTUCKY
Infrastructure & Transportation

USER: mtr.jiang

OpenRoads Designer v10.16.2.267

DRAWING TITLE: MAINTAIN OF TRAFFIC PHASE 3

HORIZONTAL SCALE: 1"=50'

STA 146+21.08 TO 156+41.22

ITEM NO. COUNTY OF
10-80103.00 LEE
SHEET NO. R8

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.

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. LONGITUDINAL PAVEMENT JOINT ADHESIVE
2. COMPACTION OF ASPHALT MIXTURE
3. FIXED COMPLETION DATE
4. CHANGEABLE MESSAGE BOARD
5. WASTE AND BORROW SITE
6. NON-TRACKING TACK COAT
7. SEPIA SHEET 017

PROJECT NOTES

1. 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.
2. THE DEPARTMENT WILL RETAIN ALL MILLINGS. MILLINGS ARE TO BE DELIVERED TO THE LEE COUNTY MAINTENANCE LOT OR LOCATION AS DIRECTED BY THE ENGINEER.
3. DURING MAINTENANCE OF TRAFFIC PHASE, RUMBLE STRIPS (CENTERLINE AND SHOULDER) SHALL BE COVERED WITH ASPHALT, OR AS DIRECTED BY THE ENGINEER PRIOR TO UTILIZING TAPERING AND ALLOWING TRAFFIC DRIVING OVER EXISTING SHOULDERS.
4. STRIPPING VEGETATION AS NECESSARY FOR THE PROPOSED PAVEMENT CONSTRUCTION OR AS DIRECTED BY THE ENGINEER SHALL BE INCIDENTAL TO THE OTHER ITEMS OF WORK.
5. POSITIVE DRAINAGE OF ROADWAY SHALL BE MAINTAINED AT ALL TIME.
6. 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.

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.

**Special Note for Fixed Completion Date and
Liquidated Damages
KY 11
Lee County
Item No. 10-80103.00**

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 November 1, 2024.

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

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.

- 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/***0 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 the actual number of individual signs acceptably furnished and operated during

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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 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

SPECIAL NOTE FOR NON-TRACKING TACK COAT

- 1. DESCRIPTION AND USAGE. This specification covers the requirements and practices for applying a non-tracking tack asphalt coating. Place this material on the existing pavement course, prior to placement of a new asphalt pavement layer. Use when expedited paving is necessary or when asphalt tracking would negatively impact the surrounding area. This material is not suitable for other uses. Ensure material can “break” within 15 minutes under conditions listed in 3.2.
- 2. MATERIALS, EQUIPMENT, AND PERSONNEL.

2.1 Non-Tracking Tack. Provide material conforming to Subsection 2.1.1.

2.1.1 Provide a tack conforming to the following material requirements:

Property	Specification	Test Procedure
Viscosity, SFS, 77 ° F	20 – 100	AASHTO T 72
Sieve, %	0.3 max.	AASHTO T 59
Asphalt Residue ¹ , %	50 min.	AASHTO T 59
Oil Distillate, %	1.0 max.	AASHTO T 59
Residue Penetration, 77 ° F	20 max.	AASHTO T 49
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	AASHTO T 315
Softening Point, ° F	149 min.	AASHTO T 53
Solubility, %	97.5 min.	AASHTO T 44

¹ Bring sample to 212 °F over a 10-15 minute period. Maintain 212 °F for 15-20 minutes or until 30-40 mL of water has distilled. Continue distillation as specified in T59.

2.2. Equipment. Provide a distributor truck capable of heating, circulating, and spraying the tack between 170 °F and 180 °F. Do not exceed 180 °F. Circulate the material while heating. As required by the manufacturer, ensure the spray bar is equipped with #1 or #2 ¼” V-slot Etnyre nozzles. Other nozzles are not acceptable. Arrange the nozzles in the following patterns from left to right:

Nozzle number(s)	Activity	Orientation
1	On	Vertical
2	Off	-
3	On	Horizontal
4 & 5	Off	-
6	On	Horizontal
Continue 2 off and 1 on pattern through rest of spray bar system.		

Ensure the bar can be raised to between 14 and 18” from the roadway.

2.3 Personnel. Ensure the tack supplier has provided training to the contractor on the installation procedures for this product. Make a technical representative from the supplier available at the request of the Engineer.

3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the non-tracking tack, ensure the pavement surface is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the surface by scraping, sweeping, and the use of compressed air. Ensure this preparation process occurs shortly before application to prevent the return of debris pavement. If rain is expected within one hour after application, do not apply material. Apply material only when the surface is dry, and no precipitation is expected.

3.2 Non-tracking Tack Application. Ensure the roadway temperature is a minimum of 40 °F and rising during the application of the tack. This material is not suitable for use in colder temperatures. Prior to applying the tack, demonstrate competence in applying the tack according to this note to the satisfaction of the Engineer. Heat the tack in the distributor to between 170 – 180 °F. After initial heating to between 170 – 180 °F, the material may be sprayed between 165 °F and 180 °F. Do not apply outside this temperature range. Apply material at a rate of 0.50 pounds (0.06 gallons) per square yard. Ensure full coverage of the material on the pavement surface. Full coverage of this material is critical. If full coverage is not achieved, material application rate may be increased to ensure full coverage. Do not heat material more than twice in one day.

3.3 Non-tracking Tack Certification. Furnish the tacks 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 sample of non-tracking tack be taken from the distributor at a rate of one sample per 15,000 tons of mix. Take two 1 gallon samples of the heated material and forward the sample to the Division of Materials for testing within 7 days. Ensure the product temperature is between 170 and 180 °F at the time of sampling.

4. MEASUREMENT. The Department will measure the quantity of non-tracking tack in tons. 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 non-tracking tack, the cleaning of the pavement surface, or furnishing and placing the adhesive. The Department will consider all such items incidental to the non-tracking tack.

5. PAYMENT. The Department will pay for the non-tracking tack 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.

Non-Tracking Tack Price Adjustment Schedule						
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay
Viscosity, SFS, 77 ° F	20 – 100	19 - 102	17 - 18	15 - 16	14	≤13
			103 - 105	106 - 107	108 - 109	≥ 110
Sieve, %	0.30 max.	≤ 0.40	0.41 - 0.50	0.51 - 0.60	0.61 - 0.70	≥ 0.71
Asphalt Residue, %	50 min.	≥49.0	48.5 – 48.9	48.0 – 48.4	47.5-47.9	≤ 47.4
Oil Distillate, %	1.0 max.	≤1.0	1.1-1.5	1.6 - 1.7	1.8-1.9	>2.0
Residue Penetration, 77 ° F	20 max.	≤ 21	22 - 23	24 - 25	26 - 27	≥ 28
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	≥0.95	0.92 – 0.94	0.90 – 0.91	0.85 - 0.89	≤ 0.84
Softening Point, ° F	149 min.	≥145	142 - 144	140 - 141	138 - 139	≤ 137
Solubility, %	97.5 min.	≥ 97.0	96.8 – 96.9	96.6 – 96.7	96.4 – 96.5	≤ 96.3

Code
24970EC

Pay Item
Asphalt Material for Tack Non-Tracking

Pay Unit
Ton

April 30, 2018



TWO LANE ROADWAY
PAVEMENT CROSS-SECTION

TRAVELED WAY ②	TYPE OF PAVEMENT STRIPING	NON-STATE PRIMARY ROUTES				STATE PRIMARY ROUTES	
		< 1000 ADT		>= 1000 ADT		ANY ADT	
16' TO < 20'	EDGE LINE STRIPES ONLY OR CENTERLINE STRIPE ONLY	WIDTH	MATERIAL	WIDTH	MATERIAL	WIDTH	MATERIAL*
		4"	PAINT	4"	PAINT	6"	THERMO (ASHPALT) TYPE I TAPE (CONCRETE)
>=20'	CENTERLINE AND EDGE LINE STRIPES	4"	PAINT	4"	PAINT	6"	THERMO (ASHPALT) TYPE I TAPE (CONCRETE)
		4"	PAINT	6"	PAINT	6"	THERMO (ASHPALT) TYPE I TAPE (CONCRETE)

*OTHER DURABLE NON-WATERBORNE MARKINGS MAY BE USED WITH APPROVAL FROM THE DIVISION OF TRAFFIC OPERATIONS.

~ NOTES ~

1. INSTALL PAVEMENT STRIPING ON TWO LANE, TWO WAY ROADWAYS AS DETAILED IN THE ABOVE TABLE AND IN ACCORDANCE WITH THE PAVEMENT MARKINGS AND DELINEATION CHAPTER OF THE TRAFFIC OPERATIONS GUIDANCE MANUAL. CONTACT THE DIVISION OF TRAFFIC OPERATIONS FOR ADDITIONAL GUIDANCE IF NECESSARY.
2. THE TRAVELED WAY IS THE PORTION OF ROADWAY FOR THE MOVEMENT OF VEHICLES, EXCLUSIVE OF THE SHOULDERS.
3. ON TWO LANE, TWO WAY ROADWAYS THAT HAVE A TOTAL PAVEMENT WIDTH (W) THAT IS 20 FT OR GREATER, BUT LESS THAN 22 FT, EDGE LINE RUMBLE STRIPS ARE NOT A STANDARD APPLICATION, BUT THEY MAY BE INSTALLED. THE DIVISION OF TRAFFIC OPERATIONS IS AVAILABLE TO ASSIST WITH THE DETERMINATION OF WHETHER OR NOT TO INSTALL EDGE LINE RUMBLE STRIPS ON PAVEMENT WIDTHS LESS THAN 22 FT, AS WELL AS THE DIMENSION AND PLACEMENT DETAILS OF THE RUMBLE STRIPS AND PAVEMENT STRIPING.
- ON TWO LANE, TWO WAY ROADWAYS THAT HAVE A TOTAL PAVEMENT WIDTH (W) THAT IS 22 FT OR GREATER, BUT LESS THAN 34 FT, INSTALL PAVEMENT STRIPING AS DETAILED IN THE ABOVE TABLE AND IN CONJUNCTION WITH CENTERLINE AND EDGE LINE RUMBLE STRIPS AS DETAILED ON TPR-120 .
- ON TWO LANE, TWO WAY ROADWAYS THAT HAVE A TOTAL PAVEMENT WIDTH (W) THAT IS 34 FT OR GREATER, INSTALL PAVEMENT STRIPING AS DETAILED IN THE ABOVE TABLE AND IN CONJUNCTION WITH CENTERLINE AND SHOULDER RUMBLE STRIPS AS DETAILED ON TPR-125.
- EDGE LINES MAY BE OMITTED FROM ROADWAYS WITH A TRAVELED WAY WIDTH LESS THAN 16 FEET WITH THE APPROVAL OF THE DIVISION OF TRAFFIC OPERATIONS.
- EDGE LINES MAY BE OMITTED ON NON-STATE PRIMARY ROUTES WITH A TRAVELED WAY WIDTH GREATER THAN OR EQUAL TO 20 FEET AND AN ADT LESS THAN 1,000.
- EDGE LINES MAY BE OMITTED, BASED ON ENGINEERING JUDGMENT, IN AREAS WHERE THE PAVEMENT EDGE IS DELINEATED BY PHYSICAL OBJECTS SUCH AS CURBS, PARKING SPACES, OR OTHER MARKINGS. EDGE LINES SHOULD BE INSTALLED ON ROADWAYS WITH CURB AND GUTTER IF THE POSTED SPEED LIMIT IS 45 MPH OR GREATER.

DRAWING NOT TO SCALE
USE WITH CUR. STD. DWGS.
TPR-120 & TPR-125

SUBMITTED:
DATE: 06-09-21

SPECIAL NOTE FOR NON-TRACKING TACK COAT

1. DESCRIPTION AND USEAGE. This specification covers the requirements and practices for applying a non-tracking tack asphalt coating. Place this material on the existing pavement course, prior to placement of a new asphalt pavement layer. Use when expedited paving is necessary or when asphalt tracking would negatively impact the surrounding area. This material is not suitable for other uses. Ensure material can “break” within 15 minutes under conditions listed in 3.2.
2. MATERIALS, EQUIPMENT, AND PERSONNEL.

- 2.1 Non-Tracking Tack. Provide material conforming to Subsection 2.1.1.
- 2.1.1 Provide a tack conforming to the following material requirements:

Property	Specification	Test Procedure
Viscosity, SFS, 77 ° F	20 – 100	AASHTO T 72
Sieve, %	0.3 max.	AASHTO T 59
Asphalt Residue ¹ , %	50 min.	AASHTO T 59
Oil Distillate, %	1.0 max.	AASHTO T 59
Residue Penetration, 77 ° F	0 - 30	AASHTO T 49
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	AASHTO T 315
Softening Point, ° F	149 min.	AASHTO T 53
Solubility, %	97.5 min.	AASHTO T 44

¹ Bring sample to 212 °F over a 10-15 minute period. Maintain 212 °F for 15-20 minutes or until 30-40 mL of water has distilled. Continue distillation as specified in T59.

- 2.2. Equipment. Provide a distributor truck capable of heating, circulating, and spraying the tack between 170 °F and 180 °F. Do not exceed 180 °F. Circulate the material while heating. Provide the correct nozzles that is recommend by the producer to ensure proper coverage of tack is obtained. Ensure the bar can be raised to between 14” and 18” from the roadway.
- 2.3. Personnel. Ensure the tack supplier has provided training to the contractor on the installation procedures for this product. Make a technical representative from the supplier available at the request of the Engineer.
3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the non-tracking tack, ensure the pavement surface is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the surface by scraping, sweeping, and the use of compressed air. Ensure this preparation process occurs shortly before application to prevent the return of debris on to the pavement. If rain is expected within one hour after application, do not apply material. Apply material only when the surface is dry, and no precipitation is expected.

3.2 Non-tracking Tack Application. Placement of non-tracking tack is not permitted from October 1st to May 15th. When applying material, ensure the roadway temperature is a minimum of 40°F and rising. Prior to application, demonstrate competence in applying the tack according to this note to the satisfaction of the Engineer. Heat the tack in the distributor to between 170 – 180 °F. After the initial heating, between 170 – 180 °F, the material may be sprayed between 165 °F and 180 °F. Do not apply outside this temperature range. Apply material at a minimum rate of 0.70 pounds (0.08 gallons) per square yard. Ensure full coverage of the material on the pavement surface. Full coverage of this material is critical. Increase material application rate if needed to achieve full coverage. Schedule the work so that, at the end of the day's production, all non-tracking tack is covered with the asphalt mixture. If for some reason the non-tracking tack cannot be covered by an asphalt mixture, ensure the non-tracking tack material is clean and reapply the non-tracking tack prior to placing the asphalt mixture. Do not heat material more than twice in one day.

3.3 Non-tracking Tack Certification. Furnish the tack 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 sample of non-tracking tack be taken from the distributor at a rate of one sample per 15,000 tons of mix. Take two 1 gallon samples of the heated material and forward the sample to the Division of Materials for testing within 7 days. Ensure the product temperature is between 170 and 180 °F at the time of sampling.

4. MEASUREMENT. The Department will measure the quantity of non-tracking tack in tons. 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 non-tracking tack, the cleaning of the pavement surface, or furnishing and placing the non-tracking tack. The Department will consider all such items incidental to the non-tracking tack.
5. PAYMENT. The Department will pay for the non-tracking tack 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. Non-tracking tack will not be permitted for use from October 1st to May 15th. During this timeframe, the department will allow the use of an approved asphalt emulsion in lieu of a non-tracking tack product but will not adjust the unit bid price of the material. When a sample fails on two or more tests, the Department may add the deductions, but the total deduction will not exceed 100 percent.

Non-Tracking Tack Price Adjustment Schedule						
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay
Viscosity, SFS, 77 ° F	20 – 100	19 - 102	17 - 18	15 - 16	14	≤13
			103 - 105	106 - 107	108 - 109	≥ 110
Sieve, %	0.30 max.	≤ 0.40	0.41 - 0.50	0.51 - 0.60	0.61 - 0.70	≥ 0.71
Asphalt Residue, %	50 min.	≥49.0	48.5 – 48.9	48.0 – 48.4	47.5-47.9	≤ 47.4
Oil Distillate, %	1.0 max.	≤1.0	1.1-1.5	1.6 - 1.7	1.8-1.9	>2.0
Residue Penetration, 77 ° F.	30 max.	≤ 31	32 - 33	34 - 35	36 - 37	≥ 38
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	≥0.95	0.92 – 0.94	0.90 – 0.91	0.85 - 0.89	≤ 0.84
Softening Point, ° F	149 min.	≥145	142 - 144	140 - 141	138 - 139	≤ 137
Solubility, %	97.5 min.	≥ 97.0	96.8 – 96.9	96.6 – 96.7	96.4 – 96.5	≤ 96.3

Code
24970EC

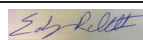
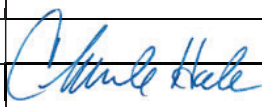
Pay Item
Asphalt Material for Tack Non-Tracking

Pay Unit
Ton

Revised: May 23, 2022


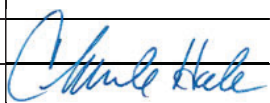
KENTUCKY TRANSPORTATION CABINET
Department of Highways
DIVISION OF RIGHT OF WAY & UTILITIESTC 62-226
Rev. 01/2016
Page 1 of 1

RIGHT OF WAY CERTIFICATION

<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #		COUNTY		PROJECT # (STATE)	PROJECT # (FEDERAL)
10-80102.00		Lee		FD04 065 0011 004-005	
PROJECT DESCRIPTION					
LEFT TURN LANE FROM .047 MILES NORTH OF LEE SENIOR CITIZENS CENTER TO .103 MILES SOUTH OF GRAND AVE					
<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 (Text is limited. Use additional sheet if necessary.)					
LPA RW Project Manager			Right of Way Supervisor		
Printed Name			Printed Name	Edgar Raleigh II	
Signature			Signature	 2023.03.20 14:37:32 -04'00'	
Date			Date	3-20-2023	
Right of Way Director			FHWA		
Printed Name	2023.03.20		Printed Name		
Signature	 21:46:55		Signature		
Date	04'00'		Date		

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)
10-80103.00		Lee		FD04 065 0011 009-010	
PROJECT DESCRIPTION					
ADD TURN LANE AT THE INTERSECTION OF KY 11 AND KY 498					
<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 (Text is limited. Use additional sheet if necessary.)					
LPA RW Project Manager			Right of Way Supervisor		
Printed Name			Printed Name	Edgar Raleigh II	
Signature			Signature	 2023.03.20 14:39:04 -04'00'	
Date			Date	3-20-2023	
Right of Way Director			FHWA		
Printed Name	2023.03.20		Printed Name		
Signature	 21:50:24		Signature		
Date	-04'00'		Date		

UTILITIES AND RAIL CERTIFICATION NOTE

<p>Lee County No federal number available FD04 065 1543301D Mile point: 4.306 TO 4.800 EXTEND TWO WAY LEFT TURNING LANE FROM .047 MILES NORTH OF LEE COUNTY SENIOR CITIZENS CENTER TO .103 MILES SOUTH OF GRAND AVE (2020CCN) (2022CCR) ITEM NUMBER: 10-80102.00</p>
--

PROJECT NOTES ON UTILITIES

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

- People's Rural Telephone/TV - Telephone
- Crystal Broadband Networks - CATV
- Delta Natural Gas Company, Inc. - Natural Gas
- City of Beattyville - Water

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

UTILITIES AND RAIL CERTIFICATION NOTE

Lee County

No federal number available

FD04 065 1543301D

Mile point: 4.306 TO 4.800

EXTEND TWO WAY LEFT TURNING LANE FROM .047 MILES NORTH OF LEE COUNTY SENIOR CITIZENS
CENTER TO .103 MILES SOUTH OF GRAND AVE (2020CCN) (2022CCR)

ITEM NUMBER: 10-80102.00

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

RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

☒ No Rail Involvement ☐ Rail Involved ☐ Rail Adjacent

UTILITIES AND RAIL CERTIFICATION NOTE

<p>Lee County</p> <p>No federal number available</p> <p>FD04 065 1543301D</p> <p>Mile point: 4.306 TO 4.800</p> <p>EXTEND TWO WAY LEFT TURNING LANE FROM .047 MILES NORTH OF LEE COUNTY SENIOR CITIZENS CENTER TO .103 MILES SOUTH OF GRAND AVE (2020CCN) (2022CCR)</p> <p>ITEM NUMBER: 10-80102.00</p>

UTILITIES AND RAIL CERTIFICATION NOTE

Lee County

No federal number available

FD04 065 1543301D

Mile point: 4.306 TO 4.800

EXTEND TWO WAY LEFT TURNING LANE FROM .047 MILES NORTH OF LEE COUNTY SENIOR CITIZENS
CENTER TO .103 MILES SOUTH OF GRAND AVE (2020CCN) (2022CCR)

ITEM NUMBER: 10-80102.00

AREA FACILITY OWNER CONTACT LIST

Facility Owner	Address	Contact Name	Phone	Email
City of Beattyville - Water	PO Box 307 Beatyville KY 41311	Scott Jackson	6064645207	sjackson@beattyville.org
Crystal Broadband Networks - CATV	PO Box 580 Clay City KY 40312	Kevin Gibson	8773190328	kgibson@crystalbn.com
Delta Natural Gas Company, Inc. - Natural Gas	3617 Lexington Road Winchester KY 40391	Robert Nellipowitz	8597446171	rnellipowitz@deltagas.com
People's Rural Telephone/TV - Telephone	P.O. Box 159 McKee KY 40447	John Renner	6062877101	John.Renner@prtc.org

UTILITIES AND RAIL CERTIFICATION NOTE

Lee County

No federal number available

FD04 065 1568001D

Mile point: 9.400 TO 9.423

ADD TURN LANE AT THE INTERSECTION OF KY 11 AND KY 498 (2022CCR)

ITEM NUMBER: 10-80103.00

PROJECT NOTES ON UTILITIES

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

- Delta Natural Gas Company, Inc. - Natural Gas
- City of Beattyville - Water
- Crystal Broadband Networks - CATV
- People's Rural Telephone/TV - Telephone

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

UTILITIES AND RAIL CERTIFICATION NOTE

<p>Lee County</p> <p>No federal number available</p> <p>FD04 065 1568001D</p> <p>Mile point: 9.400 TO 9.423</p> <p>ADD TURN LANE AT THE INTERSECTION OF KY 11 AND KY 498 (2022CCR)</p> <p>ITEM NUMBER: 10-80103.00</p>
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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

RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

☒ No Rail Involvement ☐ Rail Involved ☐ Rail Adjacent

UTILITIES AND RAIL CERTIFICATION NOTE

Lee County

No federal number available

FD04 065 1568001D

Mile point: 9.400 TO 9.423

ADD TURN LANE AT THE INTERSECTION OF KY 11 AND KY 498 (2022CCR)

ITEM NUMBER: 10-80103.00

AREA FACILITY OWNER CONTACT LIST

Facility Owner	Address	Contact Name	Phone	Email
City of Beattyville - Water	PO Box 307 Beatyville KY 41311	Scott Jackson	6064645207	sjackson@beattyville.org
Crystal Broadband Networks - CATV	PO Box 580 Clay City KY 40312	Kevin Gibson	8773190328	kgibson@crystalbn.com
Delta Natural Gas Company, Inc. - Natural Gas	3617 Lexington Road Winchester KY 40391	Robert Nellipowitz	8597446171	rnellipowitz@deltagas.com
People's Rural Telephone/TV - Telephone	P.O. Box 159 McKee KY 40447	John Renner	6062877101	John.Renner@prtc.org

MATERIAL SUMMARY

CONTRACT ID: 241001

065GR24D001-FD04

DE06500112401

KY-11 EXTEND TWO WAY LEFT TURN LANE FROM .047 MILES NORTH OF LEE COUNTY SENIOR CITIZENS CENTER TO .103 MILES SOUTH OF GRAND AVE ASPHALT SURFACE WITH GRADE & DRAIN, A DISTANCE OF .59 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	1,204.00	TON
0010	00100	ASPHALT SEAL AGGREGATE	9.00	TON
0015	00103	ASPHALT SEAL COAT	2.00	TON
0020	00190	LEVELING & WEDGING PG64-22	521.00	TON
0025	00212	CL2 ASPH BASE 1.00D PG64-22	2,277.00	TON
0030	00301	CL2 ASPH SURF 0.38D PG64-22	1,598.00	TON
0035	02677	ASPHALT PAVE MILLING & TEXTURING	3,807.00	TON
0040	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	9.00	TON
0045	01904	REMOVE CURB	428.00	LF
0050	02014	BARRICADE-TYPE III	4.00	EACH
0055	02383	REMOVE & RESET GUARDRAIL	437.50	LF
0060	02562	TEMPORARY SIGNS	108.00	SQFT
0065	02585	EDGE KEY	25.00	LF
0070	02650	MAINTAIN & CONTROL TRAFFIC - 10-80102	1.00	LS
0075	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0080	02676	MOBILIZATION FOR MILL & TEXT - 10-80102	1.00	LS
0085	02696	SHOULDER RUMBLE STRIPS	6,418.00	LF
0090	02726	STAKING - 10-80102	1.00	LS
0095	06407	SBM ALUM SHEET SIGNS .125 IN	23.00	SQFT
0100	06410	STEEL POST TYPE 1	45.00	LF
0105	06510	PAVE STRIPING-TEMP PAINT-4 IN	32,493.00	LF
0110	06542	PAVE STRIPING-THERMO-6 IN W	7,378.00	LF
0115	06543	PAVE STRIPING-THERMO-6 IN Y	10,099.00	LF
0120	06574	PAVE MARKING-THERMO CURV ARROW	6.00	EACH
0125	06612	INLAID PAVEMENT MARKER-BY	78.00	EACH
0130	10020NS	FUEL ADJUSTMENT	6,843.00	DOLL
0135	10030NS	ASPHALT ADJUSTMENT	17,187.00	DOLL
0140	20071EC	JOINT ADHESIVE	5,715.00	LF
0145	22883EN	CONCRETE WEDGE CURB	428.00	LF
0150	24631EC	BARCODE SIGN INVENTORY	3.00	EACH
0155	24880EC	REMOVE PAVEMENT MARKER	10.00	EACH
0160	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 241001

065GR24D001-FD04

DE06500112402

KY-11 ADD TURN LANE AT THE INTERSECTION OF KY-11 AND KY-498 ASPHALT RESURFACING, A DISTANCE OF .19 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0165	00001	DGA BASE	246.00	TON
0170	00190	LEVELING & WEDGING PG64-22	100.00	TON
0175	00212	CL2 ASPH BASE 1.00D PG64-22	811.00	TON
0180	00301	CL2 ASPH SURF 0.38D PG64-22	413.00	TON
0185	02677	ASPHALT PAVE MILLING & TEXTURING	1,471.00	TON
0190	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	3.00	TON
0195	02014	BARRICADE-TYPE III	4.00	EACH
0200	02562	TEMPORARY SIGNS	143.00	SQFT
0205	02650	MAINTAIN & CONTROL TRAFFIC - 10-80103.00	1.00	LS
0210	02671	PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH
0215	02676	MOBILIZATION FOR MILL & TEXT - 10-80103.00	1.00	LS
0220	02696	SHOULDER RUMBLE STRIPS	1,936.00	LF
0225	02726	STAKING - 10-80103.00	1.00	LS
0230	06510	PAVE STRIPING-TEMP PAINT-4 IN	10,916.00	LF
0235	06514	PAVE STRIPING-PERM PAINT-4 IN	200.00	LF
0240	06542	PAVE STRIPING-THERMO-6 IN W	2,045.00	LF
0245	06543	PAVE STRIPING-THERMO-6 IN Y	3,415.00	LF
0250	06568	PAVE MARKING-THERMO STOP BAR-24IN	40.00	LF
0255	06574	PAVE MARKING-THERMO CURV ARROW	2.00	EACH
0260	10020NS	FUEL ADJUSTMENT	2,061.00	DOLL
0265	10030NS	ASPHALT ADJUSTMENT	9,856.00	DOLL
0270	20071EC	JOINT ADHESIVE	1,021.00	LF
0275	20458ES403	CENTERLINE RUMBLE STRIPS	915.00	LF
0280	02569	DEMOBILIZATION	1.00	LS

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

STANDARD SPECIFICATIONS

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 2020*.

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.

- 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

11
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

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, 1025 Capital Center Drive, Suite 104, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: May 23, 2022

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 1½ 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



U.S. Wage and Hour Division

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	1,450.00	TON		\$	
0020	00100		ASPHALT SEAL AGGREGATE	9.00	TON		\$	
0030	00103		ASPHALT SEAL COAT	2.00	TON		\$	
0040	00190		LEVELING & WEDGING PG64-22	621.00	TON		\$	
0050	00212		CL2 ASPH BASE 1.00D PG64-22	3,088.00	TON		\$	
0060	00301		CL2 ASPH SURF 0.38D PG64-22	2,011.00	TON		\$	
0070	02677		ASPHALT PAVE MILLING & TEXTURING	5,278.00	TON		\$	
0080	24970EC		ASPHALT MATERIAL FOR TACK NON-TRACKING	12.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0090	01904		REMOVE CURB	428.00	LF		\$	
0100	02014		BARRICADE-TYPE III	8.00	EACH		\$	
0110	02383		REMOVE & RESET GUARDRAIL	437.50	LF		\$	
0120	02562		TEMPORARY SIGNS	251.00	SQFT		\$	
0130	02585		EDGE KEY	25.00	LF		\$	
0140	02650		MAINTAIN & CONTROL TRAFFIC 10-80102	1.00	LS		\$	
0150	02650		MAINTAIN & CONTROL TRAFFIC 10-80103.00	1.00	LS		\$	
0160	02671		PORTABLE CHANGEABLE MESSAGE SIGN	5.00	EACH		\$	
0170	02676		MOBILIZATION FOR MILL & TEXT 10-80102	1.00	LS		\$	
0180	02676		MOBILIZATION FOR MILL & TEXT 10-80103.00	1.00	LS		\$	
0190	02696		SHOULDER RUMBLE STRIPS	8,354.00	LF		\$	
0200	02726		STAKING 10-80102	1.00	LS		\$	
0210	02726		STAKING 10-80103.00	1.00	LS		\$	
0220	06407		SBM ALUM SHEET SIGNS .125 IN	23.00	SQFT		\$	
0230	06410		STEEL POST TYPE 1	45.00	LF		\$	
0240	06510		PAVE STRIPING-TEMP PAINT-4 IN	43,409.00	LF		\$	
0250	06514		PAVE STRIPING-PERM PAINT-4 IN	200.00	LF		\$	
0260	06542		PAVE STRIPING-THERMO-6 IN W	9,423.00	LF		\$	
0270	06543		PAVE STRIPING-THERMO-6 IN Y	13,514.00	LF		\$	
0280	06568		PAVE MARKING-THERMO STOP BAR-24IN	40.00	LF		\$	
0290	06574		PAVE MARKING-THERMO CURV ARROW	8.00	EACH		\$	
0300	06612		INLAID PAVEMENT MARKER-BY	78.00	EACH		\$	
0310	10020NS		FUEL ADJUSTMENT	8,904.00	DOLL	\$1.00	\$	\$8,904.00
0320	10030NS		ASPHALT ADJUSTMENT	27,043.00	DOLL	\$1.00	\$	\$27,043.00
0330	20071EC		JOINT ADHESIVE	6,736.00	LF		\$	
0340	20458ES403		CENTERLINE RUMBLE STRIPS	915.00	LF		\$	
0350	22883EN		CONCRETE WEDGE CURB	428.00	LF		\$	
0360	24631EC		BARCODE SIGN INVENTORY	3.00	EACH		\$	
0370	24880EC		REMOVE PAVEMENT MARKER	10.00	EACH		\$	

Section: 0003 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0380	02569		DEMOBILIZATION	1.00	LS		\$	