

CALL NO. 404
CONTRACT ID. 192605
OHIO COUNTY

FED/STATE PROJECT NUMBER <u>092GR19M050 - FE02</u>

DESCRIPTION WESTERN KY PKWY BRIDGE REPAIR AND SUPER REPLACEMENT

WORK TYPE BRIDGE REPAIRS

PRIMARY COMPLETION DATE 8/30/2020

LETTING DATE: June 21,2019

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME June 21,2019. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

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

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PART I SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 02

CONTRACT ID - 192605 092GR19M050 - FE02

COUNTY - OHIO

PCN - MB09290011903 FE02 092 9001 B00072L

WK 9001 WB (MP 76.74). BRIDGE OVER NATCHER PKWYBRIDGE DECK RESTORATION & WATERPROOFING GEOGRAPHIC COORDINATES LATITUDE 37:23:05.00 LONGITUDE 86:48:33.00

PCN - MB09290011904 FE02 092 9001 B00072R

WK 9001 EB (MP 76.74). BRIDGE OVER NATCHER PKWYBRIDGE DECK RESTORATION & WATERPROOFING GEOGRAPHIC COORDINATES LATITUDE 37:23:04.00 LONGITUDE 86:48:33.00

PCN - MB09290011905 FE02 092 9001 B00130L

WK 9001 WB (MP 85.76). BRIDGE OVER KY-2713BRIDGE DECK RESTORATION & WATERPROOFING GEOGRAPHIC COORDINATES LATITUDE 37:23:05.00 LONGITUDE 86:39:02.00

PCN - MB09290011906 FE02 092 9001 B00130R

WK 9001 EB (MP 85.76). BRIDGE OVER KY-2713BRIDGE DECK RESTORATION & WATERPROOFING GEOGRAPHIC COORDINATES LATITUDE 37:23:04.00 LONGITUDE 86:39:01.00

PCN - MB09290011907 FE02 092 9001 B00132L

WK 9001 WB (MP 74.59). BRIDGE OVER US 231BRIDGE SUPERSTRUCTURE REPLACEMENT GEOGRAPHIC COORDINATES LATITUDE 37:22:03.00 LONGITUDE 86:50:34.00

PCN - MB09290011908 FE02 092 9001 B00132R

WK 9001 EB (MP 74.59). BRIDGE OVER US231BRIDGE SUPERSTRUCTURE REPLACEMENT GEOGRAPHIC COORDINATES LATITUDE 37:22:03.00 LONGITUDE 86:50:33.00

PCN - MB09290011909 FE02 092 9001 B00133L

WK 9001 WB (MP 72.42). BRIDGE OVER KY-369BRIDGE DECK RESTORATION & WATERPROOFING GEOGRAPHIC COORDINATES LATITUDE 37:21:22.00 LONGITUDE 86:52:41.00

PCN - MB09290011910 FE02 092 9001 B00133R

WK 9001 EB (MP 72.42). BRIDGE OVER KY-369BRIDGE DECK RESTORATION & WATERPROOFING GEOGRAPHIC COORDINATES LATITUDE 37:21:21.00 LONGITUDE 86:52:41.00

PCN - MB09290011911 FE02 092 9001 B00134L

WK 9001 WB (MP 69.73). BRIDGE OVER LEWIS CREEKBRIDGE DECK RESTORATION & WATERPROOFING GEOGRAPHIC COORDINATES LATITUDE 37:20:59.00 LONGITUDE 86:55:31.00

PCN - MB09290011912 FE02 092 9001 B00134R

WK 9001 EB (MP 69.73). BRIDGE OVER LEWIS CREEKBRIDGE DECK RESTORATION & WATERPROOFING GEOGRAPHIC COORDINATES LATITUDE 37:20:59.00 LONGITUDE 86:55:30.00

COMPLETION DATE(S):

OHIO COUNTY 092GR19M050 - FE02

COMPLETED BY 08/30/2020

APPLIES TO ENTIRE CONTRACT

APPLIES TO 092B72L,R; 092B130L,R; 092B133L,R;

30 CALENDAR Days

120 CALENDAR Days

APPLIES TO 092B00132L,R

092B134L,R

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CONTRACT NOTES

PROPOSAL ADDENDA

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

BID SUBMITTAL

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

JOINT VENTURE BIDDING

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

UNDERGROUND FACILITY DAMAGE PROTECTION

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

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

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

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

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

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

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

HARDWOOD REMOVAL RESTRICTIONS

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

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

ACCESS TO RECORDS

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

OHIO COUNTY 092GR19M050 - FE02

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

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

April 30, 2018

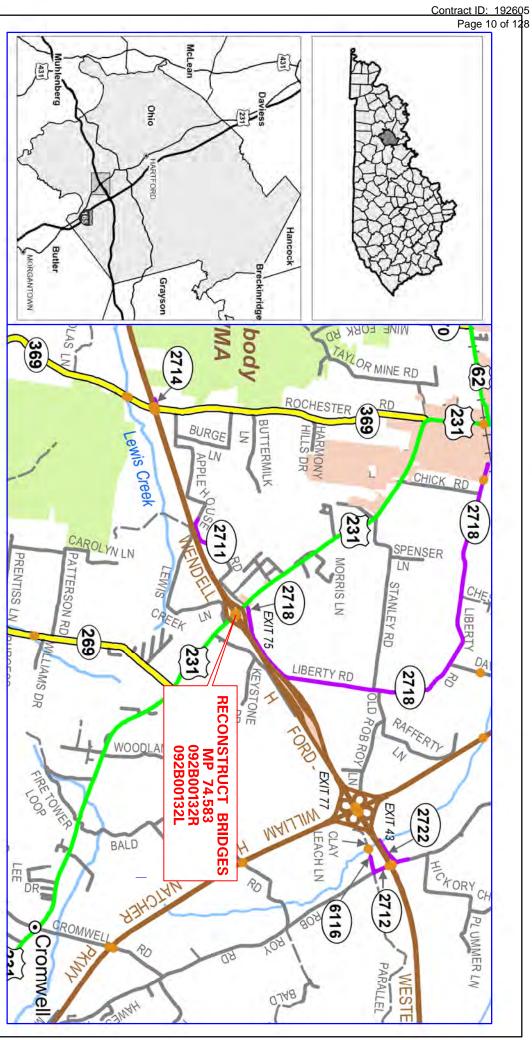
OHIO COUNTY 092GR19M050 - FE02

SPECIAL NOTE FOR RECIPROCAL PREFERENCE

RECIPROCAL PREFERENCE TO BE GIVEN BY PUBLIC AGENCIES TO RESIDENT BIDDERS

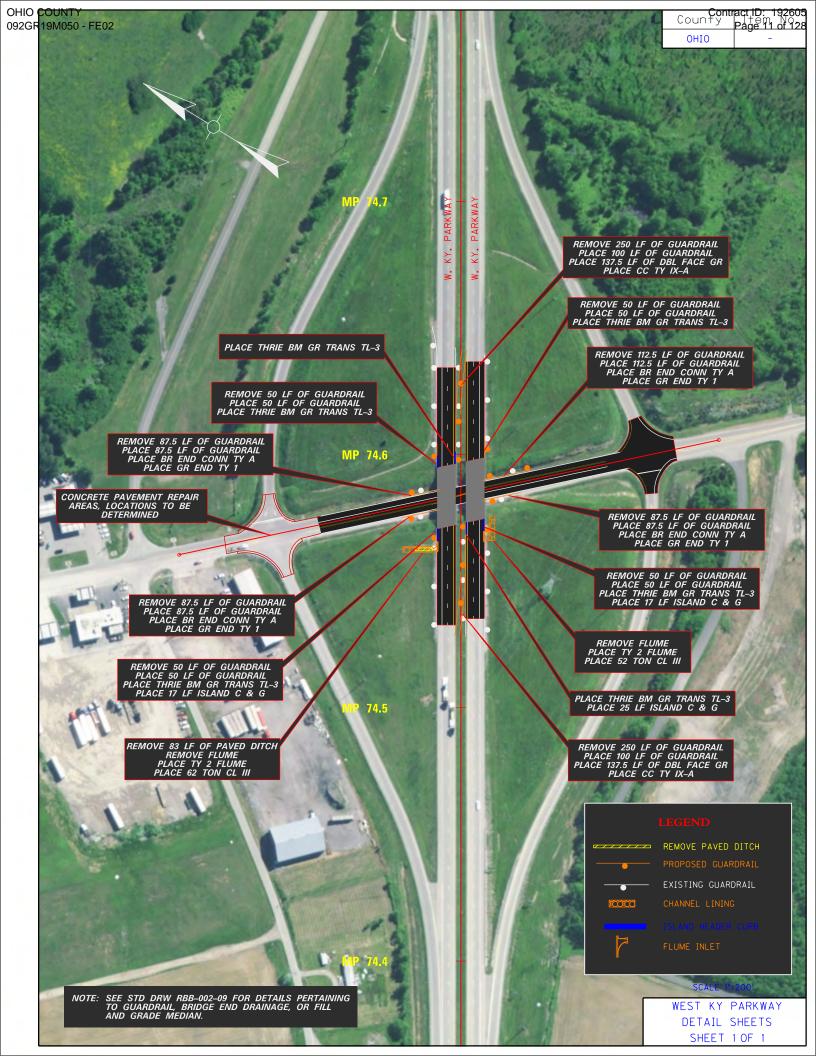
By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the electronic bidding software. Submittal of the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

April 30, 2018



FHWA APPROVED BY: **PROJECT NUMBER:** PLAN APPROVED BY: RECOMMENDED BY: -ITEM NUMBER: 6-20002.00 State Highway Engineer ¥ Project Manager I 9001 BRIDGE DATE: DATE: LETTING DATE: REPLACEMENTS JUNE 21, 2019

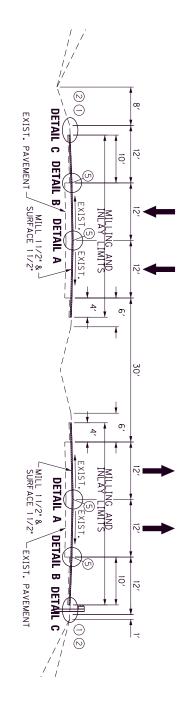




PROPOSED TYPICAL SECTIONS

WESTERN KENTUCKY PARKWAY

County OIHO Item No. Sheet



MAINLINE NORMAL SECTION

SURFACING SCHEDULE MAINLINE & SHOULDERS

4

(3) LEVELING AND WEDGING PG76-22......AS DIRECTED CL4 ASPH SURFACE 0.50A PC76-22.....11/2" DEPTH ASPHALT PAVEMENT MILLING AND TEXTURING..... 11/2" DEPTH

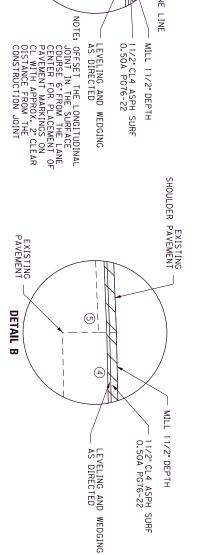
- \odot SHOULDER WIDENED 2' WHERE GUARDRAIL IS PRESENT
- W TO BE USED AS DIRECTED BY THE ENGINEER FOR PAVEMENT IRREGULARITIES.
- Θ

<u>(4</u>)

APPLY ASPHALT MATERIAL FOR NON-TRACKING TACK AT A RATE OF 0.5LBS/SY BETWEEN EACH LAYER OF ASPH. CONCRETE.

(5)

JOINT ADHESIVE



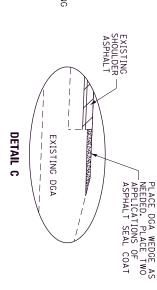
PROPOSED PAVEMENT JOINT

EXISTING MAINLINE PAVEMENT

4

OHIO COUNTY 092GR19M050 - FE02

DETAIL A



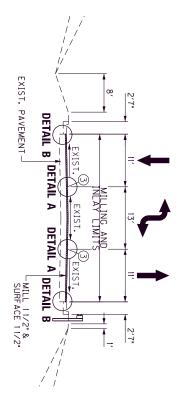
WK 9001 TYPICAL SEC SECTIONS

NOT TO SCALE

PROPOSED TYPICAL SECTIONS

US 231

County Item No. OIHO Shee+



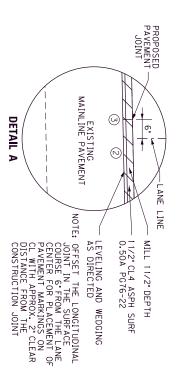
MAINLINE NORMAL SECTION

SURFACING SCHEDULE

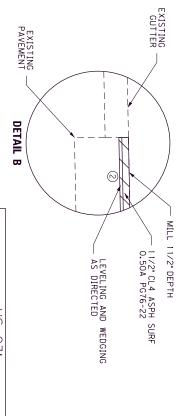
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① LEVELING AND WEDGING PG76-22......AS DIRECTED CL4 ASPH SURFACE 0.50A PG76-22......11/2" DEPTH ASPHALT PAVEMENT MILLING AND TEXTURING..... 11/2" DEPTH MAINLINE & SHOULDERS

- Θ TO BE USED AS DIRECTED BY THE ENGINEER FOR PAVEMENT IRREGULARITIES.
- \bigcirc APPLY ASPHALT MATERIAL FOR NON-TRACKING TACK AT A RATE OF 0.5LBS/SY BETWEEN EACH LAYER OF ASPH. CONCRETE.
- W JOINT ADHESIVE



OHIO COUNTY 092GR19M050 - FE02



US 231 TYPICAL SECTIONS

NOT TO SCALE

OHIO COUNTY Contract ID: 192605

WKP - KY 9001
OHIO COUNTY
BRIDGE OVER US 231 - REPAIR
MILEPOINT 74.528 TO 74.641
GENERAL SUMMARY

	GENERAL SOMMAN			
ITEM NUMBER	ITEM		UNIT	QUANTITY
00001	DGA BASE	1	TON	200
00100	ASPHALT SEAL AGGREGATE	1	TON	15
00103	ASPHALT SEAL COAT	1	TON	2
00194	LEVELING & WEDGING PG76-22	1	TON	75
00219	CL4 ASPH BASE 1.00D PG76-22	1	TON	220
00335	CL4 ASPH SURF 0.50A PG76-22	1	TON	596
02677	ASPHALT PAVE MILLING & TEXTURING	(1)	TON	596
20071EC	JOINT ADHESIVE	1	LF	3,332
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	(1)	TON	3
01691	FLUME INLET TYPE 2	(2)	EACH	2
01890	ISLAND HEADER CURB TYPE 1	2	LF	34
02165	REMOVE PAVED DITCH	2	SQYD	83
02484	CHANNEL LINING CLASS III	(2)	TON	114
24894EC	REMOVE FLUME	(2)	EACH	2
01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	(3)	EACH	14
01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	(3)	EACH	9
02351	GUARDRAIL-STEEL W BEAM-S FACE	(3)	LF	775
02352	GUARDRAIL-STEEL W BEAM-D FACE	(3)	LF	275
02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	(3)	EACH	4
02365	CRASH CUSHION TYPE IX-A	(3)	EACH	2
02367	GUARDRAIL END TREATMENT TYPE 1	3	EACH	4
02381	REMOVE GUARDRAIL	3	LF	1,075
25025ED	THRIE BEAM GUARDRAIL TRANSITION TL-3	(3)	EACH	6
02360	GUARDRAIL TERMINAL SECTION NO 1	(3)	EACH	2
02159	TEMP DITCH		LF	675
02160	CLEAN TEMP DITCH		LF	337.5
02703	SILT TRAP TYPE A		EACH	6
02704	SILT TRAP TYPE B		EACH	1
02705	SILT TRAP TYPE C		EACH	1
02706	CLEAN SILT TRAP TYPE A		EACH	6
02707	CLEAN SILT TRAP TYPE B		EACH	1
02708	CLEAN SILT TRAP TYPE C		EACH	1
05950	EROSION CONTROL BLANKET		SQYD	2,420
05952	TEMP MULCH		SQYD	1,613
05953	TEMP SEEDING AND PROTECTION		SQYD	1,210

1 Carried Over from Paving Sum

² Carried Over from Pipe Sum

⁽³⁾ Carried Over from Guardrail Sum

OHIO COUNTY Contract ID: 192605

WKP - KY 9001 OHIO COUNTY BRIDGE OVER US 231 - REPAIR MILEPOINT 74.528 TO 74.641 GENERAL SUMMARY

	SEITEIU E SOITIITIAN		
ITEM NUMBER	ITEM	UNIT	QUANTITY
05963	INITIAL FERTILIZER	TON	0.3
05964	FERTILIZER 20-10-10	TON	0.2
05989	SPECIAL SEEDING CROWN VETCH	SQYD	290
05992	AGRICULTURAL LIMESTONE	TON	0.1
40030	TEMPORARY SILT FENCE	LF	1,210
02562	TEMPORARY SIGNS	SQFT	1,000
02650	MAINTAIN & CONTROL TRAFFIC	LS	1
02671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	6
02676	MOBILIZATION FOR MILL & TEXT	LS	1
02775	ARROW PANEL	EACH	2
23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	LF	72
04933	TEMP SIGNAL 2 PHASE	EACH	2
06511	PAVE STRIPING-TEMP PAINT-6 IN	LF	15,500
06542	PAVE STRIPING-THERMO-6 IN W	LF	3,023
06543	PAVE STRIPING-THERMO-6 IN Y	LF	2,181
06556	PAVE STRIPING-DUR TY 1-6 IN W	LF	400
06557	PAVE STRIPING-DUR TY 1-6 IN Y	LF	300
24489EC	INLAID PAVEMENT MARKER	EACH	42
06568	PAVE MARKING-THERMO STOP BAR-24IN	LF	51
23265ES717	PAVE MARK TY 1 TAPE STOP BAR-24 IN	LF	69
06574	PAVE MARKING-THERMO CURV ARROW	EACH	8
02545	CLEARING AND GRUBBING (4)	LS	1
02726	STAKING	LS	1
02696	SHOULDER RUMBLE STRIPS	LF	1,632
21451ED	FILL AND GRADE MEDIAN	LF	500
20191ED	OBJECT MARKER TY 3	EACH	4
02091	REMOVE PAVEMENT	SQYD	250
02023	JPC PAVEMENT-9 IN/24	SQYD	250
	·	•	
01984	DELINEATOR FOR BARRIER - WHITE	EACH	16
01985	DELINEATOR FOR BARRIER - YELLOW	EACH	8

4 APPROXIMATELY .5 ACRES

OHIO COUNTY Contract ID: 192605

WKP - KY 9001 OHIO COUNTY BRIDGE OVER US 231 - REPAIR MILEPOINT 74.528 TO 74.641 GENERAL SUMMARY

	GENERAL SUMMARY		
TEM NUMBER	ITEM	UNIT	QUANTITY
08301	REMOVE SUPERSTRUCTURE - 092B00132L	LS	1
08301	REMOVE SUPERSTRUCTURE - 092B00132R	LS	1
02569	DEMOBILIZATION	LS	1

WKP - KY 9001 OHIO COUNTY BRIDGE OVER US 231 - REPAIR MILEPOINT 74.528 TO 74.641

PAVING SUMMARY

		<u> </u>							
PAVING AREAS		PAVING AREAS							
ITEM	TOTAL	ITEM	TOTAL						
MAINLINE (TRAVEL LANES & SHOULDERS)									
1 1/2" CL4 ASPH SURF 0.50A PG76-22	7,229								
1 1/2" ASPHALT PAVE MILLING & TEXTURING	7,229								
BRIDGE APPROACHES									
4" CL4 ASPH BASE 1.00D PG76-22 (3 COURSE)	1,008								
4" DGA BASE	336								
SHOULDERS									
ASPHALT SEAL AGGREGATE	729								
ASPHALT SEAL COAT	729								

PAVING SUMMARY

	I AVIIVO SOIVIIVIANI			
ITEM NUMBER	ITEM		UNIT	QUANTITY
00001	DGA BASE	2	TON	200
00100	ASPHALT SEAL AGGREGATE	3	TON	15
00103	ASPHALT SEAL COAT	4	TON	2
00194	LEVELING & WEDGING PG76-22	1	TON	75
00219	CL4 ASPH BASE 1.00D PG76-22		TON	220
00335	CL4 ASPH SURF 0.50A PG76-22		TON	596
02677	ASPHALT PAVE MILLING & TEXTURING		TON	596
20071EC	JOINT ADHESIVE		LF	3,332
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	(5)	TON	3

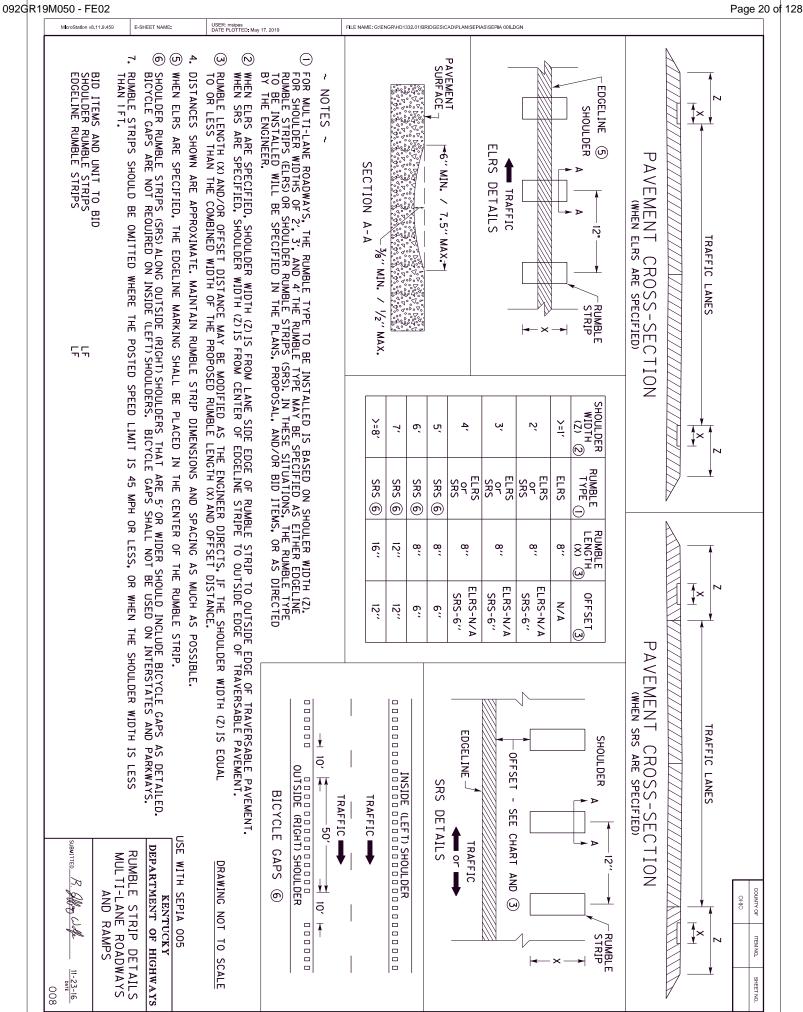
- 1 TO BE USED AS DIRECTED BY ENGINEER
- (2) 50 TONS ADDED FOR SHOULDER DROPOFF
- 3 BASED ON 2 APPLICATIONS OF 20 LBS/SY
- 4 BASED ON 2 APPLICATIONS OF 2.4 LBS/SY
- (5) BASED ON 0.5 LBS/SY PER APPLICATION
- ALL ASPHALT MIXES BASED ON 110 LBS/SY AND ALL STONE
- BASE BASED ON 115 LBS/SY OR 2.07 TONS PER CY

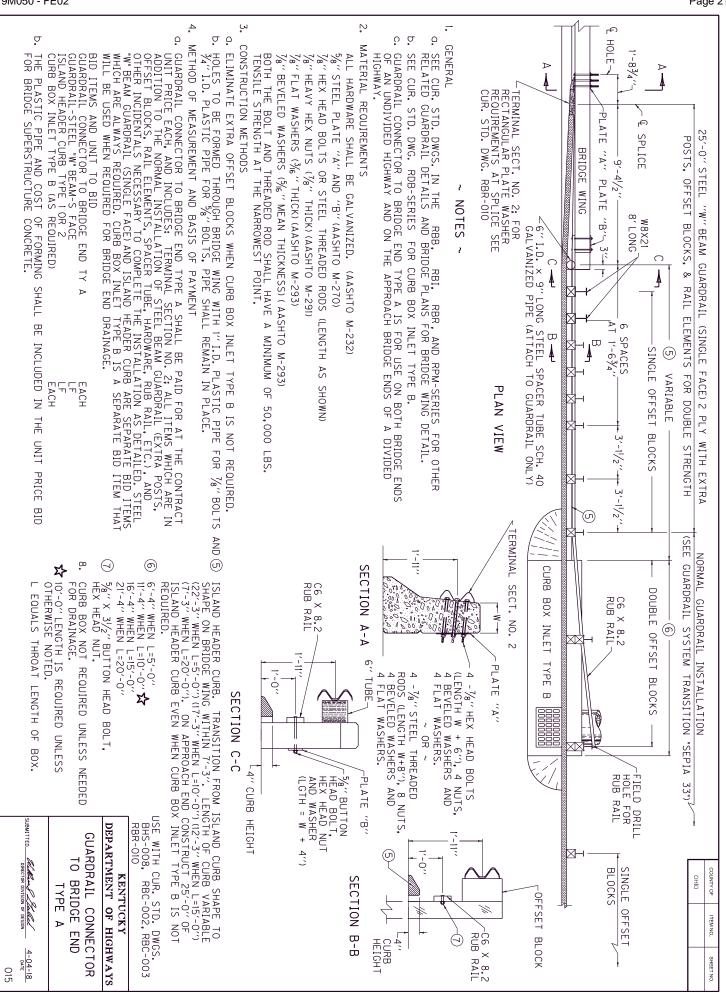
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1			<u>~</u>	Ţ		GUARDRAIL TERMINAL	D 02360	EACH	1				Н											1	_	2
			EPAI	74.64	₽K	THRIE BEAM GUARDRAIL 8-17 NOITISNART	25025ED		1	1	1	η,	η,	1												9
	001	ΣŢ	31 - R	TO 7	MMM	REMOVE GUARDRAIL	02381	'n	250	20	20	50	250	20			87.5	87.5	87.5	112.5						1075
	WKP - KY 9001	OHIO COUNTY	GE OVER US 231 - REPAIR	EPOINT 74.528 TO 74.641	UARDRAIL SUMMARY	GUARDRAIL END TREATMENT TYPE 1	02367	EACH									1	1	1	П						4
of	WKP	OHO	OVER	OINT 7	RDRA	CRASH CUSHION TYPE IX-A	02365	EACH	1			,	1													2
1			BRIDGE	MILEP(€UA	GUARDRAIL CONNECTOR TO BRIDGE END TY A	02363	EACH									1	1	1	1						4
Sheet			8	2		GUARDRAIL-STEEL W BEAM- 3)A1	02352	LF	137.5			1	137.5													275
						GUARDRAIL-STEEL W BEAM- S FACE	02351	LF	100	20	20	20	100	20			87.5	87.5	87.5	112.5						775
						DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	01987	ЕАСН									2	2	2	n						6
						DELINEATOR FOR GURECTIONAL WHITE	01982	EACH	5	1	П	Η ι	5 ,	1												14
						TO MILEPOST **			74.573	74.571	74.575	74.604	74.641	74.608			0.938	0.940	0.971	0.977						
						FROM MILEPOST **	ITEM CODE		74.528	74.561	74.565	74.595	74.596	74.599	l	US 231	0.922	0.924	0.955	0.956	l					PROJECT TOTAL
						POINT NUMBERS *	ITE									٦										PROJ

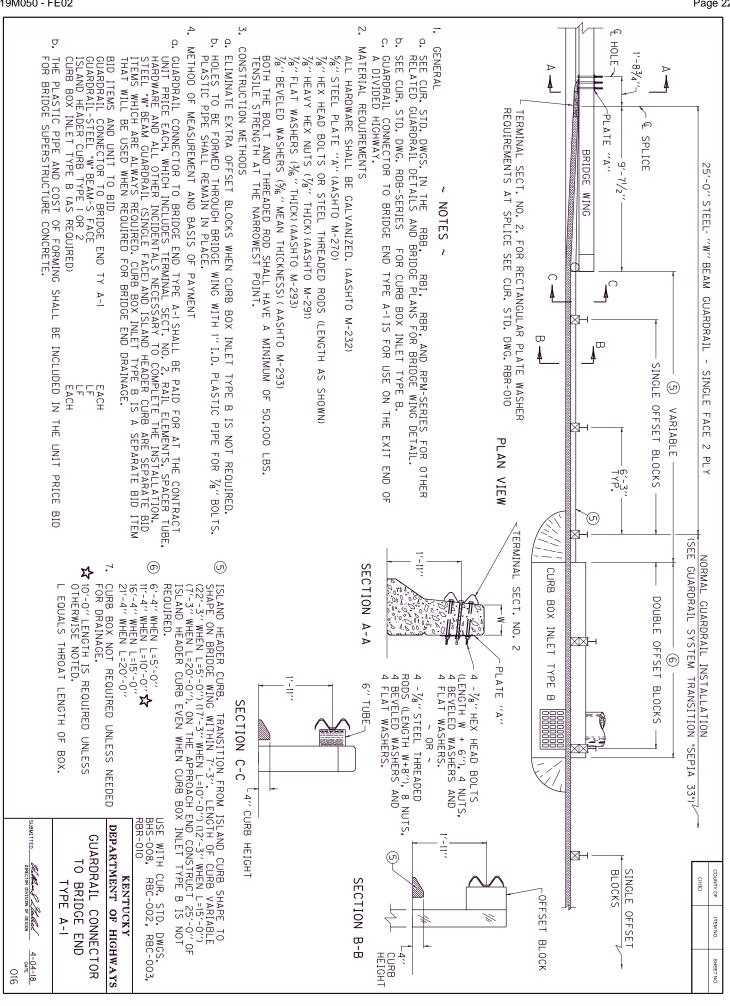
OHIO COUNTY 092GR1<u>9M050 - FE02</u> Contract ID: 192605

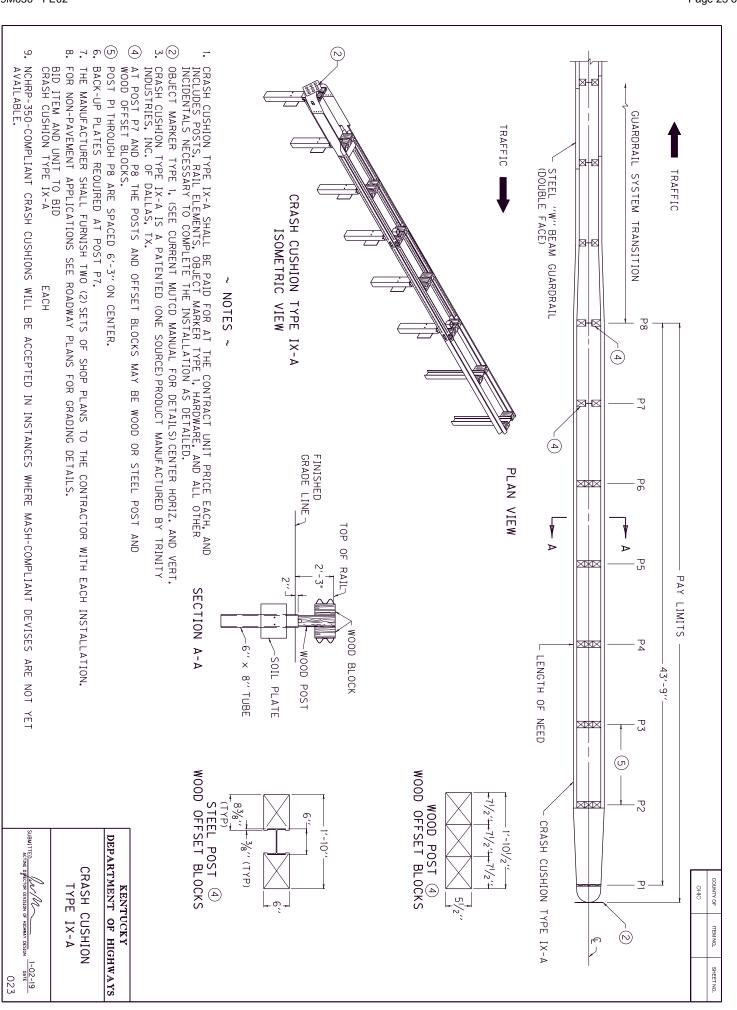
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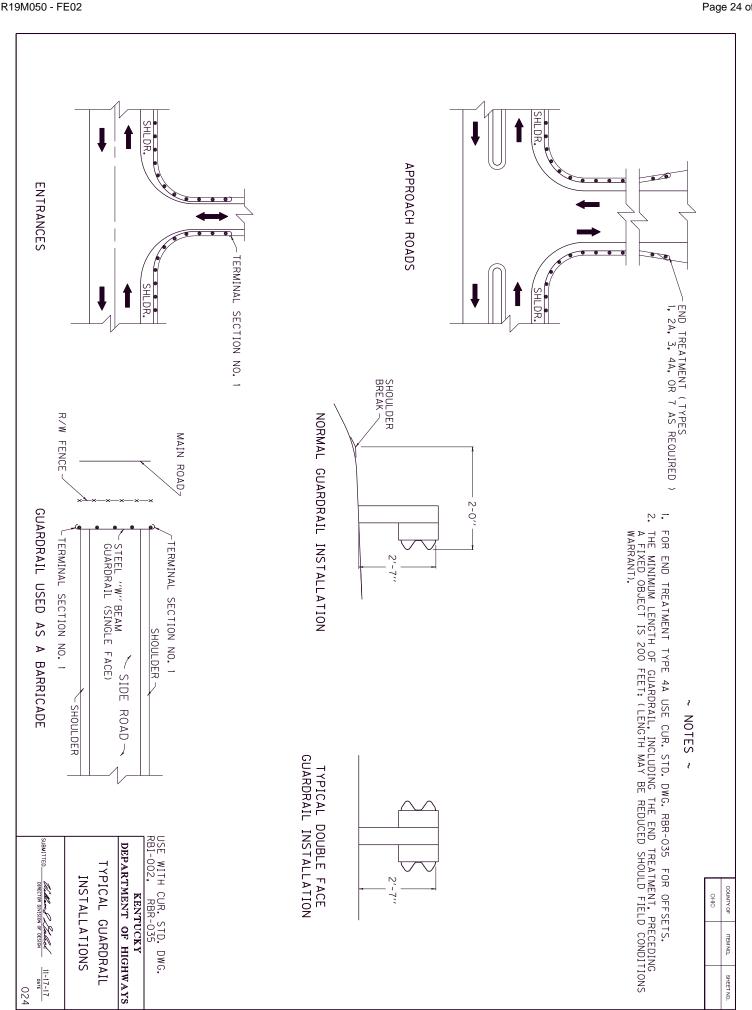
REMARKS **BRIDGE OVER US 231 - REPAIR MILEPOINT 74.528 TO 74.641 PIPE SUMMARY** OHIO COUNTY WKP - KY 9001 02484 24894EC SQYD TON EACH REMOVE FLUME 62 52 CHANNEL LINING CLASS III 02165 83 REMOVE PAVED DITCH 01890 Ή 17 17 34 ISLAND HEADER CURB TYPE 01691 EACH FLUME INLET TYPE 2 ITEM CODE WB MP 74.563 EB MP 74.567 WB MP 74.568 STATION EB MP 74.572 LINI

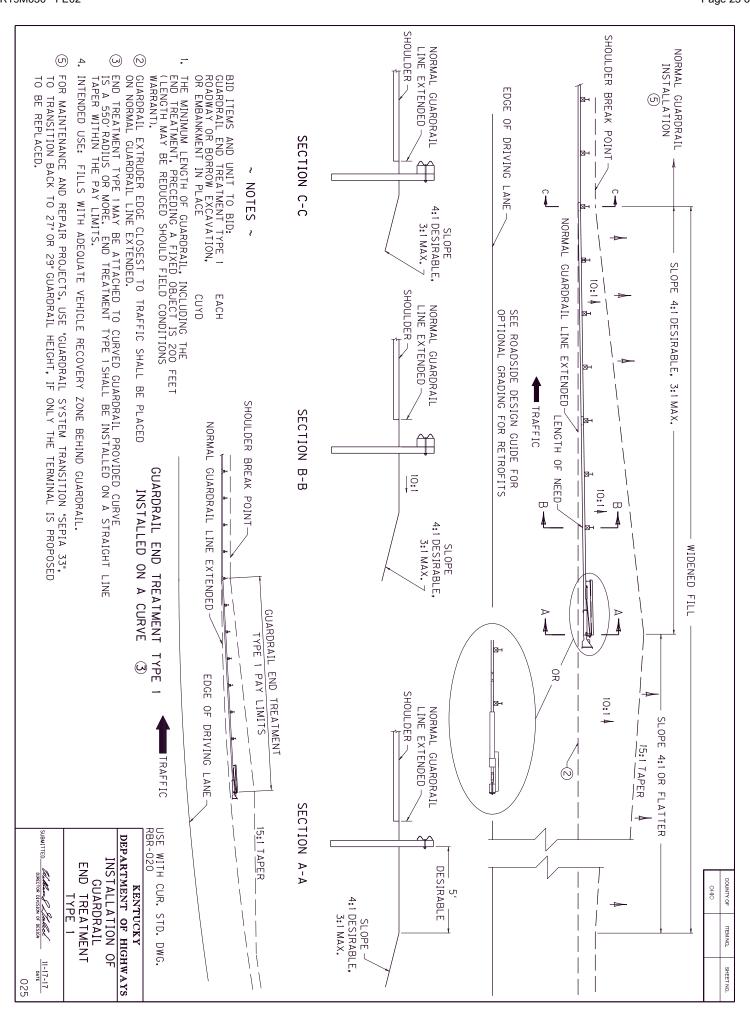


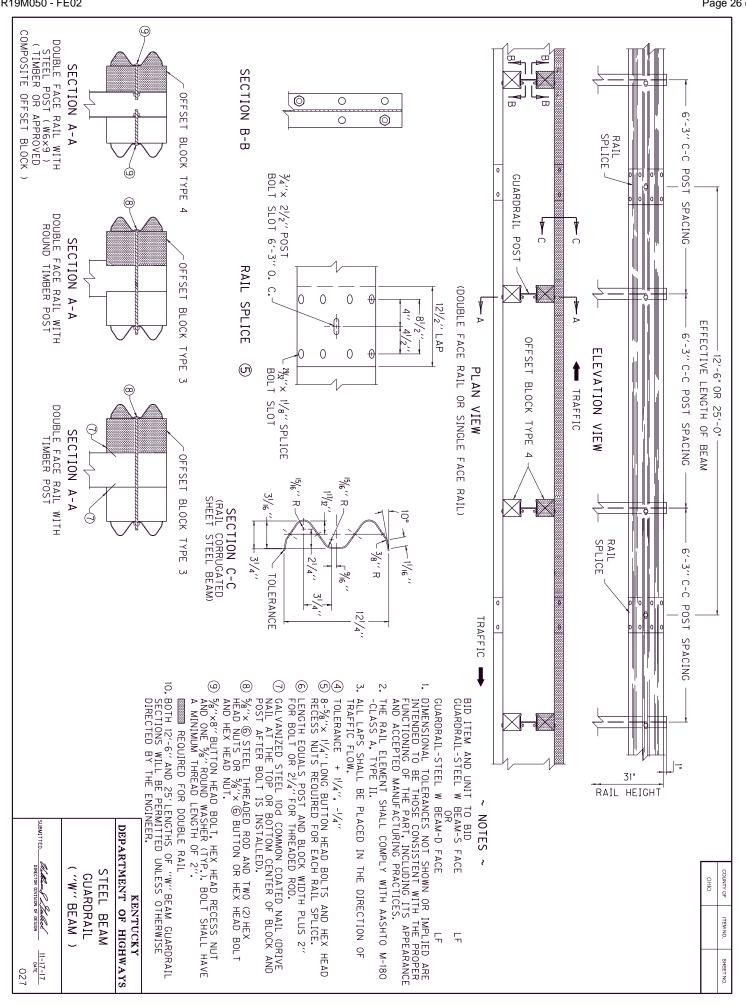


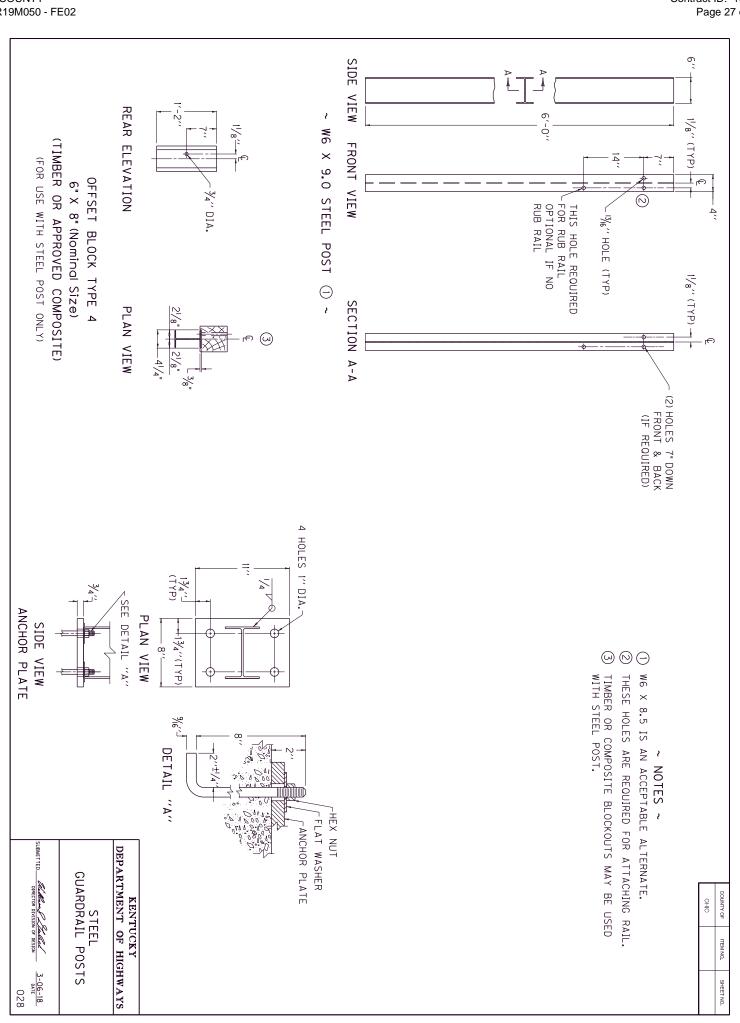


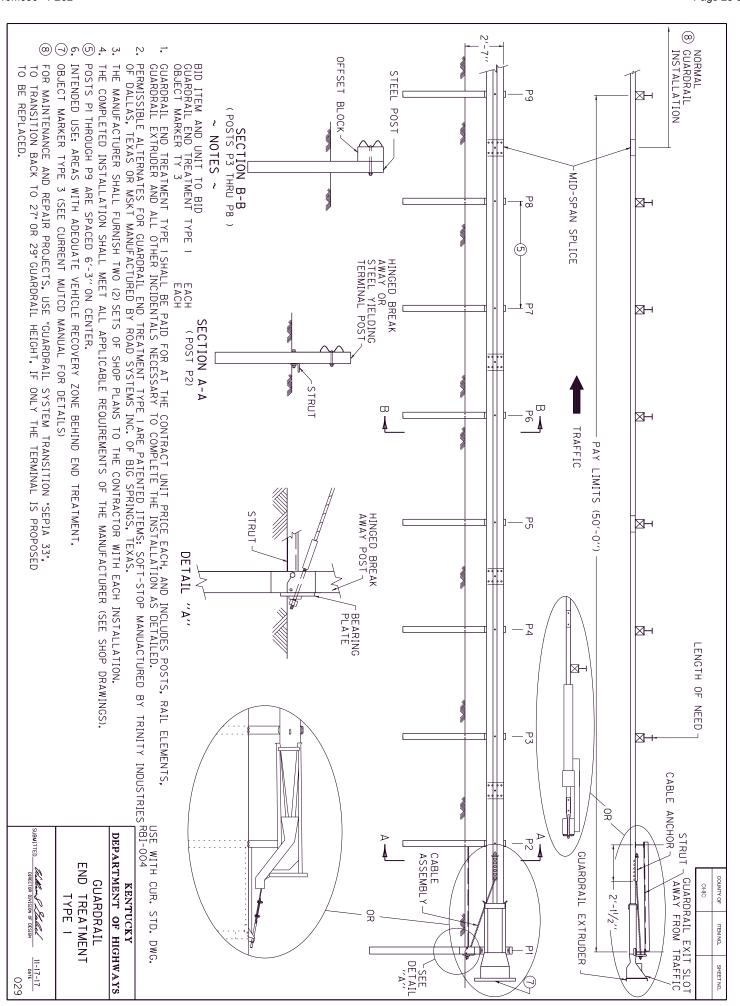












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SUBMITTED_

DIRECTOR DIVISION OF DESIGN

11-17-17 DATE

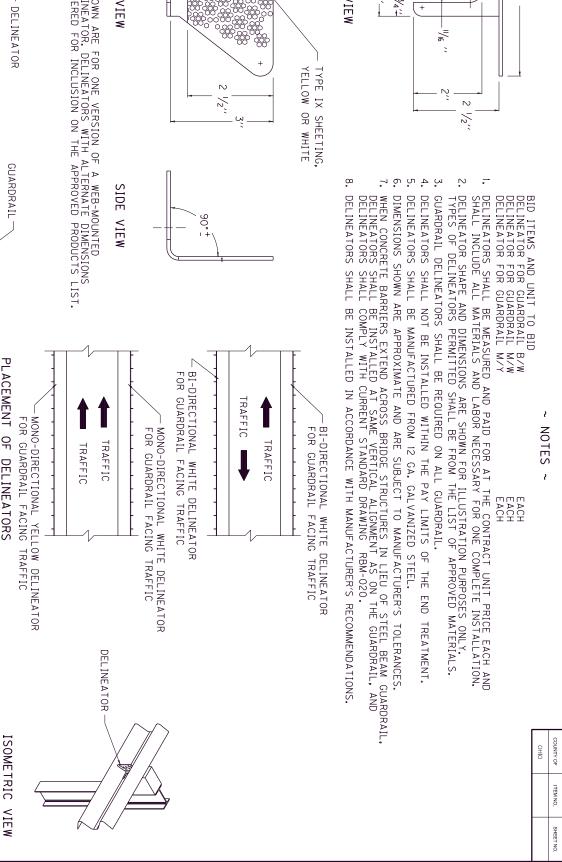
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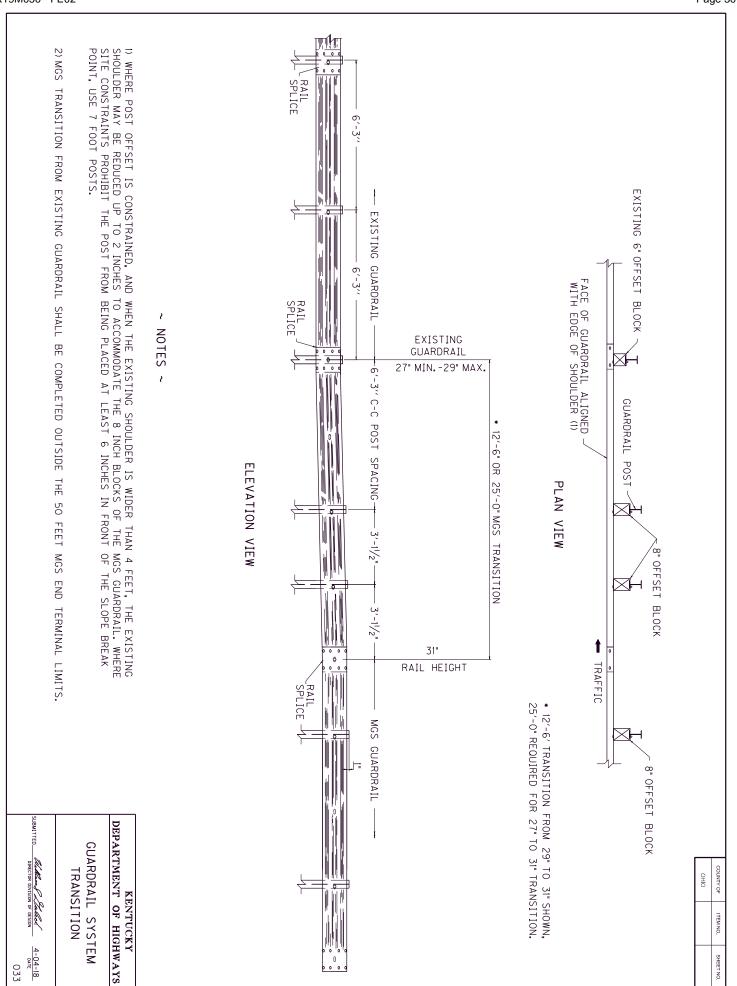
RBM-020, RBR-060

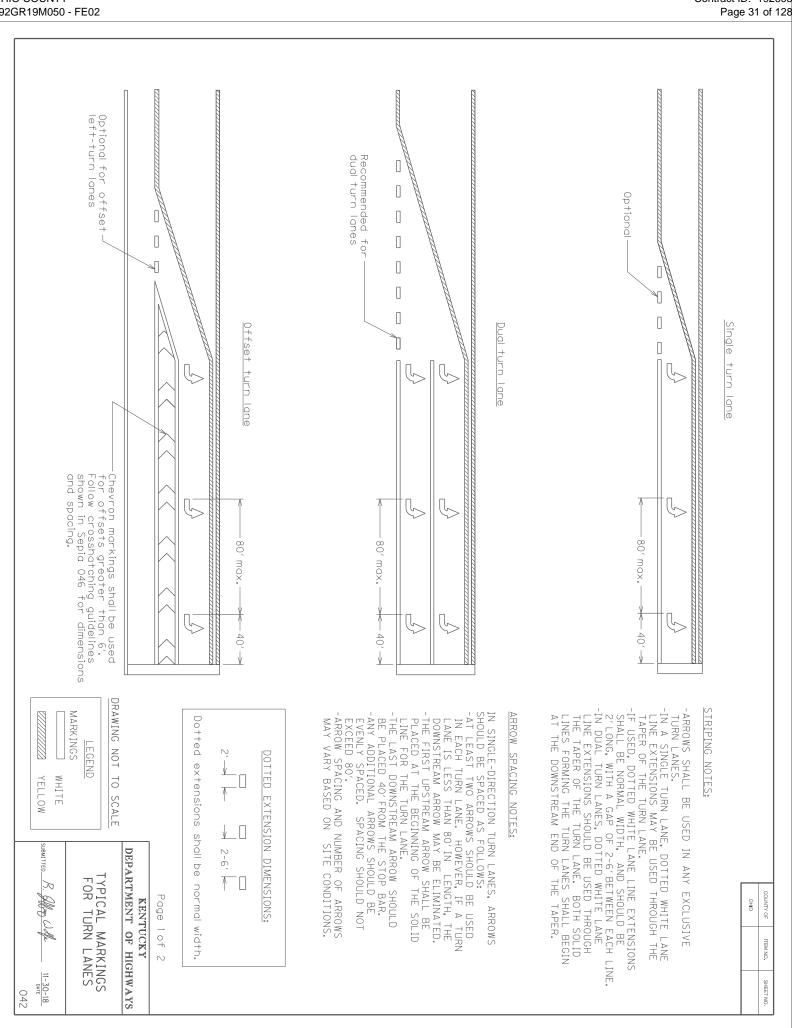
DEPARTMENT OF HIGHWAYS

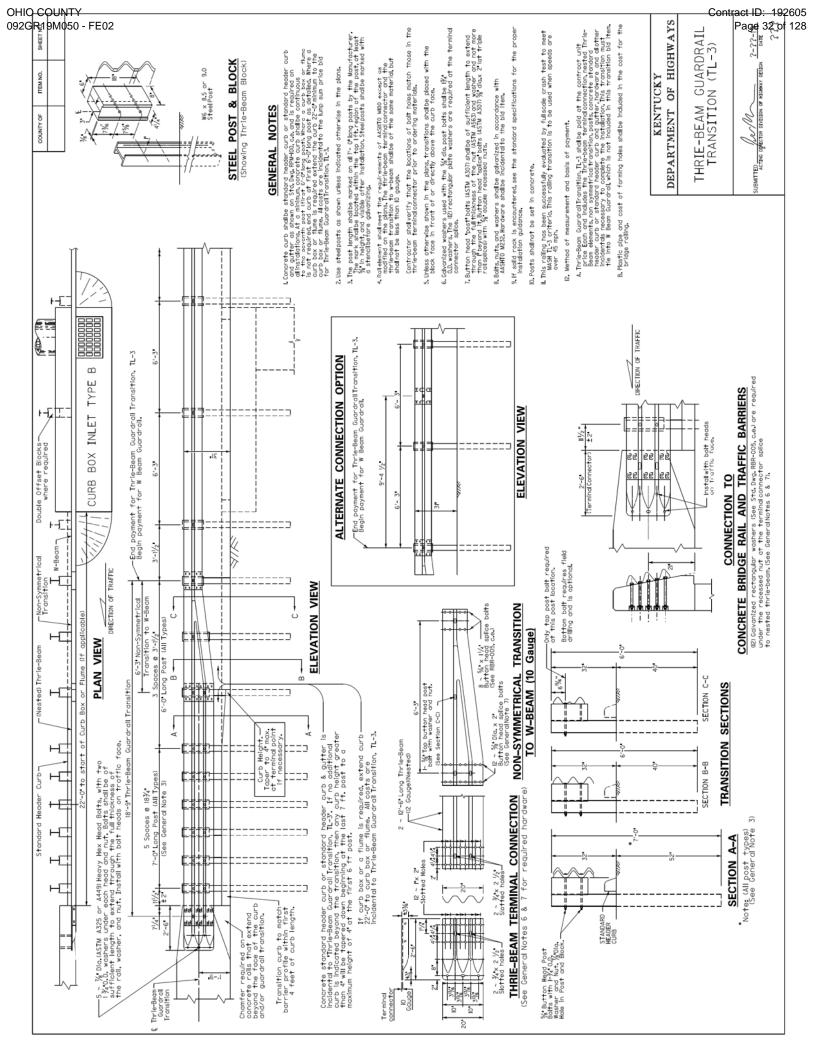
KENTUCKY

DELINEATORS FOR GUARDRAIL









TRAFFIC CONTROL PLAN OHIO COUNTY WK - 9001

THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY

TRAFFIC CONTROL GENERAL

Except as provided herein, "Maintain and Control Traffic" shall be in accordance with the 2019 Standard Specifications and the Standard Drawings, current editions. 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". All lane closures used on the Project will be in compliance with the appropriate Standard Drawings. Do NOT use cones for lane closures or shoulder closures.

Contrary to Section 106.01, traffic control devices used on this project may be new, or used in like new condition at the beginning of the work and maintained in like new condition until completion of the work. Traffic control devices will conform to current MUTCD.

Reduce the speed limit in work areas to 55 miles per hour (35 miles per hour for or US 231) and establish double fines for work zone speeding violations. The extent of these areas within the project limits will be restricted to the proximity of actual work areas as determined by the Engineer. Notify the Engineer a minimum of 12 hours prior to using the double fine signs. At the beginning of the work zone, the "WARNING FINE DOUBLED IN WORK ZONE" signs will be dual mounted. At the end of the work zone, the "END DOUBLE FINE" signs will be dual mounted as well. Remove or cover the signs when the highway work zone does not have workers present for more than a two-hour period of time. Payment for the signs will be at the unit bid price for Temporary Signs. Any relocation or covering of the signs will be incidental to "Maintain and Control Traffic", lump sum.

Night work will be allowed on this project. Obtain approval from the Engineer for the method of lighting prior to its use.

MAINTENANCE OF TRAFFIC OVERVIEW

Demolition of the existing structures will be achieved by routing traffic down the exit ramps diverting traffic from the mainline structures, one direction at a time. The westbound structure is considered to be in the worse condition and is to be reconstructed first.

TIMES OF PROHIBITED LANE CLOSURES AND DIVERSIONS

No lane closures or diversions will be allowed on the project during the following days unless otherwise approved by the Engineer:

December 15, 2019 - January 15, 2020.

Project Phasing:

PHASE I

Install a temporary signal system and all required striping, signage, temporary lighting, etc. at the termini of the westbound ramps of Exit 75 and US 231.

Close the left lane of mainline WK – 9001 approximately ½ mile in advance of the exit ramp taper. Use a series of 2 message boards indicating "TRAFFIC MUST EXIT" within the lane closure and in advance of the exit ramp taper. Place two Type 3 barricades near the exit gore on mainline with road closed signs. Place drums on 20' spacing routing traffic into the exit gore and down the ramps. Maintain drums on 40' spacing on the ramps. Allow service area traffic to enter the one lane traffic flow by placement of additional merge signs. Place signs to reduce speed limit to 35 mph for travel approaching the exit ramp and within the ramp travel limits.

Use an additional message board as needed to warn of possible stopped traffic and advance warning of lane closures. Use a message board in advance of the project in each direction to provide messages to US 231 traffic. Reduce speed limits on US 231 to 35 mph.

Remove the existing westbound mainline WK - 9001 structure and reconstruct the new westbound WK - 9001 structure. Complete westbound bridge approach pavement as detailed, complete guardrail, and pavement markings, and restore traffic to WK - 9001 in its original configuration. Remove the temporary signal at the westbound ramp termini.

Attention: See Special Note for Fixed Completion Date and Liquidated Damages for duration limits on ramp diversion and required completion date for Phase I work.

PHASE II

Install a temporary signal system and all required striping, signage, temporary lighting, etc. at the termini of the eastbound ramps of Exit 75 and US 231.

Close the left lane of mainline WK – 9001 approximately $\frac{1}{2}$ mile in advance of the exit ramp taper. Use a series of 2 message boards indicating "TRAFFIC MUST EXIT" within the lane closure and in advance of the exit ramp taper. Place two Type 3 barricades near the exit gore on mainline with road closed signs. Place drums on 20' spacing routing traffic into the exit gore and down the ramps. Maintain drums on 40' spacing on the ramps. Place signs to reduce speed limit to 35 mph for travel approaching the exit ramp and within the ramp travel limits.

Use an additional message board as needed to warn of possible stopped traffic and advance warning of lane closures. Use a message board in advance of the project in each direction to provide messages to US 231 traffic. Reduce speed limits on US 231 to 35 mph.

Remove the existing eastbound mainline WK - 9001 structure and reconstruct the new eastbound WK - 9001 structure. Complete eastbound bridge approach pavement as detailed, complete guardrail, and pavement markings, and restore traffic to WK - 9001 in its original configuration. Remove the temporary signal at the eastbound ramp termini.

Attention: See Special Note for Fixed Completion Date and Liquidated Damages for duration limits on ramp diversion for Phase II work.

PHASE III

Using alternating lane closures on US 231 complete all items of cleanup, permanent erosion control etc. Complete concrete repairs, final surfacing, guardrail, final pavement markings and all other uncompleted items of work on US 231.

Using alternating lane closures, complete final cleanup, permanent erosion control, rumble strips, and all remaining items of work on mainline WK - 9001.

MINIMUM LANE AND MINIMUM LANE WIDTH REQUIREMENTS

Maintain a minimum 12' lane width on WK - 9001 at all times. Traffic may be reduced to one lane per direction in accordance with phasing requirements and lane closure requirements.

On US 231, traffic may be reduced to two 10' through lanes while work is active in the vicinity of the bridge construction work by shifting traffic into the center turn lane. If traffic is diverted to the center turn lane, limit the lane reduction area in length to maintain all three existing lanes within 200 feet of the ramp termini to maintain two through lanes and a left turn lane at the ramp intersections a minimum distance of 200 feet. Restore US 231 traffic to three lanes any time workers are not present.

LANE CLOSURES

Contrary to Section 112.04.17, Lane closures, whether long term or short term, will not be measured for payment and will be incidental to the bid item "Maintain and Control Traffic". Lane closures must be installed on both inside lanes while work is being performed in the median.

Remove lane closures and restore traffic to two lanes on the mainline for any period of time more than 3 days that no work will be performed requiring a lane closure.

SIGNS

Additional traffic control signs in addition to normal lane closure signing detailed on the Standard Drawings may be required by the Engineer. Additional signs needed for lane closures may include, but are not limited to, dual mounted LEFT/RIGHT LANE CLOSED 1 MILE, LEFT/RIGHT LANE CLOSED 2 MILE, LEFT/RIGHT LANE CLOSED 3 MILE, SLOWED/STOPPED TRAFFIC AHEAD, KEEP LEFT/RIGHT. Signage for reduced speed limits and double fine work zones will be furnished, relocated, and maintained by the Contractor.

Contrary to section 112, individual signs will be measured only once for payment, regardless of how many times they are set, reset, removed and relocated during the duration of the project. Replacements for damaged signs or signs directed to be replaced by the Engineer due to poor legibility or reflectivity will not be measured for payment.

A quantity of signs has been included for "Roadwork Ahead" signs on entrance ramps, extra double fine signs, keep left/keep right and speed limit signs. These are to be paid for only once regardless of how many times they are moved or relocated.

FLASHING ARROWS

Flashing arrows will be paid for once, regardless of how many times they are moved or relocated. The Department **WILL NOT** take possession of the flashing arrows upon completion of the work.

PORTABLE CHANGEABLE MESSAGE SIGNS

Provide portable changeable message signs (PCMS) in advance of and within the project at locations to be determined by the Engineer. If work is in progress concurrently in both directions, or if more than one lane closure is in place in the same direction of travel, provide additional PCMS. Place PCMS one mile in advance of the anticipated queue at each lane closure. As the actual queue lengthens and/or shortens relocate or provide additional PCMS so that traffic has warning of slowed or stopped traffic at least one mile but not more than two miles before reaching the end of the actual queue. The locations designated may vary as the work progresses. The messages required to be provided will be designated by the Engineer. The PCMS will be in operation at all times. In the event of damage or mechanical/electrical failure, the contractor will repair or replace the PCMS immediately. PCMS will be paid for once, no matter how many times they are moved or relocated. The Department WILL NOT take possession of the signs upon completion of the work.

TRUCK MOUNTED ATTENUATORS

Furnish and install MUTCD approved truck mounted attenuators (TMA) in advance of work areas when workers are present less than 12 feet from traffic. If there is less than 500 feet between work sites, only a single TMA will be required at a location directed by the Engineer. Locate the TMAs at the individual work sites and move them as the work zone moves within the project limits. All details of the TMA installations shall be approved by the Engineer. TMA will not be measured for payment, but are incidental to "Maintain and Control Traffic," Lump Sum. The Department WILL NOT take possession of the TMAs upon completion of the work.

PAVEMENT MARKINGS

Remove or cover the lenses of raised pavement markers that do not conform to the traffic control scheme in use, or as directed by the Engineer. Replace or uncover lenses before a closed lane is reopened to traffic. No direct payment will be made for removing or covering and uncovering the lenses, but will be incidental to "Maintain and Control Traffic," lump sum.

Place temporary and permanent striping in accordance with Section 112, and Section 714 for Thermoplastic Markings and Section 714 for Durable Type I Tape and:

- 1. Temporary striping will be 6" in width.
- 2. Edge lines will be required for temporary striping during the lane closures.
- 3. Existing, temporary, or permanent striping will be in place before a lane is opened to traffic
- 4. Place permanent striping on bridge decks and pavement within the project limits.
- 5. Permanent striping will be Durable Type I Tape Markings on bridge decks or other concrete, and will be 6" Thermoplastic on asphalt paving.

Should the Contractor change the existing striping pattern, the Contractor is to restripe the roadway back to its original configuration if no work is anticipated for a period of time (i.e. Winter shutdown).

PAVEMENT EDGE DROP-OFFS

Pavement edge drop-offs will be protected by a lane or shoulder closure. Lane closures will be protected with plastic drums, vertical panels, or barricades as shown on the Standard Drawings.

Pavement edges that traffic is not expected to cross, except accidentally, shall be treated as follows:

Less than 2" – Protect with a lane closure.

2" to 4" – Protect with a lane closure. Place plastic drums, vertical panels, or barricades every 50 feet. Cones may not be used in place of plastic drums, panels, and barricades at any time. Construct a wedge with compacted cuttings from milling, trenching, or asphalt mixtures with a 3:1 or flatter slope, when work is not active in the drop-off area. Place Type III Barricades at the beginning of the lane closures, and place additional Type III Barricades

spaced at 2,500 feet during the time the lane closure is in place.

Greater than 4" – Pavement Repair areas – In areas where pavement is to be removed, work should proceed continuously so that traffic is exposed to a drop-off for the minimum amount of time necessary to bring the pavement back up to existing grade. Barrel spacing should be 20 feet and appropriate lighting should be utilized to illuminate the area during nighttime operations.

TRAFFIC COORDINATOR

Designate an employee to be traffic coordinator. The designated Traffic Coordinator must meet the requirements of section 112.03.12 of the Standard Specifications. The Traffic Coordinator will inspect the project maintenance of traffic once every two hours during the Contractor's operations and at any time a lane closure is in place. The Traffic Coordinator will report all incidents throughout the work zone to the Engineer on the project. The Contractor will furnish the name and telephone number where the Traffic Coordinator can be contacted at all times.

During any period when a lane closure is in place, the Traffic Coordinator will arrange for personnel to be present on the project at all times to inspect the traffic control, maintain the signing and devices, and relocate portable changeable message boards as queue lengths change. The personnel will have access on the project to a radio or telephone to be used in case of emergencies or accidents.

COORDINATION OF WORK

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

CONTRACTOR'S AND CONTRACTOR'S EMPLOYEES' VEHICLES

Do not use or allow employees to use median crossovers at any time except when inside lanes are closed for construction. In all other phases of construction, change vehicular direction of travel only at interchanges.

WIDE LOADS

Wide load detours will not be established on this project. Provide for passage of wide loads up to 16 feet. Wide loads may use a portion of the shoulder to allow for passage. Temporarily shift traffic drums to allow for passage of wide loads when necessary.

ROAD CLOSURES

US 231 may be closed up to 3 nights per structure to facilitate the removal of the existing bridge superstructure only. All other work must be accomplished by maintaining at least two lanes of traffic on US 231. Partial demolition of structures may be accomplished while maintaining traffic on US 231 as approved by the engineer, provided the demolition activities can be achieved safely. An approved demolition plan must be in place prior to any demolition activities and prior to road closures for demolition purposes. Allowable times of closure are as follows:

Nightly from 8:00 PM to 6:00 AM.

Provide a minimum of two weeks notice to the engineer prior to US 231 road closures. Place messages on message boards on US 231 notifying times and dates of road closures a minimum of 7 days prior to closures.

WK-9001 Ohio County Bridge Replacement over US 231

THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY

I. DESCRIPTION

Perform all work in accordance with the Department's 2019 Standard Specifications, Supplemental Specifications, Applicable Special Provisions, and Applicable Standard and Sepia Drawings, except as hereafter specified. Article references are to the Standard Specifications. Furnish all materials, labor, equipment, and incidentals for the following work:

(1) Maintain and Control Traffic; (2) Drainage structure work; (3) Concrete Pavement Repairs; (4) Remove and replace Guardrail and Guardrail End treatments; (5) Asphalt Pavement and Milling and Texturing; (6) Pavement markers and markings; (7) Erosion Control (8) Bridge Reconstruction Work (9) All other work specified as part of this contract.

II. MATERIALS

Except as specified in these notes or on the drawings, all materials will be according to the Standard Specifications and applicable Special Provisions and Special Notes. The Department will sample and test all materials according to Department's Sampling Manual and the Contractor will have the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing, unless otherwise specified in these notes.

- A. Maintain and Control Traffic. See Traffic Control Plan.
- B. **Pavement Markings -6 inch.** Use Thermoplastic Pavement Markings for permanent striping on asphalt pavement. Use Durable Type I Tape for all concrete surfaces requiring striping.
- C. **Channel Lining Class III.** Channel lining will be limestone and is to be placed in ditches as directed by the engineer.
- D. **Inlaid Pavement Markers.** Furnish and install markers in accordance with the "Special Note for Inlaid Pavement Markers".

- E. **Asphalt Material for Tack Non-Tracking.** See Special Note for Non Tracking Tack Coat.
- F. Joint Adhesive. See "Special Note for Longitudinal Pavement Joint Adhesive"

III. CONSTRUCTION METHODS

- A. **Maintain and Control Traffic.** See Traffic Control Plan. Use waterblasting methods only for striping removal when necessary in lieu of abrasive or other methods.
- B. **Site Preparation.** Be responsible for all site preparation. Do not disturb existing signs. This item will include, but is not limited to, incidental excavation and backfilling; removal of all obstructions or any other items; disposal of materials; sweeping and removal of debris; shoulder preparation and restoration, temporary and permanent erosion and pollution control; and all incidentals. Site preparation will be only as approved or directed by the Engineer.
- C. **Disposal of Waste.** Dispose of all cuttings, debris, and other waste off the right-of-way at approved sites obtained by the Contractor. The contractor will be responsible for obtaining any necessary permits for this work. Temporary openings in the right of way fence for direct access to waste sites off the right of way or for access to other public roads will not be allowed. No separate payment will be made for obtaining the necessary permits, but will be incidental to the other items of the work. Disposal of existing cuttings and brush shall adhere to Section 202 of the current Standard Drawings.
- D. **Final Dressing, Clean Up, and Seeding and Protection.** After all work is completed, completely remove all debris from the job site. Perform Class A Final Dressing on all disturbed areas. Sow disturbed earthen areas with Seed Mixture No. I and use erosion control blanket in lieu of "Seeding and Protection" in all seeding applications. Install erosion control blanket in all ditching areas not receiving aggregate channel lining.
 - Additional borrow material may be needed for regrading slopes in pipe extension locations that are intended for elimination of guardrail. The Contractor may suggest potential borrow locations from the right of way to be approved by the engineer. Use only soil material suitable for sustaining vegetation.
- E. **Guardrail.** Remove guardrail where necessary to perform work at designated locations. Replace guardrail as soon as practical at the conclusion of the work requiring the removal of the guardrail.

- F. **Pavement Striping and Inlaid Pavement Markers.** Permanent striping will be in accordance with Section 112 for temporary striping, 714 for Durable Type I Tape, and Section 714 for Thermoplastic Markings, except that:
 - (1). Striping will be 6" in width.
 - (2). Permanent striping or temporary striping will be in place before a lane is opened to traffic.
 - (3). Pavement Markers shall be installed per Standard Drawings TPM-105-02 (Arrangement C), TPM-125-02, TPM-130-02 and TPM-135-02, and Special Note for Inlaid Pavement Markers.
- G. **On-Site Inspection.** In accordance with section 102.06, each Contractor submitting a bid for this work will make a thorough inspection of the site prior to submitting a bid and will thoroughly familiarize himself with existing conditions so that the work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department.
- H. Caution: Information shown on the drawings and in this proposal and the types and quantities of work listed are not to be taken as an accurate or complete evaluation of the material and conditions to be encountered during construction. The bidder must draw his own conclusions as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation if the conditions encountered are not in accordance with the information above.
- I. **Utility Clearance.** It is not anticipated that utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities.
- J. Joint Adhesive. See "Special Note for Longitudinal Pavement Joint Adhesive".
- K. Roadway Excavation, Embankment in Place, or Borrow Excavation. Perform any necessary excavation or embankment required to complete any and all items of work in the contract.
- L. **Remove Paved Ditch.** Completely remove the existing flumes and paved ditch on the west side of WK 9001 mainline bridges and completely dispose of the rubble and debris.
- M. **Fill and Grade Median.** Grade bridge approach medians in accordance with RBB-002-09.

IV. METHOD OF MEASUREMENT

- A. **Maintain and Control Traffic.** See Traffic Control Plan. Only the bid items listed will be measured for payment. No measurement or payment for striping removal or removal or covering of existing pavement marker lenses will be made and will be considered incidental to "Maintain and Control Traffic". No measurement or payment will be made for removal of existing striping and will be considered incidental to "Maintain and Control Traffic". Maintenance and repairs of damages to shoulders used as temporary travel lanes caused by the application of traffic, will be considered incidental to "Maintain and Control Traffic" with no separate measurement or payment.
- B. **Site Preparation.** Other than the bid items listed, site preparation will not be measured for payment, but will be incidental to the other items of work.
- C. **Erosion Control.** Erosion control items will be measured and paid in accordance with the Standard Specifications for Road and Bridge Construction. No direct measurement for seeding will be made as the seeding is incidental to the erosion control blanket in accordance with the specifications.
- D. Concrete Pavement Repair. See Special Note for Concrete Pavement Repair.
- E. **Remove Existing Paved Ditch.** Removal of paved ditches will be measured by the square yard.
- F. **Temporary Signal 2-Phase.** See Special Note for Temporary Traffic Signals.
- G. Joint Adhesive. See "Special Note for Longitudinal Pavement Joint Adhesive".
- H. Roadway Excavation, Embankment in Place, or Borrow Excavation. No direct measurement will be made for Roadway Excavation, Embankment in Place or Borrow Excavation as these items will be considered incidental to the specific item requiring the excavation or embankment work.
- I. **Inlaid Pavement Markers.** Inlaid pavement markers are to be measured in accordance with the "Special Note for Inlaid Pavement Markers". No direct payment will be made for the removal of the existing pavement markers prior to the milling operation and shall be considered incidental to milling and texturing.
- J. Fill and grade Median. The bid item "Regrade Median" will be measured longitudinally along the centerline of WK 9001 for the required length of median reshaping.

V. BASIS OF PAYMENT

No direct payment will be made other than for the bid items listed. All other items required to complete the construction will be incidental to the bid items listed. Existing signs damaged by the Contractor will be replaced by the Contractor at his expense. Payment will be made in accordance with the KYTC Standard Specifications, current edition with supplemental specifications and current Standard Drawings unless otherwise specified herein.

- A. Maintain and Control Traffic. See Traffic Control Plan.
- B. **Site Preparation.** Other than the bid items listed, no direct payment will be allowed for site preparation, but will be incidental to the other items of work.
- C. **Pavement Markers and Permanent Striping.** See Traffic Control Plan, Standard Specifications and "Special Note for Inlaid Pavement Markers".
- D. **Temporary Striping.** Contrary to Section 714.04.01, the Department <u>WILL</u> measure temporary paint used for interim markings for Thermoplastic Paint applications.
- E. **Lane Closures.** Contrary to Section 112, lane closures will not be measured for payment but will be incidental to the bid item "Maintain and Control Traffic". Arrow boards, portable message boards, Type III barricades, and signs shall be paid for one time regardless of how many times they are moved.
- F. **Remove Existing Paved Ditch.** The removal of the existing paved ditch shall be paid for as "square yards" and shall include the removal and disposal of all existing paved ditch materials.
- G. **Milling and Texturing.** Milling and texturing will be paid for per section 408.05 of the 2019 Standard Specifications. No direct payment will be made for disposal of millings or for removal of existing payment markers.
- H. Waterblasting Striping Removal. Waterblasting Striping Removal will be required for all striping removal applications and will be considered incidental to "Maintain and Control Traffic".
- I. Joint Adhesive. See "Special Note for Longitudinal Pavement Joint Adhesive"
- J. **Asphalt Material for Tack Non-Tracking.** See Special Note for Non Tracking Tack Coat.
- K. Roadway Excavation, Embankment in Place, or Borrow Excavation. No direct measurement will be made for Roadway Excavation, Embankment in Place or Borrow Excavation as these items will be considered incidental to the specific item requiring the excavation or embankment work.

- L. **Temporary Signal 2-Phase.** See Special Note for Temporary Traffic Signals.
- M. Concrete Pavement Repair. See Special Note for Concrete Pavement Repair.
- N. **Fill andgrade Median.** The item "Regrade Median" will be considered full compensation for all labor, materials and equipment required to reshape the median in accordance with RBB-002-09. Excavate as necessary and provide soil embankment materials capable of sustaining vegetation if additional material is needed, incidental to this item of work.

WK - 9001 Ohio County BRIDGE RECONSTRUCTION

- 1. This project is intended to replace the superstructure and portions of the substructure of both twin bridges of the WK 9001 Parkway over US 231. Incidental paving and other removal and replacement items are required.
- 2. The dimensions shown on the typical section 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 otherwise specified in the Proposal.
- 3. The contractor is to be advised of the locations of overhead utility wires on the project. The following locations are approximate:

WK 9001 Mainline

MP 74.50

MP 74.61

MP 74.74

E.B. on Ramp

MP 74.61

W.B. off Ramp

MP 74.60

W.B. on Ramp

MP 74.47

US 231

MP 6.81

MP 6.65

CAUTION: Other overhead utility locations may exist. These and all other utilities should be avoided on this project. If any utility is impacted, it will be the contractor's responsibility to contact the affected utility and cover any costs associated with the impact. The Cabinet is currently in discussions with the overhead power company concerning the viability of a temporary relocation of the overhead power on the east end of the bridges. No commitment to move this utility has currently been reached and the Contractor is to consider in his bid the impacts of this utility in its existing location in the event it cannot or will not be moved. No claim for failure to relocate this or any utility will be entertained as by submittal of his bid the contractor agrees that he can perform this work with the utilities in their current configuration.

4. The contractor is advised that the planned locations of work established by milepoints are referenced from the Kentucky Transportation Cabinet's Official Route Log. The existing reference markers may not correspond to the established work locations.

- 5. Quantities of guardrail removal and installation of new guardrail have been established. The contractor will place traffic drums on 20' spacing in the areas and pin down exposed blunt ends until such time that guardrail is re-established. Either a lane closure or shoulder closure shall be in place at any time that a section of guardrail is not in place.
- 6. The Contractor shall deliver existing salvaged guardrail system materials to the Central Sign Shop and Recycle center at 1224 Wilkinson Blvd in Frankfort, KY. Contact Section Supervisor at (502) 564-8187 to schedule the delivery of material. Deliver the material between the hours of 8:00AM and 3:30PM, Monday through Friday. There is a Guardrail Delivery Verification Sheet which must be completed and signed by the Contractor, Engineer and a representative of the Central Sign Shop and Recycle Center. A copy of this sheet is included elsewhere in the proposal.
- 7. The speed limit on the project will be reduced to 55 mph (35 mph for ramps and US 231) while lane closures are in place. Any time work is suspended the speed limit will revert back to the original speed limit. Also, double fine signs are set up in the project to be installed while workers are present in the work zone.
- 8. The contractor will be allowed to access median U-turns and cross the median provided proper lane closures of the inside lanes are utilized at the entry and exit locations at the contractor's expense. Use only short duration lane closures and remove lane closures when median U-turn access is not needed.
- 9. Quantities of Channel Lining Class III have been included to be used in eroded areas as directed and/or approved by the Engineer. The actual limits of the channel lining will be as directed and/or approved by the Engineer. Geotextile Fabric Type I, as outlined in Section 214 of the Standard Specifications, will not be measured for payment and will be considered incidental to channel lining.
- 10. The contractor is to take care not to damage any existing roadway signs. Any roadway signs that are damaged during construction are to be replaced at the contractor's expense in accordance with section 105.08 of the standard specifications. Remove any roadway signs that are in conflict with the work and either temporarily install at a location outside the work area or store in a controlled environment. Reinstall all signs that require removal at the conclusion of the work. Removal, temporary installation, removal and storage and reinstalling signs will be considered incidental to "Maintain and Control Traffic". Reinstall signs by methods approved by District 2 Traffic.
- 11. The contractor is to take care not to damage any existing light poles and wiring. Any light poles or wiring that is damaged during construction is to be replaced at the contractor's expense in accordance with section 105.08 of the standard specifications. Contact District 2 Traffic for locations or as-built drawings for existing lighting.

- 12. Areas established as concrete pavement repair locations will be replaced as directed by the Engineer. After the contractor has closed the roadway the Engineer will mark the areas to be repaired. The engineer reserves the right to increase, decrease, or eliminate this item of work based on the field conditions encountered.
- 13. Coordinate activities of any adjacent contracts with this contract. This project is to be combined and bid with other maintenance bridge restoration projects. The engineer will determine the relative priority of the work and traffic control if conflicts exist.

REFERENCES

- 1. Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, Edition of 2019.
- 2. FHWA Manual on Uniform Traffic Control Devices 2009 Edition.
- 3. Kentucky Department of Highways Standard Drawings, Current Edition, as applicable:

RBB-002-09	GUARDRAIL AND BRIDGE END DRAINAGE FOR TWIN STRUCTURES
RBB-003-03	LAYOUT OF GUARDRAIL AT TWIN STRUCTURES (DEPRESSED
	MEDIAN)
RBC-002-03	GUARDRAIL TO BRIDGE END TYPE A COMPONENTS
RBI-002-07	TYPICAL GUARDRAIL INSTALLATIONS
RBM-020-09	DELINEATORS FOR CONCRETE BARRIERS
RBR-005-11	GUARDRAIL COMPONENTS
RBR-010-06	GUARDRAIL TERMINAL SECTIONS
RDD-040-05	CHANNEL LINING CLASS II AND III
RDD-021-07	FLUME INLET TYPE 2
RDI-040-01	EROSION CONTROL BLANKET SLOPE INSTALLATION
RDI-041-01	EROSION CONTROL BLANKET CHANNEL INSTALLATION
RDP-001-06	PERFORATED PIPE TYPES AND COVER HEIGHTS
RDP-010-09	PERFORATED PIPE HEADWALLS
RDX-160-06	SECURITY DEVICES FOR FRAMES, GRATES AND LIDS
RDX-210-03	TEMPORARY SILT FENCE
RDX-220-05	SILT TRAP - TYPE A
RDX-225-01	SILT TRAP - TYPE B
RDX-230-01	SILT TRAP - TYPE C
RGX-001-06	MISCELLANEOUS STANDARDS
RPX-015-04	HOT POURED ELASTIC JOINT SEALS FOR CONCRETE PAVEMENT
TPM-105-03	PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS
TPM-110-03	PAVEMENT MARKER ARRANGEMENTS FOR MULTI-LANE
	ROADWAYS
TTC-100-04	LANE CLOSURE TWO LANE HIGHWAY
TTC-110-03	LANE CLOSURE USING TRAFFIC SIGNALS
TTC-115-03	LANE CLOSURE MULTI-LANE HIGHWAY CASE I
TTC-120-03	LANE CLOSURE MULTI-LANE HIGHWAY CASE II
TTC-135-02	SHOULDER CLOSURE
TTD-120-02	WORK ZONE SPEED LIMIT AND DOUBLE FINE SIGNS
TTD-125-02	PAVEMENT CONDITION WARNING SIGNS
TTS-110-01	MOBILE OPERATION FOR PAINT STRIPING CASE III
TTS-115-02	MOBILE OPERATION FOR PAINT STRIPING CASE IV
TTS-120-02	MOBILE OPERATION FOR DURABLE STRIPING CASE 1

4. Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, Edition of 2019, Appendix B - Supplemental Specifications, as applicable:

Special Note Typical Section Dimensions attached

Special Note Portable Changeable Message Signs attached

Special Note Before You Dig attached

Special Note Fixed Completion Date and Liquidated Damages attached

General Note Asphalt Pavement Ride Quality attached
General Note Compaction of Asphalt Mixtures attached
Special Note Asphalt Milling and Texturing attached
Special Note Special Note for Significant Project attached

Special Note Special Note for Demolition attached

Special Note Special Note for Temporary Traffic Signals *attached*Special Note Special Note for Concrete Pavement Repairs *attached*

Special Note Guardrail Delivery Verification Sheet *attached*Special Note Special Note for Inlaid Pavement Markers *attached*

Special Note Special Note for Longitudinal Pavement Joint Adhesive attached

Special Note Special Note for Non-Tracking Tack Coat *attached*Special Note 1-122 Special Note for Expedite Work Order

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SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS WK-9001 OHIO COUNTY

The dimensions shown on the typical sections for pavement and shoulder widths 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 or narrowed **EXCEPT** where specified elsewhere in the Proposal.

SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

WK-9001 OHIO COUNTY

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.
- 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 preprogrammed 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/ /NEXT/***/MILES/ /PAINT/CREW/AHEAD/ /HEAVY/TRAFFIC/AHEAD/ /REDUCE/SPEED/**MPH/ /BRIDGE/WORK/***0 FT/ /SPEED/LIMIT/**MPH/ /MAX/SPEED/**MPH/ /BUMP/AHEAD/ /SURVEY/PARTY/AHEAD/ /TWO/WAY/TRAFFIC/

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 onboard system charger with the ability to recharge completely discharged batteries in 24 hours.

^{*}Insert numerals as directed by the Engineer.

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 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> 02671 Portable Changeable Message Sign

Pay Unit Each

SPECIAL NOTE FOR BEFORE YOU DIG

WK-9001 OHIO COUNTY

Call 1-800-752-6007 toll free a minimum of two and no more than ten business days prior to excavation for information on the location of existing under-ground utilities which subscribe to the before-u-dig (BUD) service. Coordinate excavation with all utility owners, including those who do not subscribe to BUD.

Special Note for Fixed Completion Date and

Liquidated Damages

WK-9001 OHIO COUNTY

Contrary to Section 108.09, Liquidated Damages of \$5,000 per calendar day will be assessed for each day work remains incomplete beyond the Specified Project Completion Date. This project has a Fixed Project Completion Date of August 30th 2020.

Westbound Bridge over US 231

Additionally, the contractor will be required to complete the bridge demolition and reconstruction of the westbound bridge over US 231 and restoration of traffic to its original mainline WK-9001 configuration within 120 Calendar Days from the time that traffic is diverted onto the ramps. The contractor may choose the starting date for this work. Additionally, the contractor will be required to complete the bridge demolition and reconstruction of the westbound bridge over US 231 and restore traffic to its original mainline WK-9001 configuration by December 15, 2019.

Calendar Days will be tracked and charged from the time that traffic is diverted onto the ramps until such time that the contractor completes all items of work associated with the westbound bridge removal and replacement, approach paving, installation of guardrail, striping and safety appurtenances, and restores westbound mainline traffic to its original configuration.

Liquidated Damages in the amount of \$5,000 per day will be assessed for each day or portion of a day that <u>either</u> work remains incomplete on the westbound bridge and mainline westbound WK-9001 traffic remains diverted onto the exit ramps in excess of 120 Calendar Days, <u>or</u> for any day or portion of a day that work remains incomplete on the westbound bridge and mainline westbound WK-9001 traffic remains diverted onto the exit ramps beyond December 15, 2019. Liquidated Damages will be assessed if either the Calendar Day requirement or the specified date requirement is not met.

Traffic must be restored to its original mainline WK-9001 configuration from December 15, 2019 to January 15, 2020. No work may begin on the eastbound structure until after January 15, 2020.

Eastbound Bridge over US 231

Additionally, the contractor will be required to complete the bridge demolition and reconstruction of the eastbound bridge over US 231 and restoration of traffic to its original mainline WK-9001 configuration within 120 Calendar Days from the time that traffic is diverted onto the ramps. The contractor may choose the starting date for this work (after January 15, 2020).

Calendar Days will be tracked and charged from the time that traffic is diverted onto the ramps until such time that the contractor completes all items of work associated with the eastbound bridge removal and replacement, approach paving, installation of guardrail, striping and safety appurtenances, and restores westbound mainline traffic to its original configuration.

Liquidated Damages in the amount of \$5,000 per day will be assessed for each day or portion of a day that work remains incomplete on the eastbound bridge and mainline eastbound WK-9001 traffic remains diverted onto the exit ramps in excess of 120 Calendar Days.

All penalties or Liquidated Damages will be assessed cumulatively, and charged concurrently when applicable.

Also contrary to Section 108, liquidated damages will be charged during the months of December through March.

Asphalt Pavement Ride Quality WK-9001 OHIO COUNTY

Pavement Rideability Requirements will not apply on this project.

General Note 448

Compaction of Asphalt Mixtures WK - 9001 OHIO COUNTY

Will accept the compaction of asphalt mixtures furnished for the driving lanes and ramps by option B.

OHIO COUNTY 092GR19M050 - FE02

SPECIAL NOTE FOR ASPHALT MILLING AND TEXTURING WK - 9001 OHIO COUNTY

The Contractor will take possession of the millings. Do not allow traffic to drive on the milled surface on mainline WK-9001. Traffic may run on the milled surface up to 3 days on US 231.

Removal of the existing pavement markers prior to the milling operation is considered incidental to the bid item "Asphalt Pavement Milling and Texturing".

Significant Project-Project Traffic Coordinator (PTC)

Be advised this project is a significant project pursuant to section 112.03.12.

SPECIAL NOTE FOR BRIDGE DEMOLITION WK - 9001 OHIO COUNTY

Conduct all bridge demolition activities and masonry removal activities in accordance with the structure plans, the Maintenance of Traffic Plans, and in accordance with the approved Demolition Plan.

Prior to initiation of bridge demolition activities, the contractor will be required to submit a Demolition Plan for the engineer's approval. The Demolition Plan shall be of sufficient detail to prove that the demolition activities can be both carried out in a manner that poses no threat of falling debris to the traveling public and must prove that any demolition and cleanup activities requiring road closures can be completed within the time frame allowed in the Maintenance of Traffic plans.

In order to limit the duration of road closures, the contractor is encouraged to conduct as much demolition as safely possible without a full roadway closure to traffic. The contractor will be required to demonstrate, in his Demolition Plan, a complete understanding of the mechanics of the existing bridge design and demonstrate a complete understanding of the effects of the removal sequence and methods to the stability of the overall structure stability. The Demolition Plan shall be stamped by a registered professional engineer in the state of Kentucky and will be required to have a background in structural engineering.

Remove the structure in a manner to protect the existing roadway features and protect portions of the existing structure designated to remain in place. This may include installation of measures to cushion or protect the existing features. Any damage to existing roadway features not intended to be replaced in these plans shall be repaired or replaced, at the discretion of the engineer and as directed by the engineer, and at the contractor's expense, including but not limited to existing bridge substructure designated to remain, existing crash walls, existing curbs, existing US 231 pavement base, etc. Minor damage to the US 231 pavement surface is to be expected and minor cosmetic damage will be remedied by milling and inlaying as part of this contract.

SPECIAL NOTE FOR TEMPORARY TRAFFIC SIGNALS WK - 9001 OHIO COUNTY

Temporary signals will be used for Maintenance of Traffic to use the existing interchange ramps as a through route to divert mainline WK – 9001 traffic away from the mainline structures. A temporary signal system will be installed at the termini of the westbound ramps at the intersection with US 231 first. At the conclusion of the bridge reconstruction westbound, the temporary signal will be removed and taken out of service and a temporary signal system installed for the east ramp termini at the intersection with US 231 for the eastbound bridge reconstruction. Traffic will only be diverted to ramps, one ramp at a time, employing the use of only one temporary signal at a time. Construct and maintain temporary signals in accordance with section 112 of the Specifications with the following additions/clarifications.

Each of the required temporary signal systems will be required to meet all characteristics of and employ typical features used for the ramp termini of a typical diamond interchange. The contractor will be required to maintain all existing lanes a minimum distance of 200' from the ramp termini in order to maintain a left turn lane onto the ramps.

This project location contains existing roadway lighting, thus temporary luminaires required by TTC-110-03 will not be required. Install temporary stop bars on US 231. Install "STOP HERE ON RED" signs in accordance with TTC-110-03. Maintain existing striping pattern in the intersection vicinity, contrary to TTC-110-03. Install sign no 4, signal symbol, per TTC-110-03 for each of the three approaching legs, and install an additional "Signal Ahead" sign each approach direction. Maintain other signs and pavement markings as construction sequence dictate.

Signal system will be required to provide signal heads that are overhead and shall not be post mounted beside the roadway. Signal heads will be required to be located over the through lanes and will be dual 3 section heads per each approach. The signal systems will be 2 phase. Actuation will be required for all through lanes and all turn lanes. Use camera actuation only. Maintain a minimum 17' clearance for all signal heads. Install signs indicating "LEFT TURN YIELD ON GREEN" R10-12, where applicable.

The contractor will be required to obtain a typical temporary signal design, to be approved by District 2 Traffic, from a licensed professional engineer with a background in traffic engineering and signal design. Use a signal controller approved by District 2 Traffic.

The contractor, at his option, may use carriage mounted temporary signals with mast arms capable of projecting signals over the through lanes, temporary ground mounted mast arms, or temporary wooden poles with a diagonal messenger span for signal placement. Wiring for temporary signals should be installed in a manner to limit exposure to the traveling public.

District 2 will provide signal timing. Contact Kenny Potts, TEBM, District 2, 1840 N. Main St., Madisonville, KY 42431, (270) 824-7080.

Measurement and Payment

Measurement and payment will be made in accordance with Section 112.04.10 and Section 112.05 of the Specifications for each installation of item:

<u>Code</u> <u>Pay Item</u> <u>Unit</u> 04933 Temporary Signal – Two Phase Each

SPECIAL NOTE FOR CONCRETE PAVEMENT REPAIRS WK - 9001 OHIO COUNTY

Existing "White Topping" concrete pavement is located at the intersection of US 231 and the westbound ramp termini. At or near the conclusion of the project, remove and replace existing damaged concrete and any damaged concrete locations, and underlying asphalt pavement as directed by the engineer.

The engineer will determine locations to be patched in the field prior to the repairs. Contact the engineer 1 week prior to beginning this operation. Saw cut the perimeter of the repair to a depth of 9 inches. Remove the existing concrete overlay in a manner that is non-destructive to the surrounding concrete intended to remain in place. Remove existing underlying asphalt concrete to a depth of 9 inches below the surface by methods approved by the engineer and in a manner that is non-destructive to the surrounding asphalt and concrete pavements designated to remain in place. The contractor may choose his removal methods as approved by the engineer, however, the contractor shall modify his methods if suitable removal results cannot be obtained. The resulting trench will be replaced with JPC Pavement-9 In/24. Construct JPC Pavement in accordance with Section 501 of the Specifications.

Tie bars and load transfer assemblies will not be required for this operation. Restore saw cuts at the original pattern for the proposed JPC Pavement at the depth required for 9" JPC specified in the Standard Drawings. Seal the resulting joints with Hot Pour Elastic sealant only.

Measurement and Payment

The pay item 02091 Remove Pavement (SY) will be considered full compensation for all labor, materials and equipment required to saw cut, remove existing concrete and asphalt pavement to a depth of 9", conduct any remedial or preparatory work prior to placement of JPC Pavement, and any other items of work necessary to remove the required pavement. Any over-excavation of pavement will not be considered for payment.

The pay item 2023 JPC Pavement-9 In/24 (SY) will be considered full compensation for all labor, materials and equipment to construct concrete pavement in the removal areas in accordance with section 501 of the Specifications. This item will include all curing, saw cutting of joints and sealing of joints and all other items of work required. The contractor will be required to place replacement of the full depth of pavement removal regardless of irregularities or depth. No direct payment will be made for over-excavation of existing pavement.

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GUARDRAIL DELIVERY VERIFICATION SHEET

Contract ID: 192605 Page 65 of 128

Contract Id:		Contractor:				
Section Engineer:		_ District & County: _				
<u>DESCRIPTION</u>	<u>UNIT</u>	OTY LEAVING PROJECT	OTY RECEIVED@BB YARD			
GUARDRAIL (Includes End treatments & crash cushions) STEEL POSTS	LF EACH					
STEEL BLOCKS	EACH					
WOOD OFFSET BLOCKS	EACH					
BACK UP PLATES	EACH					
CRASH CUSHION	EACH					
NUTS, BOLTS, WASHERS	BAG/BCKT					
DAMAGED RAIL TO MAINT. FACILI	TY LF					
DAMAGED POSTS TO MAINT. FACI	LITY EACH					
*Required Signatures before Printed Section Engineer's Re	epresentative_					
Signature Section Engineer's	Representativ	re	_& Date			
Printed Contractor's Represe	entative		& Date			
Signature Contractor's Repre	esentative		_& Date			
*Required Signatures after A			on truck must be counted & the			
Printed Bailey Bridge Yard Re	epresentative_		& Date			
Signature Bailey Bridge Yard	Representativ	e	_& Date			
Printed Contractor's Represe	entative		& Date			
Signature Contractor's Repre	esentative		& Date			
•	ent will not be	made for guardrail removal	uantities shown in the Bailey Bridge until the guardrail verification sheets se Yard Representative.			

Completed Form Submitted to Section Engineer

Date: ______ By: _____

Inlaid Pavement Markers
Page 1 of 4

SPECIAL NOTE FOR INLAID PAVEMENT MARKERS

I. DESCRIPTION

Except as provided herein, perform all work in accordance with the Department's Standard and Supplemental Specifications and applicable Standard and Sepia Drawings, current editions. Article references are to the Standard Specifications. This work shall consist of:

(1) Maintain and Control Traffic; and (2) furnish and install Inlaid Pavement Markers (IPMs) in recessed grooves; and (3) any other work as specified by these notes and the Contract.

II. MATERIALS

The Department will sample all materials in accordance with the Department's Sampling Manual. Make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Markers.** Provide reflective lenses with depth control breakaway positioning tabs. Before furnishing the markers, provide to the Engineer the manufacturer's current recommendations for adhesives and installation procedures. Use one brand and design throughout the project. Use markers meeting the specifications in the table below.

SPECIFICATIONS FOR HOUSING AND REFLECTOR					
Material:	Polycarbonate Plastic				
Majabti	Housing 2.00 oz.				
Weight:	Reflector 2.00oz.				
Housing Size:	5.00" x 3.00" x 0.70" high				
Specific Intensity of Reflectivity at 0.2° Observation Angle					
White:	3.0 at 0°entrance angle				
vvriite.	1.2 at 20°entrance angle				
Yellow:	60% of white values				
Red:	ed: 25% of white values				

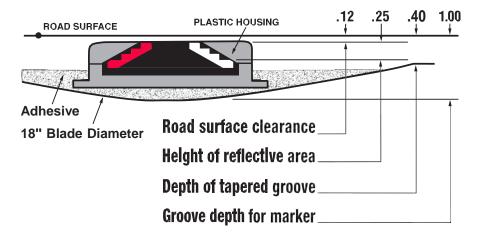
Inlaid Pavement Markers Page 2 of 4

C. Adhesives. Use adhesives that conform to the manufacturer's recommendations.

III. CONSTRUCTION

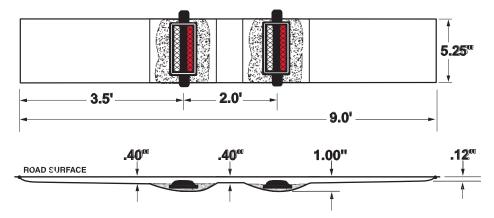
- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Installation.** Install IPMs in recessed grooves cut into the final course of pavement according to the manufacturer's recommendations. Do not cut the grooves until the pavement has cured sufficiently to prevent damaging the pavement. Cut installation grooves using diamond blades on saws that accurately control groove dimensions. Remove all dirt, grease, oil, loose or unsound layers, and any other material from the marker area which would reduce the bond of the adhesive. Maintain pavement surfaces in a clean condition until placing markers.

Prepare the pavement surfaces, and install the markers in the recessed groove according to the drawing below. Use an approved snowplowable epoxy adhesive. Ensure that the adhesive bed area is equal to the bottom area of the marker, and apply adhesive in sufficient quantity to force excess out around the entire perimeter of the marker. Use materials, equipment, and construction procedures that ensure proper adhesion of the markers to the pavement surface according to the manufacturer's recommendations. Remove all excess adhesive from in front of the reflective faces. If any adhesive or foreign matter cannot be removed from the reflective faces, or if any marker fails to properly adhere to the pavement surface, remove and replace the marker at no additional cost to the Department.



Inlaid Pavement Markers Page 3 of 4

C. Location and Spacing. Install the markers in the pattern for high reflectivity with two (2) IPMs per groove. Locate and space markers as shown in the current standard drawings or sepias (note: use Inlaid Pavement Markers wherever Type V Pavement Markers are called for). Do not install markers on bridge decks. Do not install a marker on top of a pavement joint or crack. Offset the recessed groove a minimum of <u>3</u> inches from any longitudinal pavement joint or crack and at least one inch from the painted stripe, ensuring that the finished line of markers is straight with minimal lateral deviation. Give preference to maintaining the <u>3</u>-inch offset between recessed groove and joint as opposed to keeping the line of markers straight.



Place inlaid markers as much in line with existing pavement striping as possible. Place markers installed along an edge line or channelizing line so that the near edge of the plastic housing is no more than one inch from the near edge of the line. Place markers installed along a lane line between and in line with the dashes. Do not place markers over the lines except where the lines deviate visibly from their correct alignment, and then only after obtaining the Engineer's prior approval of the location.

If conflicts between recessed groove placement in relation to pavement joint and striping cannot be resolved, obtain the Engineer's approval to eliminate the marker or revise the alignment.

- **D. Disposal of Waste.** Dispose of all removed pavement, debris, and other waste at sites off the right of way obtained by the Contractor at no additional cost to the Department. See Special Note for waste and Borrow.
- **E. Restoration.** Be responsible for all damage to public and/or private property resulting from the work. Restore all damaged features in like kind materials and design at no additional cost to the Department.

Inlaid Pavement Markers Page 4 of 4

- **F. On-Site Inspection.** Make a thorough inspection of the site prior to submitting a bid and be thoroughly familiar with existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid as evidence of this inspection having been made and will not honor any claims for money or grant Contract time extensions resulting from site conditions.
- **G. Caution.** Do not take information shown on the drawings and in this proposal and the types and quantities of work listed as an accurate or complete evaluation of the material and conditions to be encountered during construction, but consider the types and quantities of work listed as approximate only. The bidder must draw his own conclusion as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation or extension of Contract time if the conditions encountered are not in accordance with the information shown.

IV. MEASUREMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** "INLAID PAYMENT MARKER" shall be measured as each. One (1) installation of "INLAID PAVEMENT MARKER" will consist of grooving the pavement, removing cuttings and debris, preheating pavement to remove moisture, adhesives, and installation of two (2) markers with all lenses in accordance with this note.

Note: Each pay item of Inlaid Pavement Marker will require two markers.

V. PAYMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Inlaid Pavement Markers.** The Department will make payment for the completed and accepted quantity of completely installed "INLAID PAVEMENT MARKERS" at the Contract unit price, each. Accept payment as full compensation for all labor, equipment, materials, and incidentals to accomplish this work to the satisfaction of the Engineer. A system of one (1) groove and two (2) markers shall be paid as one "INLAID PAVEMENT MARKER". The bid item "INLAID PAVEMENT MARKER" shall be used regardless of the color and type of lenses required.

11N

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			

CodePay ItemPay Unit20071ECJoint AdhesiveLinear Foot

May 7, 2014

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	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	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 $40\,^{\circ}\text{F}$ 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 $170-180\,^{\circ}\text{F}$. After initial heating to between $170-180\,^{\circ}\text{F}$, the material may be sprayed between $165\,^{\circ}\text{F}$ and $180\,^{\circ}\text{F}$. 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			

CodePay ItemPay Unit24970ECAsphalt Material for Tack Non-TrackingTon

April 30, 2018



Secretary Greg Thomas

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

Governor Matthew G. Bevin

Asbestos Inspection Report

To: Andre Johannes

District: Central Office

Date: May 22, 2019

Report Prepared By: O'Dail Lawson

Conducted By: O'Dail Lawson

Project and Structure Identification

Project Number: Ohio Bridge Maintenance

Structure ID: 092B00072L

Structure Location: Wendell Ford Parkway over Natcher Parkway

Sample Description: The samples collected were negative for asbestos.

Inspection Date: May 1, 2019

Results and Recommendations

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

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



An Equal Opportunity Employer M/F/D

MRS, Inc. Analytical Laboratory Division



ZTZT-S64 (ZOS)

Louisville, Kentucky - 40202 - 2133 332 West Broadway / Suite # 902

Fax: (502) 491-7111

BULK SAMPLE ASBESTOS ANALYSIS

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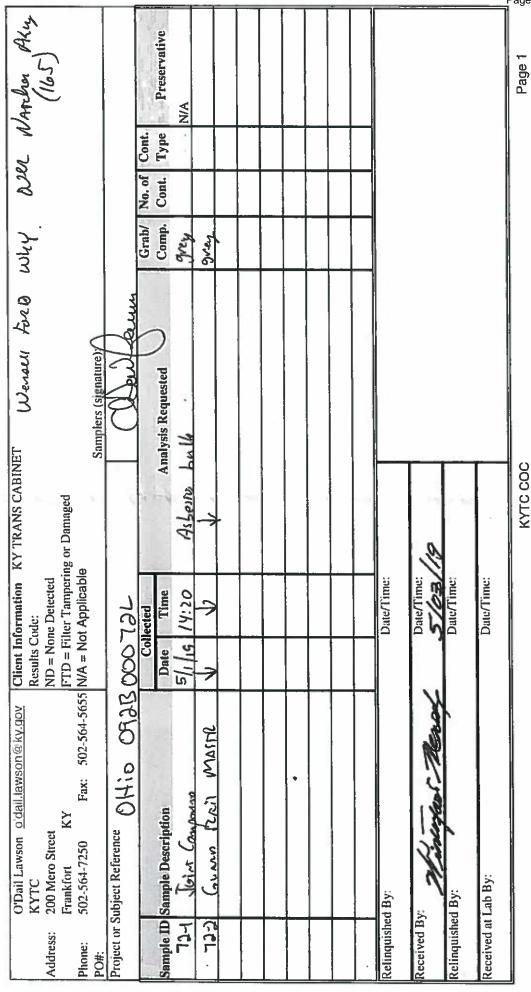
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Chain of Custody Record

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

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Secretary Greg Thomas

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

Matthew G. Bevin

Governor

Asbestos Inspection Report

To: Andre Johannes

District: Central Office

Date: May 22, 2019

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Ohio Bridge Maintenance

Structure ID: 092B00130L

Structure Location: Wendell Ford Parkway over Arnold Butler Road

Sample Description: The samples collected were negative for asbestos.

Inspection Date: May 1, 2019

Results and Recommendations

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

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



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MRS, Inc. Analytical Laboratory Division

Fax: (502) 491-7111 ZTZT-S6+ (ZOS)

Louisville, Kentucky - 40202 - 2133 332 West Broadway / Suite # 902

BULK SAMPLE ASBESTOS ANALYSIS

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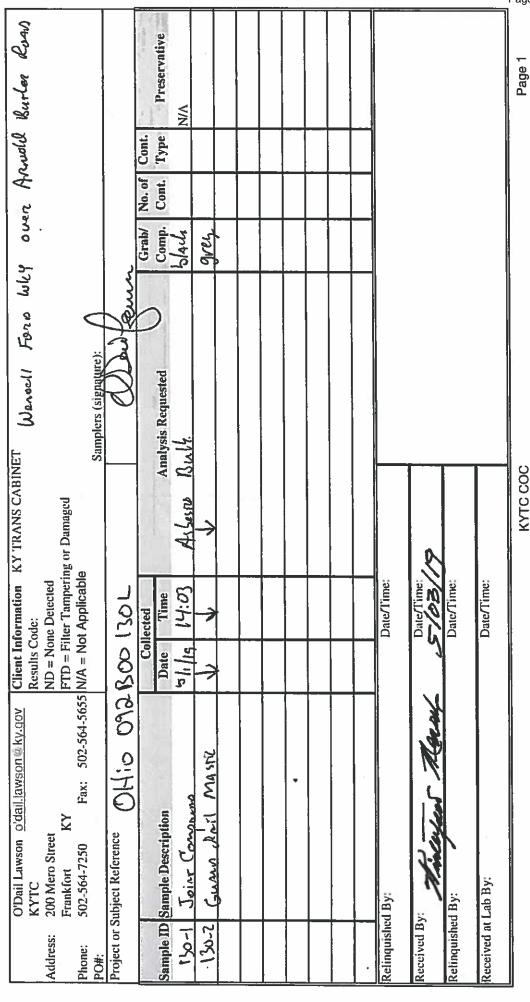
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Chain of Custody Record

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TRANSPORTATION CABINET





Secretary Greg Thomas

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

Matthew G. Bevin

Governor

Asbestos Inspection Report

To: Andre Johannes

District: Central Office

Date: May 22, 2019

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Ohio Bridge Maintenance

Structure ID: 092B00132L

Structure Location: Wendell Ford Parkway over US 231

Sample Description: The samples collected were negative for asbestos.

Inspection Date: May 1, 2019

Results and Recommendations

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

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



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MRS, Inc. Analytical Laboratory Division



Fax: (502) 495-1212

332 West Broadway / Suite # 902 Louisville, Kentucky - 40202 - 2133

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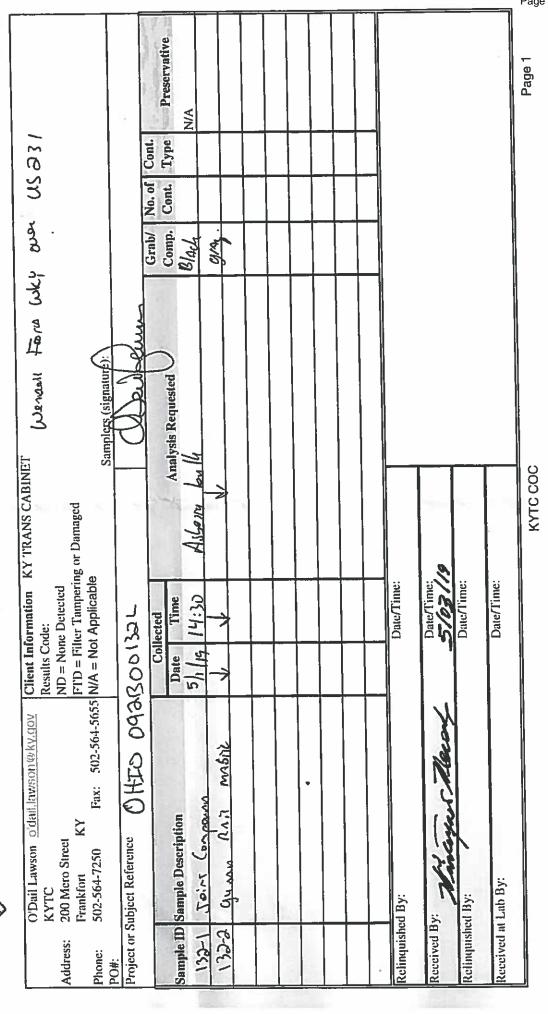
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654201 # AHIA

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KENTUCKY TRANSPORTA





Secretary Greg Thomas

Frankfort, Kentucky 40622 TRANSPORTATION CABINET COMMONWEALTH OF KENTUCKY

Governor Matthew G. Bevin

www.transportation.ky.gov/

Asbestos Inspection Report

To: Andre Johannes

District: Central Office

Date: May 22, 2019

Report Prepared By: O'Dail Lawson

Conducted By: O'Dail Lawson

Project and Structure Identification

Project Number: Ohio Bridge Maintenance

Structure ID: 092800133L

Structure Location: Wendell Ford Parkway over KY 369

Sample Description: The samples collected were negative for asbestos.

Inspection Date: May 1, 2019

Results and Recommendations

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

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



MRS, Inc. Analytical Laboratory Division



TTTZ-566 (20S) 375-7517

332 West Broadway / Suite # 902 Louisville, Kentucky - 40202 - 2133

BULK SAMPLE ASBESTOS ANALYSIS

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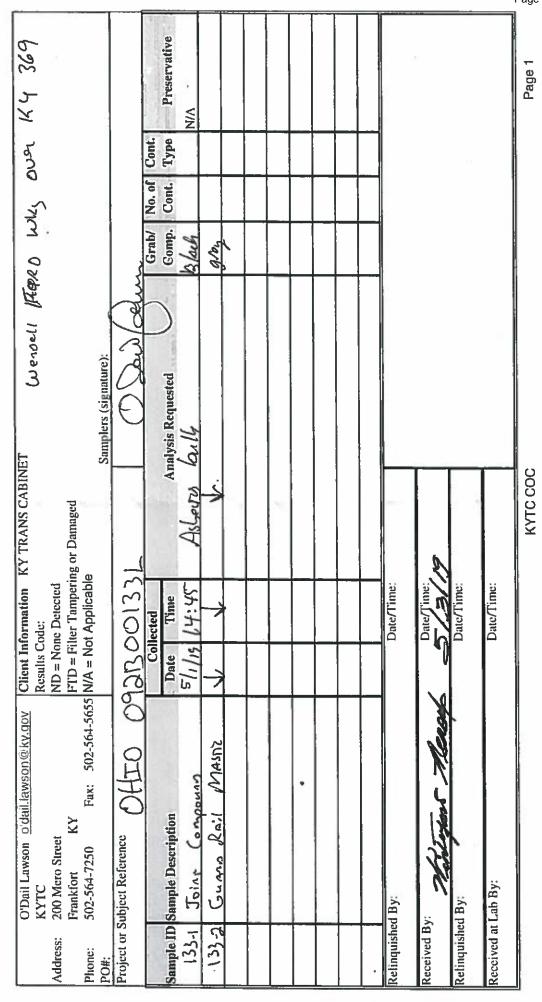
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Chain of Custody Record

Kentucky Transportation Cabinet 200 Mero Street, 5th Floor West

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

CABINET





Greg Thomas Secretary

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

Matthew G. Bevin

Солеглог

Asbestos Inspection Report

To: Andre Johannes

District: Central Office

Date: May 22, 2019

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Ohio Bridge Maintenance

Structure ID: 092B00134L

Structure Location: Wendell Ford Parkway over Lewis Creek

Sample Description: The samples collected were negative for asbestos.

Inspection Date: May 1, 2019

Results and Recommendations

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

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



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Fax: (502) 491-7111 ZTZT-S6t (ZOS)

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BULK SAMPLE ASBESTOS ANALYSIS

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Chain of Custody Record Kentucky Transportation Cabinet

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

KENTUCKY TRANSPORTATION CABINET

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ENVIRONMENTAL TRAINING CONCEPTS, INC

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

Certification Number: ETC-AIR-041619-00415

O'Dail Lawson

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

ASBESTOS INSPECTOR REFRESHER

SUR

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

Conducted at: 1520 Alliant Ave., Louisville, KY

Mame - Training Manager

Expiration Date: 04-16-2020

Name - Instructor

CONTRACT ID: 192605	092GR19M050 - FE02	MB09290011903
ONTRACT ID: 192605	092GR19M050 - FE02	MB09290011903

WK 9001 WB (MP 76.74). BRIDGE OVER NATCHER PKWY BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	24094EC	PARTIAL DEPTH PATCHING	1.90	CUYD
0010	02569	DEMOBILIZATION	1.00	LS
0015	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	2.00	EACH
0020	02372	REMOVE GUARDRAIL CON TO BR END	3.00	EACH
0025	02387	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	1.00	EACH
0030	02998	MASONRY COATING	260.00	SQYD
0035	03294	EXPAN JOINT REPLACE 1 1/2 IN	85.00	LF
0040	03299	ARMORED EDGE FOR CONCRETE	85.00	LF
0045	06556	PAVE STRIPING-DUR TY 1-6 IN W	312.50	LF
0050	06557	PAVE STRIPING-DUR TY 1-6 IN Y	250.00	LF
0055	08504	EPOXY SAND SLURRY	100.00	SQYD
0060	08510	REM EPOXY BIT FOREIGN OVERLAY	1,147.00	SQYD
0065	08526	CONC CLASS M FULL DEPTH PATCH	2.80	CUYD
0070	08549	BLAST CLEANING	1,247.00	SQYD
0075	08551	MACHINE PREP OF SLAB	1,147.00	SQYD
0800	23032EN	BRIDGE BARRIER RETROFIT	542.00	LF
0085	23331EC	EPOXY-URETHANE WATERPROOFING	10,322.00	SQFT
0090	23949EC	BRIDGE CLEANING & PREVENTIVE MAINTENANCE - APPLIES TO 092B00072L	1.00	LS
0095	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO 092B00072L	1.00	LS

CONTRACT ID: 192605	092GR19M050 - FE02	MB09290011904

WK 9001 EB (MP 76.74). BRIDGE OVER NATCHER PKWY BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0100	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	2.00	EACH
0105	02372	REMOVE GUARDRAIL CON TO BR END	3.00	EACH
0110	02387	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	1.00	EACH
0115	02998	MASONRY COATING	260.00	SQYD
0120	03294	EXPAN JOINT REPLACE 1 1/2 IN	85.00	LF
0125	03299	ARMORED EDGE FOR CONCRETE	85.00	LF
0130	06556	PAVE STRIPING-DUR TY 1-6 IN W	312.50	LF
0135	06557	PAVE STRIPING-DUR TY 1-6 IN Y	250.00	LF
0140	08504	EPOXY SAND SLURRY	100.00	SQYD
0145	08510	REM EPOXY BIT FOREIGN OVERLAY	1,147.00	SQYD
0150	08526	CONC CLASS M FULL DEPTH PATCH	5.60	CUYD
0155	08549	BLAST CLEANING	1,247.00	SQYD
0160	08551	MACHINE PREP OF SLAB	1,147.00	SQYD
0165	23032EN	BRIDGE BARRIER RETROFIT	542.00	LF
0170	23331EC	EPOXY-URETHANE WATERPROOFING	10,322.00	SQFT
0175	23949EC	BRIDGE CLEANING & PREVENTIVE MAINTENANCE - APPLIES TO 092B00072R	1.00	LS
0180	24094EC	PARTIAL DEPTH PATCHING	1.90	CUYD
0185	02569	DEMOBILIZATION	1.00	LS
0190	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO 092B00072R	1.00	LS

CONTRACT ID: 192605	092GR19M050 - FE02	MB09290011905

WK 9001 WB (MP 85.76). BRIDGE OVER KY-2713 BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0195	03299	ARMORED EDGE FOR CONCRETE	86.00	LF
0200	06556	PAVE STRIPING-DUR TY 1-6 IN W	150.00	LF
0205	06557	PAVE STRIPING-DUR TY 1-6 IN Y	120.00	LF
0210	08504	EPOXY SAND SLURRY	58.00	SQYD
0215	08510	REM EPOXY BIT FOREIGN OVERLAY	490.00	SQYD
0220	08526	CONC CLASS M FULL DEPTH PATCH	3.80	CUYD
0225	08549	BLAST CLEANING	548.00	SQYD
0230	08551	MACHINE PREP OF SLAB	490.00	SQYD
0235	24094EC	PARTIAL DEPTH PATCHING	.80	CUYD
0240	02569	DEMOBILIZATION	1.00	LS
0245	03293	EXPAN JOINT REPLACE 1 IN	86.00	LF
0250	08534	CONCRETE OVERLAY-LATEX	20.40	CUYD
0255		MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE 092B000130L	1.00	LS

CONTRACT ID: 192605 092GR19M050 - FE02 MB09290011906

WK 9001 EB (MP 85.76). BRIDGE OVER KY-2713 BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0260	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE 092B000130R	1.00	LS
0265	03293	EXPAN JOINT REPLACE 1 IN	86.00	LF
0270	03299	ARMORED EDGE FOR CONCRETE	86.00	LF
0275	06556	PAVE STRIPING-DUR TY 1-6 IN W	150.00	LF
0280	06557	PAVE STRIPING-DUR TY 1-6 IN Y	120.00	LF
0285	08504	EPOXY SAND SLURRY	58.00	SQYD
0290	08510	REM EPOXY BIT FOREIGN OVERLAY	490.00	SQYD
0295	08526	CONC CLASS M FULL DEPTH PATCH	4.40	CUYD
0300	08534	CONCRETE OVERLAY-LATEX	20.40	CUYD
0305	08549	BLAST CLEANING	548.00	SQYD
0310	08551	MACHINE PREP OF SLAB	490.00	SQYD
0315	24094EC	PARTIAL DEPTH PATCHING	.80	CUYD
0320	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 192605 092GR19M050 - FE02 MB09290011907

WK 9001 WB (MP 74.59). BRIDGE OVER US 231 BRIDGE SUPERSTRUCTURE REPLACEMENT.

Project ine No	Bid Code	DESCRIPTION	Quantity	Unit
0325	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE 092B000132L	1.00	LS
0330		ARMORED EDGE FOR CONCRETE	77.80	LF
0335		DEMOBILIZATION	1.00	LS
0340		CONCRETE-CLASS A	93.50	CUY
0345		CONCRETE-CLASS AA	169.00	CUY
0350		STEEL REINFORCEMENT	15,656.00	LB
0355		STEEL REINFORCEMENT-EPOXY COATED	51,489.50	LB
0360		CRUSHED AGGREGATE SLOPE PROT	130.50	TOI
0365		STRUCTURE GRANULAR BACKFILL	102.00	CUY
0370		MASONRY COATING	739.50	SQY
0375		PRECAST PC BOX BEAM SB21	507.25	LF
0380		RAIL SYSTEM SINGLE SLOPE - 40 IN	259.00	LF
0385		REMOVE CONCRETE MASONRY	67.00	CUY
0390		DGA BASE	100.00	TO
0395		ASPHALT SEAL AGGREGATE	7.50	TO
0400		ASPHALT SEAL COAT	1.00	TO
0400		LEVELING & WEDGING PG76-22	37.50	TO
0403		CL4 ASPH BASE 1.00D PG76-22	110.00	TO
0410		CL4 ASPH SURF 0.50A PG76-22	298.00	TO
0415		ASPHALT PAVE MILLING & TEXTURING	298.00	TO
				LF
0425		JOINT ADHESIVE	1,666.00	
0430		ASPHALT MATERIAL FOR TACK NON-TRACKING DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	1.50 7.00	TO EAC
0440		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	4.50	EAC
0445		GUARDRAIL-STEEL W BEAM-S FACE	387.50	LF
0450		GUARDRAIL-STEEL W BEAM-D FACE	137.50	LF
0455		GUARDRAIL CONNECTOR TO BRIDGE END TY A	2.00	EAG
0460		CRASH CUSHION TYPE IX-A	1.00	EA
0465		GUARDRAIL END TREATMENT TYPE 1	2.00	EAG
0470		REMOVE GUARDRAIL	537.50	LF
0475		THRIE BEAM GUARDRAIL TRANSITION TL-3	3.00	Li Li
0480		GUARDRAIL TERMINAL SECTION NO 1	1.00	EAG
0485		TEMP DITCH	337.50	LA
0490		CLEAN TEMP DITCH	168.75	Li Li
0490		SII T TRAP TYPE A	3.00	
0500	000	SILT TRAP TYPE B		EAG
		SILT TRAP TYPE B		
0505		CLEAN SILT TRAP TYPE A	1.00	EAG
0510		CLEAN SILT TRAP TYPE A CLEAN SILT TRAP TYPE B		EAG
0515			1.00	EAG
0520		CLEAN SILT TRAP TYPE C		EAG
0525		EROSION CONTROL BLANKET	1,210.00	
0530		TEMP MULCH	806.50	
116.76	05953	TEMP SEEDING AND PROTECTION	605.00	
0535	^			
0540 0545		INITIAL FERTILIZER MAINTENANCE FERTILIZER	.15	TO TO

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0555	05992	AGRICULTURAL LIMESTONE	.05	TON
0560	40030	TEMPORARY SILT FENCE	605.00	LF
0565	02562	TEMPORARY SIGNS	500.00	SQFT
0570	02671	PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH
0575	02676	MOBILIZATION FOR MILL & TEXT	1.00	LS
0580	02775	ARROW PANEL	1.00	EACH
0585	23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	38.00	LF
0590	04933	TEMP SIGNAL 2 PHASE	1.00	EACH
0595	06511	PAVE STRIPING-TEMP PAINT-6 IN	7,750.00	LF
0600	06542	PAVE STRIPING-THERMO-6 IN W	1,511.50	LF
0605	06543	PAVE STRIPING-THERMO-6 IN Y	1,090.50	LF
0610	06556	PAVE STRIPING-DUR TY 1-6 IN W	200.00	LF
0615	06557	PAVE STRIPING-DUR TY 1-6 IN Y	150.00	LF
0620	24489EC	INLAID PAVEMENT MARKER	21.00	EACH
0625	06568	PAVE MARKING-THERMO STOP BAR-24IN	25.50	LF
0630	23265ES717	PAVE MARK TY 1 TAPE STOP BAR-24 IN	34.50	LF
0635	06574	PAVE MARKING-THERMO CURV ARROW	4.00	EACH
0640	02545	CLEARING AND GRUBBING - APPLIES TO 092B00132L	1.00	LS
0645	02726	STAKING	1.00	LS
0650	02696	SHOULDER RUMBLE STRIPS	816.00	LF
0655	21451ED	FILL AND GRADE MEDIAN	250.00	LF
0660	20191ED	OBJECT MARKER TY 3	2.00	EACH
0665	02091	REMOVE PAVEMENT	125.00	SQYD
0670	02023	JPC PAVEMENT-9 IN/24	125.00	SQYD
0675	01984	DELINEATOR FOR BARRIER - WHITE	8.00	EACH
0680	01985	DELINEATOR FOR BARRIER - YELLOW	4.00	EACH
0685	01691	FLUME INLET TYPE 2	1.00	EACH
0690	01890	ISLAND HEADER CURB TYPE 1	17.00	LF
0695	02165	REMOVE PAVED DITCH	41.50	SQYD
0700	02484	CHANNEL LINING CLASS III	57.00	TON
0705	24894EC	REMOVE - REMOVE FLUME - APPLIES TO 092B00132L	1.00	EACH
0710	08301	REMOVE SUPERSTRUCTURE - APPLIES TO 092B00132L	1.00	LS

CONTRACT ID: 192605 092GR19M050 - FE02 MB09290011908

WK 9001 EB (MP 74.59). BRIDGE OVER US231 BRIDGE SUPERSTRUCTURE REPLACEMENT.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0715		MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE 092B000132R	1.00	LS
0720	03299	ARMORED EDGE FOR CONCRETE	77.80	LF
0725	02569	DEMOBILIZATION	1.00	LS
0730	08100	CONCRETE-CLASS A	93.50	CUYD
0735	08104	CONCRETE-CLASS AA	169.00	CUYD
0740	08150	STEEL REINFORCEMENT	15,656.00	LB

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0745	08151	STEEL REINFORCEMENT-EPOXY COATED	51,489.50	LB
0750	02998	MASONRY COATING	739.50	SQYD
0755	08020	CRUSHED AGGREGATE SLOPE PROT	130.50	TON
0760	02231	STRUCTURE GRANULAR BACKFILL	102.00	CUYD
0765	08669	PRECAST PC BOX BEAM SB21	507.25	LF
0770	25028ED	RAIL SYSTEM SINGLE SLOPE - 40 IN	259.00	LF
0775	02403	REMOVE CONCRETE MASONRY	67.00	CUYD
0780	00001	DGA BASE	100.00	TON
0785	00103	ASPHALT SEAL COAT	1.00	TON
0790	00194	LEVELING & WEDGING PG76-22	37.50	TON
0795	00219	CL4 ASPH BASE 1.00D PG76-22	110.00	TON
0800	00335	CL4 ASPH SURF 0.50A PG76-22	298.00	TON
0805	02677	ASPHALT PAVE MILLING & TEXTURING	298.00	TON
0810	20071EC	JOINT ADHESIVE	1,666.00	LF
0815	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	1.50	TON
		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL		
0820	01982	WHITE	7.00	EACH
0825	01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	4.50	EACH
0830	02351	GUARDRAIL-STEEL W BEAM-S FACE	387.50	LF
0835	02352	GUARDRAIL-STEEL W BEAM-D FACE	137.50	LF
0840	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	2.00	EACH
0845	02365	CRASH CUSHION TYPE IX-A	1.00	EACH
0850	02367	GUARDRAIL END TREATMENT TYPE 1	2.00	EACH
0855	02381	REMOVE GUARDRAIL	537.50	LF
0860	25025ED	THRIE BEAM GUARDRAIL TRANSITION TL-3	3.00	LF
0865	02360	GUARDRAIL TERMINAL SECTION NO 1	1.00	EACH
0870	02159	TEMP DITCH	337.50	LF
0875	02703	SILT TRAP TYPE A	3.00	
0880		SILT TRAP TYPE B	1.00	EACH
0885		SILT TRAP TYPE C	1.00	
0890		CLEAN SILT TRAP TYPE A		EACH
0895		CLEAN SILT TRAP TYPE B		EACH
0900		CLEAN SILT TRAP TYPE C		EACH
0905		EROSION CONTROL BLANKET	1,210.00	
0903		TEMP MULCH	806.50	
0915		TEMP SEEDING AND PROTECTION	605.00	
0913		INITIAL FERTILIZER	.15	TON
0925		MAINTENANCE FERTILIZER	.10	TON
0925		SPECIAL SEEDING CROWN VETCH	145.00	
0935		AGRICULTURAL LIMESTONE	.05	TON
0940		TEMPORARY SILT FENCE	605.00	LF
0945		TEMPORARY SIGNS	500.00	
0950		PORTABLE CHANGEABLE MESSAGE SIGN	3.00	
0955		MOBILIZATION FOR MILL & TEXT	1.00	LS
0960		ARROW PANEL	1.00	
0965		PAVE MARK TEMP PAINT STOP BAR-24 IN	38.00	LF
0970		TEMP SIGNAL 2 PHASE	1.00	
0975		PAVE STRIPING-TEMP PAINT-6 IN	7,750.00	LF
0980		PAVE STRIPING-THERMO-6 IN W	1,511.50	LF
0985	06543	PAVE STRIPING-THERMO-6 IN Y	1,090.50	LF

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0990	06556	PAVE STRIPING-DUR TY 1-6 IN W	200.00	LF
0995	06557	PAVE STRIPING-DUR TY 1-6 IN Y	150.00	LF
1000	24489EC	INLAID PAVEMENT MARKER	21.00	EACH
1005	06568	PAVE MARKING-THERMO STOP BAR-24IN	25.50	LF
1010	23265ES717	PAVE MARK TY 1 TAPE STOP BAR-24 IN	34.50	LF
1015	06574	PAVE MARKING-THERMO CURV ARROW	4.00	EACH
1020	02545	CLEARING AND GRUBBING - APPLIES TO 092B00132R	1.00	LS
1025	02726	STAKING	1.00	LS
1030	02696	SHOULDER RUMBLE STRIPS	816.00	LF
1035	21451ED	FILL AND GRADE MEDIAN	250.00	LF
1040	20191ED	OBJECT MARKER TY 3	2.00	EACH
1045	02091	REMOVE PAVEMENT	125.00	SQYD
1050	02023	JPC PAVEMENT-9 IN/24	125.00	SQYD
1055	01984	DELINEATOR FOR BARRIER - WHITE	8.00	EACH
1060	01985	DELINEATOR FOR BARRIER - YELLOW	4.00	EACH
1065	01691	FLUME INLET TYPE 2	1.00	EACH
1070	01890	ISLAND HEADER CURB TYPE 1	17.00	LF
1075	02165	REMOVE PAVED DITCH	41.50	SQYD
1080	02484	CHANNEL LINING CLASS III	57.00	TON
1085	24894EC	REMOVE - REMOVE FLUME - APPLIES TO 092B00132R	1.00	EACH
1090	08301	REMOVE SUPERSTRUCTURE - APPLIES TO 092B00132R	1.00	LS

CONTRACT ID: 192605 092GR19M050 - FE02 MB09290011909

WK 9001 WB (MP 72.42). BRIDGE OVER KY-369 BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
4005	00050	MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE	4.00	
1095		092B000133L	1.00	LS
1100	03299	ARMORED EDGE FOR CONCRETE	67.00	LF
1105	06556	PAVE STRIPING-DUR TY 1-6 IN W	232.50	LF
1110	06557	PAVE STRIPING-DUR TY 1-6 IN Y	186.00	LF
1115	08504	EPOXY SAND SLURRY	249.00	SQYD
1120	08534	CONCRETE OVERLAY-LATEX	34.40	CUYD
1125	02569	DEMOBILIZATION	1.00	LS
1130	03293	EXPAN JOINT REPLACE 1 IN	34.00	LF
1135	03298	EXPAN JOINT REPLACE 4 IN	34.00	LF
1140	08510	REM EPOXY BIT FOREIGN OVERLAY	619.00	SQYD
1145	08526	CONC CLASS M FULL DEPTH PATCH	2.80	CUYD
1150	08549	BLAST CLEANING	868.00	SQYD
1155	08551	MACHINE PREP OF SLAB	619.00	SQYD
1160	23949EC	BRIDGE CLEANING & PREVENTIVE MAINTENANCE - APPLIES TO 093B00133L	1.00	LS
1165	24094EC	PARTIAL DEPTH PATCHING	1.00	CUYD

CONTRACT ID: 192605	092GR19M050 - FE02	MB09290011910

WK 9001 EB (MP 72.42). BRIDGE OVER KY-369 BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
		MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE		
1170	02650	092B000133R	1.00	LS
1175	03293	EXPAN JOINT REPLACE 1 IN	34.00	LF
1180	03298	EXPAN JOINT REPLACE 4 IN	34.00	LF
1185	03299	ARMORED EDGE FOR CONCRETE	67.00	LF
1190	06556	PAVE STRIPING-DUR TY 1-6 IN W	232.50	LF
1195	06557	PAVE STRIPING-DUR TY 1-6 IN Y	186.00	LF
1200	08504	EPOXY SAND SLURRY	249.00	SQYD
1205	08510	REM EPOXY BIT FOREIGN OVERLAY	619.00	SQYD
1210	08526	CONC CLASS M FULL DEPTH PATCH	6.30	CUYD
1215	08534	CONCRETE OVERLAY-LATEX	34.40	CUYD
1220	08549	BLAST CLEANING	868.00	SQYD
1225	08551	MACHINE PREP OF SLAB	619.00	SQYD
		BRIDGE CLEANING & PREVENTIVE MAINTENANCE -		
1230	23949EC	APPLIES TO 093B00133R	1.00	LS
1235	24094EC	PARTIAL DEPTH PATCHING	1.00	CUYD
1240	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 192605	092GR19M050 - FE02	MB09290011911
CONTRACT ID. 192000	U9ZGR IBINIUSU - FEUZ	WDU3230011311

WK 9001 WB (MP 69.73). BRIDGE OVER LEWIS CREEK BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1245	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE 092B000134L	1.00	LS
1250	03293	EXPAN JOINT REPLACE 1 IN	92.00	LF
1255	03299	ARMORED EDGE FOR CONCRETE	92.00	LF
1260	06556	PAVE STRIPING-DUR TY 1-6 IN W	162.50	LF
1265	06557	PAVE STRIPING-DUR TY 1-6 IN Y	130.00	LF
1270	08504	EPOXY SAND SLURRY	60.00	SQYD
1275	08510	REM EPOXY BIT FOREIGN OVERLAY	507.00	SQYD
1280	08526	CONC CLASS M FULL DEPTH PATCH	2.80	CUYD
1285	08534	CONCRETE OVERLAY-LATEX	28.20	CUYD
1290	08549	BLAST CLEANING	567.00	SQYD
1295	08551	MACHINE PREP OF SLAB	507.00	SQYD
1300	24094EC	PARTIAL DEPTH PATCHING	.80	CUYD
1305	02569	DEMOBILIZATION	1.00	LS

WK 9001 EB (MP 69.73). BRIDGE OVER LEWIS CREEK BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
		MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE		
1310	02650	092B000134R	1.00	LS
1315	03293	EXPAN JOINT REPLACE 1 IN	92.00	LF
1320	03299	ARMORED EDGE FOR CONCRETE	92.00	LF
1325	06556	PAVE STRIPING-DUR TY 1-6 IN W	162.50	LF
1330	06557	PAVE STRIPING-DUR TY 1-6 IN Y	130.00	LF
1335	08504	EPOXY SAND SLURRY	60.00	SQYD
1340	08510	REM EPOXY BIT FOREIGN OVERLAY	507.00	SQYD
1345	08526	CONC CLASS M FULL DEPTH PATCH	2.80	CUYD
1350	08534	CONCRETE OVERLAY-LATEX	28.20	CUYD
1355	08549	BLAST CLEANING	567.00	SQYD
1360	08551	MACHINE PREP OF SLAB	507.00	SQYD
1365	24094EC	PARTIAL DEPTH PATCHING	.80	CUYD
1370	02569	DEMOBILIZATION	1.00	LS

Contract ID: 192605 **OHIO COUNTY** 092GR19M050 - FE02 Page 101 of 128 8th Edition AASHTO LRFD Bridge Design Specification 2019 Standard Specifications for Road and Bridge Construction. Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

Stencils for Structures
Neoprene Expansion Dams and Armored Edges
Elastomeric Bearing Pads for Box Beams
Bearing Details STANDARD DRAWINGS

SPECIFICATIONS

David

SPECIAL PROVISIONS

SPECIAL NOTES

INDEX OF SHEETS

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS OHIO COUNTY WESTERN KENTUCKY PARKWAY STA. 5300 + 98.88 **OVER US 231**

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Ō	02403	Remove —	СУ	21.0	46.0	46.0	21.0						134.0	ė
	25028ED	Rall System Single Slope - 40 Inch	LF									218	518	
Ë	69980	Precast PC Box Beam SB21-48	LF									1014.5	1014.5	
4	02998	Masonry Coating	S.Y.	32	218	218	32					979	1479	
ESTIMATE OF QUANTITIES	02231	Structure Granular Backfill	СУ	102			102						204	
ST	08020	Crushed Aggregate Slope Protection	Tons	801			153						261	
Ш	03299	Armored Edge for Concrete	L.F.									155.6	155.6	
	08151	Steel ReInforcement, Epoxy Coated	LBS.	4724	96	96	4724					93339	102979 155.6	
	08150	Steel ReInforcement	LBS.		15656	15656							31312	
	08104	Concrete "AA" essID	C.Y.									338.0	187.0 338.0 31312	
	08100	Concrete "A" assID	C Y	33.0	60.5	60,5	33.0						187.0	
	BID ITEM CODE	BID ITEM	TINO	ABUTMENT #1	PIER #1	PIER #2	ABUTMENT #2					Superstructure	BRIDGE TOTALS	
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HMB PROFESSIONAL

ITEM NUMBER

ENGINEERS, INC.

TITLE AND QUANTITIES

MKP WKP

OHIO OHIO

GENERAL NOTES

SPECIFICATION OF THE STANDARD SPECIFICATIONS ARE TO THE CURRENT EDITION OF THE STENDENCES. TO THE STANDARD SPECIFICATIONS OF BRIDGE CANDIDON BETAINENT OF HIGHARIS STRANDEN SPECIFICATIONS ALL REFERENCES TO THE ASSIND SPECIFICATIONS. ALL REFERENCES TO THE ASSIND SPECIFICATION AND STANDARD SPECIFICATIONS. ALL REFERENCES TO THE ASSIND SPECIFICATIONS AND THE TO THE CURRENT EDITION OF THE AASHTO LEFTO BRIDGE BRIDGE.

REINFORCEMENT

INCREASING THE

DESIGN LOAD THIS BRIDGE IS DESIGNED FOR A MODIFED HL-93 KY HL-83) LIVE LOAD OBTAINED BY THE AASHTO LOADING BY 252, SEE EXISTING PLANS FOR THE DESIGN LOAD USED FOR . SUBSTROCTINE THAT WILL REVAIN IN-PLACE.

CONTRACTOR VERIFY DIMENSIONS

CONTRACTOR SHALL VERIEY DIMENSION AND ELEVATIONS SHOWN IN THE PLANS BEFORE AND DIMENG CONSTRUCTION MAD ADJOUST BERE INGENIES AND OR REAM LENGTHS TO DESCRIPT THE AND ENTIRS IN THE FIRST PRODUCT, DIMENSIONS ARE FOR A NURSHALL EMPERATION OF 60 DEGREES FAHEWHEIT. LAYOUT DIMENSIONS ARE HAPITONIAL DIMENSIONS.

DESIGN METHOD
ALL REINFORCED CONCRETE MEMBERS ARE DESIGNED BY THE LOAD AND RESISTANCE FACTOR
METHOD AS SPECIFIED IN THE CURRENT AASHTO SPECIFICATIONS, SEE EXISTING PLANS
FOR THE DESIGN METHOD USED FOR THE SUBSTRUCTURE THAT WILL REMAIN IN-PLACE.

WEARING SURFACE LOAD.

FUTURE N

FUTURE WEARING SURFACE THIS BRIDGE IS DESIGNED FOR A 15 PSF

BEVELED EDGES ALL EXPOSED EDGES SHALL BE BEVELED 3/4'UNLESS OTHERWISE NOTED.

COMPLETION OF THE STRUCTURE
THE CONTRACTOR IS REQUIRED TO COMPLETE THE STRUCTURE IN ACCORDANCE WITH THE PLANS
THE CONTRACTOR IS REQUIRED TO CONFIDENCINON. NOT OTHERWISE SPECIFIED,
AND SPECIFICATIONS, MATERIAL, LABOR OR CONSTRUCTION OFFRATIONS, NOT OTHERWISE SPECIFIED,
AND SPECIFICATIONS, STRUCTURE, THE BUT THE MOST MOVED. THIS MAY
INCLUDE COFFERDAMS, SHORPING, EXCHALTIONS, RACKFILLING, REMOVAL, OF ALL OR PARTS OF
ELSE REQUIRED TO COMPLETE HE STRUCTURE, INCIDENTAL MATERIALS, LABOR, OR ANYTHING
ELSE REQUIRED TO COMPLETE HE STRUCTURE. BEFORE YOU DIG

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIREMENTS AND CONFORMATION WITH THE MEDICEROUN FACILITY DAMAGE PREVENTION ACT OF 1994, THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATINE ANY UTILITIES ON THIS PROJECT, ALL UNDERGROUND UTILITIES SHALL BE LOCATED WORSTRUCTOR. THE CONTRACTOR IS ADVISED TO CALL BROOT OF CONSTRUCTOR. THE CONTRACTOR IS ADVISED TO CALL BROOT ACCURATION OF SOME BUT NOT MORENIS DAYS FIGHT TO EXCAVATION FOR INFORMATION ON THE LOCATION OF SOME BUT NOT MECESSARILY ALL UNDERGROUND UTILITIES.

PROVIDED THE USE OF STAY-IN-PLACE FORMWORK FOR THE BRIDGE DECK IS PERMITTED F THE CORRUGATIONS ARE FILLED WITH EXPANDED POLYSTYRENE. STAY-IN-PLACE METAL FORMS

2

PIPE UNDERDRAIN AND GEOTEXTILE FABRIC SHALL BE CONSIDERED INCIDENTAL UNIT PRICE BID FOR STRUCTURE GRANULAR BACKFILL.

ABUTMENT CONSTRUCTION

MASONRY COATING

WITH A F CUTTING TE MASONRY. SURFACE WI COST OF C CONCRETE N CONCRETE MASONRY, CUT THE S FACILITATE A NEAT LINE. THE E UNIT PRICE BID FOR REMOVE (PRIOR TO REMOVAL OF THE EXISTING CONCRETE SAW TO A DEPTH OF 1" TO F CONCRETE SHALL BE INCLUDED IN THE CUTTING EXISTING CONCRETE SAW

2 IS THE COST OF CUTTING, BENDING AND CLEANING EXISTING REINFORCING STEEL INCIDENTAL TO THE LUMP SUM BID FOR REMOVE EXISTING SUPERSTRUCTURE.

DISCLAIMER
ACCETARCE OF ANY CONTRACTOR'S SUBMISSION REQUIRED ON THIS PROJECT DOES NOT
WORK PERFORMED, AND APPROVAL, THE ACCETARCE IS ACKNOWLEDGEMENT OF THE
WORK PERFORMED, AND ALPHOSTATION FOR THE CONTRACTOR OF PROGEDIS. THE LOPPATHENT
OF THE OWN TO BOMD BY ACCETARACE OF ANY SUBMISSIONS REQUIRED. FINAL ACCEPTANCE
RAPROVAL WILL BE CONTINGENT ON THE SATISFACTORY COMPLETION OF THE PROJECT, CONSTRUCTION IDENTIFICATION
THE NAMES OF THE PRIME CONTRACTOR AND THE SUBCONTRACTOR SHALL BE IMPRINTED
IN THE CONNERSE WITH ONE INCH. LETTERS AT A LOCATION DESIGNATED BY THE ENGINEER.
THE CONNERSE OF SHALL PRINSH ALL PLANSE, BOIDMENT AND LABOR NECESSARY TO DO
THE WORK FOR WHICH WAS DEECT PAYMENT WILL BE AMDE. SHETING OR SHORING MAY BE NECESSARY FOR CONSTRUCTION. THE COST OF ANY SLOW WORK SHALL BE INCLUDED IN THE LUIT FRICE BID FOR REMOVE EXISTING SUPERSTRUCTINE, LUMP ISING ON REMOVE CONCRETE MASONRY, CY, AS APPROPRIATE. WHEN CHANGES IN THE EMP DAWNINGS, ARE PROPOSED BY THE FABRICATOR OR S WHEN CHANGES IN THE CHANGES SHALL BE SUBJUTIED TO THE IN-THROUGH THE CONFIDENCE OF THE PLANS. SHALL PROVIDE THE DIVISION OF DESIGN ONE COPY OF THE FINAL APPROVED SHOP PLANS. EXISTING PLANS CAN BE FOUND UNDER DRAWING NUMBER OUT. 2 TUO CONTINUOUSLY SLAB POURING SEQUENCE SLAB SHALL BE POURED

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WILL NOT BE PERMITTED UNDER THE BEAMS W OR WHEN TAKING "TOP OF BEAM" ELEVATIONS.

TEMPORARY SUPPORTS
TEMPORARY SUPPORTS OR SHORING I
POURING THE CONCRETE DECK SLAB

STRUCTURE EXCAVATION

DIMENSIONS SHOWN FROM THE FACE OF CONCRETE TO BARS ARE TO CENTER OF BARS UNLESS OTHERWISE SHOWN OR NOTED. SAFONG OF BARS IS FROM CHEMER TO CENTER OF BARS. THE CLEEN STRANGE TO FACE OF CONCRETE IS 2"UNLESS OTHERWISE NOTED. ANY REPORTING BARS DESIGNATION BY THE SUFFIX RD IN THE PLANS SHALL BE DONY COALD IN ACCORDANCE WITH SCENT OF THE STANDARD SPECIFICATIONS. ANY RELPORTOGENE BASS DESIGNATION OF THE STANDARD SPECIFICATIONS. ANY RELPORTOGENE BASS DESIGNATION BY THE STEPTIX IN THE BENDING DIAGRAM SHALL BE CONSIDERED A STRRUP FOR FURPOSES OF BRIOD DAMETER.

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ASTM OR AASHTO SPECIFICATIONS, CURRENT EDITION, AS DESIGNATED BELOW SHALL GOVERN "MATERIALS FURNISHED.

STRUCTURAL STEEL, 36,000 PSI MIN. YIELD UNCOATED SEVEN-WIRE LOW-RELAXATION STRAND FOR PRESTRESSED CONCRETE STEEL REINFORCEMENT, GRADE 60

FOR PRESTRESSED BEAM MATERIAL SPECIFICATIONS, SEE BEAM SHEET. MATERIALS DESIGN SPECIFICATIONS
Fro = 3500 PSI FOR CLASS "A" REINFORCED CONCRETE
Fro = 4000 PSI FOR CLASS "AA" REINFORCED CONCRETE
Fy = 60000 PSI FOR STEEL REINFORCEMENT

MATERIAL SPECIFICATIONS

270

AASHTO M-203, GRADE ASTM A615/A615M-96d

CONURETE
CLASS, W.CONCRETE IS TO BE LISED IN THE SUPERSTRUCTURE. CLASS "W. CONCRETE IS
TO BE LISED IN THE SUBSTRUCTURE. PRESTRESSED BEAM CONCRETE SHALL BE IN
ACCORDANGE WITH THE PLANS AND SPECIFICATIONS.

AASHTO M-270, GRADE 36

EXISTING REINFORCING STEEL

ECHO CONTRECTOR SIGNATURE, OF BUT DEF OF THE YORK SHALL MAKE, A THOGODAL INSPECTION OF THE PROCEST SITE FROM TO SHAULTING AND SHALL BE THOROUGHLY FAMILATIZED WITH EXISTING CONDITIONS SO THAT MONE CAME BE EVENTIONISH. PERFORMED ATTER A CONTRACT IS MANAPED, SHAUSTSIN OF A BIN WILL BE CONSIDERED EVIDENCE OF THIS INSPECTION MANAPED, SHEED MANAPED SHAULTING FROM SITE CONDITIONS WILL NOT BE HONORED BY THE OPPRANTANT OF HOMBANY.

DAMAGES TO THE EXISTING SUBSTRUCTURES OF THE ENTIRE SUBSTRUCTURE, SHOULD

THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DURING RECONSTRUCTION EVEN TO THE REPLACEMENT THEY BE DAMAGED DUE TO HIS ACTIONS.

DAMAGE TO THE SUBSTRUCTURES

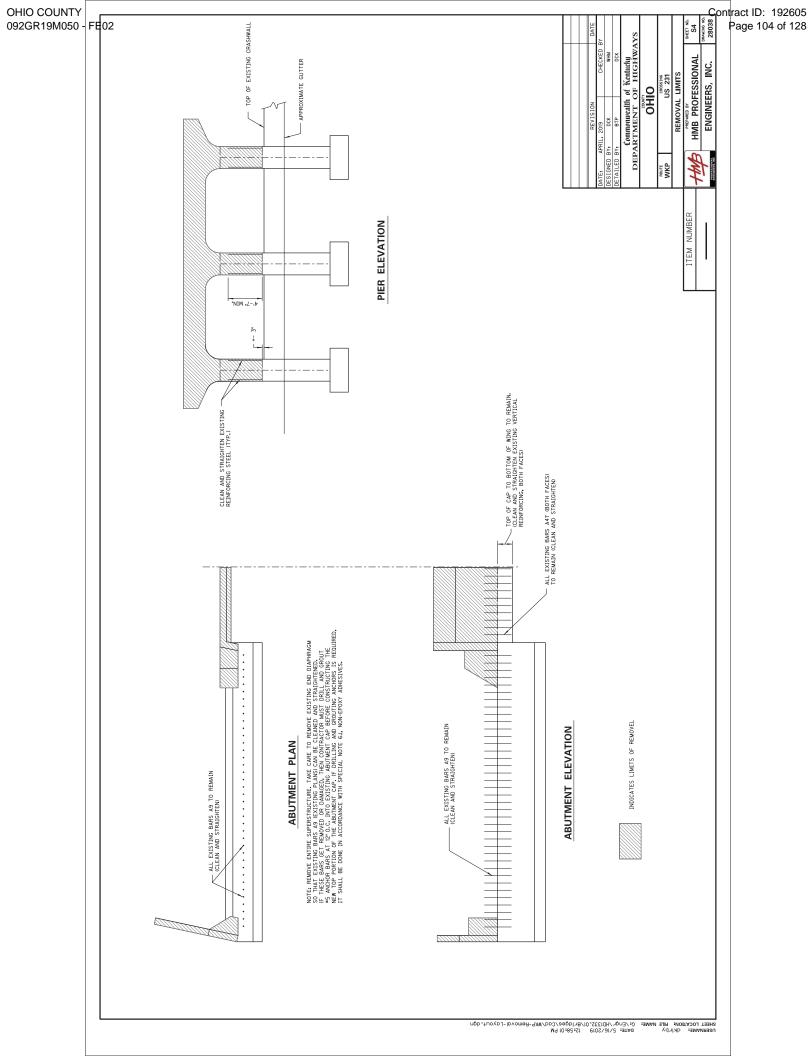
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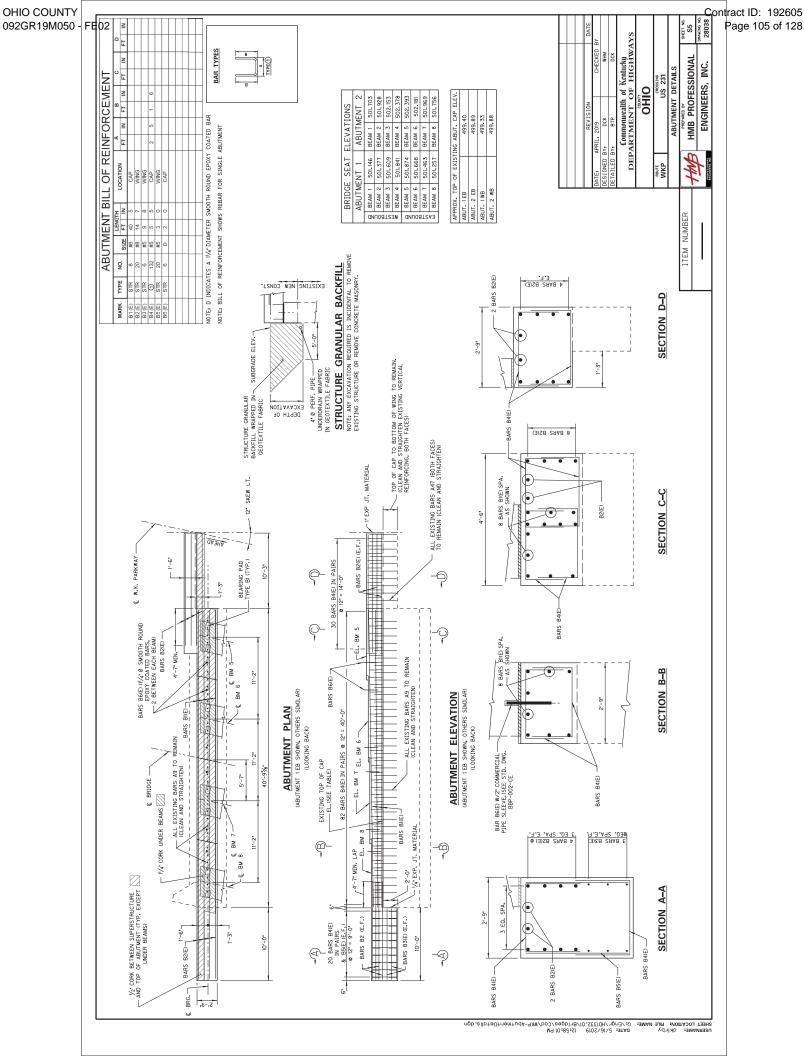
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HIMB PROFESSIONAL ENGINEERS, INC. GENERAL NOTES US 231 4 ROUTE WKP ITEM NUMBER

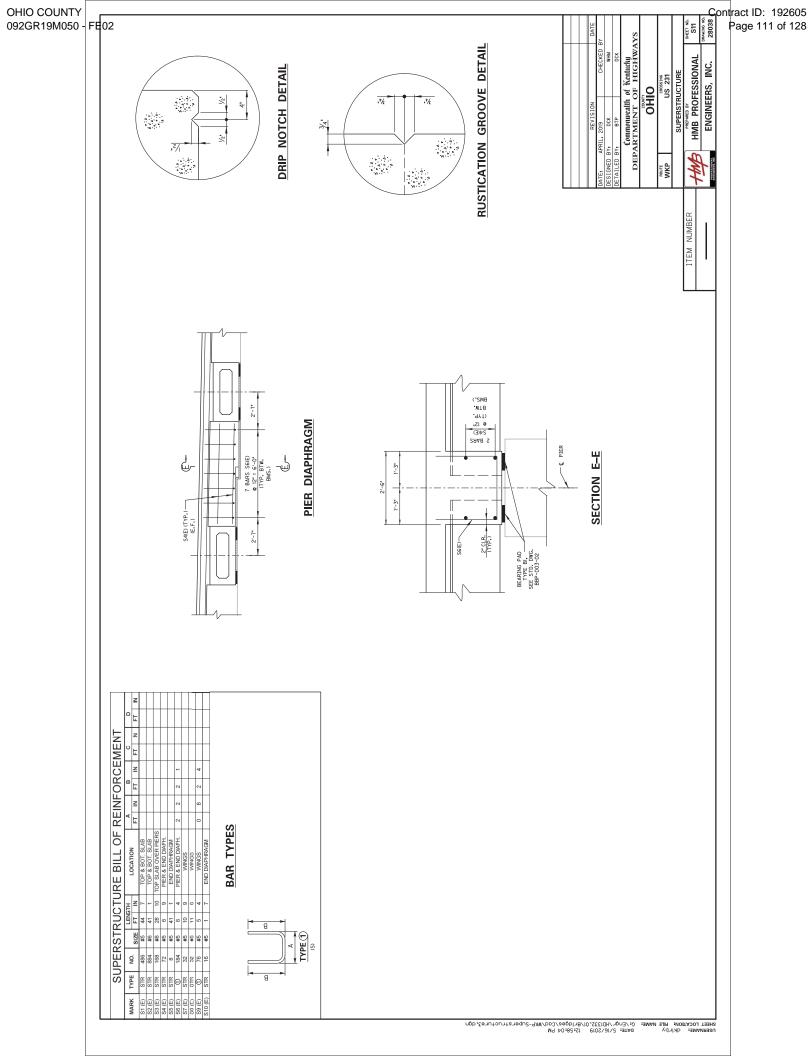
OHIO

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DATE: 5/21/2019 9:56:36 AM G:/Engr/HD1332,01/Bridges/Cad/SB21x48 Beam Detalls.dgn



OHIO COUNTY 092GR19M050 - FE02

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	PROFILE	GRADE	504.529	504.538	504.720	504.925	505.057	505.061		504.587	504.636	504.671	504.721	504.795	504.853	504.891	504.908	504.907	504.924	504.977	505.015	505.036	205.041	505.048
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	LT.	GUTTER	504.605	504.613	504.796	505.002	505.134	505.138		504.660	504.716	504.758	504.789	504.852	504.921	504.972	505.002	505.011	505.006	505.044	205,090	505.121	305.135	505.135
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RT. GUTTER

BEAM 4

CONST. TOP OF DIE

BEAM 2

LT. GUTTER

ELEVATIONS PROFILE GRADE

CONSTRUCTION

ELEVATIONS TAKEN ON PRESTRESSED CONCRETE SPANS

TAKE ELEVATIONS ON TOP OF BEAM AT POINTS INDICATED BY THE GRID LAYOUT. THE BEAM ELEVATIONS ARE TO BE READ TO THREE DECIMALS AND ENTERED IN TABLES UNDER "TOP OF BEAM" ELEVATIONS. "CONSTRUCTION ELEVATION WIMES "TOP OF BEAM ELEVATION CONDUCTION ELEVATION SINCE CAMBER DIE TO WIELD! O CONDETE LEVATIONS INCLUDE CAMBER DIE TO WIELD! O CONDETE LSA AND BRABER, MASSIMON VERY CONDUCT SINCE THE FINAL CHECK ON BEAM TOLENANCES FOR CAMBER, BEAM DANAGE AND ERRORE TO BE THE PRODUCE REVERSE CAMBERS, SAGS AND INSCRIPTLY RECTOR THAT PRODUCE REVERSE CAMBERS, SAGS AND INSCRIPTLY RASCIA BEAMS. COMPUTE DIMENSION "X" AS FOLLOWS:

SETTING TEMPLATES MEASURE DIMENSION "X" ABOVE TOP OF BEAMS TOP OF TEMPLATE, DO NOT SET TEMPLATE BY ELEVATIONS, FOR

TEMPORARY SUPPORTS OR SHORING WILL NOT BE PERMITTED UNDER THE BEASS WHEN POLINEN THE CONCRETE FLOOR SLAB OR WHEN TAKING THO'D OF BEAM ELEVATIONS.
CONSTRUCT BARRIER TO ROADWAY GRADE.

NOTE TO RESIDENT THE "MAXIMUM ALLOWABLE CAMBER' SHOWN ON THE BEAM SEET IS THE AMOUNT OF CAMBER, MESSINES PROBY TO CASTING THE BECK, ABOVE WHICH THE BEAM WILL BEED TO ENFONCH INTO THE START OF THE THAT HE "MAXIMUM ALLOWABLE CAMBER THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCESSARY ADJUSTINESTS TO ASSIGNE A MINIMUM SIZE AT HICKNESS OF EIGHT BINCHES, AS SHOWN IN THE PLASS. THIS WORK WILL BE CONSIDERED MICHORAL TO THE CONTRACTOR WILL BE CANSIDERED MICHORAL TO THE CONCRETION OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVAL OF THE STRUCTURE AND HAVE THE APPROVED.

Contract ID: 192605

SHEET NO.

CONSTRUCTION ELEVATIONS HMB PROFESSIONAL ENGINEERS, INC.

ITEM NUMBER

US 231

NKP WKP

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

OHIO

Page 113 of 128

WESTERN KY PARKWAY	27'-0'	1-3/4 3-0 12-0 12-0 12-0 13	EASTBOUND FASTBOUND
	40-6/2 our 10 our	40' SINGLE SLOPE (TPP) 10'-0' 12'-0	WESTBOUND To a company of the compan

ELEVATION

e, max

X2 Bars ~

Slab expansion— joint or intermediate wall joint

NOTE:
All guardrall transition fasteners
and terminal connectors are included
in the lump sum price bid for the
guardrall transition.

SECTION THROUGH

TRANSITION

7//2 17% 1'-3|/4"

All longitudinal steel to be epoxy coated #4 rebar

7//2 17/4

OPTIONAL SIDE SLOT DRAIN DETAIL

2'-0"

ΧĐШ

LXIO 0-,9

2" min.

2,-0"

3,-0 9

الم/4..

اا|/أ.

of or wall

Sigb o

6" max. spa.
XI & X2 bars | 6" |
Throughout

Place 4 additional #4 bars, 3'-8" in length and centered 2'-0" from end of rail

€ Thrie-Beam-Terminal Connector

313/18"-

Field bend bars— at end transition o maintain 2" min. clearance

ţ¢

ON RETAINING WALL 40" BARRIER

TYPICAL

TYPICAL 40" BARRIER SECTION Mandatory roughened construction join: Concrete above this joint is to be placed after stap has been properly acred and included in the bid for Rall System, 40 Inch Single Stope.

-1/2" Drip Notch

Place longitudinal-bars as shown in slab (Include in slab details, paid for in Slab Steel)

1/5.

1'-2"

.O-,I

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

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

SUPPLEMENTAL SPECIFICATIONS

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

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

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

OHIO COUNTY 092GR19M050 - FE02

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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.

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.

- 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 administrating agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

EXECUTIVE BRANCH CODE OF ETHICS

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

KRS 11A.040 (7) provides:

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

KRS 11A.040 (9) states:

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

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

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

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

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

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

Revised: January 27, 2017

Kentucky Equal Employment Opportunity Act of 1978

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

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

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

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

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

EMPLOYEE RIGHTS UNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

FEDERAL MINIMUM WAGE

\$7.25

FEN HOUI

BEGINNING JULY 24, 2009

OVERTIME PAY

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

CHILD LABOR

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

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

No more than

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

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

TIP CREDIT

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

ENFORCEMENT

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

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

ADDITIONAL INFORMATION

- Certain occupations and establishments are exempt from the minimum wage and/or overtime pay provisions.
- Special provisions apply to workers in American Samoa and the Commonwealth of the Northern Mariana Islands.
- \bullet Some state laws provide greater employee protections; employers must comply with both.
- \bullet 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.



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PART IV

INSURANCE

Contract ID: 192605 Page 124 of 128

INSURANCE

The Contractor shall procure and maintain the following insurance in addition to the insurance required by law:

- 1) Commercial General Liability-Occurrence form not less than \$2,000,000 General aggregate, \$2,000,000 Products & Completed Aggregate, \$1,000,000 Personal & Advertising, \$1,000,000 each occurrence.
- 2) Automobile Liability- \$1,000,000 per accident
- 3) Employers Liability:
 - a) \$100,000 Each Accident Bodily Injury
 - b) \$500,000 Policy limit Bodily Injury by Disease
 - c) \$100,000 Each Employee Bodily Injury by Disease
- 4) The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
 - a) "policy contains no deductible clauses."
 - b) "policy contains _____ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."
- 5) KENTUCKY WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

The cost of insurance is incidental to all contract items. All subcontractors must meet the same minimum insurance requirements.

PART V

BID ITEMS

Page 1 of 3

192605

PROPOSAL BID ITEMS

Report Date 5/30/19

Section: 0001 - BRIDGE

ecu	on: 0001 - E	OKIDGE					
LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
010	00001	DGA BASE	200.00	TON		\$	
020	00100	ASPHALT SEAL AGGREGATE	7.50	TON		\$	
030	00103	ASPHALT SEAL COAT	2.00	TON		\$	
040	00194	LEVELING & WEDGING PG76-22	75.00	TON		\$	
050	00219	CL4 ASPH BASE 1.00D PG76-22	220.00	TON		\$	
060	00335	CL4 ASPH SURF 0.50A PG76-22	596.00	TON		\$	
070	01691	FLUME INLET TYPE 2	2.00	EACH		\$	
080	01890	ISLAND HEADER CURB TYPE 1	34.00	LF		\$	
090	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	14.00	EACH		\$	
100	01984	DELINEATOR FOR BARRIER - WHITE	16.00	EACH		\$	
110	01985	DELINEATOR FOR BARRIER - YELLOW	8.00	EACH		\$	
		DELINEATOR FOR GUARDRAIL BI					
120	01987	DIRECTIONAL WHITE	9.00	EACH		\$	
130	02023	JPC PAVEMENT-9 IN/24	250.00	SQYD		\$	
140	02091	REMOVE PAVEMENT	250.00	SQYD		\$	
150	02159	TEMP DITCH	675.00	LF		\$	
160	02160	CLEAN TEMP DITCH	168.75	LF		\$	
170	02165	REMOVE PAVED DITCH	83.00	SQYD		\$	
180	02231	STRUCTURE GRANULAR BACKFILL	204.00	CUYD		\$	
190	02351	GUARDRAIL-STEEL W BEAM-S FACE	775.00	LF		\$	
200	02352	GUARDRAIL-STEEL W BEAM-D FACE	275.00	LF		\$	
210	02360	GUARDRAIL TERMINAL SECTION NO 1	2.00	EACH		\$	
220	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	8.00	EACH		\$	
230	02365	CRASH CUSHION TYPE IX-A	2.00	EACH		\$	
240	02367	GUARDRAIL END TREATMENT TYPE 1	4.00	EACH		\$	
250	02372	REMOVE GUARDRAIL CON TO BR END	6.00	EACH		\$	
260	02381	REMOVE GUARDRAIL	1,075.00	LF		\$	
		GUARDRAIL CONNECTOR TO BRIDGE END					
270	02387	TY A-1	2.00	EACH		\$	
280	02403	REMOVE CONCRETE MASONRY	134.00	CUYD		\$	
290	02484	CHANNEL LINING CLASS III	114.00	TON		\$	
300	02545	CLEARING AND GRUBBING APPLIES TO 092B00132L	1.00	LS		\$	
310	02545	CLEARING AND GRUBBING APPLIES TO 092B00132R	1.00	LS		\$	
320	02562	TEMPORARY SIGNS	1,000.00	SQFT		\$	
330	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO 092B00072L	1.00	LS		\$	
240	02650	MAINTAIN & CONTROL TRAFFIC	4.00			•	
340	02650	APPLIES TO 092B00072R	1.00	LS		\$	
350	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000130L	1.00	LS		\$	
360	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000130R	1.00	LS		\$	
370	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000132L	1.00	LS		\$	
380	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000132R	1.00	LS		\$	

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PROPOSAL BID ITEMS

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INE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
390	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000133L	1.00	LS		\$	
400	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000133R	1.00	LS		\$	
+00	02030	MAINTAIN & CONTROL TRAFFIC	1.00	LO		Ψ	
410	02650	APPLIES TO BRIDGE 092B000134L	1.00	LS		\$	
120	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000134R	1.00	LS		\$	
130	02671	PORTABLE CHANGEABLE MESSAGE SIGN	6.00	EACH		\$	
40	02676	MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
150	02677	ASPHALT PAVE MILLING & TEXTURING	596.00	TON		\$	
60	02696	SHOULDER RUMBLE STRIPS	1,632.00	LF		\$	
170	02703	SILT TRAP TYPE A	6.00	EACH		\$	
180	02704	SILT TRAP TYPE B	2.00	EACH		\$	
190	02705	SILT TRAP TYPE C	2.00	EACH		\$	
500	02706	CLEAN SILT TRAP TYPE A	6.00	EACH		\$	
10	02707	CLEAN SILT TRAP TYPE B	2.00	EACH		\$	
20	02708	CLEAN SILT TRAP TYPE C	2.00	EACH		\$	
30	02726	STAKING	1.00	LS		\$	
40	02775	ARROW PANEL	2.00	EACH		\$	
50	02998	MASONRY COATING	1,999.00	SQYD		\$	
60	03293	EXPAN JOINT REPLACE 1 IN	424.00	LF		\$	
70	03294	EXPAN JOINT REPLACE 1 1/2 IN	170.00	LF		\$	
80	03298	EXPAN JOINT REPLACE 4 IN	68.00	LF		\$	
90	03299	ARMORED EDGE FOR CONCRETE	815.60	LF		\$	
00	04933	TEMP SIGNAL 2 PHASE	2.00	EACH		\$	
10	05950	EROSION CONTROL BLANKET	2,420.00	SQYD		\$	
20	05952	TEMP MULCH	1,613.00	SQYD		\$	
30	05953	TEMP SEEDING AND PROTECTION	1,210.00	SQYD		\$	
640	05963	INITIAL FERTILIZER	.30	TON		\$	
350	05964	MAINTENANCE FERTILIZER	.20	TON		\$	
60	05989	SPECIAL SEEDING CROWN VETCH	290.00	SQYD		\$	
70	05992	AGRICULTURAL LIMESTONE	.10	TON		\$	
80	06511	PAVE STRIPING-TEMP PAINT-6 IN	15,500.00	LF		\$	
90	06542	PAVE STRIPING-THERMO-6 IN W	3,023.00	LF		\$	
00	06543	PAVE STRIPING-THERMO-6 IN Y	2,181.00	LF		\$	
10	06556	PAVE STRIPING-DUR TY 1-6 IN W	2,115.00	LF		\$	
20	06557	PAVE STRIPING-DUR TY 1-6 IN Y	1,672.00	LF		\$	
30	06568	PAVE MARKING-THERMO STOP BAR-24IN	51.00	LF		\$	
40	06574	PAVE MARKING-THERMO CURV ARROW		EACH		\$	
'50	08020	CRUSHED AGGREGATE SLOPE PROT	261.00	TON		\$	
60	08100	CONCRETE-CLASS A		CUYD		\$	
70	08104	CONCRETE-CLASS AA		CUYD		\$	
80	08150	STEEL REINFORCEMENT	31,312.00	LB		\$	
90	08151	STEEL REINFORCEMENT-EPOXY COATED	102,979.00	LB		\$	
	08301	REMOVE SUPERSTRUCTURE APPLIES TO 092B00132L	1.00	LS			
800	UOSUT		1.00	LS		\$	
310	08301	REMOVE SUPERSTRUCTURE APPLIES TO 092B00132R	1.00	LS		\$	
320	08504	EPOXY SAND SLURRY		SQYD		\$	
30	08510	REM EPOXY BIT FOREIGN OVERLAY	5,526.00			\$	

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PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
840	08526		CONC CLASS M FULL DEPTH PATCH	31.30	CUYD		\$	
850	08534		CONCRETE OVERLAY-LATEX	166.00	CUYD		\$	
0860	08549		BLAST CLEANING	6,460.00	SQYD		\$	
870	08551		MACHINE PREP OF SLAB	5,526.00	SQYD		\$	
0880	08669		PRECAST PC BOX BEAM SB21	1,014.50	LF		\$	
890	20071EC		JOINT ADHESIVE	3,332.00	LF		\$	
900	20191ED		OBJECT MARKER TY 3	4.00	EACH		\$	
910	21451ED		FILL AND GRADE MEDIAN	500.00	LF		\$	
920	23010EN		PAVE MARK TEMP PAINT STOP BAR-24 IN	76.00	LF		\$	
930	23032EN		BRIDGE BARRIER RETROFIT	1,084.00	LF		\$	
0940	23265ES717		PAVE MARK TY 1 TAPE STOP BAR-24 IN	69.00	LF		\$	
950	23331EC		EPOXY-URETHANE WATERPROOFING	20,644.00	SQFT		\$	
0960	23949EC		BRIDGE CLEANING & PREVENTIVE MAINTENANCE APPLIES TO 092B00072L	1.00	LS		\$	
0970	23949EC		BRIDGE CLEANING & PREVENTIVE MAINTENANCE APPLIES TO 092B00072R	1.00	LS		\$	
0980	23949EC		BRIDGE CLEANING & PREVENTIVE MAINTENANCE APPLIES TO 093B00133L	1.00	LS		\$	
0990	23949EC		BRIDGE CLEANING & PREVENTIVE MAINTENANCE APPLIES TO 093B00133R	1.00	LS		\$	
1000	24094EC		PARTIAL DEPTH PATCHING	9.00	CUYD		\$	
1010	24489EC		INLAID PAVEMENT MARKER	42.00	EACH		\$	
1020	24894EC		REMOVE REMOVE FLUME - APPLIES TO 092B00132L	1.00	EACH		\$	
030	24894EC		REMOVE REMOVE FLUME - APPLIES TO 092B00132R	1.00	EACH		\$	
040	24970EC		ASPHALT MATERIAL FOR TACK NON- TRACKING	3.00	TON		\$	
050	25025ED		THRIE BEAM GUARDRAIL TRANSITION TL-3	6.00	LF		\$	
060	25028ED		RAIL SYSTEM SINGLE SLOPE - 40 IN	518.00	LF		\$	
070	40030		TEMPORARY SILT FENCE	1,210.00	LF		\$	

Section: 0002 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1080	02569		DEMOBILIZATION	1.00	LS		\$	