

CALL NO. <u>404</u>

CONTRACT ID. <u>192605</u>

OHIO COUNTY

FED/STATE PROJECT NUMBER 092GR19M050 - FE02

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

- PROJECT(S), COMPLETION DATE(S), & LIQUIDATED DAMAGES
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PART II SPECIFICATIONS AND STANDARD DRAWINGS

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- SUPPLEMENTAL SPECIFICATION

PART III EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

- LABOR AND WAGE REQUIREMENTS
- EXECUTIVE BRANCH CODE OF ETHICS
- KENTUCKY EQUAL EMPLOYMENT OPPORTUNITY ACT OF 1978 LOCALITY / STATE
- PROJECT WAGE RATES / STATE
- PART IV INSURANCE
- PART V BID ITEMS

REFERENCES

FE02 092 9001 B00072L FE02 092 9001 B00072R FE02 092 9001 B00130L FE02 092 9001 B00130R FE02 092 9001 B00133L FE02 092 9001 B00133R FE02 092 9001 B00134L FE02 092 9001 B00134R

- 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:

BJE-001-013	NEOPRENE EXPANSION DAMS AND ARMORED EDGE
RBM-020-09	DELINEATORS FOR CONCRETE BARRIERS
RBM-115-10	CONCRETE BARRIER WALL TYPE 9T (TEMPORARY)
TTC-100-04	LANE CLOSURE TWO LANE HIGHWAY
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
TTC-160-02	TEMPORARY PAVEMENT MARKER ARRANGEMENTS FOR LANE
	CLOSURES
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
SEPIA 008	RUMBLE STRIP DETAILS MULTI-LANE ROADWAYS AND RAMPS
SEPIA 013	GUARDRAIL CONNECTOR TO BRIDGE END TYPE A AND A1
	COMPONENTS
SEPIA 015	GUARDRAIL CONNECTOR TO BRIDGE END TYPE A
SEPIA 016	GUARDRAIL CONNECTOR TO BRIDGE END TYPE A-1
SEPIA 021	CRASH CUSHION TYPE VI-BT
SEPIA 027	STEEL BEAM GUARDRAIL "W" BEAM
SEPIA 028	STEEL GUARDRAIL POSTS

REFERENCES

FE02 092 9001 B00072L FE02 092 9001 B00072R FE02 092 9001 B00130L FE02 092 9001 B00130R FE02 092 9001 B00133L FE02 092 9001 B00133R FE02 092 9001 B00134L FE02 092 9001 B00134R

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	Fixed Completion Date and Liquidated Damages attached
Special Note	Asphalt Milling and Texturing attached
Special Note	Special Note for Significant Project attached
Special Note	Special Note for Non-Tracking Tack Coat attached
Special Note	Special Note for 3/8" Epoxy-Urethane Waterproofing Overlay for Bridge Decks <i>attached</i>
Special Note	Special Note for Replacing Expansion Dams and/or Installing Armored Edges for Concrete Bridges <i>attached</i>
Special Note	Special Note for Bridge Cleaning and Preventative Maintenance: Bearing Cleaning and Lubricating <i>attached</i>
Special Note	Special Note for Bridge Barrier Retrofit attached
Special Note	Special Note for Bridge Restoration and Waterproofing with Concrete Overlays <i>attached</i>
Special Note	Special Note for Replacing Compression Seal in Existing Expansion Joint attached
Special Note	Special Note for Bridge Demolition, Renovation and Asbestos Abatement attached

ITEM	> _	WFSTFR	NI IZ LITI I				i					
ITEM			N KENIU		KWAY - C	ERN KENTUCKY PARKWAY - OHIO COUNTY	JNTY					
ITEM								QUANTITIES	ES			
ITEM			MP W	MP 69.73 WKP	MP 72.42 WKP	72.42 (P		MP 76.74 WKP	MP 85.76 WKP	.5.76 СР		
	NOTE	UNIT	O	OVER LEWIS CREEK	OVER KY 369	ER 369	OVER NATCHER PKWY	over Her Pkwy.	OVER KY 2713	ER 713		TOTAL
			092B0	092B00134L/R	092B00133L/R	133L/R	092B00	092B00072L/R	092B00130L/R	130L/R		
			EB	WB	EB	WB	EB	WB	EB	WB		
			2	_	R		R		Я			
GUARD. CONN. TO BRIDGE END TY A		EACH		'		ı	2	2		-		4
REMOVE GUARDRAIL CON TO BR END) 5	EACH	,	'		Ţ	3	3		-		9
GUARD. CONN. TO BRIDGE END TY A-1	1	EACH	-	-	-	-	1	1	-	-		2
MASONRY COATING		SQ. YD.	-	•	•		260	260	•			520
EXPAN JOINT REPLACE 1 IN	1	LIN. FT	- 92	92	34	34	-	-	86	86		424
EXPAN JOINT REPLACE 1.5 IN	-	LIN. FT	,	,			58	85	1	-		170
EXPAN JOINT REPLACE 4.0 IN	1	LIN. FT	-	-	34	34	-	-	-	-		68
ARMORED EDGE FOR CONCRETE		LIN. FT.	- 92	92	67	67	85	85	86	86		660
PAVE STRIPING-DUR TY 1-6 IN W		LIN. FT.	- 162.5	162.5	232.5	232.5	312.5	312.5	150.0	150.0		1715.0
PAVE STRIPING-DUR TY 1-6 IN Y		LIN. FT	- 130.0	130.0	186.0	186.0	250.0	250.0	120.0	120.0		1372.0
EPOXY SAND SLURRY		SQ. YD.	. 60	09	249	249	100	100	58	58		934
REM EPOXY BIT FOREIGN OVERLAY		SQ. YD.). 507	507	619	619	-	-	490	490		3,232
CONC CLASS M FULL DEPTH PATCH	3	CU. YD.). 2.8	2.8	6.3	2.8	5.6	2.8	4.4	3.8		31.3
CONCRETE OVERLAY-LATEX		CU. YD.). 28.2	28.2	34.4	34.4	-		20.4	20.4		166.0
BLAST CLEANING		SQ. YD.). 567	567	868	898	1247	1247	548	548		6,460
MACHINE PREP OF SLAB		SQ. YD.	-	-	-		1147	1147		-		2,294
BRIDGE BARRIER RETROFIT		LIN. FT	-	-	-		542	542		-		1,084
EPOXY-URETHANE WATERPROOFING		SQ. FT		'		ı	10322	10322				20,644
BRIDGE CLEANING AND PREV. MAINT	. 4	LS	ı	'	-	1	-		I	1		1
PARTIAL DEPTH PATCHING	2	CU. YD.	0.8	0.8	1.0	1.0	1.9	1.9	0.8	0.8		9.0

REVISED ADDENDUM #2: 6-17-19 Contract ID: 192605 Page 5 of 64

BID CODE													
BID CODE		WESTI	ERN KE	ERN KENTUCKY PARKWAY - OHIO COUNTY	' PARK	WAY - 0	HIO COL	JNTY					
BID CODE									QUANTITIES	IES			
BID CODE				MP 69.73 WKP	.3	MP 72.42 WKP	2.42 (P	t am Iw	MP 76.74 WKP	3 gm 1W	MP 85.76 WKP		
	ITEM	S NOTE		OVER LEWIS CREEK	EEK	OVER KY 369	ER 369	NATCHE	OVER NATCHER PKWY.	κΥ <u>;</u> ΚΥ <u>;</u>	OVER KY 2713		TOTAL
		(ľ	200137	tr/K	092B00133L/R	133L/R	092800	092B000/2L/R	092B0	092B00130L/R		
2562 TEMP	TEMPORARY SIGNS	SQ.	FT.	149 7	149	149	149	149	149	149	149		1,192
2650 MAIN	MAINTAIN AND CONTROL TRAFFIC		S	-	-	-	-		-	-			-
2003 RELO	RELOCATE TEMP CONC BARRIER	LIN.	. FT.	480 4	480	420	420	380	380	480	480		3,520
2671 PORT.	PORTABLE CHANGEABLE MESSAGE SIGN	EA	EACH	.	1	-	1	.	1	-	.		8
2775 ARRC	ARROW PANEL	EA	EACH	1	1	1	1	L	1	L	-		8
3171 CONC	CONCRETE BARRIER WALL TYPE 9T	LIN.	. FT.	480 4	480	420	420	400	400	480	480		3,560
6549 PAVE	PAVE STRIPING - TEMP REM TAPE-B	LIN.	FT.	2280 2	2280	1610	1610	780	780	2280	2280		13,900
6556 PAVE	PAVE STRIPING-DUR TY 1-6 IN W	LIN.	FT.	162.5 1	162.5	232.5	232.5	312.5	312.5	150	150		1,715
6557 PAVE	PAVE STRIPING-DUR TY 1-6 IN Y	LIN.	. FT.	130 7	130	186	186	250	250	120	120		1,372
8150 STEE	STEEL REINFORCEMENT	LB	3S.	300	300	300	300	300	300	300	300		2,400
6550 PAVE	PAVE STRIPING - TEMP REM TAPE-W	LIN.	FT.	3240 3	3240	2875	2875	0/09	6070	3240	3240		30,850
6551 PAVE	PAVE STRIPING - TEMP REM TAPE-Y	LIN.	FT.	3365 3	3365	2875	2875	4600	4600	3365	3365		28,410
8903 CRAS	CRASH CUSHION TY VI CLASS BT TL3	EA	EACH	1	1	1	1	L	1	L	-		8
2898 RELO	RELOCATE CRASH CUSHION	EA	EACH	1	-	1	1	1	1	1	-		8
1984 DELIN	DELINEATOR FOR BARRIER - WHITE	EA	EACH	33	33	27	27	33	33	33	33		252
1985 DELIN	DELINEATOR FOR BARRIER - YELLOW	EA	EACH	33	33	30	30	32	32	33	33		256
2014 BARF	BARRICADE-TYPE III	EA	EACH	1	1	1	٦	1	1	1	1		8
20099ES842 PAVE	PAVE MARK TEMP PAINT STOP BAR	LIN.	. FT.	0	0	0	0	80	80	0	0		160
2676 MOBI	MOBILIZATION FOR MILL & TEXT		S	1	1	1	1	L	1	1	L		8
2677 ASPH	ASPHALT PAVE MILLING & TEXTURING	TO	TONS	505	505	124	124	209	209	202	505		2,686
0219 CL4 A	CL4 ASPH BASE 1.00D PG76-22	TO	TONS	505	505	124	124	209	209	505	505		2,686
2696 SHOL	SHOULDER RUMBLE STRIPS	LIN.	FT.	1500 1	1500	840	840	500	500	1500	1500		8,680
24970EC ASPH	ASPHALT MATERIAL FOR TACK NON-TRACKING	TO	TONS	0.6 (0.6	0.2	0.2	0.3	0.3	9.0	0.6		3

EXPANSION JOINT REPLACEMENT SIZE BASED ON EXISTING PLANS. CONTRACTOR SHALL FIELD VERIFY JOINT SEAL WIDTH BEFORE ORDERING MATERIAL.

- PARTIAL DEPTH OUANTITY IS BASED ON APPROXIMATE ESTIMATE OF 0.50% OF THE OVERALL OVERLAY AREA. FULL DEPTH CONCRETE PATCHING QUANTITY BASED ON VISUAL INSPECTION OF EACH BRIDGE. BRIDGE CLEANING & PREVENTATIVE MAINTENANCE CORRESPONDS TO THE CLEANING AND LUBRICATION OF ALL MOVEABLE BEARINGS. SEE THE SPECIAL NOTE --
 - FOR BEARING CLEARNING AND LUBRICATION. SHALL INCLUDE REMOVAL OF 25' OF GUARDRAIL. <u>ى</u>

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 <u>KRS 14A.9-010</u> to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under <u>KRS 14A.9-030</u> 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 <u>KRS 14A.9-010</u>, the foreign entity should identify the applicable exception. Foreign entity is defined within <u>KRS 14A.1-070</u>.

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 <u>https://secure.kentucky.gov/sos/ftbr/welcome.aspx</u>.

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 <u>kytc.projectquestions@ky.gov</u>. 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 (<u>www.transportation.ky.gov/contract</u>). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

HARDWOOD REMOVAL RESTRICTIONS

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

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

ACCESS TO RECORDS

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

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

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

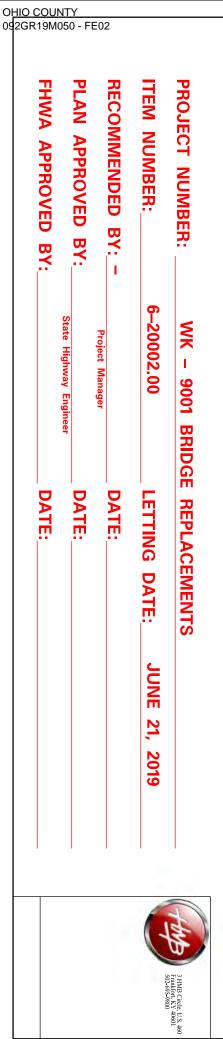
April 30, 2018

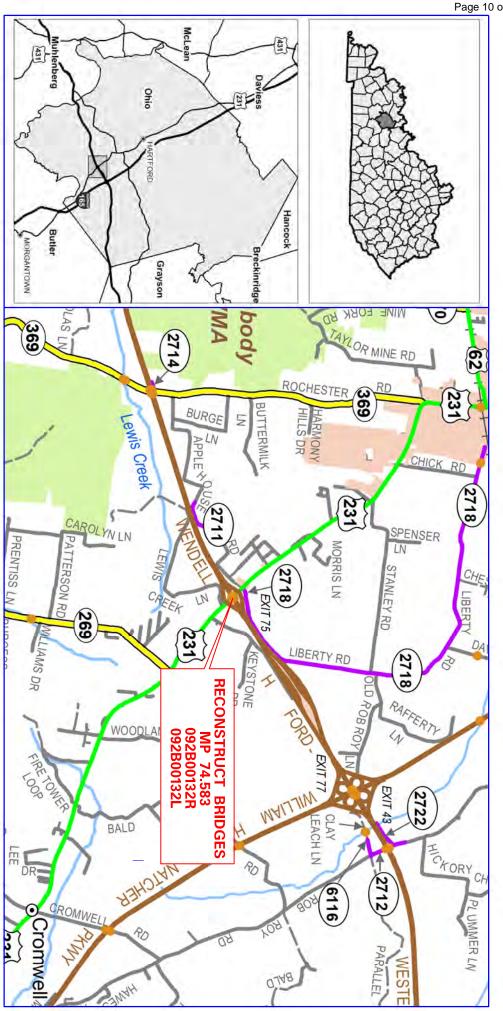
SPECIAL NOTE FOR RECIPROCAL PREFERENCE

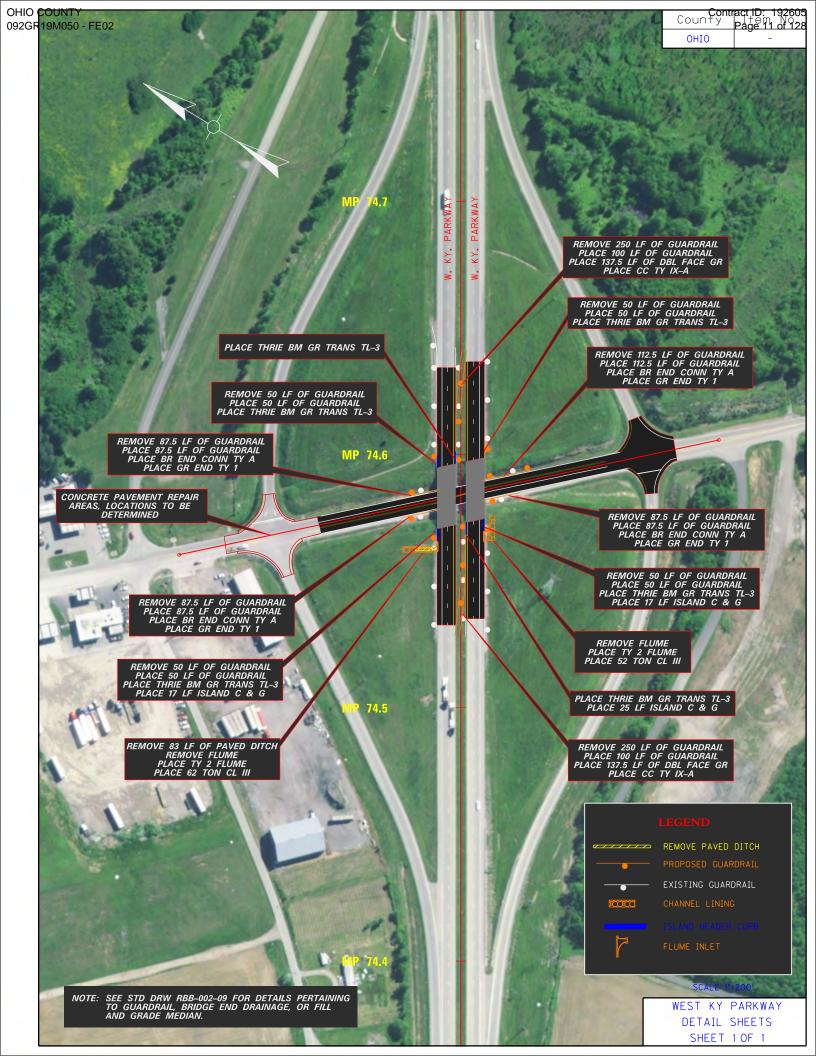
RECIPROCAL PREFERENCE TO BE GIVEN BY PUBLIC AGENCIES TO RESIDENT BIDDERS

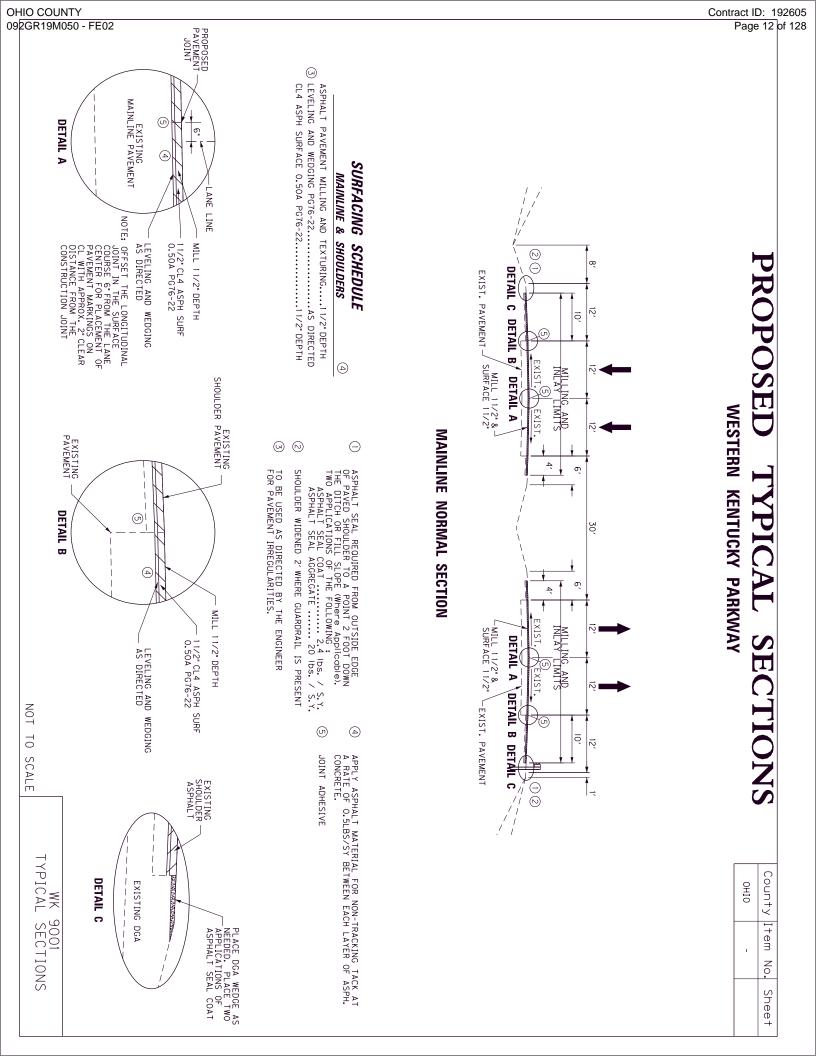
By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the electronic bidding software. Submittal of the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

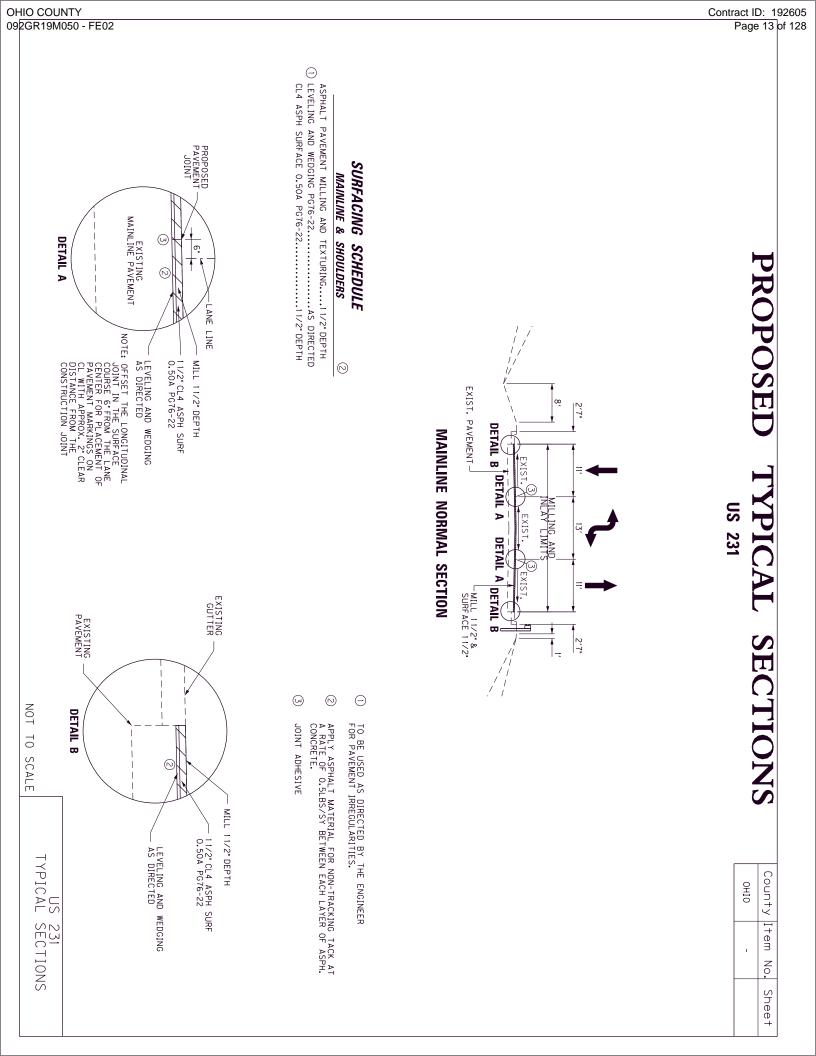
April 30, 2018











OHIO COUNTY 092 DR 19M030 - FEC Contract ID: 192605

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

EM NUMBER	ITEM		UNIT	QUANTIT
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
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OHIO COUNTY 092 Contract ID: 192605

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

TEM NUMBER	ITEM	UNIT	QUANTI
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	1,000
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	1.5	15 500
06542		LF	15,500
	PAVE STRIPING-THERMO-6 IN W		3,023
06543 06556	PAVE STRIPING-THERMO-6 IN Y PAVE STRIPING-DUR TY 1-6 IN W	LF LF	2,181
			400
06557 24489EC	PAVE STRIPING-DUR TY 1-6 IN Y	LF	300
	INLAID PAVEMENT MARKER	EACH LF	42 51
06568	PAVE MARKING-THERMO STOP BAR-24IN	LF	
23265ES717 06574	PAVE MARK TY 1 TAPE STOP BAR-24 IN PAVE MARKING-THERMO CURV ARROW	EACH	69 8
00374		EACH	0
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
00001			
02091		SQYD	250
02023	JPC PAVEMENT-9 IN/24	SQYD	250
01984	DELINEATOR FOR BARRIER - WHITE	EACH	16
01985	DELINEATOR FOR BARRIER - YELLOW	EACH	8

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

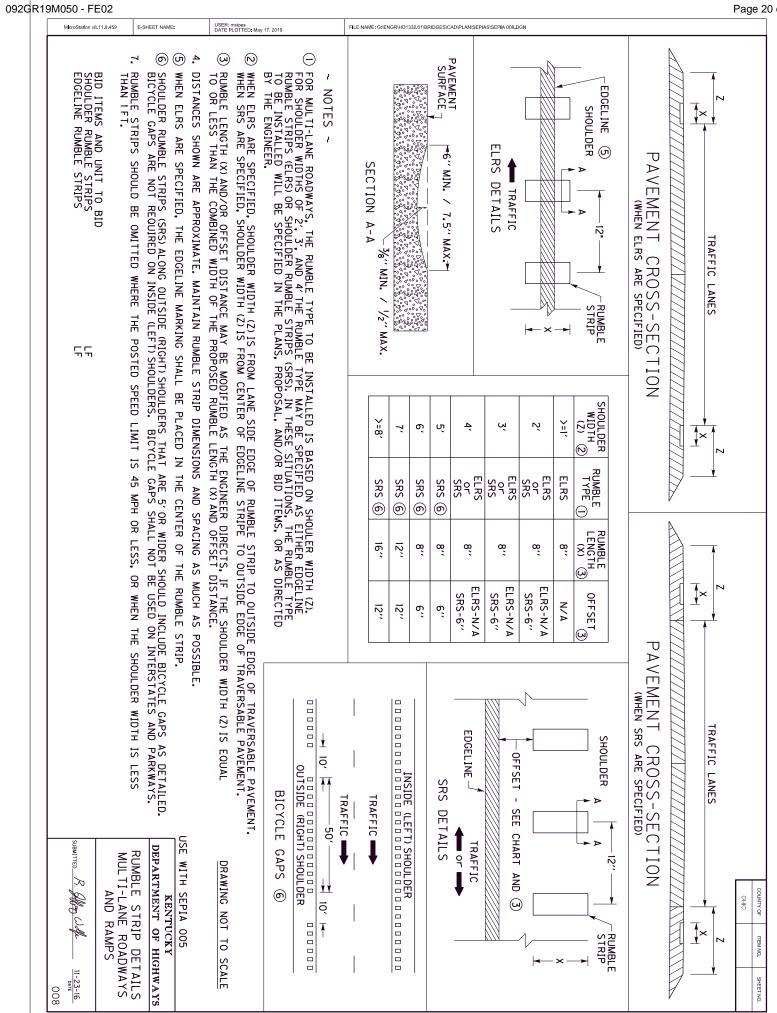
ITEM UNIT QUANTI 08301 REMOVE SUPERSTRUCTURE · 092800132L LS 1 08301 REMOVE SUPERSTRUCTURE · 092800132R LS 1 02569 DEMOBILIZATION LS 1 0		GENERAL SUMMARY		
08301 REMOVE SUPERSTRUCTURE - 092B00132R LS 1	ITEM NUMBER	ITEM	UNIT	QUANTITY
08301 REMOVE SUPERSTRUCTURE - 092B00132R LS 1				
02569 DEMOBILIZATION LS 1 Image: Constraint of the second of	08301	REMOVE SUPERSTRUCTURE - 092B00132R	LS	1
UCS09DEMUBILIZATIONC.S.1Image: Second S	02500			1
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		WKP - KY	9001		
		ОНІО СО	UNTY		
	BRID	GE OVER US	231 - REPAIR		
			28 TO 74.641		
		PAVING SU	MMARY		
	PAVING AREAS		PAVING A	REVC	
	ITEM	TOTAL	ITEM	INLAS	TOTAL
		TOTAL		_	TOTAL
MAINLINE (TRAVEL LANE 1 1/2" CL4 ASPH SUF		7,229			
•	E MILLING & TEXTURING	7,229			
1 1/2 //311//211//0		,,			
BRIDGE APPROACHES					
	00D PG76-22 (3 COURSE)	1,008			
4" DGA BASE		336			
SHOULDERS					
ASPHALT SEAL AGGF	-	729			
ASPHALT SEAL COAT		729			
					_
		PAVING SU			
ITEM NUMBER		ITEM		UNIT	QUANTITY
00001	DGA BASE	-	2	TON	200
00100	ASPHALT SEAL AGGREGAT	E	3	TON	15
00103	ASPHALT SEAL COAT LEVELING & WEDGING PG	76.00	(4) (1)	TON	2
00194	CL4 ASPH BASE 1.00D PG7	-	Ú	TON	75
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02677	ASPHALT PAVE MILLING 8			TON	596 596
20071EC	JOINT ADHESIVE			LF	3,332
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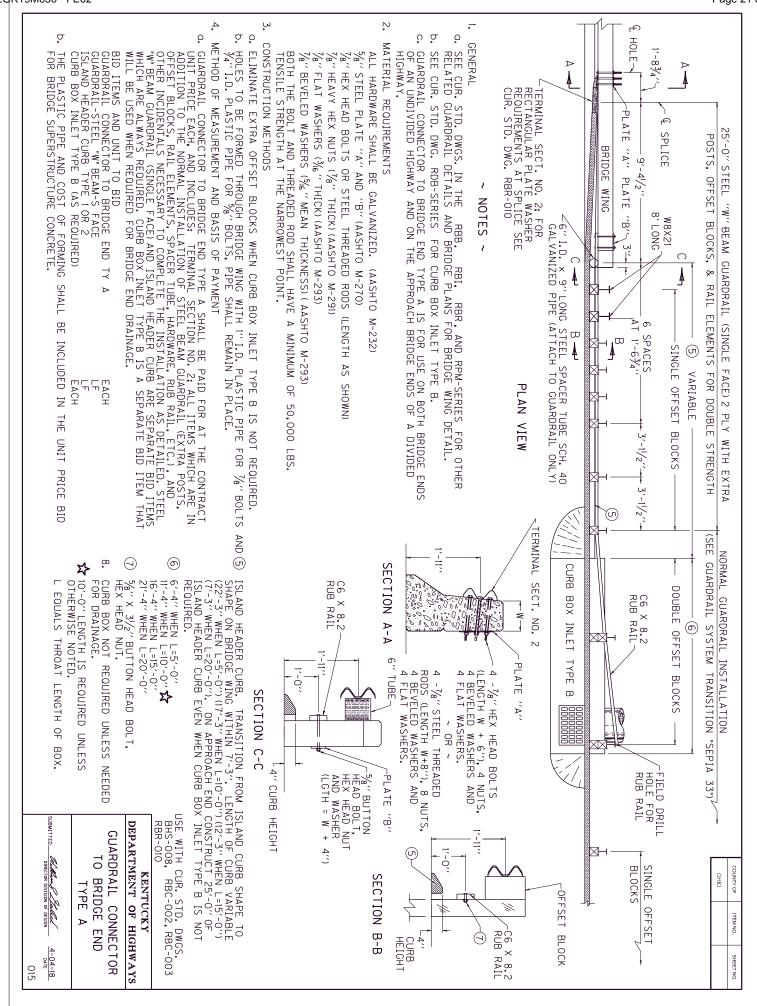
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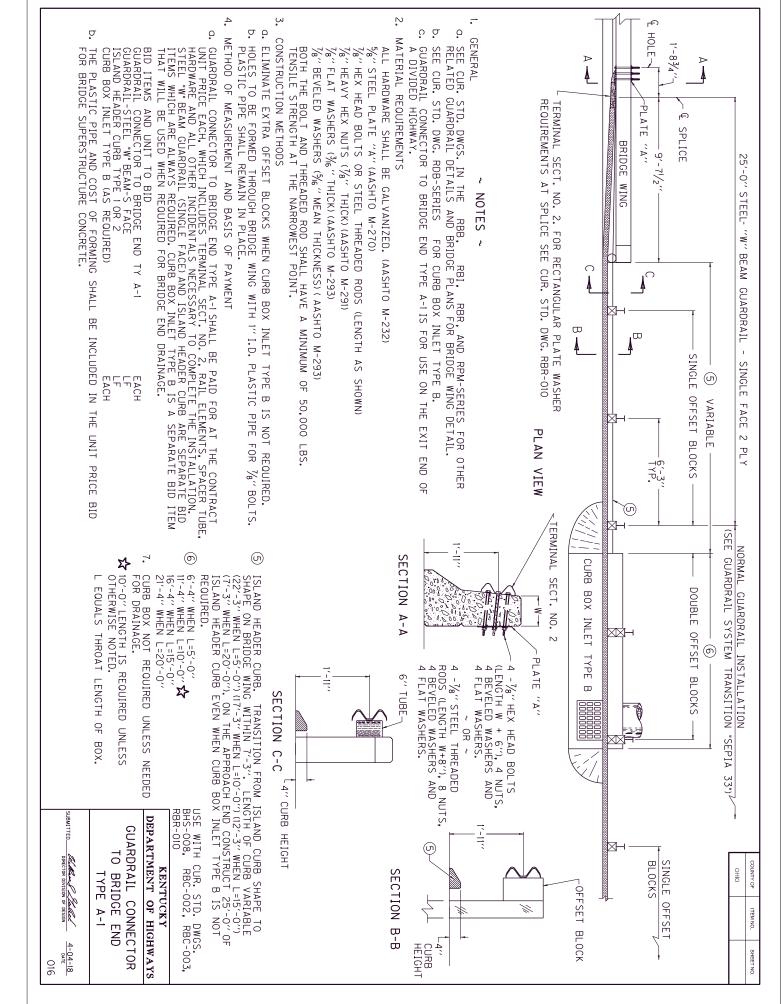
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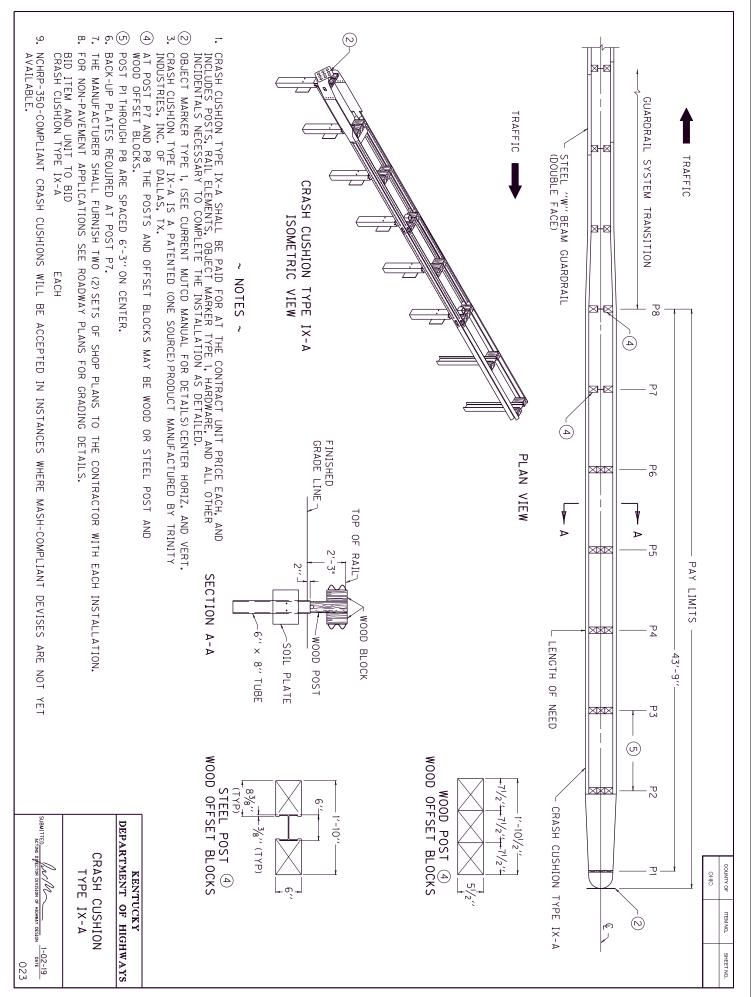


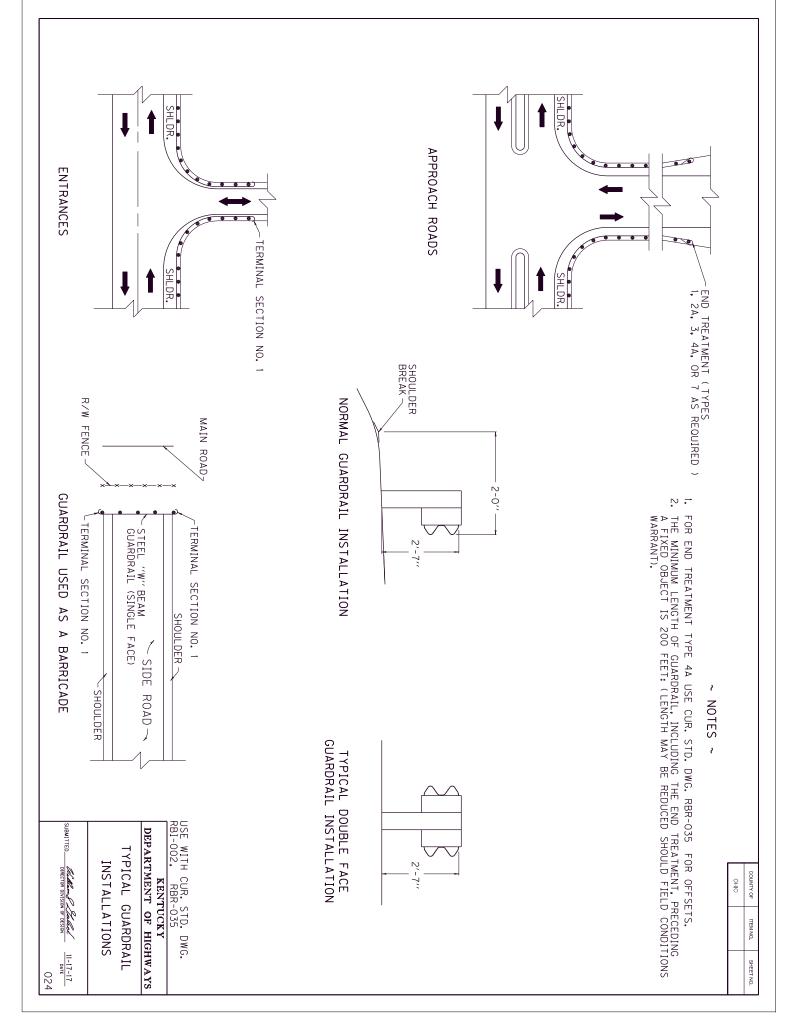
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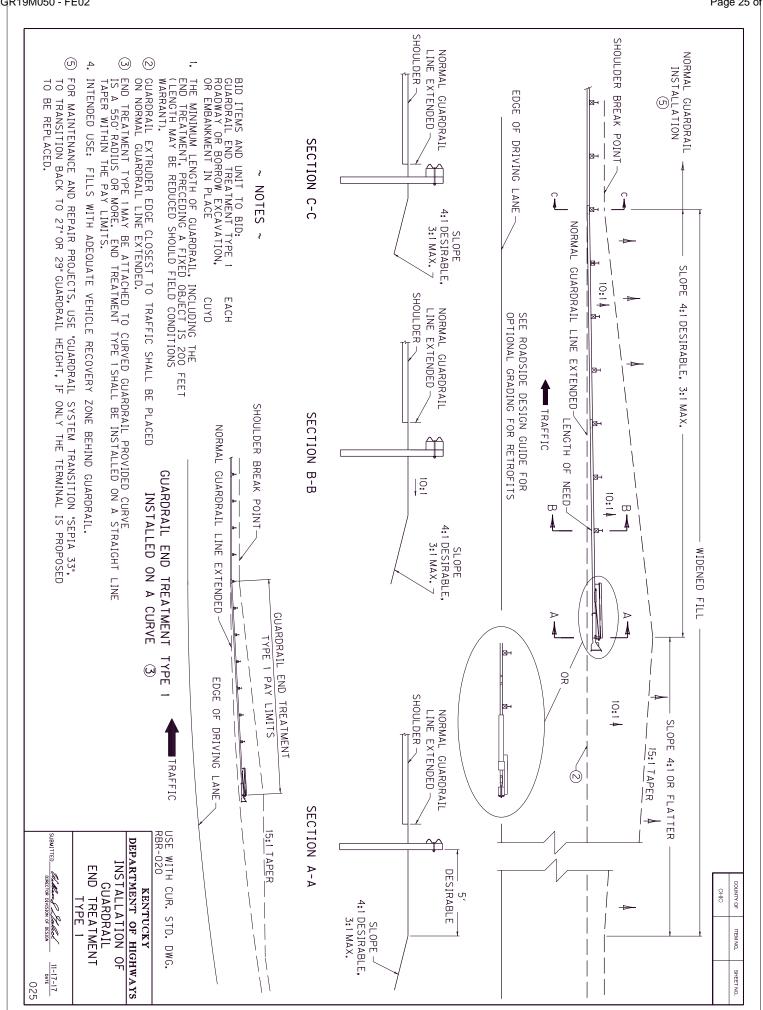




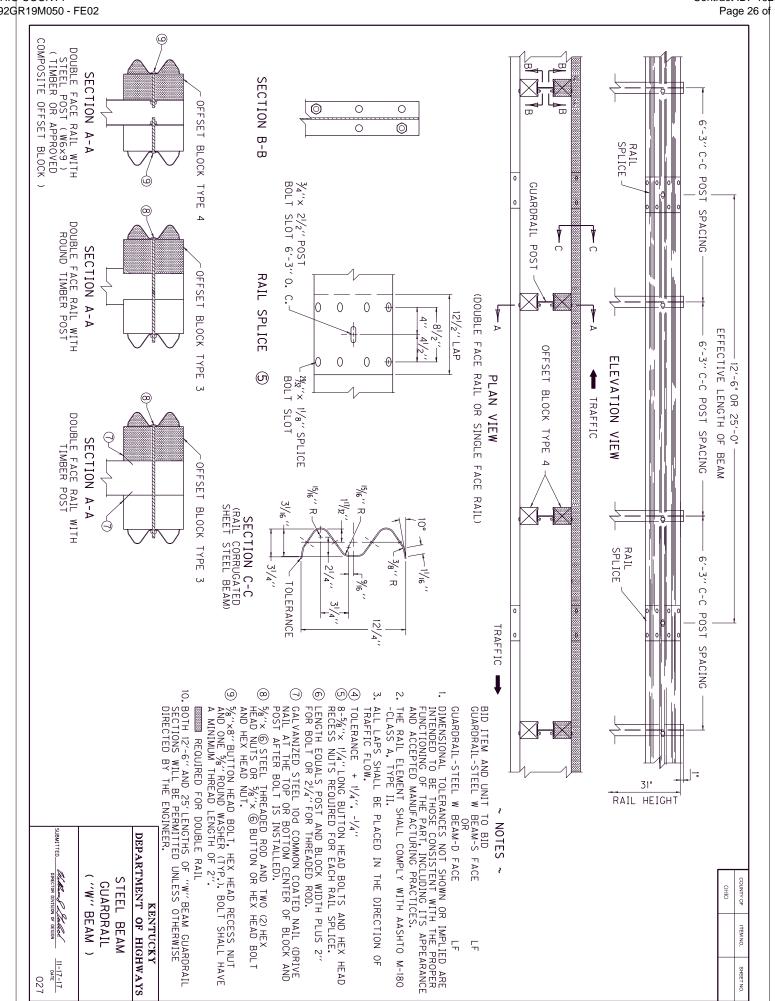
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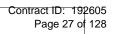


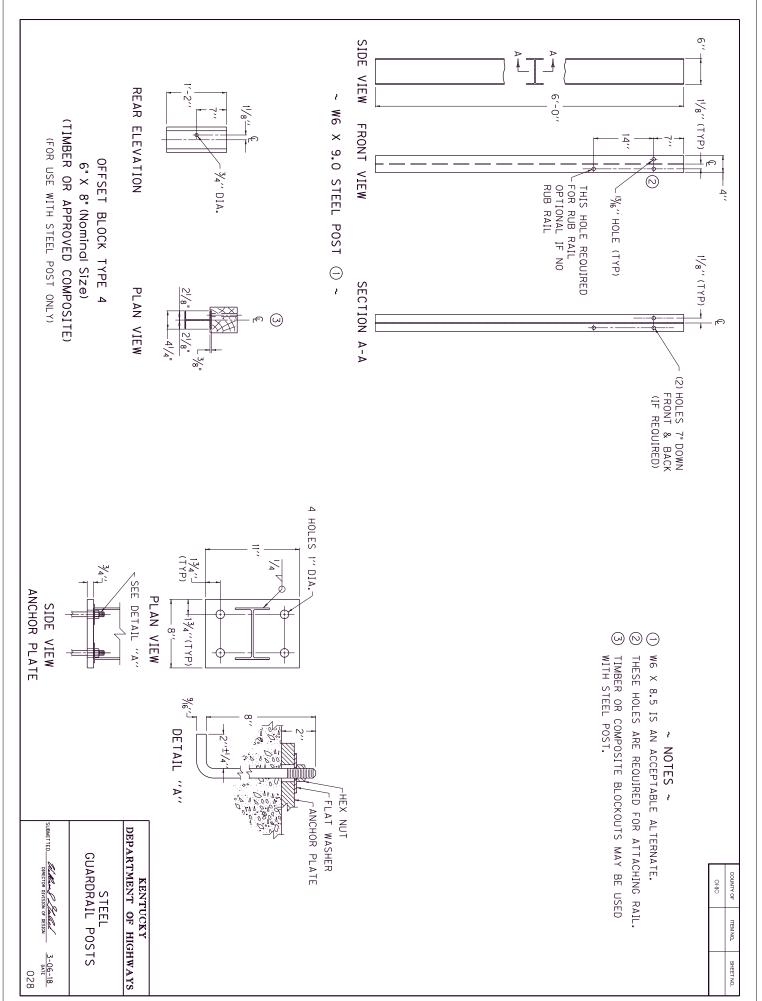


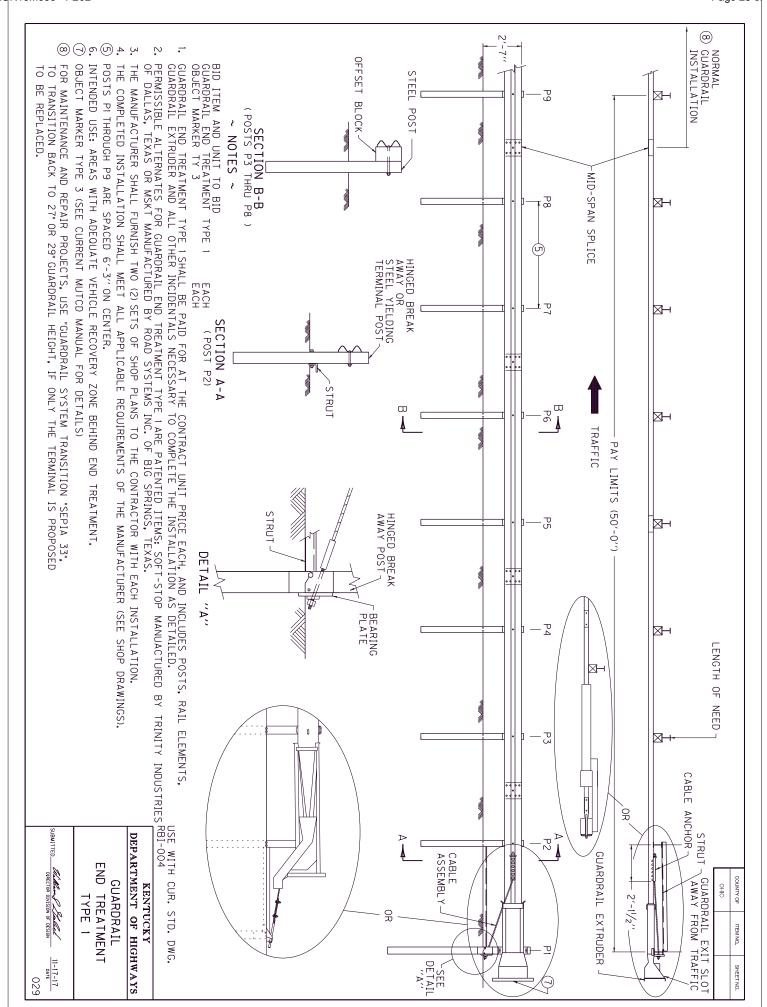


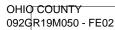
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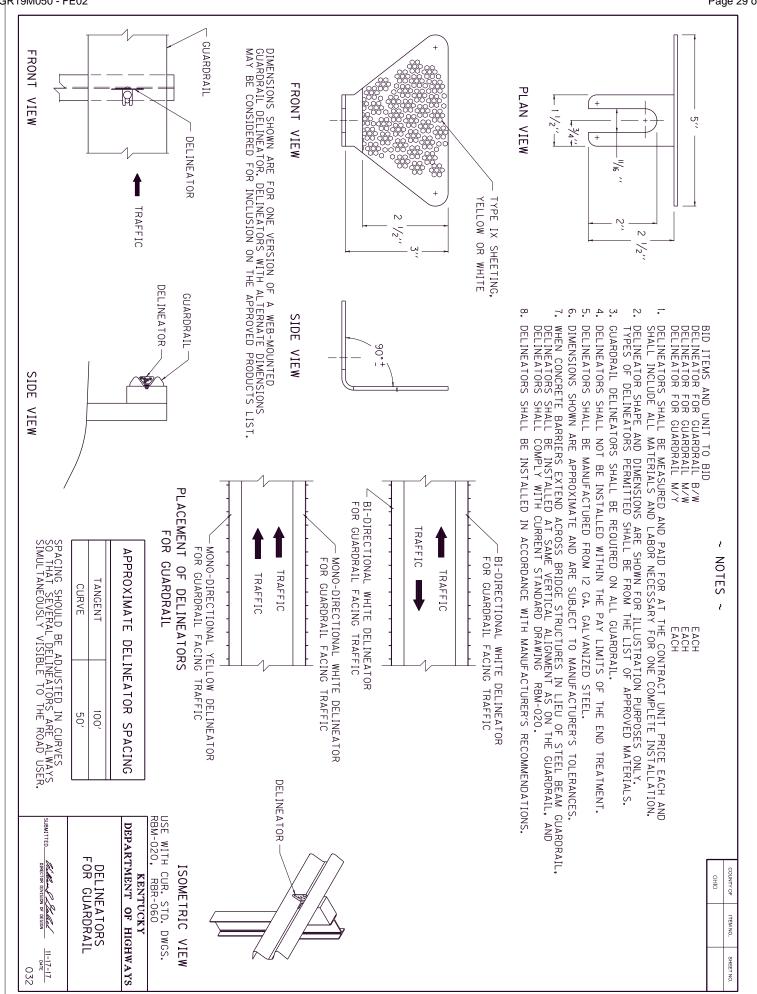


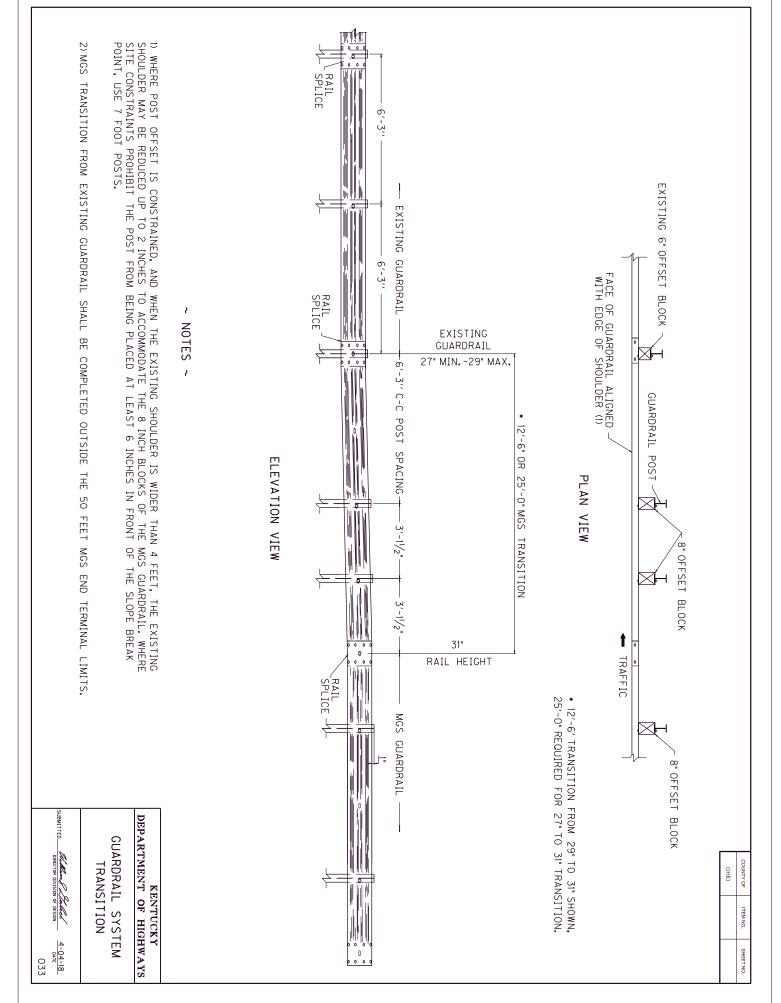


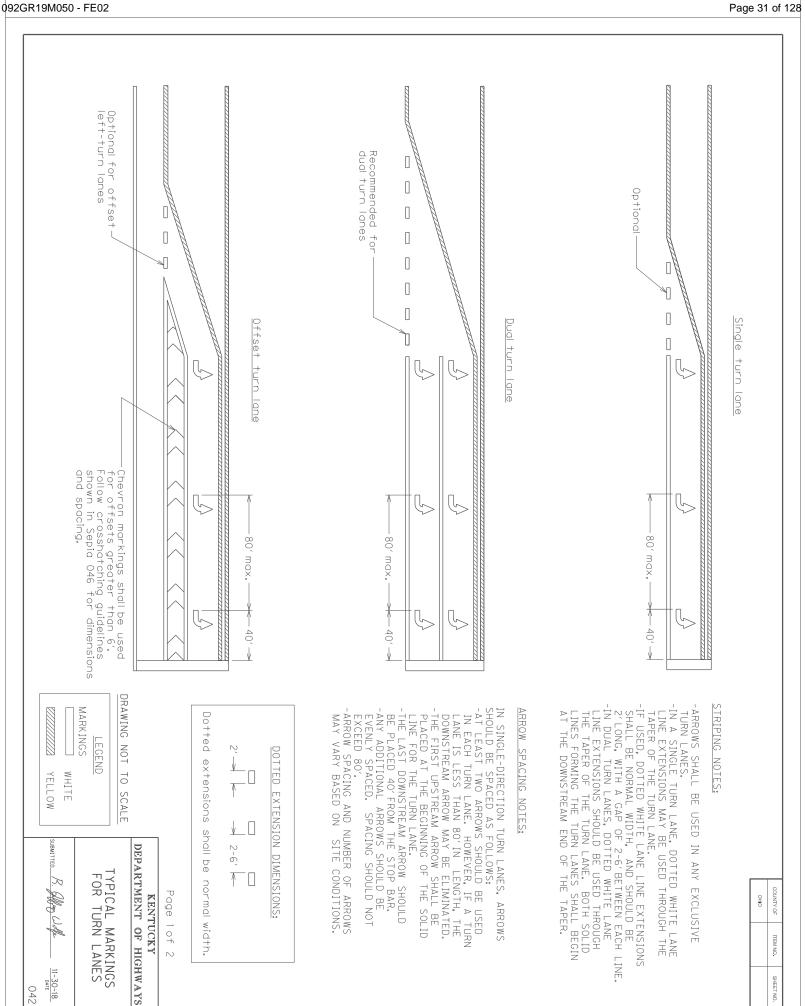






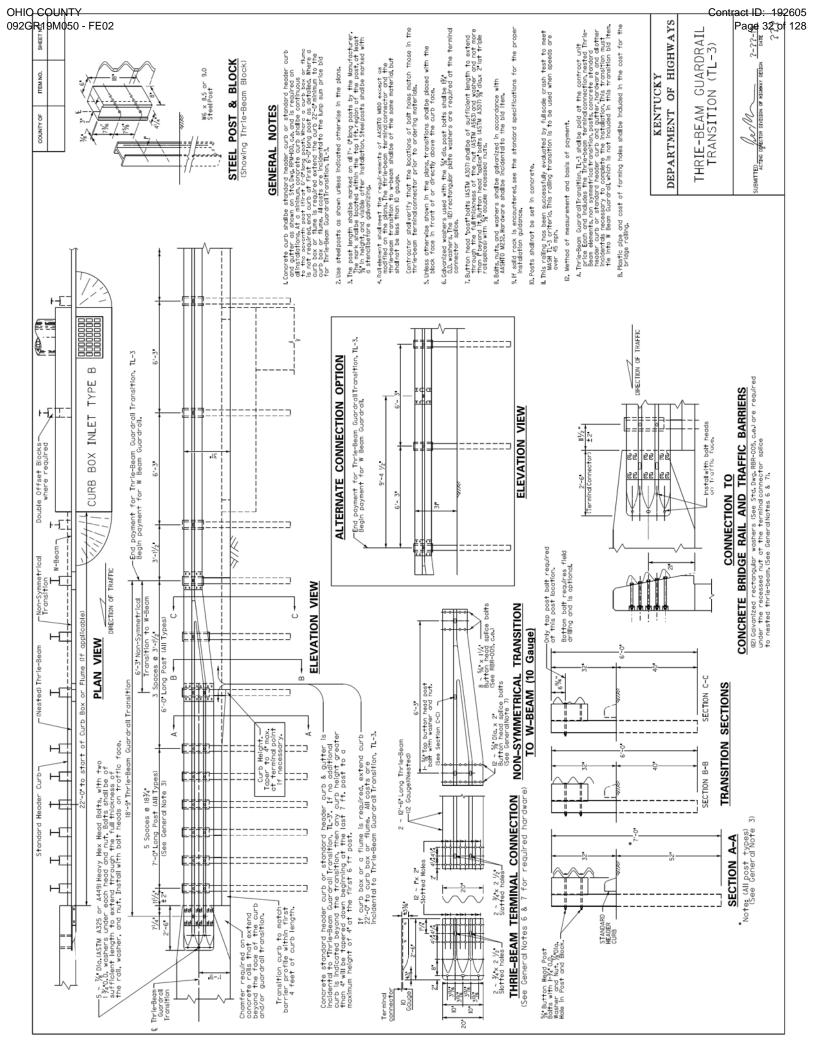






OHIO COUNTY

Contract ID: 192605



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-ofway 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". Mo 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 pavement 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

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.
- 2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
 - a) Keyboard or keypad.
 - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
 - c) Non-volatile memory or suitable memory with battery backup for storing 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/⇒⇒>/ /KEEP/LEFT/⇐⇐⇐/ /LOOSE/GRAVEL/AHEAD/ /RD WORK/NEXT/**MILES/ /TWO WAY/TRAFFIC/AHEAD/ /PAINT/CREW/AHEAD/ /REDUCE/SPEED/**MPH/ /BRIDGE/WORK/***0 FT/ /MAX/SPEED/**MPH/ /SURVEY/PARTY/AHEAD/

/MIN/SPEED/**MPH/ /ICY/BRIDGE/AHEAD/ /ONE LANE/BRIDGE/AHEAD/ /ROUGH/ROAD/AHEAD/ /MERGING/TRAFFIC/AHEAD/ /NEXT/***/MILES/ /HEAVY/TRAFFIC/AHEAD/ /SPEED/LIMIT/**MPH/ /BUMP/AHEAD/ /TWO/WAY/TRAFFIC/

*Insert numerals as directed by the Engineer.

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

2.3 Power.

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

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

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

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

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

4.0 MEASUREMENT. The final quantity of Variable Message Sign will be the actual number of individual signs acceptably furnished and operated during 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>	Pay Item	<u>Pay Unit</u>
02671	Portable Changeable Message Sign	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.

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.

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:

Unit

CodePay Item04933Temporary 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.

GUARDRAIL DELIVERY VERIFICATION SHEET

Contract Id:		Contractor:	
Section Engineer:		_ District & County:	
DESCRIPTION	<u>UNIT</u>	OTY LEAVING PROJECT	OTY RECEIVED@BB YARD
GUARDRAIL (Includes End treatments & crash cushions)	LF		
STEEL POSTS	EACH		
STEEL BLOCKS	EACH		
WOOD OFFSET BLOCKS	EACH		
BACK UP PLATES	EACH		
CRASH CUSHION	EACH		
NUTS, BOLTS, WASHERS	BAG/BCKT		
DAMAGED RAIL TO MAINT. FACILI	TY LF		
DAMAGED POSTS TO MAINT. FACI	LITY EACH		
* <u>Required Signatures before</u>	e Leaving Proje	<u>ct Site</u>	
Printed Section Engineer's Re	epresentative_		& Date
Signature Section Engineer's	Representativ	e	_& Date
Printed Contractor's Represe	entative		_& Date
Signature Contractor's Repre	esentative		_& Date
*Required Signatures after A	Arrival at Baile	y Bridge Yard (All material c	on truck must be counted & the
quantity received column co	mpleted befor	<u>e signatures)</u>	
Printed Bailey Bridge Yard Re	epresentative_		& Date
Signature Bailey Bridge Yard	Representative	2	& Date
Printed Contractor's Represe	entative		_& Date
Signature Contractor's Repre	esentative		_& Date

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

Completed Form Submitted to Section Engineer

Date: _____

Ву: _____

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			
Woight:	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:	25% of white values			

Inlaid Pavement Markers Page 2 of 4

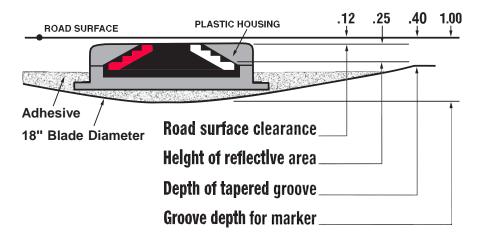
C. Adhesives. Use adhesives that conform to the manufacturer's recommendations.

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.

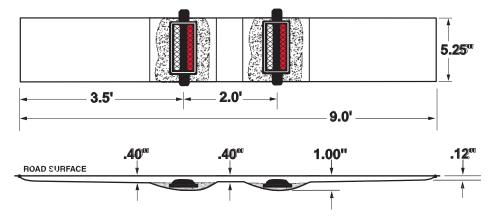
Prepare the pavement surfaces, and install the markers in the recessed groove according to the drawing below. Use an approved snowplowable epoxy adhesive. Ensure that the adhesive bed area is equal to the bottom area of the marker, and apply adhesive in sufficient quantity to force excess out around 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.



December 5, 2018

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 $\underline{3}$ 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 $\underline{3}$ -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.

December 5, 2018

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 $^{\circ}$ 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.

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

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

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

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

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Pavement Joint	Adhesive 1	Price Ad	justment	Schedul	e					
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				

<u>Code</u> 20071EC Pay Item Joint Adhesive

<u>Pay Unit</u> Linear 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	& 5 Off -								
6	On Horizontal								
Continue 2 off and 1 on pattern through rest of spray bar system.									

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

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

3. CONSTRUCTION.

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

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

3.3 Non-tracking Tack Certification. Furnish the tacks certification to the Engineer stating the material conforms to all requirements herein prior to use.

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

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

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

Code	Pay Item	Pay Unit
24970EC	Asphalt Material for Tack Non-Tracking	Ton

April 30, 2018



TRANSPORTATION CABINET

COMMONWEALTH OF KENTUCKY

Greg Thomas Secretary

Governor Governor

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

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: 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

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

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



MRS, Inc. Analytical Laboratory Division

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

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

Governor Matthew G. Bevin

Asbestos Inspection Report

Date: May 22, 2019 District: Central Office To: Andre Johannes

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. (<u>DEP7036 Form</u>) 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

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

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Frankfort, Kentucky 40622

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COMMONWEALTH OF KENTUCKY

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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

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

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



MRS, Inc. Analytical Laboratory Division

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

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		O'Dail Lawson KYTC Address: 200 Mero Street Frankfort Phone: 502-564-7250 PO#:	Sample ID Sample Description 132-1 Jeint Concern 132-3 Gu and Arit (132-3 Gu and Arit Relinquished By: Received By: Received at Lab By:	

OHIO COUNTY 092GR19M050 - FE02 Contract ID: 192605

Page 84 of 128



www.transportation.ky.gov/

Frankfort, Kentucky 40622

TANIBAD NOITATAO920A57

COMMONWEALTH OF KENTUCKY

Greg Thomas Secretary

Governor 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: 092B00133L

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

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

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



Μβς, Inc. Απαίγτίσαι Laboratory Division

TTTZ-16# (205) :xe3 2TZT-56# (205) 332 West Broadway / Suite # 902 Louisville, Kentucky - 40202 - 2133

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BULK SAMPLE ASBESTOS ANALYSIS

Analysis h ## 905165 DAddress:Ohio 092800133LClient Name:K Y T CSampled By:O'Dail Lawson

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Methodology : EPA Method 600/R-93-116

Winterford Mensah

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

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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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www.transportation.ky.gov/

Frankfort, Kentucky 40622

TANASPORTATION CABINET

COMMONWEALTH OF KENTUCKY

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Governor 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: 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%. <u>No abatement is required at this time</u>.

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



MRS, Inc. Analytical Laboratory Division

TTTZ-T6# (205) :XP3 2121-567 (205)

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

KYIN.

BULK SAMPLE ASBESTOS ANALYSIS

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Reviewed By:

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

654201 # AHIA

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Chain of Custody Record Kentucky Transportation Cabinet

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

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KYTC COC	Page 90

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Contract ID: 192605 Page 91 of 128

CONTRACT 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
0065	08526	CONC CLASS M FULL DEPTH PATCH	2.80	CUYD
0070	08549	BLAST CLEANING	1,247.00	SQYD
0080	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
0100	02562	TEMPORARY SIGNS - (ADDED: 6-17-2019)	149.00	SQFT
0105	02003	RELOCATE TEMP CONC BARRIER - (ADDED: 6-17-2019)	380.00	LF
0110	02671	PORTABLE CHANGEABLE MESSAGE SIGN - (ADDED: 6-17-2019)	1.00	EACH
0115	02775	ARROW PANEL - (ADDED: 6-17-2019)	1.00	EACH
0120	03171	CONCRETE BARRIER WALL TYPE 9T - (ADDED: 6-17-2019)	400.00	LF
0125	06549	PAVE STRIPING-TEMP REM TAPE-B - (ADDED: 6-17-2019)	780.00	LF
0130	08150	STEEL REINFORCEMENT - (ADDED: 6-17-2019) PAVE STRIPING-TEMP REM TAPE-W - (ADDED:	300.00	LB
0135	06550	6-17-2019)	6,070.00	LF
0140	06551	PAVE STRIPING-TEMP REM TAPE-Y - (ADDED: 6-17-2019)	4,600.00	LF
0145	08903	CRASH CUSHION TY VI CLASS BT TL3 - (ADDED: 6-17-2019)	1.00	EACH
0150	02898	RELOCATE CRASH CUSHION - (ADDED: 6-17-2019)	1.00	EACH
0155	01984	DELINEATOR FOR BARRIER - WHITE - (ADDED: 6-17-2019)	33.00	EACH
0160	01985	DELINEATOR FOR BARRIER - YELLOW - (ADDED: 6-17-2019)	32.00	EACH
0165	02014	BARRICADE-TYPE III - (ADDED: 6-17-2019)	1.00	EACH
0170	20099ES842	PAVE MARK TEMP PAINT STOP BAR - (ADDED: 6-17-2019)	80.00	LF
0175	02676	MOBILIZATION FOR MILL & TEXT - (B000072L) (ADDED: 6-17-2019)	1.00	LS

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0180		ASPHALT PAVE MILLING & TEXTURING - (ADDED: 6-17-2019)	209.00	TON
0185	00219	CL4 ASPH BASE 1.00D PG76-22 - (ADDED: 6-17-2019)	209.00	TON
0190	02696	SHOULDER RUMBLE STRIPS - (ADDED: 6-17-2019)	500.00	LF
0195		ASPHALT MATERIAL FOR TACK NON-TRACKING - (ADDED: 6-17-2019)	.30	TON

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
0200	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	2.00	EACH
0205	02372	REMOVE GUARDRAIL CON TO BR END	3.00	EACH
0210	02387	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	1.00	EACH
0215	02998	MASONRY COATING	260.00	SQYD
0220	03294	EXPAN JOINT REPLACE 1 1/2 IN	85.00	LF
0225	03299	ARMORED EDGE FOR CONCRETE	85.00	LF
0230	06556	PAVE STRIPING-DUR TY 1-6 IN W	312.50	LF
0235	06557	PAVE STRIPING-DUR TY 1-6 IN Y	250.00	LF
0240	08504	EPOXY SAND SLURRY	100.00	SQYD
0250	08526	CONC CLASS M FULL DEPTH PATCH	5.60	CUYD
0255	08549	BLAST CLEANING	1,247.00	SQYD
0265	23032EN	BRIDGE BARRIER RETROFIT	542.00	LF
0270	23331EC	EPOXY-URETHANE WATERPROOFING	10,322.00	SQFT
0275	23949EC	BRIDGE CLEANING & PREVENTIVE MAINTENANCE - APPLIES TO 092B00072R	1.00	LS
0280	24094EC	PARTIAL DEPTH PATCHING	1.90	CUYD
0285	02569	DEMOBILIZATION	1.00	LS
0290	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO 092B00072R	1.00	LS
0295	02562	TEMPORARY SIGNS - (ADDED: 6-17-2019)	149.00	SQFT
0300	02003	RELOCATE TEMP CONC BARRIER - (ADDED: 6-17-2019)	380.00	LF
0305	02671	PORTABLE CHANGEABLE MESSAGE SIGN - (ADDED: 6-17-2019)	1.00	EACH
0310	02775	ARROW PANEL - (ADDED: 6-17-2019)	1.00	EACH
0315	03171	CONCRETE BARRIER WALL TYPE 9T - (ADDED: 6-17-2019)	400.00	LF
0320	06549	PAVE STRIPING-TEMP REM TAPE-B - (ADDED: 6-17-2019)	780.00	LF
0325	08150	STEEL REINFORCEMENT - (ADDED: 6-17-2019)	300.00	LB
0330	06550	PAVE STRIPING-TEMP REM TAPE-W - (ADDED: 6-17-2019)	6,070.00	LF
0335	06551	PAVE STRIPING-TEMP REM TAPE-Y - (ADDED: 6-17-2019)	4,600.00	LF
0340	08903	CRASH CUSHION TY VI CLASS BT TL3 - (ADDED: 6-17-2019)	1.00	EACH
0345	02898	RELOCATE CRASH CUSHION - (ADDED: 6-17-2019)	1.00	EACH

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0350	01984	DELINEATOR FOR BARRIER - WHITE - (ADDED: 6-17-2019)	33.00	EACH
0355	01985	DELINEATOR FOR BARRIER - YELLOW - (ADDED: 6-17-2019)	32.00	EACH
0360	02014	BARRICADE-TYPE III - (ADDED: 6-17-2019)	1.00	EACH
0365	20099ES842	PAVE MARK TEMP PAINT STOP BAR - (ADDED: 6-17-2019)	80.00	LF
0370		MOBILIZATION FOR MILL & TEXT - (B00072R) (ADDED: 6-17-2019)	1.00	LS
0375		ASPHALT PAVE MILLING & TEXTURING - (ADDED: 6-17-2019)	209.00	TON
0380	00219	CL4 ASPH BASE 1.00D PG76-22 - (ADDED: 6-17-2019)	209.00	TON
0385	02696	SHOULDER RUMBLE STRIPS - (ADDED: 6-17-2019)	500.00	LF
0390		ASPHALT MATERIAL FOR TACK NON-TRACKING - (ADDED: 6-17-2019)	.30	TON

CONTRACT ID: 192605

092GR19M050 - FE02

MB09290011905

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

Project ∟ine No	Bid Code	DESCRIPTION	Quantity	Unit
0395	03299	ARMORED EDGE FOR CONCRETE	86.00	LF
0400	06556	PAVE STRIPING-DUR TY 1-6 IN W	150.00	LF
0405	06557	PAVE STRIPING-DUR TY 1-6 IN Y	120.00	LF
0410	08504	EPOXY SAND SLURRY	58.00	SQYD
0415	08510	REM EPOXY BIT FOREIGN OVERLAY - (REVISED: 6-19-19)	490.00	SQYD
0420	08526	CONC CLASS M FULL DEPTH PATCH	3.80	CUYD
0425	08549	BLAST CLEANING	548.00	SQYD
0435	24094EC	PARTIAL DEPTH PATCHING	.80	CUYD
0440	02569	DEMOBILIZATION	1.00	LS
0445	03293	EXPAN JOINT REPLACE 1 IN	86.00	LF
0450	08534	CONCRETE OVERLAY-LATEX	20.40	CUYD
0455	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE 092B000130L	1.00	LS
0460	02562	TEMPORARY SIGNS - (ADDED: 6-17-2019)	149.00	SQFT
0465	02003	RELOCATE TEMP CONC BARRIER - (ADDED: 6-17-2019)	480.00	LF
0470	02671	PORTABLE CHANGEABLE MESSAGE SIGN - (ADDED: 6-17-2019)	1.00	EACH
0475	02775	ARROW PANEL - (ADDED: 6-17-2019)	1.00	EACH
0480	03171	CONCRETE BARRIER WALL TYPE 9T - (ADDED: 6-17-2019)	480.00	LF
0485	06549	PAVE STRIPING-TEMP REM TAPE-B - (ADDED: 6-17-2019)	2,280.00	LF
0490	08150	STEEL REINFORCEMENT - (ADDED: 6-17-2019)	300.00	LB
0495	06550	PAVE STRIPING-TEMP REM TAPE-W - (ADDED: 6-17-2019)	3,240.00	LF
0500	06551	PAVE STRIPING-TEMP REM TAPE-Y - (ADDED: 6-17-2019)	3,365.00	LF
0505	08903	CRASH CUSHION TY VI CLASS BT TL3 - (ADDED: 6-17-2019)	1.00	EACH
0510	02898	RELOCATE CRASH CUSHION - (ADDED: 6-17-2019)	1.00	EACH
0515	01984	DELINEATOR FOR BARRIER - WHITE - (ADDED: 6-17-2019)	33.00	EACH
0520	01985	DELINEATOR FOR BARRIER - YELLOW - (ADDED: 6-17-2019)	33.00	EACH
0525	02014	BARRICADE-TYPE III - (ADDED: 6-17-2019)	1.00	EACH
0530	02676	MOBILIZATION FOR MILL & TEXT - (B00130L) (ADDED: 6-17-2019)	1.00	LS
0535	02677	ASPHALT PAVE MILLING & TEXTURING - (ADDED: 6-17-2019)	505.00	TON
0540	00219	CL4 ASPH BASE 1.00D PG76-22 - (ADDED: 6-17-2019)	505.00	TON
0545	02696	SHOULDER RUMBLE STRIPS - (ADDED: 6-17-2019)	1,500.00	LF
0550	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING - (ADDED: 6-17-2019)	.60	TON

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
		MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE		
0555		092B000130R	1.00	LS
0560		EXPAN JOINT REPLACE 1 IN	86.00	LF
0565	03299	ARMORED EDGE FOR CONCRETE	86.00	LF
0570		PAVE STRIPING-DUR TY 1-6 IN W	150.00	LF
0575	06557	PAVE STRIPING-DUR TY 1-6 IN Y	120.00	LF
0580	08504	EPOXY SAND SLURRY	58.00	SQYE
0585	08510	REM EPOXY BIT FOREIGN OVERLAY - (REVISED: 6-19-19)	490.00	SQYE
0590	08526	CONC CLASS M FULL DEPTH PATCH	4.40	CUY
0595	08534	CONCRETE OVERLAY-LATEX	20.40	CUYI
0600	08549	BLAST CLEANING	548.00	SQYI
0610	24094EC	PARTIAL DEPTH PATCHING	.80	CUYI
0615	02569	DEMOBILIZATION	1.00	LS
0620	02562	TEMPORARY SIGNS - (ADDED: 6-17-2019)	149.00	SQF
0625	02003	RELOCATE TEMP CONC BARRIER - (ADDED: 6-17-2019)	480.00	LF
0630	02671	PORTABLE CHANGEABLE MESSAGE SIGN - (ADDED: 6-17-2019)	1.00	EACI
0635	02775	ARROW PANEL - (ADDED: 6-17-2019)	1.00	EAC
0640	03171	CONCRETE BARRIER WALL TYPE 9T - (ADDED: 6-17-2019)	480.00	LF
0645	06549	PAVE STRIPING-TEMP REM TAPE-B - (ADDED: 6-17-2019)	2,280.00	LF
0650	08150	STEEL REINFORCEMENT - (ADDED: 6-17-2019)	300.00	LB
0655	06550	PAVE STRIPING-TEMP REM TAPE-W - (ADDED: 6-17-2019)	3,240.00	LF
0660	06551	PAVE STRIPING-TEMP REM TAPE-Y - (ADDED: 6-17-2019)	3,365.00	LF
0665	08903	CRASH CUSHION TY VI CLASS BT TL3 - (ADDED: 6-17-2019)	1.00	EAC
0670	02898	RELOCATE CRASH CUSHION - (ADDED: 6-17-2019)	1.00	EAC
0675	01984	DELINEATOR FOR BARRIER - WHITE - (ADDED: 6-17-2019)	33.00	EAC
0680	01985	DELINEATOR FOR BARRIER - YELLOW - (ADDED: 6-17-2019)	33.00	EAC
0685	02014	BARRICADE-TYPE III - (ADDED: 6-17-2019)	1.00	EAC
0690	02676	MOBILIZATION FOR MILL & TEXT - (B00130R) (ADDED: 6-17-2019)	1.00	LS
0695	02677	ASPHALT PAVE MILLING & TEXTURING - (ADDED: 6-17-2019)	505.00	TON
0700	00219	CL4 ASPH BASE 1.00D PG76-22 - (ADDED: 6-17-2019)	505.00	TON
0705	02696	SHOULDER RUMBLE STRIPS - (ADDED: 6-17-2019)	1,500.00	LF
0710	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING - (ADDED: 6-17-2019)	.60	TON

CONTRACT ID: 192605

092GR19M050 - FE02

MB09290011907

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

MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE 1.0 LS 0715 02650 092800132L 1.00 LS 0722 02569 DEMOBILIZATION 1.01 LF 0733 08100 CONCRETE-CLASS A 93.50 CUYD 0740 08104 CONCRETE-CLASS A 93.50 CUYD 0744 08105 STEEL REINFORCEMENT 15.469.50 LB 0750 08002 CRUSHED AGGREGATE SLOPE PROT 130.50 TON 0755 02231 STRUCTURE GRANULAR BACKFILL 102.00 CUYD 0766 08009 PRECAST PC BOX BEAM SB21 507.25 LF 0777 25028ED RAIL SYSTEM SINGLE SLOPE - 40 IN 229.00 LF 0776 02403 REMOVE CONCRETE MASORRY 67.00 CUYD 0780 00010 ASPHALT SEAL AGGREGATE 7.50 TON 0795 0103 ASPHALT SEAL COAT 1.00 TON 0780 00103 ASPHALT SEAL COAT 1.00 TON 0795 00194 LEVELING & MEDGING PC76-22 29.80.0 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING <td< th=""><th>Project Line No</th><th>Bid Code</th><th>DESCRIPTION</th><th>Quantity</th><th>Unit</th></td<>	Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0725 02569 DEMOBILIZATION 1.00 LS 0730 08100 CONCRETE-CLASS A 93.50 CUYD 0735 08104 CONCRETE-CLASS A 169.00 CUYD 0740 08150 STEEL REINFORCEMENT 15,656.00 LB 0745 08150 STEEL REINFORCEMENT-EPOXY COATED 51,489.50 LB 0756 08020 CRUSHED AGGREGATE SLOPE PROT 130.50 TON 0756 02231 STRUCTURE GRANULAR BACKFILL 102.00 CUYD 0760 02998 MASONRY COATING 739.50 SQVD 0776 02403 REMOVE CONCRETE MASONRY 67.00 CUYD 0776 02403 REMOVE CONCRETE MASONRY 67.00 CUYD 0776 00100 ASPHALT SEAL AGGREGATE 7.50 TON 07790 00103 ASPHALT SEAL COAT 1.00 TON 0795 00194 LEVELING & WEDGING PG76-22 110.00 TON 0806 00235 CL4 ASPH SURF 0.50A PG76-22 110.00 TON 0806 00235 CL4 ASPH BASE 1.00D PG76-22 10.00 TON 0810 0277 ASPHALT PAVE M	0715	02650		1.00	LS
0730 08100 CONCRETE-CLASS A 93.50 CUYD 0735 08104 CONCRETE-CLASS AA 166.00 CUYD 0740 08150 STEEL REINFORCEMENT 15,650.0 LB 0745 08151 STEEL REINFORCEMENT-EPOXY COATED 51,489.50 LB 0750 08020 CRUSHED AGGREGATE SLOPE PROT 130.50 TON 0755 02231 STRUCTURE GRANULAR BACKFILL 102.00 CUYD 0760 02998 MASONRY COATING 739.50 SQYD 0776 0260860 PRECAST PC BOX BEAM SB21 507.25 LF 0777 25028ED RAIL SYSTEM SINGLE SLOPE -40 IN 2259.00 LYD 0780 00001 DGA BASE 100.00 TON 0780 00001 DGA BASE 1000 PG76-22 37.50 TON 0790 0103 ASPHALT SEAL GOAT 1.00 TON TON 0795 00194 LEVELING & WEDGING PG76-22 2110.00 TON 0810 02877 ASPHALT PAVE MILLING & TEXTURING 298.00 TON	0720	03299	ARMORED EDGE FOR CONCRETE	77.80	LF
0735 08104 CONCRETE-CLASS AA 169.00 CUYD 0740 08150 STEEL REINFORCEMENT 15.656.00 LB 0745 08151 STEEL REINFORCEMENT-EPOXY COATED 51.489.50 LB 0755 02231 STRUCTURE GRANULAR BACKFILL 102.00 CUYD 0760 02998 MASONRY COATING 739.50 SQYD 0775 02231 STRUCTURE GRANULAR BACKFILL 102.00 CUYD 0760 02998 MASONRY COATING 739.50 SQYD 0775 02403 REMOVE CONCRETE MASONRY 67.00 CUYD 0776 02403 REMOVE CONCRETE MASONRY 67.00 CUYD 0780 00010 DSPHALT SEAL COAT 10.00 TON 0785 00100 ASPHALT SEAL COAT 10.00 TON 0795 01941 LEVELING & WEDGING PG76-22 210.00 TON 0800 00219 CL4 ASPH BASE 1.00D PG76-22 298.00 TON 0815 20071EC JOINT ADHESIVE T	0725	02569	DEMOBILIZATION	1.00	LS
0740 08150 STEEL REINFORCEMENT 15,656.00 LB 0745 08151 STEEL REINFORCEMENT-EPOXY COATED 51,489.50 LB 0750 08020 CRUSHED AGGREGATE SLOPE PROT 130.50 TON 0766 02998 MASONRY COATING 739.50 SQYD 0766 02698 MASONRY COATING 739.50 SQYD 0767 02602ED RAIL SYSTEM SINGLE SLOPE - 40 IN 2550.00 LF 0775 02403 REMOVE CONCRETE MASONRY 67.00 CUYD 0780 00001 DAS ASE 100.00 TON 0780 00010 ASPHALT SEAL AGGREGATE 7.50 TON 0780 00013 SCL4 ASPH BASE 1.00D PG76-22 298.00 TON 0800 00219 CL4 ASPH BASE 1.00D PG76-22 298.00 TON 0810 02677 ASPHALT MATERIAL FOR TACK NON-TRACKING 1.00 TON 0810 02677 ASPHALT MATERIAL FOR TACK NON-TRACKING 1.00 TON 0820 19982 DHELINEATOR FOR GU	0730	08100	CONCRETE-CLASS A	93.50	CUYD
0745 08151 STEEL REINFORCEMENT-EPOXY COATED 51,489.50 LB 0750 08020 CRUSHED AGGREGATE SLOPE PROT 130.50 TON 0755 02231 STRUCTURE GRANULAR BACKFILL 100.20 CUYD 0766 08669 PRECAST PC BOX BEAM SB21 507.25 LF 0770 25028ED RAIL SYSTEM SINGLE SLOPE - 40 IN 250.900 LF 0775 02403 REMOVE CONCRETE MASONRY 67.00 CUYD 0780 00001 DGA BASE 100.00 TON 07780 00101 ASPHALT SEAL AGGREGATE 7.50 TON 0790 00103 ASPHALT SEAL COAT 1.00 TON 0795 00194 LEVELING & WEDGING PG76-22 298.00 TON 0800 00219 CL4 ASPH BASE 1.00D PG76-22 298.00 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING 298.00 TON 0812 20071EC JOINT ADHESIVE 1.666.00 LF 0825 01982 WHITE FOR GUARDRAIL MONO DIRECTIONAL TON 0825 01982 WHITE FOR GUARDRAIL MONO DIRECTIONAL TON	0735	08104	CONCRETE-CLASS AA	169.00	CUYD
0750 08020 CRUSHED AGGREGATE SLOPE PROT 130.50 TON 0755 02231 STRUCTURE GRANULAR BACKFILL 102.00 CUYO 0760 02998 MASONRY COATING 739.50 SQYD 0760 02898 MASONRY COATING 739.50 SQYD 0760 02808 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 CUYO 0786 00100 ASPHALT SEAL AGGREGATE 7.50 TON 0790 00133 ASPHALT SEAL COAT 1.00 TON 0790 00141 LEVELING & WEDGING PG76-22 210.00 TON 0805 00335 CL4 ASPH BASE 1.00D PG76-22 298.00 TON 0815 20071EC JOINT ADHESIVE 1.666.00 LF 0820 24970EC ASPHALT MATERIAL FOR TACK NON-TRACKING 1.50 TON 0825 01982 WHITE 7.00 EACH 0835 02351 GUARDRAIL STEEL W BEAM-S FACE 337.50 LF 0845	0740	08150	STEEL REINFORCEMENT	15,656.00	LB
0755 02231 STRUCTURE GRANULAR BACKFILL 102.00 CUYD 0760 02998 MASONRY COATING 739.50 SQYD 0765 08669 PRECAST PC BOX BEAM SB21 507.25 LF 0770 025028ED RAIL SYSTEM SINGLE SLOPE - 40 IN 259.00 LF 0775 02403 REMOVE CONCRETE MASONRY 67.00 CUYD 0780 00010 DASPHALT SEAL AGGREGATE 7.50 TON 0795 00103 SPHALT SEAL COAT 1.00 TON 0795 00194 LEVELING & WEDGING PG76-22 298.00 TON 0800 00219 CL4 ASPH BASE 1.00D PG76-22 298.00 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING 298.00 TON 0815 20071EC JOINT ADHESIVE 1.666.00 LF 0825 01982 WHITE CACK NON-TRACKING 1.50 TON 0825 01982 WHITE FOR GUARDRAIL MON DIRECTIONAL TON DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL CACH<	0745	08151	STEEL REINFORCEMENT-EPOXY COATED	51,489.50	LB
0760 02998 MASONRY COATING 739.50 SQYD 0765 08669 PRECAST PC BOX BEAM SB21 507.25 LF 0770 25028ED RAIL SYSTEM SINGLE SLOPE - 40 IN 250.00 LF 0775 02403 REMOVE CONCRETE MASONRY 67.00 CUYD 0780 00001 DGA BASE 100.00 TON 0785 00100 ASPHALT SEAL AGGREGATE 7.50 TON 0790 00133 SPHALT SEAL AGGREGATE 1.00 TON 0795 00144 LEVELING & WEDGING PG76-22 37.50 TON 0800 00219 CL4 ASPH BASE 1.00D PG76-22 298.00 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING 298.00 TON 0815 20071EC JOINT ADHESIVE 1.666.00 LF 0820 24970EC ASPHALT TAVE MILLING & TEXTURING 298.00 TON 0831 02351 GUARDRAIL FOR TACK NON-TRACKING 1.50 TON 0840 02352 GUARDRAIL FOR GUARDRA	0750	08020	CRUSHED AGGREGATE SLOPE PROT	130.50	TON
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 0780 00101 ASPHALT SEAL AGGREGATE 7.50 TON 0790 0013 ASPHALT SEAL COAT 1.00 TON 0785 00100 ASPHALT SEAL COAT 1.00 TON 0800 00219 (CL4 ASPH BASE 1.00D PG76-22 2110.00 TON 0805 00335 CL4 ASPH SURF 0.50A PG76-22 298.00 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING 288.00 TON 0815 20071EC JOINT ADHESIVE 1,666.00 LF 0825 01982 WHITE 7.00 EACH 0825 01982 WHITE 7.00 EACH 0833 01987 DELINEATOR FOR GUARDRAIL BID IRECTIONAL WHITE 4.50 EACH 0840 02352 GUARDRAIL-STEEL W BEAM-S FACE 387.50 LF 0844 02363 GUARDRAIL CON NECTOR TO	0755	02231	STRUCTURE GRANULAR BACKFILL	102.00	CUYD
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 00100 ASPHALT SEAL AGGREGATE 7.50 TON 0790 00103 ASPHALT SEAL COAT 1.00 TON 0795 00194 LEVELING & WEDGING PG76-22 37.50 TON 0800 00219 CL4 ASPH BASE 1.00D PG76-22 298.00 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING 298.00 TON 0815 20071EC JOINT ADHESIVE 1,666.00 LF 0820 24970EC ASPHALT MATERIAL FOR TACK NON-TRACKING 1.50 TON 0825 01982 WHITE 7.00 EACH 0830 01987 DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL 1.00 EACH 0832 02351 GUARDRAIL STEL W BEAM-5 FACE 387.50 LF 0845 02363 GUARDRAIL CONNECTO	0760	02998	MASONRY COATING	739.50	SQYD
0775 02403 REMOVE CONCRETE MASONRY 67.00 CUYD 0780 00001 DGA BASE 100.00 TON 0785 00100 ASPHALT SEAL AGGREGATE 7.50 TON 0790 00103 ASPHALT SEAL COAT 1.00 TON 0795 001194 LEVELING & WEDGING PG76-22 37.50 TON 0800 00219 CL4 ASPH BASE 1.00D PG76-22 298.00 TON 0805 00335 CL4 ASPH SURF 0.50A PG76-22 298.00 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING 298.00 TON 0815 20071EC JOINT ADHESIVE 1.666.00 LF 0820 24970EC ASPHALT PAVE MILLING & TEXTURING 208.00 TON 08215 20071EC JOINT ADHESIVE 1.666.00 LF 08220 24970EC ASPHALT MATERIAL FOR TACK NON-TRACKING 1.50 TON 0825 01982 WHITE 7.00 EACH 0825 01982 WHITE 7.00 EACH 0835 02363 GUARDRAIL-STEEL W BEAM-S FACE 137.50 LF 0844 02363 GUARDRAIL-STEEL W BEAM-	0765	08669	PRECAST PC BOX BEAM SB21	507.25	LF
0780 00001 DGA BASE 100.00 TON 0785 00100 ASPHALT SEAL AGGREGATE 7.50 TON 0790 00103 ASPHALT SEAL COAT 1.00 TON 0795 00194 LEVELING & WEDGING PG76-22 37.50 TON 0800 00219 CL4 ASPH BASE 1.00D PG76-22 110.00 TON 0805 00335 CL4 ASPH BASE 1.00D PG76-22 298.00 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING 298.00 TON 0815 20071EC JOINT ADHESIVE 11.666.00 LF 0820 24970EC ASPHALT MATERIAL FOR TACK NON-TRACKING 1.50 TON 0825 01982 WHITE 7.00 EACH 0830 01987 DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE 4.50 0845 02361 GUARDRAIL-STEEL W BEAM-5 FACE 387.50 LF 0845 02363 GUARDRAIL-STEEL W BEAM-D FACE 137.50 LF 0845 02363 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0855 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0865 </td <td>0770</td> <td>25028ED</td> <td>RAIL SYSTEM SINGLE SLOPE - 40 IN</td> <td>259.00</td> <td>LF</td>	0770	25028ED	RAIL SYSTEM SINGLE SLOPE - 40 IN	259.00	LF
0785 00100 ASPHALT SEAL AGGREGATE 7.50 TON 0790 00103 ASPHALT SEAL COAT 1.00 TON 0795 00194 LEVELING & WEDGING PG76-22 37.50 TON 0800 00219 CL4 ASPH BASE 1.00D PG76-22 298.00 TON 0805 00333 CL4 ASPH SURF 0.50A PG76-22 298.00 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING 298.00 TON 0815 20071EC JOINT ADHESIVE 1.666.00 LF 0820 24970EC ASPHALT MATERIAL FOR TACK NON-TRACKING 1.50 TON 0825 01982 WHITE 7.00 EACH 0825 01982 WHITE 7.00 EACH 0835 02351 GUARDRAIL-STEEL W BEAM-S FACE 387.50 LF 0844 02352 GUARDRAIL-STEEL W BEAM-S FACE 387.50 LF 0845 02363 GUARDRAIL CONNECTOR TO BRIDGE END TY A 2.00 EACH 0855 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0866 2602367 GUARDRAIL TRANSITION TL-3 3.00 LF 0876	0775	02403	REMOVE CONCRETE MASONRY	67.00	CUYD
0790 00103 ASPHALT SEAL COAT 1.00 TON 0795 00194 LEVELING & WEDGING PG76-22 37.50 TON 0800 00219 CL4 ASPH BASE 1.00D PG76-22 110.00 TON 0805 00335 CL4 ASPH BASE 1.00D PG76-22 298.00 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING 298.00 TON 0815 20071EC JOINT ADHESIVE 1.666.00 LF 0820 24970EC ASPHALT MATERIAL FOR TACK NON-TRACKING 1.50 TON 0825 01982 WHITE 7.00 EACH 0835 02351 GUARDRAIL-STEEL W BEAM-S FACE 387.50 LF 0844 02352 GUARDRAIL-STEEL W BEAM-D FACE 137.50 LF 0845 02363 GUARDRAIL CONNECTOR TO BRIDGE END TY A 2.00 EACH 0855 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0855 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0856 25025ED THRIE BEAM GUARDRAIL TRANSITION TL-3 3.00 LF 0865 02363 GUARDRAIL TERMINAL SECTION NO 1 1.00 EACH	0780	00001	DGA BASE	100.00	TON
0795 00194 LEVELING & WEDGING PG76-22 37.50 TON 0800 00219 CL4 ASPH BASE 1.00D PG76-22 110.00 TON 0805 00335 CL4 ASPH SURF 0.50A PG76-22 298.00 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING 298.00 TON 0815 20071EC JOINT ADHESIVE 11,666.00 LF 0820 24970EC ASPHALT MATERIAL FOR TACK NON-TRACKING 1.50 TON 0825 01982 WHITE 7.00 EACH 0825 01982 WHITE 7.00 EACH 0835 02351 GUARDRAIL-STEEL W BEAM-S FACE 387.50 LF 0840 02352 GUARDRAIL-STEEL W BEAM-D FACE 137.50 LF 0844 02363 GUARDRAIL CONNECTOR TO BRIDGE END TY A 2.00 EACH 0855 02365 CRASH CUSHION TYPE IX-A 1.00 EACH 0866 202351 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0870 02360 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0875 02169 TEMP DITCH 133.00 LF 0885	0785	00100	ASPHALT SEAL AGGREGATE	7.50	TON
0800 00219 CL4 ASPH BASE 1.00D PG76-22 110.00 TON 0805 00335 CL4 ASPH SURF 0.50A PG76-22 298.00 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING 298.00 TON 0815 20071EC JOINT ADHESIVE 1,666.00 LF 0820 24970EC ASPHALT MATERIAL FOR TACK NON-TRACKING 1.50 TON 0825 01982 WHITE 7.00 EACH 0830 01987 DELINEATOR FOR GUARDRAIL BI DIRECTIONAL TON EACH 0835 02351 GUARDRAIL-STEEL W BEAM-S FACE 387.50 LF 0840 02352 GUARDRAIL-STEEL W BEAM-D FACE 137.50 LF 0845 02363 GUARDRAIL CONNECTOR TO BRIDGE END TY A 2.00 EACH 0855 02365 CRASH CUSHION TYPE IX-A 1.00 EACH 0866 02381 REMOVE GUARDRAIL TRANSITION TL-3 3.00 LF 0865 25025ED THRIE BEAM GUARDRAIL TRANSITION TL-3 3.00 LF 0865 02160 CLEAN TEMP DITCH 337.50 LF 0885 02160 CLEAN TEMP DITCH 337.50 LF	0790	00103	ASPHALT SEAL COAT	1.00	TON
0805 00335 CL4 ASPH SURF 0.50A PG76-22 298.00 TON 0810 02677 ASPHALT PAVE MILLING & TEXTURING 298.00 TON 0815 20071EC JOINT ADHESIVE 1,666.00 LF 0820 24970EC ASPHALT MATERIAL FOR TACK NON-TRACKING 1.50 TON 0825 01982 WHITE 7.00 EACH 0835 02351 GUARDRAIL STEEL W BEAM-S FACE 387.50 LF 0840 02352 GUARDRAIL-STEEL W BEAM-D FACE 137.50 LF 0845 02363 GUARDRAIL CONNECTOR TO BRIDGE END TY A 2.00 EACH 0855 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0865 25025ED THRIE BEAM GUARDRAIL TYPE 1 2.00 EACH 0865 02366 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0865 02365 GUARDRAIL TRANSITION TL-3 3.00 LF 0866 02360 GUARDRAIL TRANSITION TL-3 3.00 LF 0888	0795	00194	LEVELING & WEDGING PG76-22	37.50	TON
081002677ASPHALT PAVE MILLING & TEXTURING298.00TON081520071ECJOINT ADHESIVE1,666.00LF082024970ECASPHALT MATERIAL FOR TACK NON-TRACKING1.50TON082501982WHITE7.00EACH083501987DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE4.50EACH083502351GUARDRAIL-STEEL W BEAM-S FACE337.50LF084002352GUARDRAIL-STEEL W BEAM-D FACE137.50LF084502363GUARDRAIL CONNECTOR TO BRIDGE END TY A2.00EACH085502365CRASH CUSHION TYPE IX-A1.00EACH086002381REMOVE GUARDRAILTRANTYPE 12.00EACH086002381REMOVE GUARDRAIL TRANSITION TL-33.00LF086502056DTHRIE BEAM GUARDRAIL TRANSITION TL-33.00LF087502159TEMP DITCH10.00EACH088502703SILT TRAP TYPE A3.00LF088502703SILT TRAP TYPE A3.00EACH090002706CLEAN SILT TRAP TYPE B1.00EACH090102707CLEAN SILT TRAP TYPE B1.00EACH091505950EROSION CONTROL BLANKET1.21.00SQYD092005952TEMP MULCH806.50SQYD	0800	00219	CL4 ASPH BASE 1.00D PG76-22	110.00	TON
0815 20071EC JOINT ADHESIVE 1,666.00 LF 0820 24970EC ASPHALT MATERIAL FOR TACK NON-TRACKING 1.50 TON 0825 01982 WHITE 7.00 EACH 0830 01987 DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE 4.50 EACH 0835 02351 GUARDRAIL-STEEL W BEAM-S FACE 387.50 LF 0840 02362 GUARDRAIL-STEEL W BEAM-D FACE 137.50 LF 0845 02363 GUARDRAIL CONNECTOR TO BRIDGE END TY A 2.00 EACH 0855 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0866 02381 REMOVE GUARDRAIL TRANSITION TL-3 1.00 EACH 0865 02360 GUARDRAIL TERMINAL SECTION NO 1 1.00 EACH 0875 02159 TEMP DITCH 337.50 LF 0888 02160 CLEAN TEMP DITCH 1.68.75 LF 0885 02703 SILT TRAP TYPE A 3.00 EACH 0890 02704	0805	00335	CL4 ASPH SURF 0.50A PG76-22	298.00	TON
0820 24970EC ASPHALT MATERIAL FOR TACK NON-TRACKING 1.50 TON 0825 01982 WHITE 7.00 EACH 0830 01987 DELINEATOR FOR GUARDRAIL BI DIRECTIONAL 7.00 EACH 0835 02351 GUARDRAIL-STEEL W BEAM-S FACE 387.50 LF 0840 02352 GUARDRAIL-STEEL W BEAM-S FACE 137.50 LF 0845 02363 GUARDRAIL CONNECTOR TO BRIDGE END TY A 2.00 EACH 0850 02365 CRASH CUSHION TYPE IX-A 1.00 EACH 0865 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0865 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0865 02367 GUARDRAIL TRANSITION TL-3 3.00 LF 0865 25025ED THRIE BEAM GUARDRAIL TRANSITION TL-3 3.00 LF 0886 02169 TEMP DITCH 337.50 LF 0885 02169 TRAP TYPE A 3.00 EACH 0890 02704 <t< td=""><td>0810</td><td>02677</td><td>ASPHALT PAVE MILLING & TEXTURING</td><td>298.00</td><td>TON</td></t<>	0810	02677	ASPHALT PAVE MILLING & TEXTURING	298.00	TON
DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL 7.00 EACH 0825 01982 WHITE 7.00 EACH 0830 01987 DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE 4.50 EACH 0835 02351 GUARDRAIL-STEEL W BEAM-S FACE 387.50 LF 0840 02352 GUARDRAIL-STEEL W BEAM-D FACE 137.50 LF 0845 02363 GUARDRAIL CONNECTOR TO BRIDGE END TY A 2.00 EACH 0850 02365 CRASH CUSHION TYPE IX-A 1.00 EACH 0865 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0865 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0865 02361 REMOVE GUARDRAIL TRANSITION TL-3 3.00 LF 0865 02360 GUARDRAIL TERMINAL SECTION NO 1 1.00 EACH 0870 02360 GUARDRAIL TRANSITION TL-3 3.00 LF 0880 02160 CLEAN TEMP DITCH 337.50 LF 0880 02160 CLEAN TEMP TYPE	0815	20071EC	JOINT ADHESIVE	1,666.00	LF
0825 01982 WHITE 7.00 EACH 0830 01987 DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE 4.50 EACH 0835 02351 GUARDRAIL-STEEL W BEAM-S FACE 387.50 LF 0840 02352 GUARDRAIL-STEEL W BEAM-D FACE 137.50 LF 0845 02363 GUARDRAIL CONNECTOR TO BRIDGE END TY A 2.00 EACH 0850 02365 CRASH CUSHION TYPE IX-A 1.00 EACH 0865 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0866 02381 REMOVE GUARDRAIL TREATMENT TYPE 1 2.00 EACH 0865 25025ED THRIE BEAM GUARDRAIL TRANSITION TL-3 3.00 LF 0870 02360 GUARDRAIL TERMINAL SECTION NO 1 1.00 EACH 0880 02160 CLEAN TEMP DITCH 337.50 LF 0885 02703 SILT TRAP TYPE A 3.00 EACH 0890 02704 SILT TRAP TYPE A 3.00 EACH 0895 02705 SILT TRAP TYPE C 1.00 EACH 0900 02706 CLEAN SILT TRAP TYPE A 3.00 EACH <tr< td=""><td>0820</td><td>24970EC</td><td>ASPHALT MATERIAL FOR TACK NON-TRACKING</td><td>1.50</td><td>TON</td></tr<>	0820	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	1.50	TON
0830 01987 DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE 4.50 EACH 0835 02351 GUARDRAIL-STEEL W BEAM-S FACE 387.50 LF 0840 02352 GUARDRAIL-STEEL W BEAM-D FACE 137.50 LF 0845 02363 GUARDRAIL CONNECTOR TO BRIDGE END TY A 2.00 EACH 0850 02365 CRASH CUSHION TYPE IX-A 1.00 EACH 0860 02381 REMOVE GUARDRAIL ENCH 2.00 EACH 0860 02381 REMOVE GUARDRAIL TRANSITION TL-3 3.00 LF 0865 25025ED THRIE BEAM GUARDRAIL TRANSITION TL-3 3.00 LF 0870 02360 GUARDRAIL TERMINAL SECTION NO 1 1.00 EACH 0875 02159 TEMP DITCH 337.50 LF 0880 02160 CLEAN TEMP DITCH 168.75 LF 0885 02703 SILT TRAP TYPE A 3.00 EACH 0890 02704 SILT TRAP TYPE C 1.00 EACH 0900	0825	01982		7.00	EACH
0840 02352 GUARDRAIL-STEEL W BEAM-D FACE 137.50 LF 0845 02363 GUARDRAIL CONNECTOR TO BRIDGE END TY A 2.00 EACH 0850 02365 CRASH CUSHION TYPE IX-A 1.00 EACH 0855 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0860 02381 REMOVE GUARDRAIL 537.50 LF 0865 25025ED THRIE BEAM GUARDRAIL TRANSITION TL-3 3.00 LF 0870 02360 GUARDRAIL TERMINAL SECTION NO 1 1.00 EACH 0875 02169 TEMP DITCH 337.50 LF 0880 02160 CLEAN TEMP DITCH 337.50 LF 0885 02703 SILT TRAP TYPE A 3.00 EACH 0890 02704 SILT TRAP TYPE B 1.00 EACH 0890 02705 SILT TRAP TYPE A 3.00 EACH 0900 02706 CLEAN SILT TRAP TYPE A 3.00 EACH 0900 02707 CLEAN SILT TRAP TYPE B 1	0830	01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	4.50	EACH
0845 02363 GUARDRAIL CONNECTOR TO BRIDGE END TY A 2.00 EACH 0850 02365 CRASH CUSHION TYPE IX-A 1.00 EACH 0855 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0860 02381 REMOVE GUARDRAIL 537.50 LF 0865 25025ED THRIE BEAM GUARDRAIL TRANSITION TL-3 3.00 LF 0870 02360 GUARDRAIL TERMINAL SECTION NO 1 1.00 EACH 0875 02159 TEMP DITCH 337.50 LF 0886 02160 CLEAN TEMP DITCH 337.50 LF 0885 02703 SILT TRAP TYPE A 3.00 EACH 0890 02704 SILT TRAP TYPE B 1.00 EACH 0900 02705 SILT TRAP TYPE A 3.00 EACH 0900 02706 CLEAN SILT TRAP TYPE A 3.00 EACH 0900 02706 CLEAN SILT TRAP TYPE A 3.00 EACH 0901 02706 CLEAN SILT TRAP TYPE C 1.00 <td>0835</td> <td>02351</td> <td>GUARDRAIL-STEEL W BEAM-S FACE</td> <td>387.50</td> <td>LF</td>	0835	02351	GUARDRAIL-STEEL W BEAM-S FACE	387.50	LF
0850 02365 CRASH CUSHION TYPE IX-A 1.00 EACH 0855 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0860 02381 REMOVE GUARDRAIL 537.50 LF 0865 25025ED THRIE BEAM GUARDRAIL TRANSITION TL-3 3.00 LF 0870 02360 GUARDRAIL TERMINAL SECTION NO 1 1.00 EACH 0875 02159 TEMP DITCH 337.50 LF 0886 02160 CLEAN TEMP DITCH 337.50 LF 0885 02160 CLEAN TEMP DITCH 337.50 LF 0885 02703 SILT TRAP TYPE A 3.00 EACH 0890 02704 SILT TRAP TYPE B 1.00 EACH 0890 02705 SILT TRAP TYPE C 1.00 EACH 0900 02706 CLEAN SILT TRAP TYPE A 3.00 EACH 0901 02705 CLEAN SILT TRAP TYPE A 3.00 EACH 0905 02707 CLEAN SILT TRAP TYPE A 3.00 EACH <td>0840</td> <td>02352</td> <td>GUARDRAIL-STEEL W BEAM-D FACE</td> <td>137.50</td> <td>LF</td>	0840	02352	GUARDRAIL-STEEL W BEAM-D FACE	137.50	LF
0855 02367 GUARDRAIL END TREATMENT TYPE 1 2.00 EACH 0855 02381 REMOVE GUARDRAIL 537.50 LF 0865 25025ED THRIE BEAM GUARDRAIL TRANSITION TL-3 3.00 LF 0870 02360 GUARDRAIL TERMINAL SECTION NO 1 1.00 EACH 0875 02159 TEMP DITCH 337.50 LF 0880 02160 CLEAN TEMP DITCH 337.50 LF 0885 02703 SILT TRAP TYPE A 3.00 EACH 0890 02704 SILT TRAP TYPE B 1.00 EACH 0895 02705 SILT TRAP TYPE C 1.00 EACH 0900 02706 CLEAN SILT TRAP TYPE A 3.00 EACH 0905 02707 CLEAN SILT TRAP TYPE A 3.00 EACH 0905 02707 CLEAN SILT TRAP TYPE B 1.00 EACH 0905 02707 CLEAN SILT TRAP TYPE C 1.00 EACH 0910 02708 CLEAN SILT TRAP TYPE C 1.00 EAC	0845	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	2.00	EACH
0860 02381 REMOVE GUARDRAIL 537.50 LF 0865 25025ED THRIE BEAM GUARDRAIL TRANSITION TL-3 3.00 LF 0870 02360 GUARDRAIL TERMINAL SECTION NO 1 1.00 EACH 0875 02159 TEMP DITCH 337.50 LF 0880 02160 CLEAN TEMP DITCH 337.50 LF 0885 02703 SILT TRAP TYPE A 3.00 EACH 0890 02704 SILT TRAP TYPE B 1.00 EACH 0895 02705 SILT TRAP TYPE C 1.00 EACH 0900 02706 CLEAN SILT TRAP TYPE A 3.00 EACH 0905 02707 CLEAN SILT TRAP TYPE A 3.00 EACH 0905 02707 CLEAN SILT TRAP TYPE B 1.00 EACH 0910 02708 CLEAN SILT TRAP TYPE C 1.00 EACH 0910 02708 CLEAN SILT TRAP TYPE B 1.00 EACH 0910 02708 CLEAN SILT TRAP TYPE C 1.00 EACH	0850	02365	CRASH CUSHION TYPE IX-A	1.00	EACH
0860 02381 REMOVE GUARDRAIL 537.50 LF 0865 25025ED THRIE BEAM GUARDRAIL TRANSITION TL-3 3.00 LF 0870 02360 GUARDRAIL TERMINAL SECTION NO 1 1.00 EACH 0875 02159 TEMP DITCH 337.50 LF 0880 02160 CLEAN TEMP DITCH 168.75 LF 0885 02703 SILT TRAP TYPE A 3.00 EACH 0890 02704 SILT TRAP TYPE B 1.00 EACH 0895 02705 SILT TRAP TYPE C 1.00 EACH 0900 02706 CLEAN SILT TRAP TYPE A 3.00 EACH 0905 02707 CLEAN SILT TRAP TYPE A 3.00 EACH 0905 02707 CLEAN SILT TRAP TYPE B 1.00 EACH 0910 02708 CLEAN SILT TRAP TYPE C 1.00 EACH 0910 02708 CLEAN SILT TRAP TYPE B 1.00 EACH 0910 02708 CLEAN SILT TRAP TYPE C 1.00 EACH	0855	02367	GUARDRAIL END TREATMENT TYPE 1	2.00	EACH
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0875 02159 TEMP DITCH 337.50 LF 0880 02160 CLEAN TEMP DITCH 168.75 LF 0885 02703 SILT TRAP TYPE A 3.00 EACH 0890 02704 SILT TRAP TYPE B 1.00 EACH 0895 02705 SILT TRAP TYPE C 1.00 EACH 0900 02706 CLEAN SILT TRAP TYPE A 3.00 EACH 0905 02707 CLEAN SILT TRAP TYPE A 3.00 EACH 0905 02707 CLEAN SILT TRAP TYPE B 1.00 EACH 0905 02707 CLEAN SILT TRAP TYPE B 1.00 EACH 0910 02708 CLEAN SILT TRAP TYPE C 1.00 EACH 0910 02708 CLEAN SILT TRAP TYPE C 1.00 EACH 0915 05950 EROSION CONTROL BLANKET 1,210.00 SQYD 0920 05952 TEMP MULCH 806.50 SQYD					
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0910 02708 CLEAN SILT TRAP TYPE C 1.00 EACH 0915 05950 EROSION CONTROL BLANKET 1,210.00 SQYD 0920 05952 TEMP MULCH 806.50 SQYD					
0915 05950 EROSION CONTROL BLANKET 1,210.00 SQYD 0920 05952 TEMP MULCH 806.50 SQYD					
0920 05952 TEMP MULCH 806.50 SQYD					
	0925				

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0930	05963	INITIAL FERTILIZER	.15	TON
0935	05964	MAINTENANCE FERTILIZER	.10	TON
0940	05989	SPECIAL SEEDING CROWN VETCH	145.00	SQYD
0945	05992	AGRICULTURAL LIMESTONE	.05	TON
0950	40030	TEMPORARY SILT FENCE	605.00	LF
0955	02562	TEMPORARY SIGNS	500.00	SQFT
0960	02671	PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH
0965	02676	MOBILIZATION FOR MILL & TEXT - (B00132L)	1.00	LS
0970	02775	ARROW PANEL	1.00	EACH
0975	23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	38.00	LF
0980	04933	TEMP SIGNAL 2 PHASE	1.00	EACH
0985	06511	PAVE STRIPING-TEMP PAINT-6 IN	7,750.00	LF
0990	06542	PAVE STRIPING-THERMO-6 IN W	1,511.50	LF
0995	06543	PAVE STRIPING-THERMO-6 IN Y	1,090.50	LF
1000	06556	PAVE STRIPING-DUR TY 1-6 IN W	200.00	LF
1005	06557	PAVE STRIPING-DUR TY 1-6 IN Y	150.00	LF
1010	24489EC	INLAID PAVEMENT MARKER	21.00	EACH
1015	06568	PAVE MARKING-THERMO STOP BAR-24IN	25.50	LF
1020	23265ES717	PAVE MARK TY 1 TAPE STOP BAR-24 IN	34.50	LF
1025	06574	PAVE MARKING-THERMO CURV ARROW	4.00	EACH
1030	02545	CLEARING AND GRUBBING - APPLIES TO 092B00132L	1.00	LS
1035	02726	STAKING - (B00132L)	1.00	LS
1040	02696	SHOULDER RUMBLE STRIPS	816.00	LF
1045	21451ED	FILL AND GRADE MEDIAN	250.00	LF
1050	20191ED	OBJECT MARKER TY 3	2.00	EACH
1055	02091	REMOVE PAVEMENT	125.00	SQYD
1060	02023	JPC PAVEMENT-9 IN/24	125.00	SQYD
1065	01984	DELINEATOR FOR BARRIER - WHITE	8.00	EACH
1070	01985	DELINEATOR FOR BARRIER - YELLOW	4.00	EACH
1075	01691	FLUME INLET TYPE 2	1.00	EACH
1080	01890	ISLAND HEADER CURB TYPE 1	17.00	LF
1085	02165	REMOVE PAVED DITCH	41.50	SQYD
1090	02484	CHANNEL LINING CLASS III	57.00	TON
1095	24894EC	REMOVE - REMOVE FLUME - APPLIES TO 092B00132L	1.00	EACH
1100	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
1105		MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE 092B000132R	1.00	LS
1110	03299	ARMORED EDGE FOR CONCRETE	77.80	LF
1115	02569	DEMOBILIZATION	1.00	LS

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1120	08100	CONCRETE-CLASS A	93.50	CUYD
1125	08104	CONCRETE-CLASS AA	169.00	CUYD
1130	08150	STEEL REINFORCEMENT	15,656.00	LB
1135	08151	STEEL REINFORCEMENT-EPOXY COATED	51,489.50	LB
1140	02998	MASONRY COATING	739.50	SQYD
1145	08020	CRUSHED AGGREGATE SLOPE PROT	130.50	TON
1150	02231	STRUCTURE GRANULAR BACKFILL	102.00	CUYD
1155	08669	PRECAST PC BOX BEAM SB21	507.25	LF
1160	25028ED	RAIL SYSTEM SINGLE SLOPE - 40 IN	259.00	LF
1165	02403	REMOVE CONCRETE MASONRY	67.00	CUYD
1170	00001	DGA BASE	100.00	TON
1175	00103	ASPHALT SEAL COAT	1.00	TON
1180	00194	LEVELING & WEDGING PG76-22	37.50	TON
1185	00219	CL4 ASPH BASE 1.00D PG76-22	110.00	TON
1190	00335	CL4 ASPH SURF 0.50A PG76-22	298.00	TON
1195	02677	ASPHALT PAVE MILLING & TEXTURING	298.00	TON
1200	20071EC	JOINT ADHESIVE	1,666.00	LF
1205	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	1.50	TON
		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL		
1210		WHITE	7.00	-
1215		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	4.50	-
1220		GUARDRAIL-STEEL W BEAM-S FACE	387.50	LF
1225		GUARDRAIL-STEEL W BEAM-D FACE	137.50	LF
1230		GUARDRAIL CONNECTOR TO BRIDGE END TY A	2.00	
1235		CRASH CUSHION TYPE IX-A	1.00	-
1240		GUARDRAIL END TREATMENT TYPE 1	2.00	EACH
1245		REMOVE GUARDRAIL	537.50	LF
1250		THRIE BEAM GUARDRAIL TRANSITION TL-3	3.00	LF
1255		GUARDRAIL TERMINAL SECTION NO 1	1.00	-
1260	02.00	TEMP DITCH	337.50	LF
1265		SILT TRAP TYPE A		EACH
1270		SILT TRAP TYPE B		EACH
1275		SILT TRAP TYPE C		EACH
1280		CLEAN SILT TRAP TYPE A		EACH
1285		CLEAN SILT TRAP TYPE B		EACH
1290		CLEAN SILT TRAP TYPE C		EACH
1295		EROSION CONTROL BLANKET	1,210.00	
1300		TEMP MULCH	806.50	
1305		TEMP SEEDING AND PROTECTION	605.00	
1310			.15	
1315			.10	
1320		SPECIAL SEEDING CROWN VETCH	145.00	
1325		AGRICULTURAL LIMESTONE	.05	TON
1330		TEMPORARY SILT FENCE	605.00	LF
1335		TEMPORARY SIGNS	500.00	
1340		PORTABLE CHANGEABLE MESSAGE SIGN	3.00	
1345		MOBILIZATION FOR MILL & TEXT - (B00132R)	1.00	LS
1350		ARROW PANEL	1.00	
1355	23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	38.00	LF
1360	04933	TEMP SIGNAL 2 PHASE	1.00	EACH

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1365	06511	PAVE STRIPING-TEMP PAINT-6 IN	7,750.00	LF
1370	06542	PAVE STRIPING-THERMO-6 IN W	1,511.50	LF
1375	06543	PAVE STRIPING-THERMO-6 IN Y	1,090.50	LF
1380	06556	PAVE STRIPING-DUR TY 1-6 IN W	200.00	LF
1385	06557	PAVE STRIPING-DUR TY 1-6 IN Y	150.00	LF
1390	24489EC	INLAID PAVEMENT MARKER	21.00	EACH
1395	06568	PAVE MARKING-THERMO STOP BAR-24IN	25.50	LF
1400	23265ES717	PAVE MARK TY 1 TAPE STOP BAR-24 IN	34.50	LF
1405	06574	PAVE MARKING-THERMO CURV ARROW	4.00	EACH
1410	02545	CLEARING AND GRUBBING - APPLIES TO 092B00132R	1.00	LS
1415	02726	STAKING - (B00132R)	1.00	LS
1420	02696	SHOULDER RUMBLE STRIPS	816.00	LF
1425	21451ED	FILL AND GRADE MEDIAN	250.00	LF
1430	20191ED	OBJECT MARKER TY 3	2.00	EACH
1435	02091	REMOVE PAVEMENT	125.00	SQYD
1440	02023	JPC PAVEMENT-9 IN/24	125.00	SQYD
1445	01984	DELINEATOR FOR BARRIER - WHITE	8.00	EACH
1450	01985	DELINEATOR FOR BARRIER - YELLOW	4.00	EACH
1455	01691	FLUME INLET TYPE 2	1.00	EACH
1460	01890	ISLAND HEADER CURB TYPE 1	17.00	LF
1465	02165	REMOVE PAVED DITCH	41.50	SQYD
1470	02484	CHANNEL LINING CLASS III	57.00	TON
1475	24894EC	REMOVE - REMOVE FLUME - APPLIES TO 092B00132R	1.00	EACH
1480	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
1485	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE 092B000133L	1.00	LS
1490	03299	ARMORED EDGE FOR CONCRETE	67.00	LF
1495	06556	PAVE STRIPING-DUR TY 1-6 IN W	232.50	LF
1500	06557	PAVE STRIPING-DUR TY 1-6 IN Y	186.00	LF
1505	08504	EPOXY SAND SLURRY	249.00	SQYD
1510	08534	CONCRETE OVERLAY-LATEX	34.40	CUYD
1515	02569	DEMOBILIZATION	1.00	LS
1520	03293	EXPAN JOINT REPLACE 1 IN	34.00	LF
1525	03298	EXPAN JOINT REPLACE 4 IN	34.00	LF
1530	08510	REM EPOXY BIT FOREIGN OVERLAY - (REVISED: 6-19-19)	619.00	SQYD
1535	08526	CONC CLASS M FULL DEPTH PATCH	2.80	CUYD
1540	08549	BLAST CLEANING	868.00	SQYD
1550	23949EC	BRIDGE CLEANING & PREVENTIVE MAINTENANCE - APPLIES TO 093B00133L	1.00	LS

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1555	24094EC	PARTIAL DEPTH PATCHING	1.00	CUYD
1560	02562	TEMPORARY SIGNS - (ADDED: 6-17-2019)	149.00	SQFT
1565	02003	RELOCATE TEMP CONC BARRIER - (ADDED: 6-17-2019)	420.00	LF
1570	02671	PORTABLE CHANGEABLE MESSAGE SIGN - (ADDED: 6-17-2019)	1.00	EACH
1575	02775	ARROW PANEL - (ADDED: 6-17-2019)	1.00	EACH
1580	03171	CONCRETE BARRIER WALL TYPE 9T - (ADDED: 6-17-2019)	420.00	LF
1585		PAVE STRIPING-TEMP REM TAPE-B - (ADDED: 6-17-2019)	1,610.00	LF
1590	08150	STEEL REINFORCEMENT - (ADDED: 6-17-2019)	300.00	LB
1595	06550	PAVE STRIPING-TEMP REM TAPE-W - (ADDED: 6-17-2019)	2,875.00	LF
1600	06551	PAVE STRIPING-TEMP REM TAPE-Y - (ADDED: 6-17-2019)	2,875.00	LF
1605	08903	CRASH CUSHION TY VI CLASS BT TL3 - (ADDED: 6-17-2019)	1.00	EACH
1610	02898	RELOCATE CRASH CUSHION - (ADDED: 6-17-201)	1.00	EACH
1615	01984	DELINEATOR FOR BARRIER - WHITE - (ADDED: 6-17-2019)	27.00	EACH
1620	01985	DELINEATOR FOR BARRIER - YELLOW - (ADDED: 6-17-2019)	30.00	EACH
1625	02014	BARRICADE-TYPE III - (ADDED: 6-17-2019)	1.00	EACH
1630	02676	MOBILIZATION FOR MILL & TEXT - (B00133L) (ADDED: 6-17-2019)	1.00	LS
1635	02677	ASPHALT PAVE MILLING & TEXTURING - (ADDED: 6-17-2019)	124.00	TON
1640	00219	CL4 ASPH BASE 1.00D PG76-22 - (ADDED: 6-17-2019)	124.00	TON
1645	02696	SHOULDER RUMBLE STRIPS - (ADDED: 6-17-2019)	840.00	LF
1650	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING - (ADDED: 6-17-2019)	.20	TON

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
1055	00050	MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE	4.00	
1655	02650	092B000133R	1.00	LS
1660	03293	EXPAN JOINT REPLACE 1 IN	34.00	LF
1665	03298	EXPAN JOINT REPLACE 4 IN	34.00	LF
1670	03299	ARMORED EDGE FOR CONCRETE	67.00	LF
1675	06556	PAVE STRIPING-DUR TY 1-6 IN W	232.50	LF
1680	06557	PAVE STRIPING-DUR TY 1-6 IN Y	186.00	LF
1685	08504	EPOXY SAND SLURRY	249.00	SQYD
1690	08510	REM EPOXY BIT FOREIGN OVERLAY - (REVISED: 6-19-19)	619.00	SQYD
1695	08526	CONC CLASS M FULL DEPTH PATCH	6.30	CUYD
1700	08534	CONCRETE OVERLAY-LATEX	34.40	CUYD

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1705	08549	BLAST CLEANING	868.00	SQYD
1715	23949EC	BRIDGE CLEANING & PREVENTIVE MAINTENANCE - APPLIES TO 093B00133R	1.00	LS
1720	24094EC	PARTIAL DEPTH PATCHING	1.00	CUYD
1725	02569	DEMOBILIZATION	1.00	LS
1730	02562	TEMPORARY SIGNS - (ADDED: 6-17-2019)	149.00	SQFT
1735	02003	RELOCATE TEMP CONC BARRIER - (ADDED: 6-17-2019)	420.00	LF
1740	02671	PORTABLE CHANGEABLE MESSAGE SIGN - (ADDED: 6-17-2019)	1.00	EACH
1745	02775	ARROW PANEL - (ADDED: 6-17-2019)	1.00	EACH
1750	03171	CONCRETE BARRIER WALL TYPE 9T - (ADDED: 6-17-2019)	420.00	LF
1755	06549	PAVE STRIPING-TEMP REM TAPE-B - (ADDED: 6-17-2019)	1,610.00	LF
1760	08150	STEEL REINFORCEMENT - (ADDED: 6-17-2019)	300.00	LB
1765	06550	PAVE STRIPING-TEMP REM TAPE-W - (ADDED: 6-17-2019)	2,875.00	LF
1770	06551	PAVE STRIPING-TEMP REM TAPE-Y - (ADDED: 6-17-2019)	2,875.00	LF
1775	08903	CRASH CUSHION TY VI CLASS BT TL3 - (ADDED: 6-17-2019)	1.00	EACH
1780	02898	RELOCATE CRASH CUSHION - (ADDED: 6-17-2019)	1.00	EACH
1785	01984	DELINEATOR FOR BARRIER - WHITE - (ADDED: 6-17-2019)	27.00	EACH
1790	01985	DELINEATOR FOR BARRIER - YELLOW - (ADDED: 6-17-2019)	30.00	EACH
1795	02014	BARRICADE-TYPE III - (ADDED: 6-17-2019)	1.00	EACH
1800	02676	MOBILIZATION FOR MILL & TEXT - (B00133R) (ADDED: 6-17-2019)	1.00	LS
1805	02677	ASPHALT PAVE MILLING & TEXTURING - (ADDED: 6-17-2019)	124.00	TON
1810	00219	CL4 ASPH BASE 1.00D PG76-22 - (ADDED: 6-17-2019)	124.00	TON
1815	02696	SHOULDER RUMBLE STRIPS - (ADDED: 6-17-2019)	840.00	LF
1820	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING - (ADDED: 6-17-2019)	.20	TON

CONTRACT ID: 192605

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

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1825	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE 092B000134L	1.00	LS
1830	03293	EXPAN JOINT REPLACE 1 IN	92.00	LF
1835	03299	ARMORED EDGE FOR CONCRETE	92.00	LF
1840	06556	PAVE STRIPING-DUR TY 1-6 IN W	162.50	LF
1845	06557	PAVE STRIPING-DUR TY 1-6 IN Y	130.00	LF
1850	08504	EPOXY SAND SLURRY	60.00	SQY
1855	08510	REM EPOXY BIT FOREIGN OVERLAY - (REVISED: 6-19-19)	507.00	SQY
1860		CONC CLASS M FULL DEPTH PATCH		CUY
1865		CONCRETE OVERLAY-LATEX	28.20	
1870		BLAST CLEANING	567.00	
1880		PARTIAL DEPTH PATCHING		CUY
1885		DEMOBILIZATION	1.00	LS
1890		TEMPORARY SIGNS - (ADDED: 6-17-2019)	149.00	
1895		RELOCATE TEMP CONC BARRIER - (ADDED: 6-17-2019)	480.00	LF
1900		PORTABLE CHANGEABLE MESSAGE SIGN - (ADDED: 6-17-2019)		EAC
1905		ARROW PANEL - (ADDED: 6-17-2019)	1.00	
1910		CONCRETE BARRIER WALL TYPE 9T - (ADDED: 6-17-2019)	480.00	LF
1915	06549	PAVE STRIPING-TEMP REM TAPE-B - (ADDED: 6-17-2019)	2,280.00	LF
1920	08150	STEEL REINFORCEMENT - (ADDED: 6-17-2019)	300.00	LB
1925	06550	PAVE STRIPING-TEMP REM TAPE-W - (ADDED: 6-17-2019)	3,240.00	LF
1930	06551	PAVE STRIPING-TEMP REM TAPE-Y - (ADDED: 6-17-2019)	3,365.00	LF
1935	08903	CRASH CUSHION TY VI CLASS BT TL3 - (ADDED: 6-17-2019)	1.00	EAC
1940	02898	RELOCATE CRASH CUSHION - (ADDED: 6-17-2019)	1.00	EAC
1945	01984	DELINEATOR FOR BARRIER - WHITE - (ADDED: 6-17-2019)	33.00	EAC
1950	01985	DELINEATOR FOR BARRIER - YELLOW - (ADDED: 6-17-2019)	33.00	EAC
1955	02014	BARRICADE-TYPE III - (ADDED: 6-17-2019)	1.00	EAC
1960	02676	MOBILIZATION FOR MILL & TEXT - (B00134L) (ADDED: 6-17-2019)	1.00	LS
1965	02677	ASPHALT PAVE MILLING & TEXTURING - (ADDED: 6-17-2019)	505.00	ТОТ
1970	00219	CL4 ASPH BASE 1.00D PG76-22 - (ADDED: 6-17-2019)	505.00	TOT
1975	02696	SHOULDER RUMBLE STRIPS - (ADDED: 6-17-2019)	1,500.00	LF
1980	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING - (ADDED: 6-17-2019)	.60	TOT

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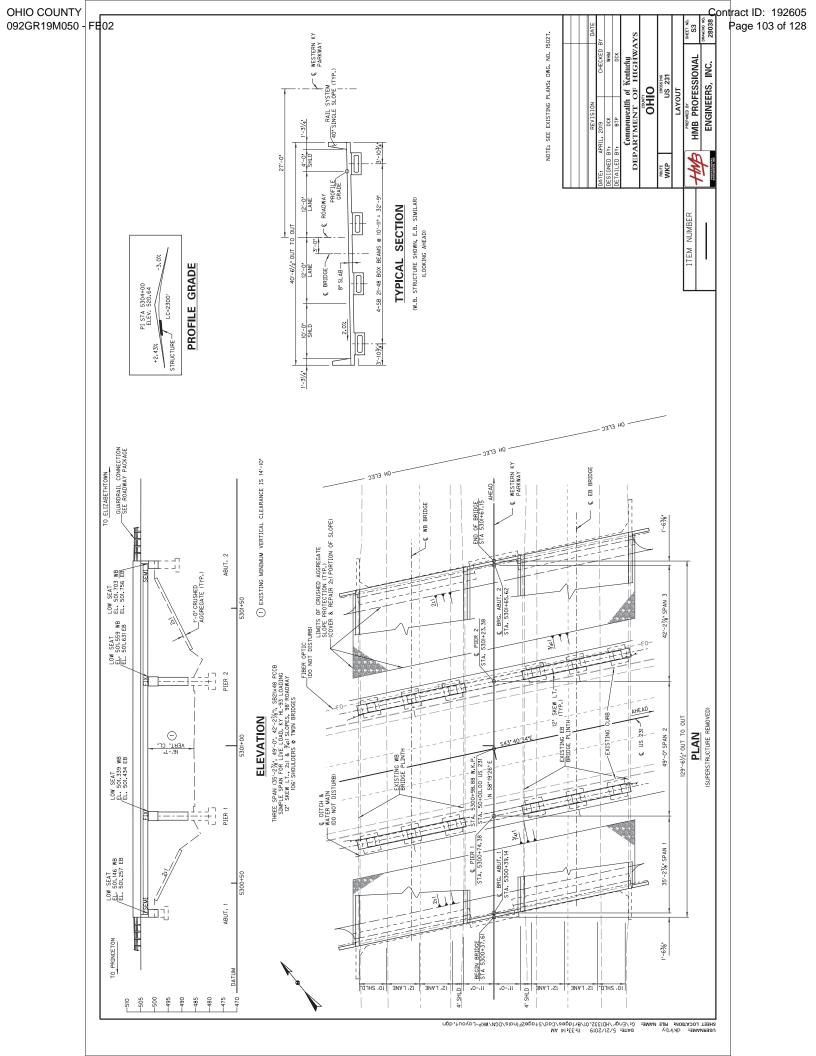
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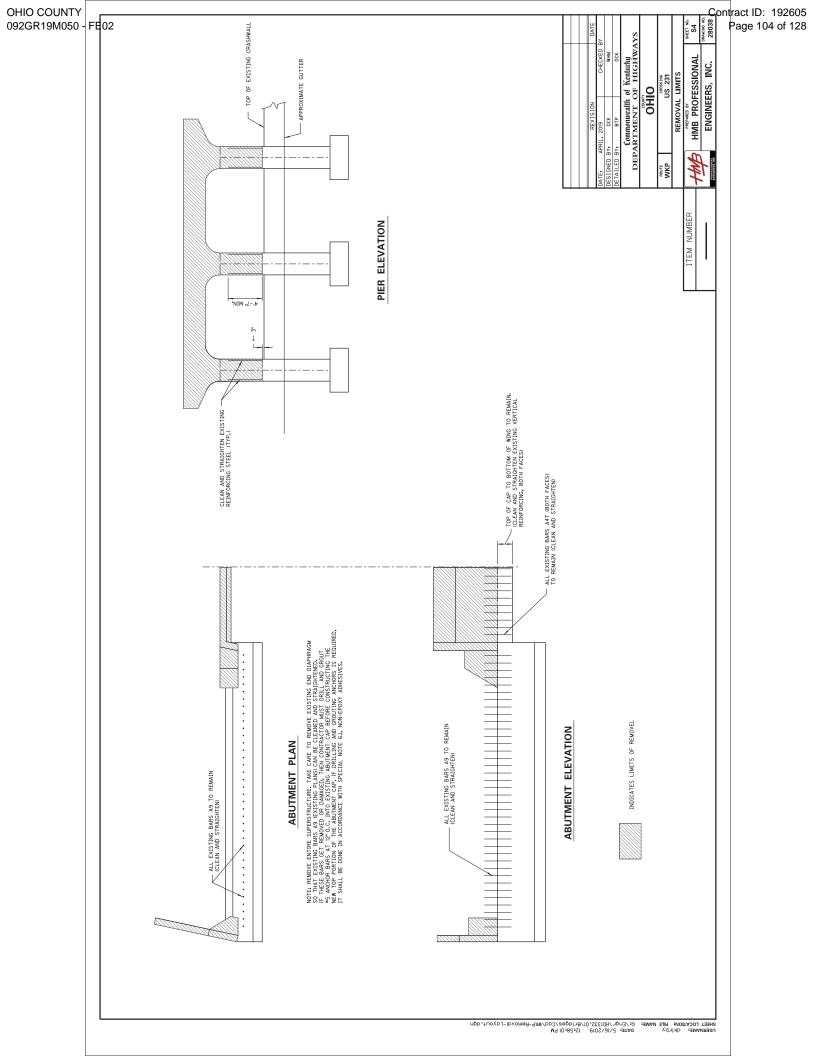
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1985	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO BRIDGE 092B000134R	1.00	LS
1990	03293	EXPAN JOINT REPLACE 1 IN	92.00	LF
1995	03299	ARMORED EDGE FOR CONCRETE	92.00	LF
2000	06556	PAVE STRIPING-DUR TY 1-6 IN W	162.50	LF
2005	06557	PAVE STRIPING-DUR TY 1-6 IN Y	130.00	LF
2010	08504	EPOXY SAND SLURRY	60.00	SQY
2015	08510	REM EPOXY BIT FOREIGN OVERLAY - (REVISED: 6-19-19)	507.00	SQY
2020	08526	CONC CLASS M FULL DEPTH PATCH	2.80	CUY
2025	08534	CONCRETE OVERLAY-LATEX	28.20	CUY
2030	08549	BLAST CLEANING	567.00	SQY
2040	24094EC	PARTIAL DEPTH PATCHING	.80	CUY
2045	02569	DEMOBILIZATION	1.00	LS
2050	02562	TEMPORARY SIGNS - (ADDED: 6-17-2019)	149.00	SQF
2055	02003	RELOCATE TEMP CONC BARRIER - (ADDED: 6-17-2019)	480.00	LF
2060	02671	PORTABLE CHANGEABLE MESSAGE SIGN - (ADDED: 6-17-2019)	1.00	EAC
2065	02775	ARROW PANEL - (ADDED: 6-17-2019)	1.00	EAC
2070	03171	CONCRETE BARRIER WALL TYPE 9T - (ADDED: 6-17-2019)	480.00	LF
2075	06549	PAVE STRIPING-TEMP REM TAPE-B - (ADDED: 6-17-2019)	2,280.00	LF
2080	08150	STEEL REINFORCEMENT - (ADDED: 6-17-2019)	300.00	LB
2085	06550	PAVE STRIPING-TEMP REM TAPE-W - (ADDED: 6-17-2019)	3,240.00	LF
2090	06551	PAVE STRIPING-TEMP REM TAPE-Y - (ADDED: 6-17-2019)	3,365.00	LF
2095	08903	CRASH CUSHION TY VI CLASS BT TL3 - (ADDED: 6-17-2019)	1.00	EAC
2100	02898	RELOCATE CRASH CUSHION - (ADDED: 6-17-2019)	1.00	EAC
2105	01984	DELINEATOR FOR BARRIER - WHITE - (ADDED: 6-17-2019)	33.00	EAC
2110	01985	DELINEATOR FOR BARRIER - YELLOW - (ADDED: 6-17-2019)	33.00	EAC
2115	02014	BARRICADE-TYPE III - (ADDED: 6-17-2019)	1.00	EAC
2120	02676	MOBILIZATION FOR MILL & TEXT - (B000134R) (ADDED: 6-17-2019)	1.00	LS
2125	02677	ASPHALT PAVE MILLING & TEXTURING - (ADDED: 6-17-2019)	505.00	то
2130	00219	CL4 ASPH BASE 1.00D PG76-22 - (ADDED: 6-17-2019)	505.00	ТО
2135	02696	SHOULDER RUMBLE STRIPS - (ADDED: 6-17-2019)	1,500.00	LF
2140	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING - (ADDED: 6-17-2019)	.60	TO

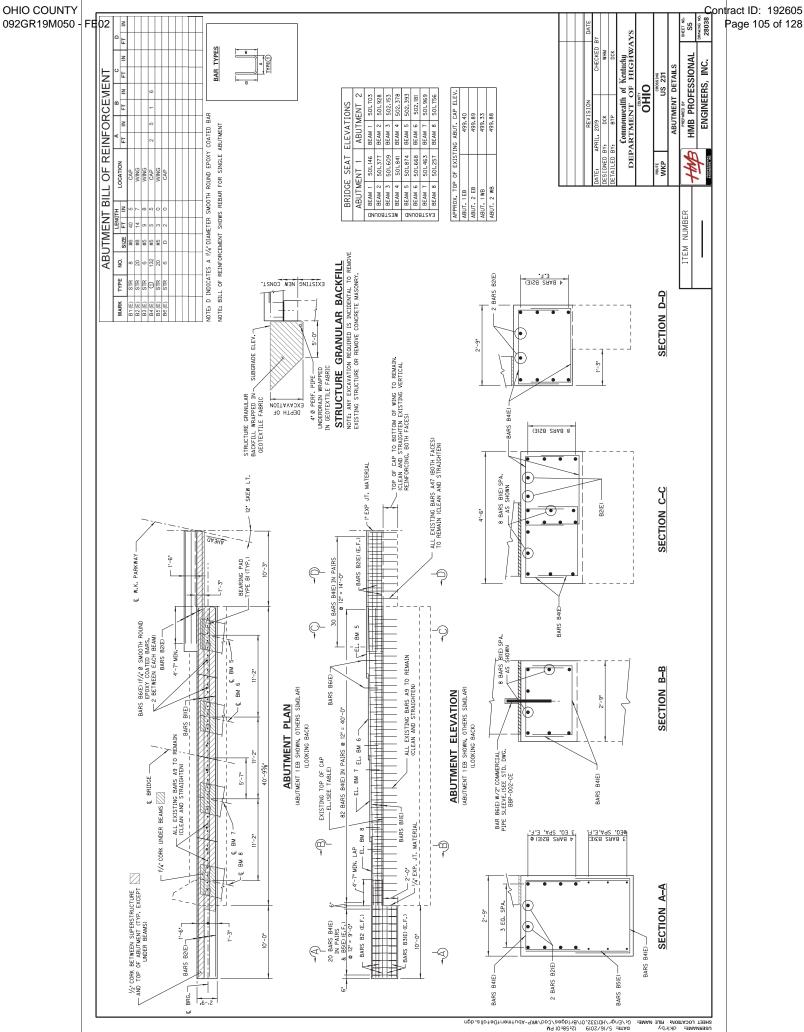
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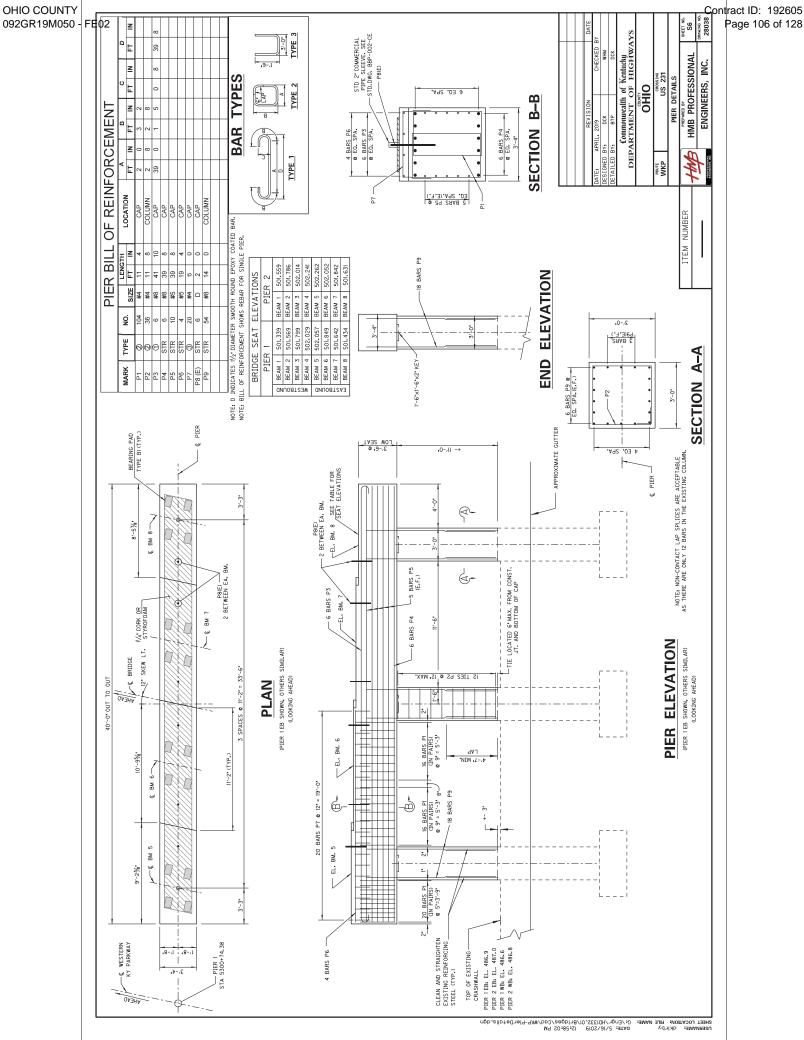
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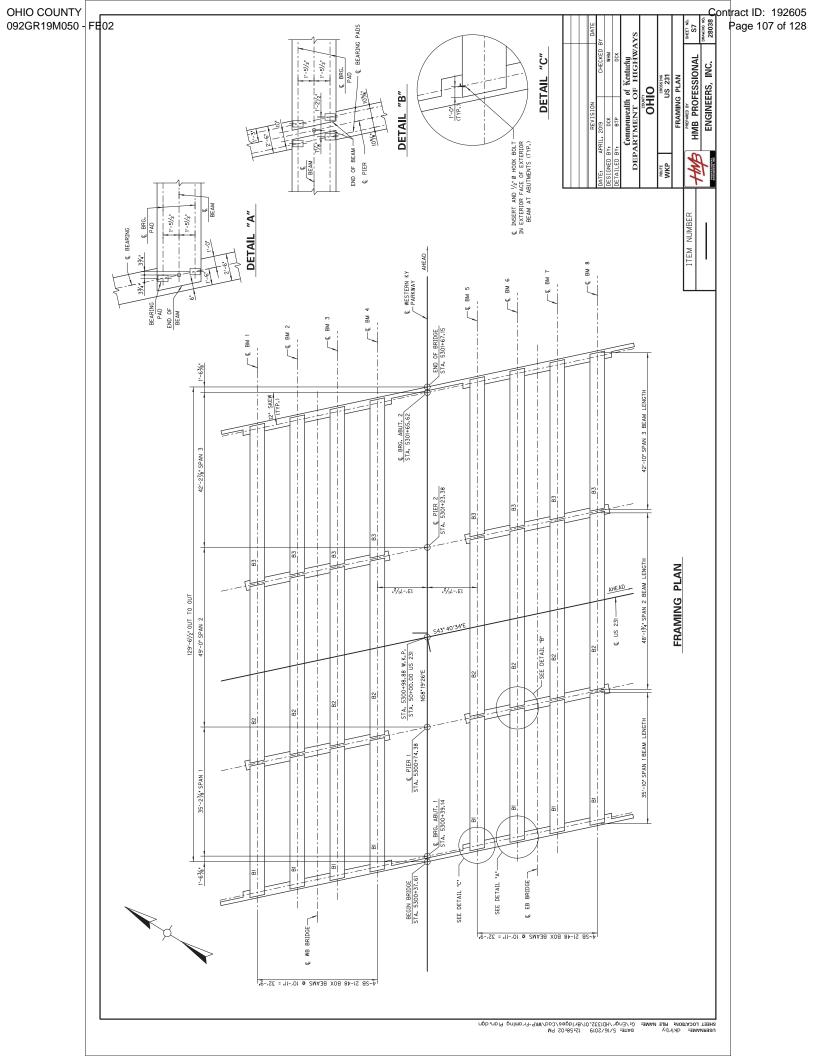


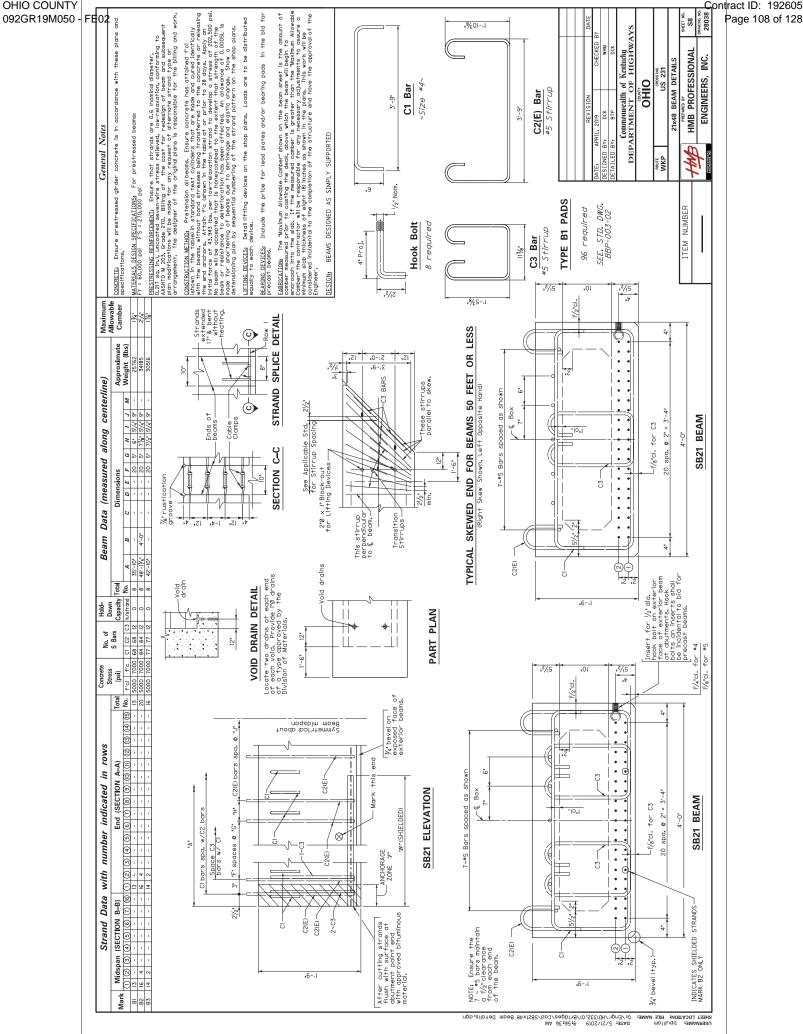


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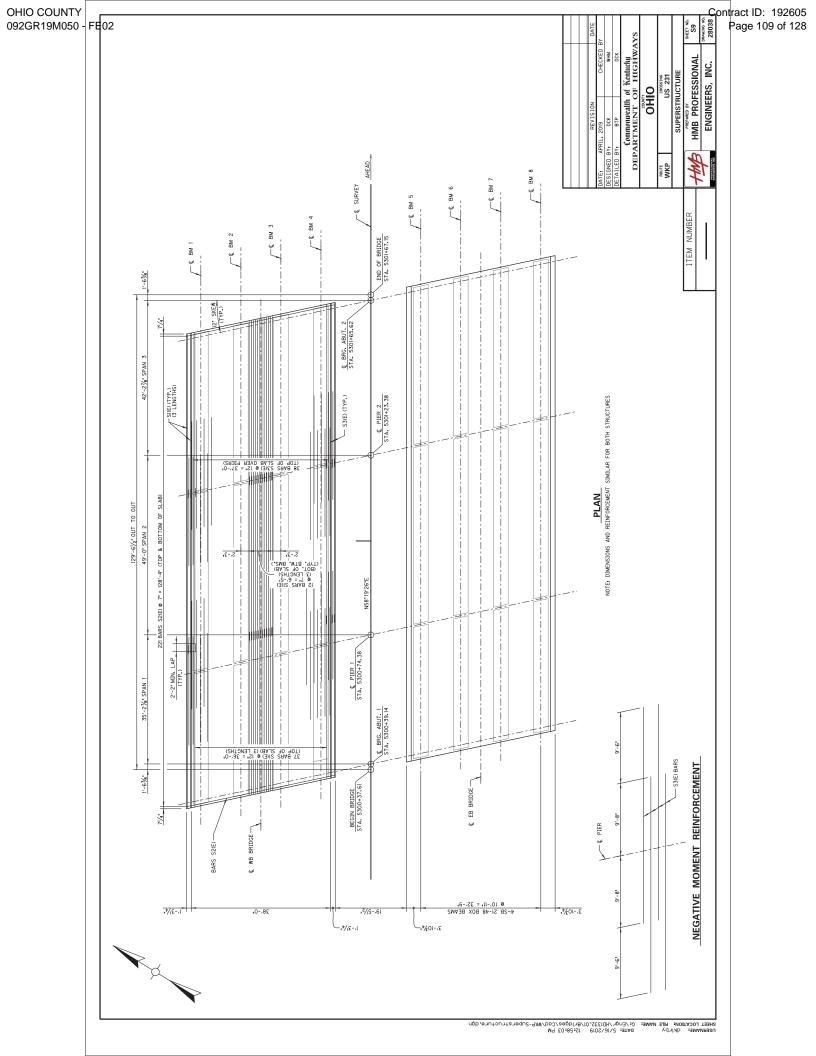
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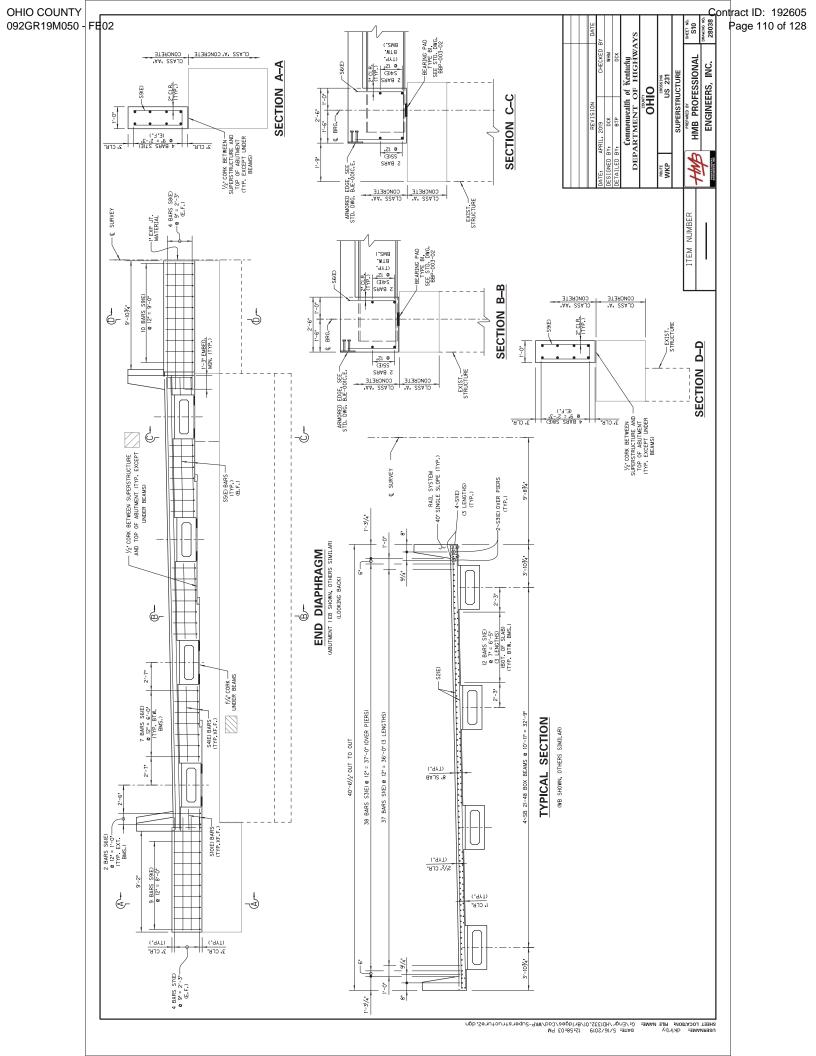


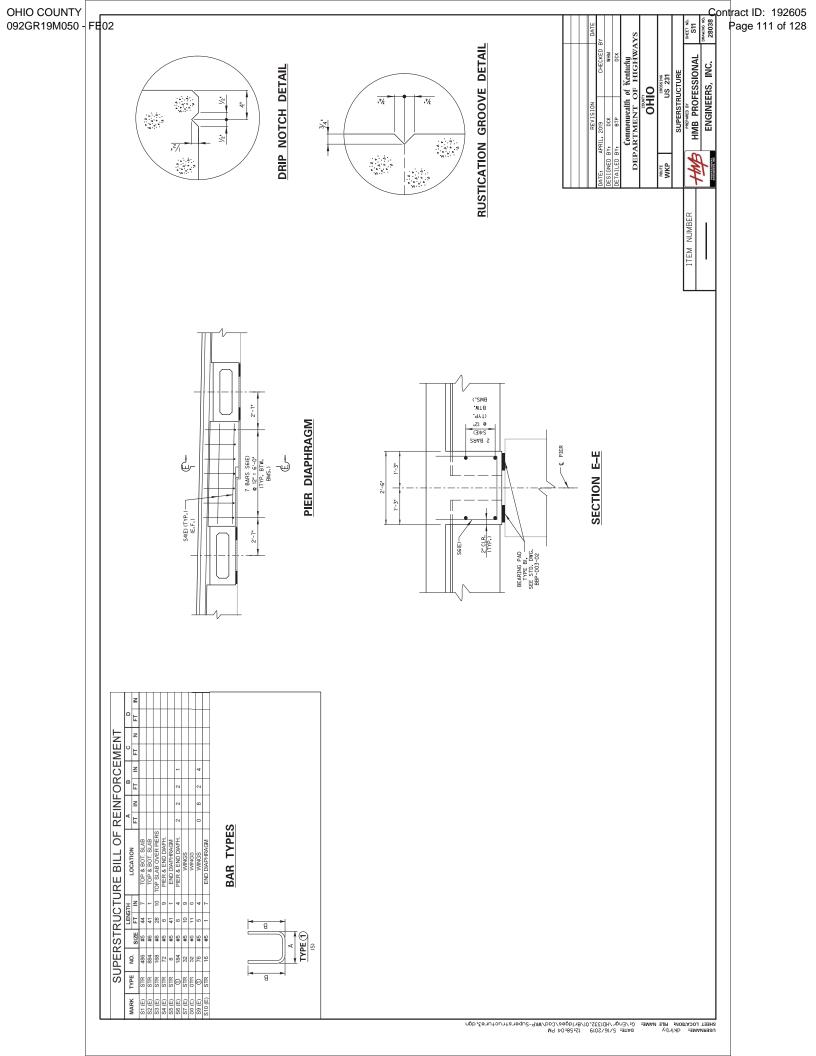


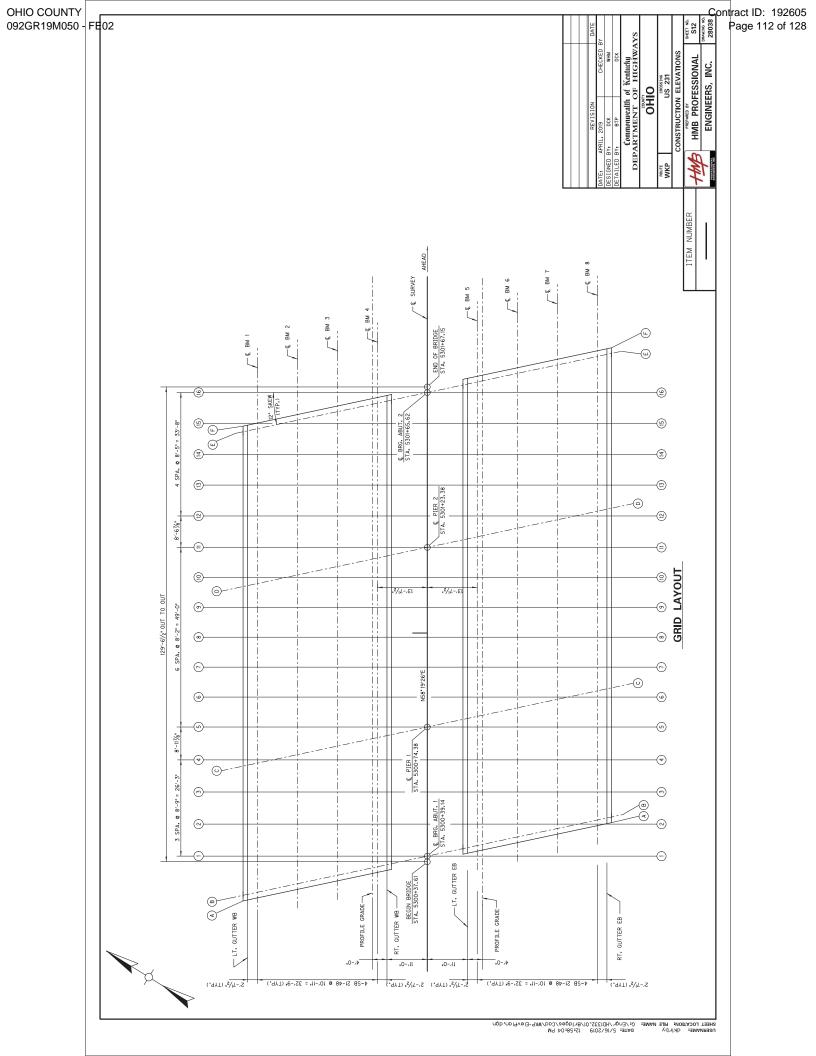
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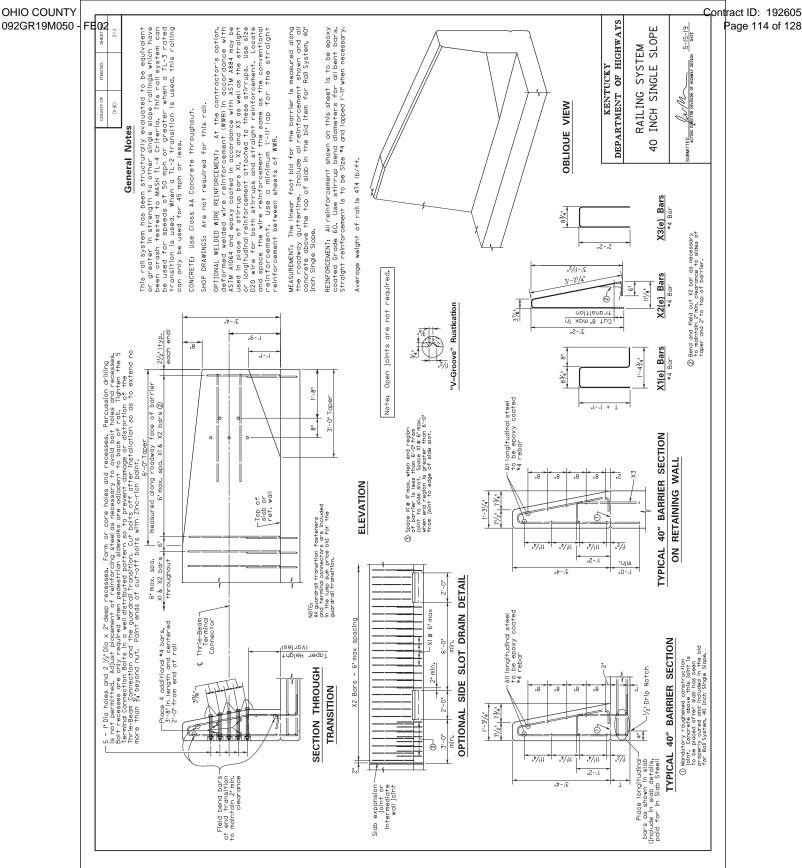




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PART II

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

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 thirtysix (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: <u>https://www.eProcurement.ky.gov</u>.

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.

	ATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISIO
	FEDERAL MINIMUM WAGE \$7.25 PER HOUR BEGINNING JULY 24, 2009
OVERTIME PAY	At least 1^{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 leas 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-manufactur ing, 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 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 eachild labor violation that causes the death or serious injury of any minor employee, an such assessments may be doubled, up to \$10,000, when the violations are determined to be willful or repeated. The law also prohibits discriminating against or discharging workers who file a complaint or participate in any proceeding under the Act.
ADDITIONAL INFORMATION	 Certain occupations and establishments are exempt from the minimum wage and/or overtime pay provisions. Special provisions apply to workers in American Samoa and the Commonwealth of the Northern Mariana Islands. Some state laws provide greater employee protections; employers must comply with bo The law requires employers to display this poster where employees can readily see in Employees under 20 years of age may be paid \$4.25 per hour during their first 90 consecutive calendar days of employment with an employer. Certain full-time students, student learners, apprentices, and workers with disabilities may be paid less than the minimum wage under special certificates issued by the Department of Labor.
	For additional information: 1-866-4-USWAGE

U.S. Department of Labor | Wage and Hour Division

PART IV

INSURANCE

INSURANCE

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

- 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

192605

PROPOSAL BID ITEMS

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Report Date 6/19/19

Section: 0001 - BRIDGE

0020 00100 ASPHALT SEAL AGGREGATE 7.50 TON \$ 0030 00103 ASPHALT SEAL COAT 2.00 TON \$ 0040 00194 LEVELING & WEDGINP 076-22 75.00 TON \$ 0050 00219 CL4 ASPH BASE 100D PG76-22 220.00 TON \$ 0050 00219 (ADDED: 6-17.2019) 2,686.00 TON \$ 0050 00219 FLUME INLET TYPE 2 2.00 EACH \$ 0050 01991 FLUME INLET TYPE 2 2.00 EACH \$ 0100 01982 DIFECTIONAL WHITE 14.00 EACH \$ 0110 01984 DELINEATOR FOR BARRIER - WHITE 16.00 EACH \$ 0120 01984 DELINEATOR FOR BARRIER - WHITE 16.00 EACH \$ 0120 01984 DELINEATOR FOR BARRIER - VELLOW 8.00 EACH \$ 0120 01984 DELINEATOR FOR BARRIER - VELLOW 8.00 EACH \$	LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
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0140 01985 (ADDED: 6-17-2019) 256.00 EACH \$ 0150 01987 DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE 9.00 EACH \$ 0160 02003 (ADDED: 6-17-2019) 3,520.00 LF \$ 0170 02014 (ADDED: 6-17-2019) 8.00 EACH \$ 0170 02014 REMOVE PAVEMENT 250.00 SQYD \$ 0200 02159 TEMP DITCH 168.75 LF \$ 0210 02251 GUARDRAIL-STEEL W BEAM-5 FACE 775.00 LF \$ 02200 02360	0130	01985		8.00	EACH		\$	
015001987DIRECTIONAL WHITE9.00EACH\$RELOCATE TEMP CONC BARRIER (ADDED: 6-17-2019)3,520.00LF\$017002014(ADDED: 6-17-2019)8.00EACH\$018002023JPC PAVEMENT-9 IN/24250.00SQYD\$018002023JPC PAVEMENT-9 IN/24250.00SQYD\$019002091REMOVE PAVEMENT250.00SQYD\$020002159TEMP DITCH675.00LF\$021002160CLEAN TEMP DITCH168.75LF\$022002165REMOVE PAVED DITCH83.00SQYD\$023002231STRUCTURE GRANULAR BACKFILL204.00CUYD\$023002351GUARDRAIL-STEEL W BEAM-S FACE775.00LF\$025002360GUARDRAIL CONTO BRIDGE END8.00EACH\$023002365CRASH CUSHION TYPE IX-A2.00EACH\$023002367GUARDRAIL CON TO BR END6.00EACH\$030002372REMOVE GUARDRAIL CON TO BR END6.00EACH\$031002381REMOVE GUARDRAIL1.00LF\$033002403REMOVE CONCRETE MASONRY134.00CUYD\$034002484CHANNEL LINING CLASS III110.00LF\$035002545APPLIES TO 092800132R1.00LS\$036002545APPLIES TO 092800132R1.00LS\$ </td <td>0140</td> <td>01985</td> <td></td> <td>256.00</td> <td>EACH</td> <td></td> <td>\$</td> <td></td>	0140	01985		256.00	EACH		\$	
0160 02003 (ADDED: 6-17-2019) 3,520.00 LF \$ BARRICADE-TYPE III BARRICADE-TYPE III 640 \$ 0170 02014 (ADDED: 6-17-2019) 8.00 EACH \$ 0180 02023 JPC PAVEMENT-9 IN/24 250.00 SQVD \$ 0190 02091 REMOVE PAVEMENT 250.00 SQVD \$ 0200 02159 TEMP DITCH 675.00 LF \$ 0210 02160 CLEAN TEMP DITCH 188.75 LF \$ 0220 02151 REMOVE PAVED DITCH 83.00 SQVD \$ 0220 02231 STRUCTURE GRANULAR BACKFILL 204.00 CUYD \$ 0240 02351 GUARDRAIL-STEEL W BEAM-5 FACE 775.00 LF \$ 0250 0236 TY A 80.00 EACH \$ 0240 02365 CRASH CUSHION TYPE IX-A 2.00 EACH \$ 0250 02367 GUARDRAIL CONNECTOR TO BRIDGE END	0150	01987		9.00	EACH		\$	
0170 02014 (ADDED: 6-17-2019) 8.00 EACH \$ 0180 0203 JPC PAVEMENT-9 IN/24 250.00 SQYD \$ 0190 02091 REMOVE PAVEMENT 250.00 SQYD \$ 0200 02159 TEMP DITCH 675.00 LF \$ 0210 02160 CLEAN TEMP DITCH 168.75 LF \$ 0220 02165 REMOVE PAVED DITCH 88.00 SQYD \$ 0220 02351 GUARDRAIL-STEEL W BEAM-S FACE 775.00 LF \$ 0260 02360 GUARDRAIL CONNECTOR TO BRIDGE END	0160	02003		3,520.00	LF		\$	
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026002360GUARDRAIL TERMINAL SECTION NO 12.00EACH\$027002363TY ASUOR DRAIL CONNECTOR TO BRIDGE END TY A8.00EACH\$028002365CRASH CUSHION TYPE IX-A2.00EACH\$029002367GUARDRAIL END TREATMENT TYPE 14.00EACH\$030002372REMOVE GUARDRAIL CON TO BR END6.00EACH\$031002381REMOVE GUARDRAIL1,075.00LF\$032002387TY A-12.00EACH\$033002403REMOVE CONCRETE MASONRY134.00CUYD\$034002484CHANNEL LINING CLASS III114.00TON\$035002545APPLIES TO 092B00132L1.00LS\$036002545TEMPORARY SIGNS1,000.00SQFT\$	0240	02351	GUARDRAIL-STEEL W BEAM-S FACE	775.00	LF		\$	
O2363GUARDRAIL CONNECTOR TO BRIDGE END TY A8.00EACH\$02365CRASH CUSHION TYPE IX-A2.00EACH\$029002367GUARDRAIL END TREATMENT TYPE 14.00EACH\$030002372REMOVE GUARDRAIL CON TO BR END6.00EACH\$031002381REMOVE GUARDRAIL1,075.00LF\$032002387TY A-12.00EACH\$033002403REMOVE CONCRETE MASONRY134.00CUYD\$034002484CHANNEL LINING CLASS III114.00TON\$035002545APPLIES TO 092B00132L1.00LS\$037002562TEMPORARY SIGNS1,000.00SQFT\$	0250	02352	GUARDRAIL-STEEL W BEAM-D FACE	275.00	LF		\$	
027002363TY A8.00EACH\$028002365CRASH CUSHION TYPE IX-A2.00EACH\$029002367GUARDRAIL END TREATMENT TYPE 14.00EACH\$030002372REMOVE GUARDRAIL CON TO BR END6.00EACH\$031002381REMOVE GUARDRAIL1,075.00LF\$032002387TY A-12.00EACH\$032002387REMOVE CONCRETE MASONRY134.00CUYD\$034002484CHANNEL LINING CLASS III114.00TON\$035002545APPLIES TO 092B00132L1.00LS\$036002545APPLIES TO 092B00132R1.00LS\$037002562TEMPORARY SIGNS1,000.00SQFT\$	0260	02360	GUARDRAIL TERMINAL SECTION NO 1	2.00	EACH		\$	
029002367GUARDRAIL END TREATMENT TYPE 14.00EACH\$030002372REMOVE GUARDRAIL CON TO BR END6.00EACH\$031002381REMOVE GUARDRAIL1,075.00LF\$032002387GUARDRAIL CONNECTOR TO BRIDGE END TY A-12.00EACH\$033002403REMOVE CONCRETE MASONRY134.00CUYD\$034002484CHANNEL LINING CLASS III114.00TON\$035002545APPLIES TO 092B00132L1.00LS\$036002545CLEARING AND GRUBBING APPLIES TO 092B00132R1.00LS\$037002562TEMPORARY SIGNS1,000.00SQFT\$	0270	02363		8.00	EACH		\$	
030002372REMOVE GUARDRAIL CON TO BR END6.00EACH\$031002381REMOVE GUARDRAIL1,075.00LF\$032002387GUARDRAIL CONNECTOR TO BRIDGE END TY A-12.00EACH\$033002403REMOVE CONCRETE MASONRY134.00CUYD\$034002484CHANNEL LINING CLASS III114.00TON\$035002545APPLIES TO 092B00132L1.00LS\$036002545CLEARING AND GRUBBING APPLIES TO 092B00132R1.00LS\$037002562TEMPORARY SIGNS1,000.00SQFT\$	0280	02365	CRASH CUSHION TYPE IX-A	2.00	EACH		\$	
030002372REMOVE GUARDRAIL CON TO BR END6.00EACH\$031002381REMOVE GUARDRAIL1,075.00LF\$032002387GUARDRAIL CONNECTOR TO BRIDGE END TY A-12.00EACH\$033002403REMOVE CONCRETE MASONRY134.00CUYD\$034002484CHANNEL LINING CLASS III114.00TON\$035002545APPLIES TO 092B00132L1.00LS\$036002545CLEARING AND GRUBBING APPLIES TO 092B00132R1.00LS\$037002562TEMPORARY SIGNS1,000.00SQFT\$	0290	02367	GUARDRAIL END TREATMENT TYPE 1	4.00	EACH			
031002381REMOVE GUARDRAIL1,075.00LF\$032002387GUARDRAIL CONNECTOR TO BRIDGE END TY A-12.00EACH\$033002403REMOVE CONCRETE MASONRY134.00CUYD\$034002484CHANNEL LINING CLASS III114.00TON\$035002545APPLIES TO 092B00132L1.00LS\$036002545CLEARING AND GRUBBING APPLIES TO 092B00132R1.00LS\$037002562TEMPORARY SIGNS1,000.00SQFT\$	0300	02372	REMOVE GUARDRAIL CON TO BR END	6.00	EACH			
032002387TY A-12.00EACH\$033002403REMOVE CONCRETE MASONRY134.00CUYD\$034002484CHANNEL LINING CLASS III114.00TON\$035002545CLEARING AND GRUBBING APPLIES TO 092B00132L1.00LS\$036002545CLEARING AND GRUBBING APPLIES TO 092B00132R1.00LS\$037002562TEMPORARY SIGNS1,000.00SQFT\$	0310			1,075.00	LF			
033002403REMOVE CONCRETE MASONRY134.00CUYD\$034002484CHANNEL LINING CLASS III114.00TON\$035002545CLEARING AND GRUBBING APPLIES TO 092B00132L1.00LS\$036002545CLEARING AND GRUBBING APPLIES TO 092B00132R1.00LS\$037002562TEMPORARY SIGNS1,000.00SQFT\$	0320	02387		2.00	EACH		\$	
034002484CHANNEL LINING CLASS III114.00TON\$035002545CLEARING AND GRUBBING APPLIES TO 092B00132L1.00LS\$036002545CLEARING AND GRUBBING APPLIES TO 092B00132R1.00LS\$037002562TEMPORARY SIGNS1,000.00SQFT\$								
035002545CLEARING AND GRUBBING APPLIES TO 092B00132L1.00LS\$036002545CLEARING AND GRUBBING APPLIES TO 092B00132R1.00LS\$037002562TEMPORARY SIGNS1,000.00SQFT\$TEMPORARY SIGNS1.00LS\$\$								
036002545CLEARING AND GRUBBING APPLIES TO 092B00132R1.00LS\$037002562TEMPORARY SIGNS1,000.00SQFT\$TEMPORARY SIGNSTEMPORARY SIGNS1,000.00SQFT\$			CLEARING AND GRUBBING					
0360 02545 APPLIES TO 092B00132R 1.00 LS \$ 0370 02562 TEMPORARY SIGNS 1,000.00 SQFT \$ TEMPORARY SIGNS TEMPORARY SIGNS 1,000.00 SQFT \$	3000			1.00			¥	
0370 02562 TEMPORARY SIGNS 1,000.00 SQFT \$ TEMPORARY SIGNS	0360	02545		1.00	LS		\$	
	0370		TEMPORARY SIGNS					
	0380	02562		1,192.00	SQFT		\$	

192605

PROPOSAL BID ITEMS

REVISED ADDENDUM #3: 6-19-19 Contract ID: 192605 Page 127 of 128

Report Date 6/19/19

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		Report Date 6/19/19					
LINE	BID CODE	ALT DESCRIPTION MAINTAIN & CONTROL TRAFFIC	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0390	02650	APPLIES TO 092B00072L	1.00	LS		\$	
0400	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO 092B00072R	1.00	LS		\$	
0410	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000130L	1.00	LS		\$	
0420	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000130R	1.00	LS		\$	
0430	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000132L	1.00	LS		\$	
0440	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000132R	1.00	LS		\$	
0450	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000133L	1.00	LS		\$	
0460	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000133R	1.00	LS		\$	
0470	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000134L	1.00	LS		\$	
0480	02650	MAINTAIN & CONTROL TRAFFIC APPLIES TO BRIDGE 092B000134R	1.00	LS		\$	
0490	02671	PORTABLE CHANGEABLE MESSAGE SIGN	6.00	EACH		\$	
0500	02671	PORTABLE CHANGEABLE MESSAGE SIGN (ADDED: 6-17-2019)	8.00	EACH		\$	
0510	02676	MOBILIZATION FOR MILL & TEXT (B000072L) (ADDED: 6-17-2019)	1.00	LS		\$	
0520	02676	MOBILIZATION FOR MILL & TEXT (B000134R) (ADDED: 6-17-2019)	1.00	LS		\$	
0530	02676	MOBILIZATION FOR MILL & TEXT (B00072R) (ADDED: 6-17-2019)	1.00	LS		\$	
0540	02676	MOBILIZATION FOR MILL & TEXT (B00130L) (ADDED: 6-17-2019)	1.00	LS		\$	
0550	02676	MOBILIZATION FOR MILL & TEXT (B00130R) (ADDED: 6-17-2019)	1.00	LS		\$	
0560	02676	MOBILIZATION FOR MILL & TEXT (B00132L)	1.00	LS		\$	
0570	02676	MOBILIZATION FOR MILL & TEXT (B00132R)	1.00	LS		\$	
0580	02676	MOBILIZATION FOR MILL & TEXT (B00133L) (ADDED: 6-17-2019)	1.00	LS		\$	
0590	02676	MOBILIZATION FOR MILL & TEXT (B00133R) (ADDED: 6-17-2019)	1.00	LS		\$	
0600	02676	MOBILIZATION FOR MILL & TEXT (B00134L) (ADDED: 6-17-2019)	1.00	LS		\$	
0610	02677	ASPHALT PAVE MILLING & TEXTURING	596.00			\$	
0620	02677	ASPHALT PAVE MILLING & TEXTURING (ADDED: 6-17-2019)	2,686.00			\$	
0630	02696	SHOULDER RUMBLE STRIPS	1,632.00			\$	
0640	02696	SHOULDER RUMBLE STRIPS (ADDED: 6-17-2019)	8,680.00			\$	
0650	02703	SILT TRAP TYPE A	6.00	EACH		\$	
0660	02704	SILT TRAP TYPE B	2.00	EACH		\$	
0670	02705	SILT TRAP TYPE C		EACH		\$	
0680	02706	CLEAN SILT TRAP TYPE A	6.00	EACH		\$	
0690	02707	CLEAN SILT TRAP TYPE B	2.00	EACH		\$	
0700	02708	CLEAN SILT TRAP TYPE C	2.00	EACH		\$	

PROPOSAL BID ITEMS

Page 3 of 4

UNIT UNIT PRIC FP AMOUNT

Report Date 6/19/19

QUANTITY

934.00 SQYD

3,232.00 SQYD

\$

\$

-	DID CODE		QUANTITI		••	AMOONT
)	02726	STAKING (B00132L)	1.00	LS	\$	
)	02726	STAKING (B00132R)	1.00	LS	\$	
,)	02775	ARROW PANEL		EACH	Ψ \$	
)	02775	ARROW PANEL (ADDED: 6-17-2019)		EACH	\$	
)	02898	RELOCATE CRASH CUSHION (ADDED: 6-17-201)	1.00	EACH	\$	
)	02898	RELOCATE CRASH CUSHION (ADDED: 6-17-2019)	7.00	EACH	\$	
)	02998	MASONRY COATING	1,999.00	SQYD	\$	
)	03171	CONCRETE BARRIER WALL TYPE 9T (ADDED: 6-17-2019)	3,560.00	LF	\$	
)	03293	EXPAN JOINT REPLACE 1 IN	424.00	LF	\$	
)	03294	EXPAN JOINT REPLACE 1 1/2 IN	170.00	LF	÷	
)	03298	EXPAN JOINT REPLACE 4 IN	68.00	LF	÷	
)	03299	ARMORED EDGE FOR CONCRETE	815.60	LF	÷	
)	04933	TEMP SIGNAL 2 PHASE	2.00	EACH	\$	
)	05950	EROSION CONTROL BLANKET	2,420.00	SQYD	\$	
)	05952	TEMP MULCH	1,613.00	SQYD	\$	
)	05953	TEMP SEEDING AND PROTECTION	1,210.00	SQYD	\$	
)	05963	INITIAL FERTILIZER	.30	TON	\$	
)	05964	MAINTENANCE FERTILIZER	.20	TON	\$	
)	05989	SPECIAL SEEDING CROWN VETCH	290.00	SQYD	\$	
)	05992	AGRICULTURAL LIMESTONE	.10	TON	\$	
)	06511	PAVE STRIPING-TEMP PAINT-6 IN	15,500.00	LF	\$	
)	06542	PAVE STRIPING-THERMO-6 IN W	3,023.00	LF	\$	
)	06543	PAVE STRIPING-THERMO-6 IN Y	2,181.00	LF	\$	
)	06549	PAVE STRIPING-TEMP REM TAPE-B (ADDED: 6-17-2019)	13,900.00	LF	\$	
)	06550	PAVE STRIPING-TEMP REM TAPE-W (ADDED: 6-17-2019)	30,850.00	LF	\$	
)	06551	PAVE STRIPING-TEMP REM TAPE-Y (ADDED: 6-17-2019)	28,410.00	LF	\$	
)	06556	PAVE STRIPING-DUR TY 1-6 IN W	2,115.00	LF	\$	
)	06557	PAVE STRIPING-DUR TY 1-6 IN Y	1,672.00	LF	\$	
)	06568	PAVE MARKING-THERMO STOP BAR-24IN	51.00	LF	\$	
)	06574	PAVE MARKING-THERMO CURV ARROW		EACH	\$	
)	08020	CRUSHED AGGREGATE SLOPE PROT	261.00	TON	\$	
)	08100	CONCRETE-CLASS A		CUYD	\$	
)	08104	CONCRETE-CLASS AA		CUYD	\$	
)	08150	STEEL REINFORCEMENT	31,312.00	LB	\$	
)	08150	STEEL REINFORCEMENT (ADDED: 6-17-2019)	2,400.00	LB	\$	
)	08151	STEEL REINFORCEMENT-EPOXY COATED	102,979.00	LB	\$	
)	08301	REMOVE SUPERSTRUCTURE APPLIES TO 092B00132L	1.00	LS	\$	
)	08301	REMOVE SUPERSTRUCTURE APPLIES TO 092B00132R	1.00	LS	\$	

EPOXY SAND SLURRY

(REVISED: 6-19-19)

REM EPOXY BIT FOREIGN OVERLAY

LINE BID CODE

ALT DESCRIPTION

PROPOSAL BID ITEMS

REVISED ADDENDUM #3: 6-19-19 Contract ID: 192605 Page 128(a) of 128

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Report Date 6/19/19

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC FP AMOUNT
1110	08526	CONC CLASS M FULL DEPTH PATCH	31.30	CUYD	\$
1120	08534	CONCRETE OVERLAY-LATEX	166.00	CUYD	\$
1130	08549	BLAST CLEANING	6,460.00	SQYD	\$
1150	08669	PRECAST PC BOX BEAM SB21	1,014.50	LF	\$
1160	08903	CRASH CUSHION TY VI CLASS BT TL3 (ADDED: 6-17-2019)	8.00	EACH	\$
1170	20071EC	JOINT ADHESIVE	3,332.00	LF	\$
1180	20099ES842	PAVE MARK TEMP PAINT STOP BAR (ADDED: 6-17-2019)	160.00	LF	\$
1190	20191ED	OBJECT MARKER TY 3	4.00	EACH	\$
1200	21451ED	FILL AND GRADE MEDIAN	500.00	LF	\$
1210	23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	76.00	LF	\$
1220	23032EN	BRIDGE BARRIER RETROFIT	1,084.00	LF	\$
1230	23265ES717	PAVE MARK TY 1 TAPE STOP BAR-24 IN	69.00	LF	\$
1240	23331EC	EPOXY-URETHANE WATERPROOFING	20,644.00	SQFT	\$
1250	23949EC	BRIDGE CLEANING & PREVENTIVE MAINTENANCE APPLIES TO 092B00072L	1.00	LS	\$
1260	23949EC	BRIDGE CLEANING & PREVENTIVE MAINTENANCE APPLIES TO 092B00072R	1.00	LS	\$
1270	23949EC	BRIDGE CLEANING & PREVENTIVE MAINTENANCE APPLIES TO 093B00133L	1.00	LS	\$
1280	23949EC	BRIDGE CLEANING & PREVENTIVE MAINTENANCE APPLIES TO 093B00133R	1.00	LS	\$
1290	24094EC	PARTIAL DEPTH PATCHING	9.00	CUYD	\$
1300	24489EC	INLAID PAVEMENT MARKER	42.00	EACH	\$
1310	24894EC	REMOVE REMOVE FLUME - APPLIES TO 092B00132L	1.00	EACH	\$
1320	24894EC	REMOVE REMOVE FLUME - APPLIES TO 092B00132R	1.00	EACH	\$
1330	24970EC	ASPHALT MATERIAL FOR TACK NON- TRACKING	3.00	TON	\$
1340	24970EC	ASPHALT MATERIAL FOR TACK NON- TRACKING (ADDED: 6-17-2019)	3.40	TON	\$
1350	25025ED	THRIE BEAM GUARDRAIL TRANSITION TL-3	6.00	LF	\$
1360	25028ED	RAIL SYSTEM SINGLE SLOPE - 40 IN	518.00	LF	\$
1370	40030	TEMPORARY SILT FENCE	1,210.00	LF	\$

Section: 0002 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1380	02569		DEMOBILIZATION	1.0	0 LS		\$	

192605

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS WESTERN KENTUCKY PARKWAY OHIO COUNTY BRIDGE REHABILITATION

MP 69.73 - WKP OVER LEWIS CREEK - 092B00134L/R MP 72.42- WKP OVER KY 369 - 092B00133L/R MP 76.74 - WKP OVER NATCHER PARKWAY - 092B00072L/R MP 85.76 - WKP OVER KY 2713 - 092B00130L/R

TABLE OF CONTENTS

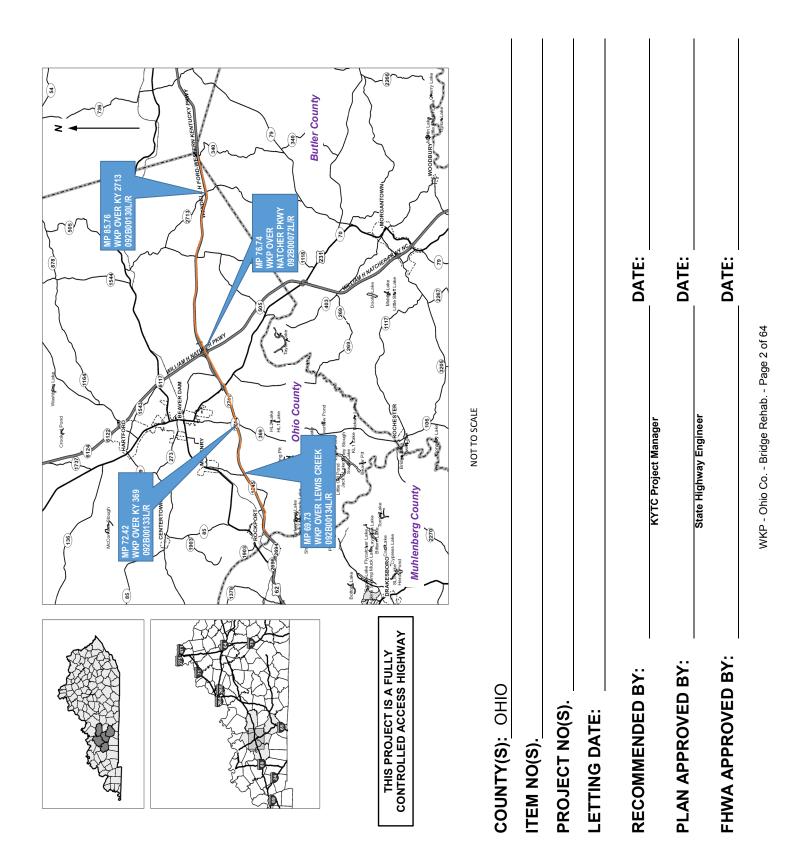
LAYOUT SHEET LIST OF STANDARD DRAWINGS REFERENCES BRIDGE SUMMARY BRIDGE PLANS AND DETAILS APPLICABLE STANDARD DRAWING SEPIA SHEETS APPLICABLE SPECIAL NOTES

> Prepared By: WSP USA INC. 1792 ALYSHEBA WAY LEXINGTON, KY 40509 859-272-5400

> > April 26, 2019

WKP - Ohio Co. - Bridge Rehab. - Page 1 of 64

ADDED ADDENDUM #1: 6-5-19 Contract ID: 192605 Page 2 of 64



STANDARD DRAWINGS WKP - OHIO COUNTY - BRIDGE REHABILITATION PAGE 1 OF 1

APPLICABLE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD DRAWINGS - CURRENT EDITIONS:

- TTC-120 LANE CLOSURE MULTI-LANE HIGHWAY CASE II
- TTC-160 TEMPORARY PAVEMENT MARKER ARRANGEMENTS FOR LANE CLOSURES
- RBM-020 DELINEATORS FOR CONCRETE BARRIERS
- BJE-001 NEOPRENE EXPANSION DAMS AND ARMORED EDGE

APPLICABLE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD DRAWING SEPIAS (ATTACHED):

- 013 GUARDRAIL CONNECTOR TO BRIDGE END TYPE A AND A-1 COMPONENTS
- 015 GUARDRAIL CONNECTOR TO BRIDGE END TYPE A
- 016 GUARDRAIL CONNECTOR TO BRIDGE END TYPE A-1
- 027 STEEL BEAM GUARDRAIL "W" BEAM
- 028 STEEL GUARDRAIL POSTS

REFERENCES WKP - OHIO COUNTY - BRIDGE REHABILITATION PAGE 1 OF 1

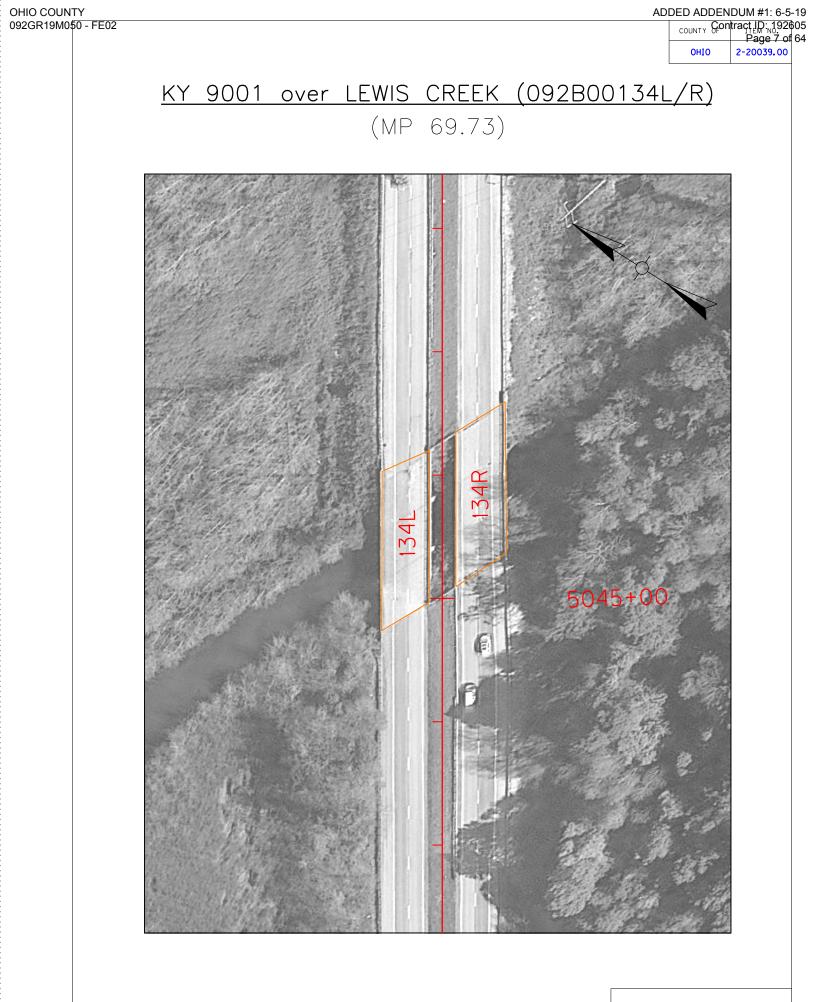
- 1. KENTUCKY TRANSPORTATION CABINET, DEPARTMENT OF HIGHWAYS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
- 2. FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION WITH REVISIONS.
- 3. APPLICABLE KENTUCKY DEPARTMENT OF HIGHWAYS SUPPLEMENT SPECIFICATIONS (ATTACHED):
 - SPCL. NOTE 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR BRIDGE DECKS
 - SPCL. NOTE REPLACING EXPANSION DAMS AND/OR INSTALLING ARMORED EDGES FOR CONCRETE BRIDGES
 - SPCL. NOTE BRIDGE CLEANING AND PREVENTATIVE MAINTENANCE: BEARING CLEANING AND LUBRICATING
 - SPCL. NOTE BRIDGE BARRIER RETROFIT
 - SPCL. NOTE BRIDGE RESTORATION AND WATERPROOFING WITH CONCRETE OVERLAYS
 - SPCL. NOTE REPLACING COMPRESSION SEAL IN EXISTING EXPANSION JOINT
 - SPCL. NOTE BRIDGE DEMOLITION, RENOVATION AND ASBESTOS ABATEMENT

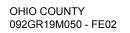
				B	RIDGE S	BRIDGE SUMMARY	7					
			WESTEF	RN KENT	UCKY PA	ERN KENTUCKY PARKWAY - OHIO COUNTY	- OHIO C	OUNTY				
								-	QUANTITIES	ES		
				MP 69.73 WKP	9.73 (P	MP 72.42 WKP	2.42 P	MP 76.74 WKP	6.74 (P	MP 85.76 WKP	ί5.76 (Р	
BID CODE	ITEM	NOTE	UNIT	OVER LEWIS CREEK	ER CREEK	OVER KY 369	ER 69	OVER NATCHER PKWY.	ER ? PKWY.	OVER KY 2713	ER 1713	TOTAL
				092B00134L/R	134L/R	092B00133L/R	133L/R	092B00072L/R	072L/R	092B00130L/R	130L/R	
			•	B	WB	B	WB	EB	WB	EB	WB	1
				2	_	¥	_	R	_	R	_	
2363	GUARD. CONN. TO BRIDGE END TY A		EACH					2	2			4
2372	REMOVE GUARDRAIL CON TO BR END	5	EACH	•				3	3		•	9
2387	GUARD. CONN. TO BRIDGE END TY A-1		EACH	•	-			1	1	-	-	2
2998	MASONRY COATING		SQ. YD.	•	•	•	•	260	260	•	•	520
3293	EXPAN JOINT REPLACE 1 IN	-	LIN. FT.	92	92	34	34			86	86	424
3294	EXPAN JOINT REPLACE 1.5 IN	-	LIN. FT.	•	•			85	85	•	•	170
3298	EXPAN JOINT REPLACE 4.0 IN	1	LIN. FT.	•		34	34	-	-		•	68
3299	ARMORED EDGE FOR CONCRETE		LIN. FT.	92	92	67	67	85	85	86	86	660
6556	PAVE STRIPING-DUR TY 1-6 IN W		LIN. FT.	162.5	162.5	232.5	232.5	312.5	312.5	150.0	150.0	1715.0
6557	PAVE STRIPING-DUR TY 1-6 IN Y		LIN. FT.	130.0	130.0	186.0	186.0	250.0	250.0	120.0	120.0	1372.0
8504	EPOXY SAND SLURRY		SQ. YD.	60	60	249	249	100	100	58	58	934
8510	REM EPOXY BIT FOREIGN OVERLAY		SQ. YD.	507	507	619	619	1147	1147	490	490	5,526
8526	CONC CLASS M FULL DEPTH PATCH	3	CU. YD.	2.8	2.8	6.3	2.8	5.6	2.8	4.4	3.8	31.3
8534	CONCRETE OVERLAY-LATEX		CU. YD.	28.2	28.2	34.4	34.4	'	'	20.4	20.4	166.0
8549	BLAST CLEANING		SQ. YD.	567	567	868	868	1247	1247	548	548	6,460
8551	MACHINE PREP OF SLAB		SQ. YD.	507	507	619	619	1147	1147	490	490	5,526
23032EN	BRIDGE BARRIER RETROFIT		LIN. FT.	'				542	542	'		1,084
23331EC	EPOXY-URETHANE WATERPROOFING		SQ. FT.			1		10322	10322	'		20,644
23949EC	BRIDGE CLEANING AND PREV. MAINT.	4	LS	'	'	-	1	1	1	ı	1	1
24094EC	PARTIAL DEPTH PATCHING	2	CU. YD.	0.8	0.8	1.0	1.0	1.9	1.9	0.8	0.8	9.0
NOTES:												

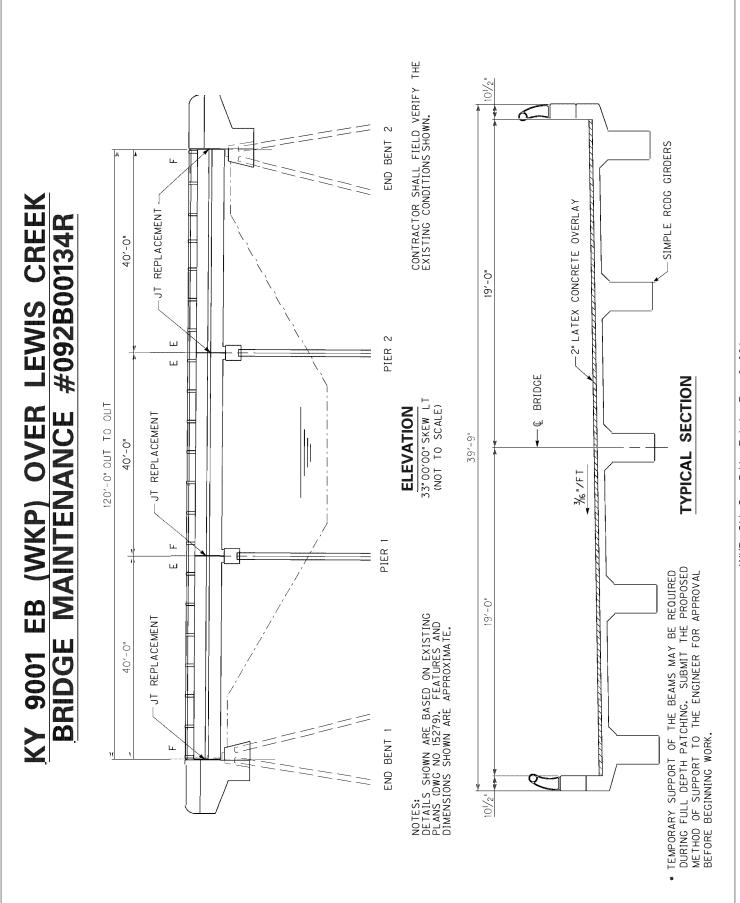
EXPANSION JOINT REPLACEMENT SIZE BASED ON EXISTING PLANS. CONTRACTOR SHALL FIELD VERIFY JOINT SEAL WIDTH BEFORE ORDERING MATERIAL PARTIAL DEPTH QUANTITY IS BASED ON APPROXIMATE ESTIMATE OF 0.50% OF THE OVERALL OVERLAY AREA.

- FULL DEPTH CONCRETE PATCHING QUANTITY BASED ON VISUAL INSPECTION + 25%. -. v. v. 4.
- BRIDGE CLEARNING & PREVENTATIVE MAINTENANCE CORRESPONDS TO THE CLEANING AND LUBRICATION OF ALL MOVEABLE BEARINGS. SEE THE SPECIAL NOTE FOR BEARING CLEARNING AND LUBRICATION. SHALL INCLUDE REMOVAL OF 25' OF GUARDRAIL.
 - <u>ю</u>.

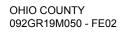
MP 69.73 WKP OVER LEWIS CREEK 092B00134L/R

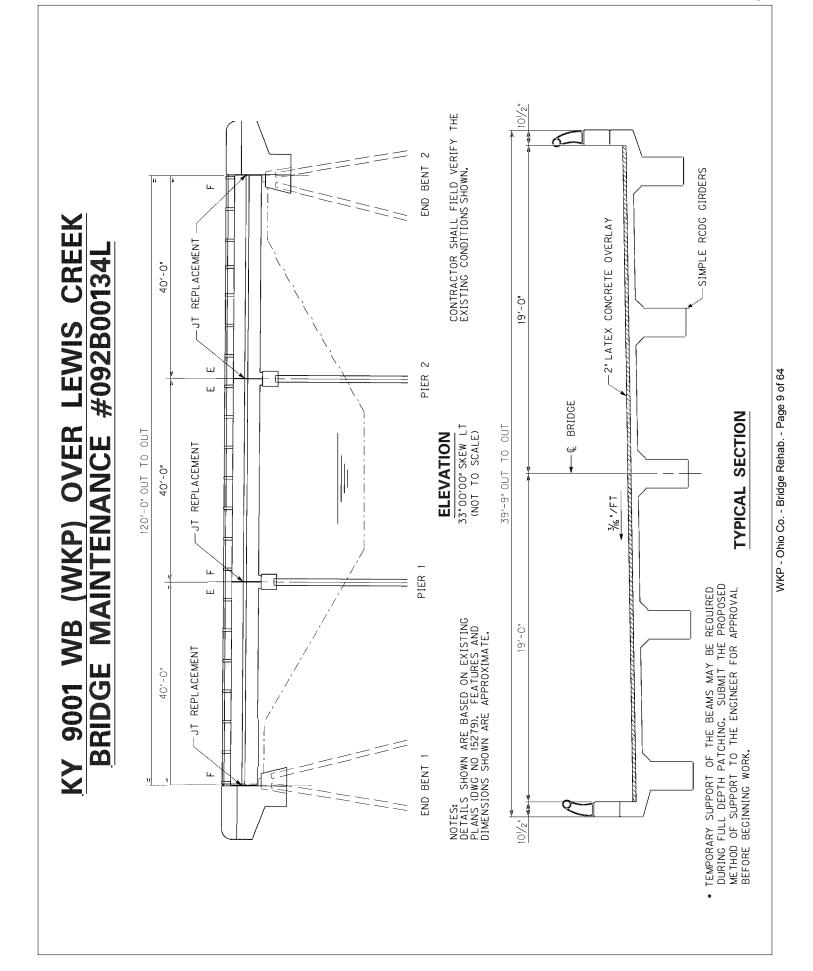


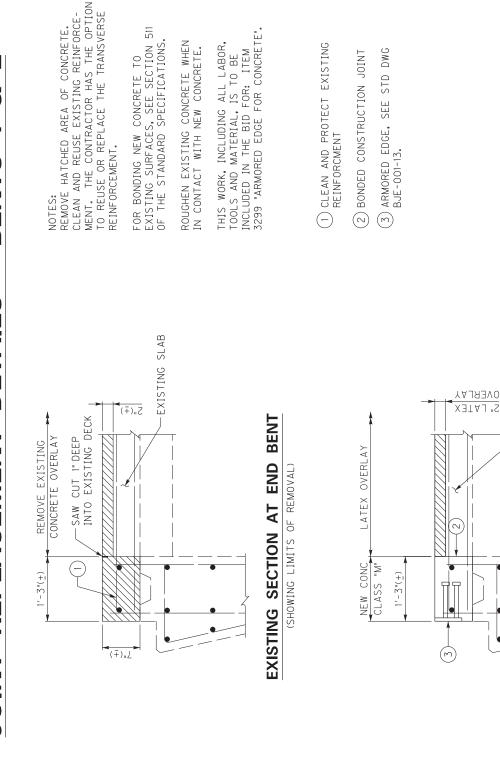




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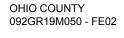


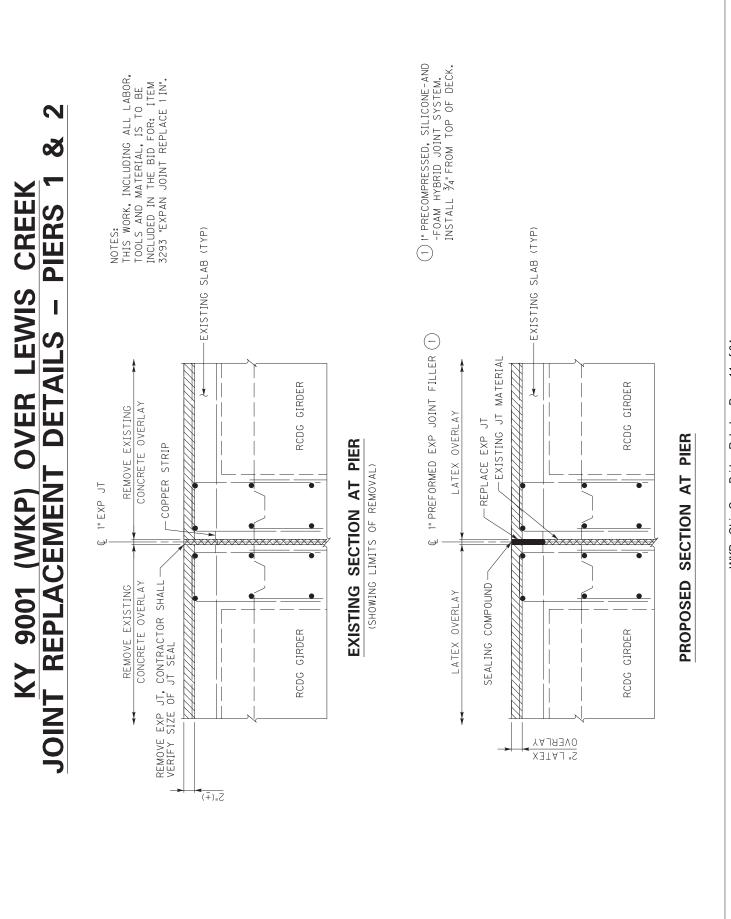
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PROPOSED SECTION AT END BENT

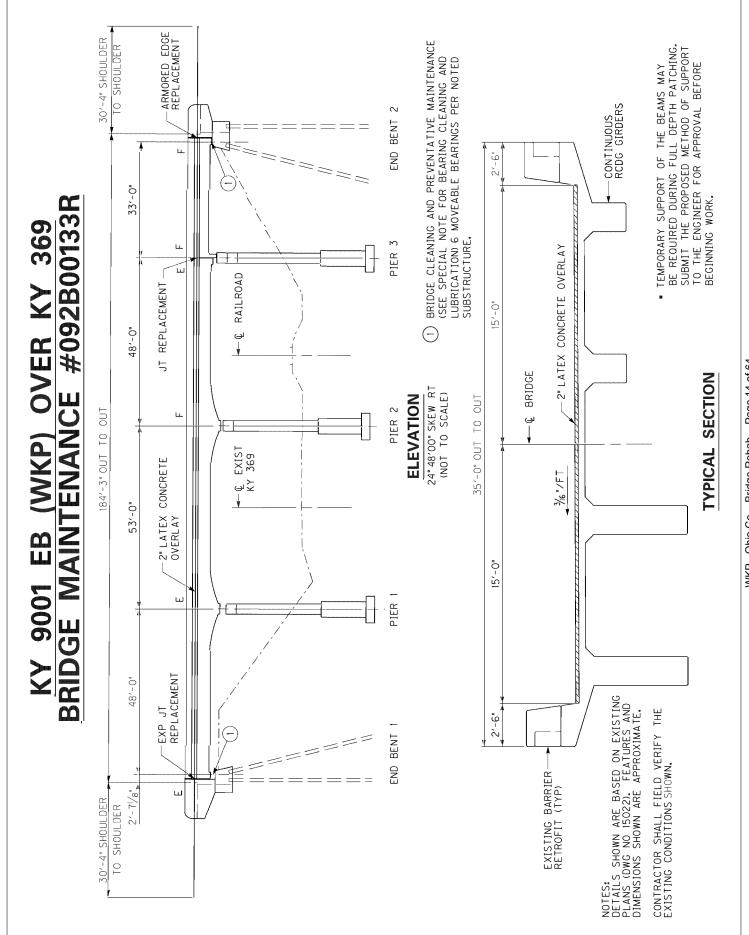
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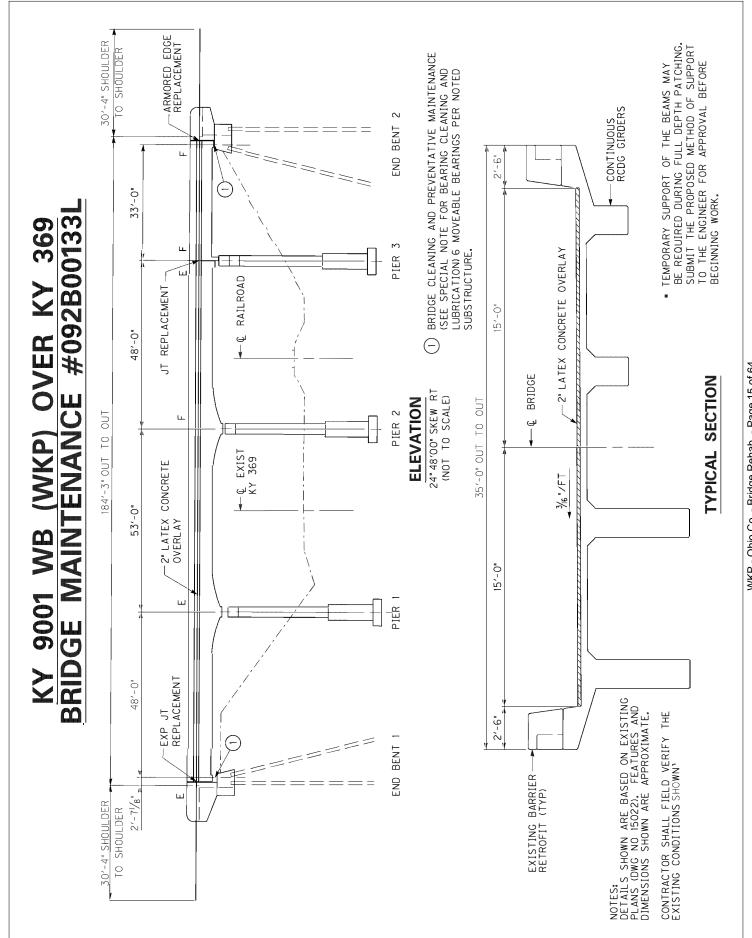




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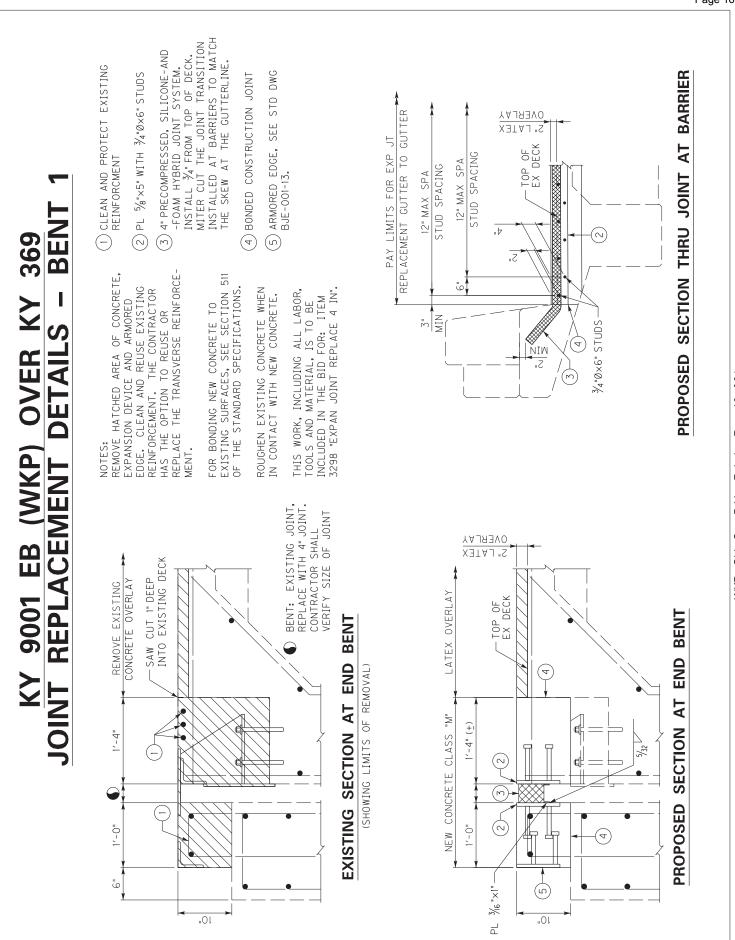


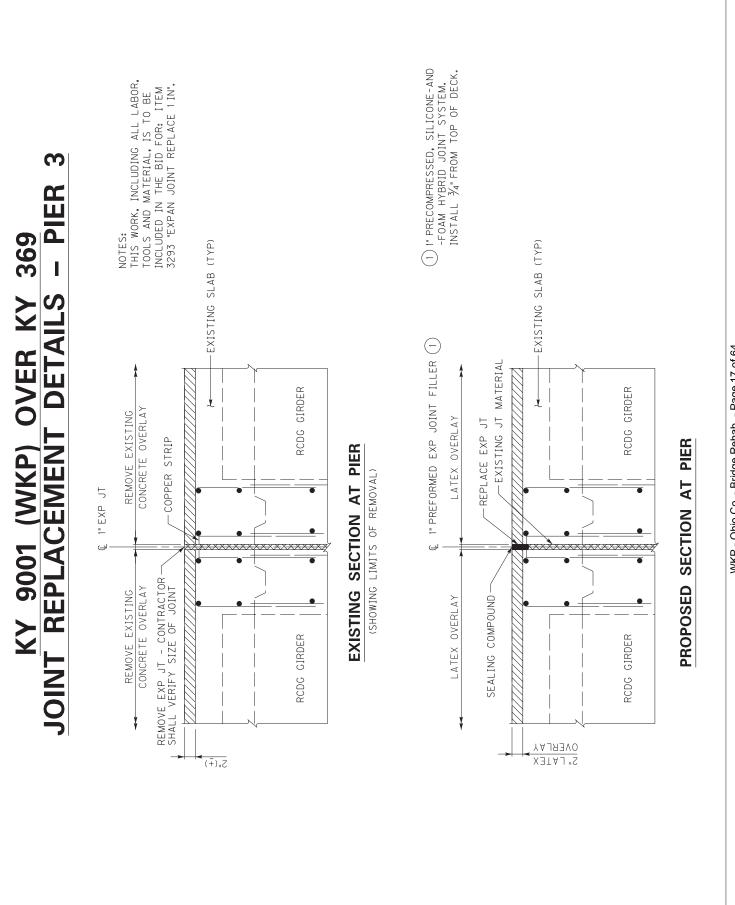




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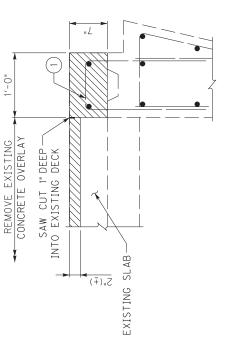
ADDED ADDENDUM #1: 6-5-19 Contract ID: 192605 Page 15 of 64





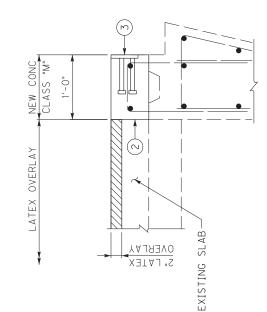
PROPOSED SECTION AT END BENT











NOTES: REMOVE HATCHED AREA OF CONCRETE. CLEAN AND REUSE EXISTING REINFORCE-MENT. THE CONTRACTOR HAS THE OPTION TO REUSE OR REPLACE THE TRANSVERSE REINFORCEMENT.

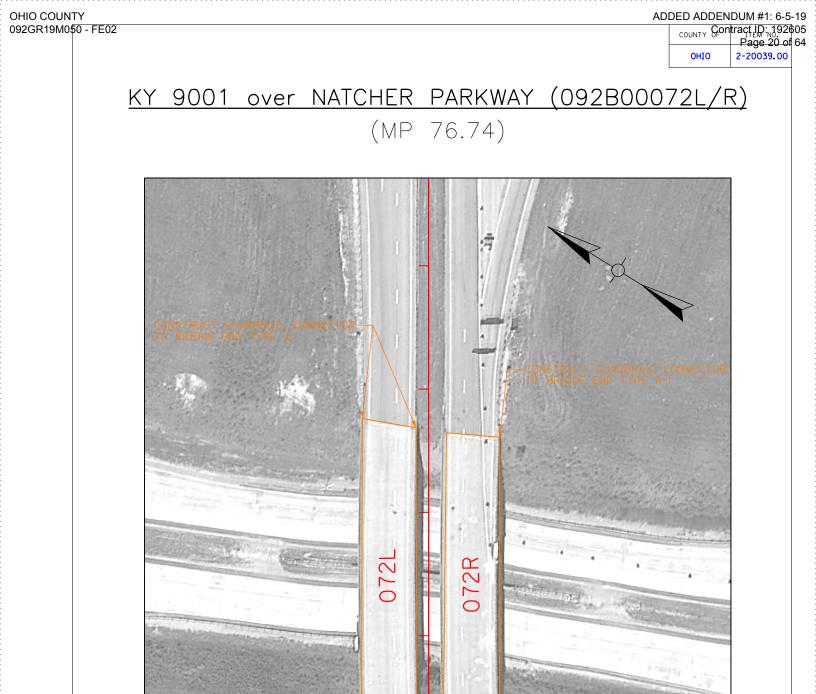
FOR BONDING NEW CONCRETE TO EXISTING SURFACES, SEE SECTION 511 OF THE STANDARD SPECIFICATIONS.

ROUGHEN EXISTING CONCRETE WHEN IN CONTACT WITH NEW CONCRETE.

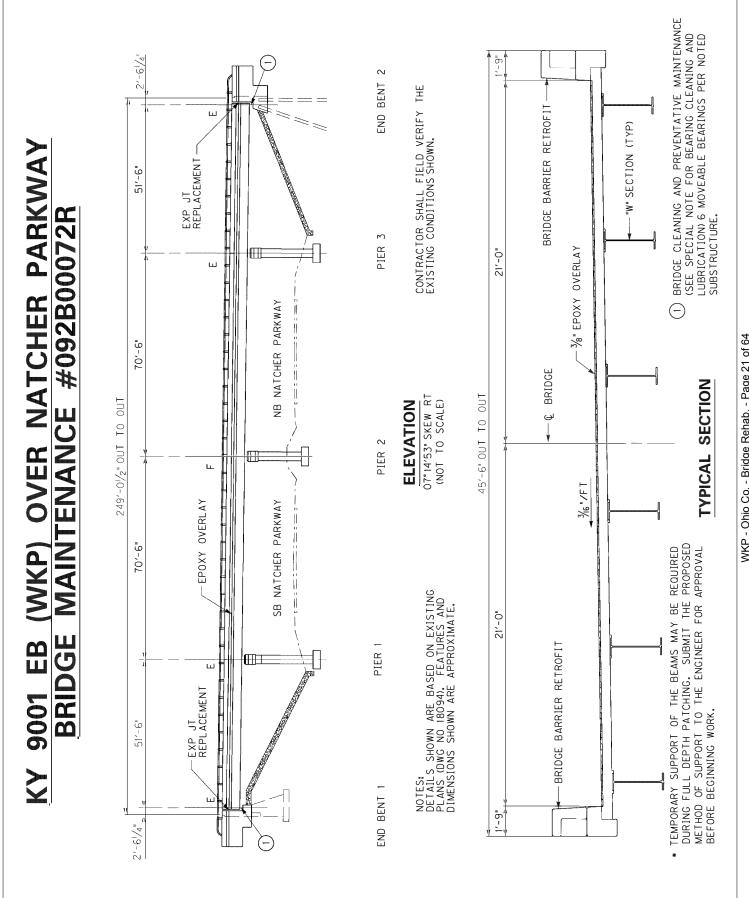
THIS WORK, INCLUDING ALL LABOR, TOOLS AND MATERIAL, IS TO BE INCLUDED IN THE BID FOR: ITEM 3299 "ARMORED EDGE FOR CONCRETE".

- (1) CLEAN AND PROTECT EXISTING REINFORCMENT
- 2 BONDED CONSTRUCTION JOINT
- (3) ARMORED EDGE, SEE STD DWG BJE-001-13.

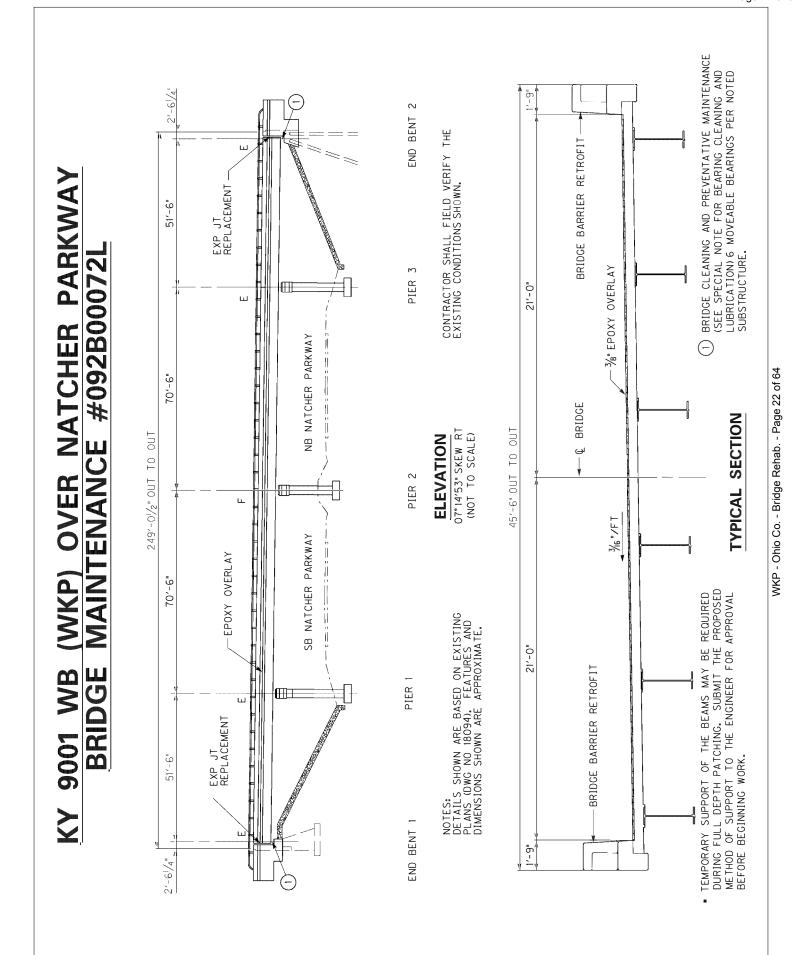
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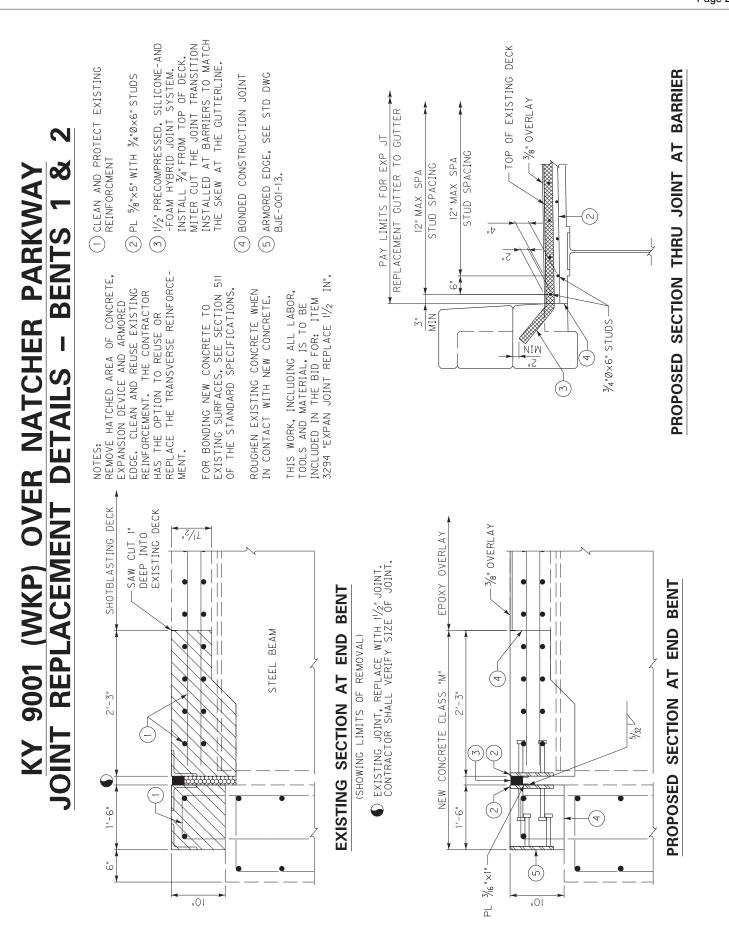


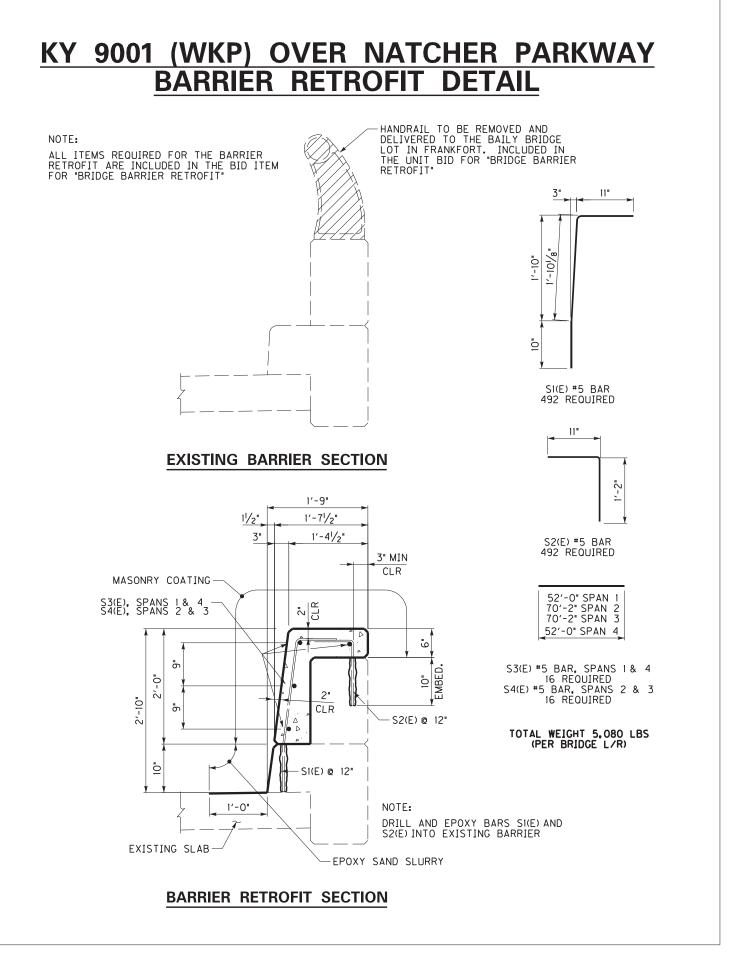
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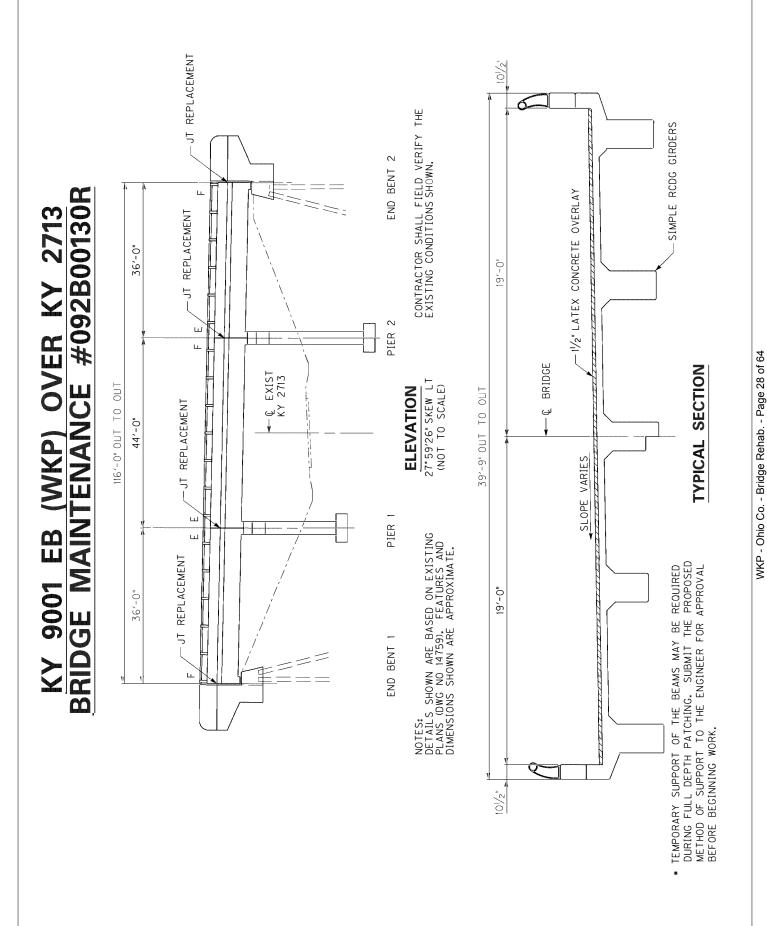


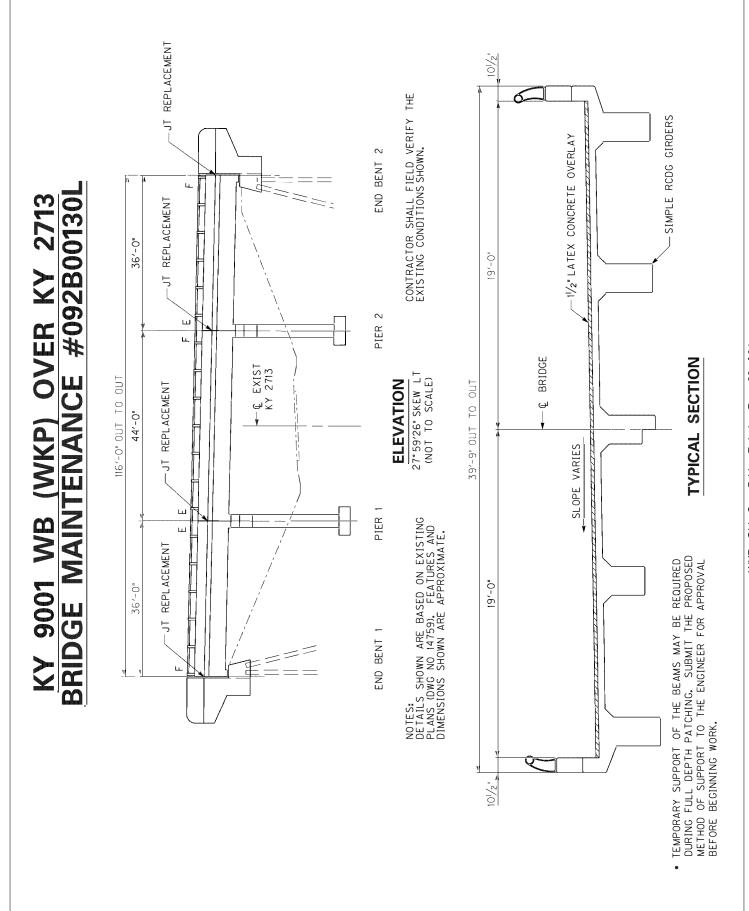


KY 9001 (WKP) OVER NATCHER PARKWAY BARRIER RETROFIT DETAIL AT WING HANDRAIL TO BE REMOVED AND DELIVERED TO THE BAILY BRIDGE LOT IN FRANKFORT. NOTE: ALL ITEMS REQUIRED FOR THE BARRIER RETROFIT ARE INCLUDED IN THE BID ITEM FOR "BRIDGE BARRIER RETROFIT" VARIES 9" ~ 1'-10" 1'-107 REMOVE THIS SECTION OF EXISTING BARRIER 0 KEEP EXISTING STIRRUP BARS, CLEAN AND PREPARE FOR REUSE. S5(E) #5 BAR 52 REQUIRED 9" **EXISTING BARRIER SECTION** ā à VARIES 1'-9" TO 1'-2" S6(E) #5 BAR 52 REQUIRED VARIES 2" TO 9" 1'-0" 3" CLR MASONRY COATING-S7(E)-12'-2" ~ С S7(E) #5 BAR D 24 REQUIRED FIELD BEND TOTAL WEIGHT 679 LBS PER BRIDGE L/R ō AS REQUIRED ō 2 à 2'-10" CLR σ Δ D S6(E)@ 12" 0 S5(E) @ 12" NOTE: EPOXY SAND SLURRY -DRILL AND EPOXY BARS S5(E) AND S6(E) INTO EXISTING BARRIER **BARRIER RETROFIT SECTION**

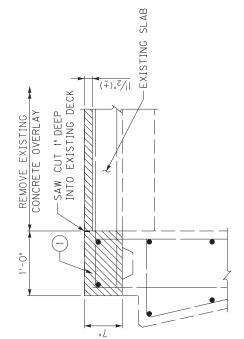
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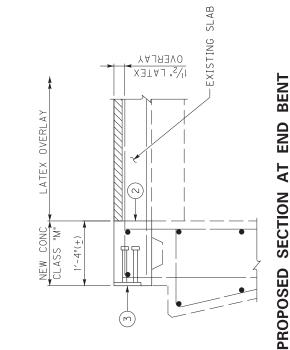




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EXISTING SECTION END BENT (SHOWING LIMITS OF REMOVAL)



NOTES: REMOVE HATCHED AREA OF CONCRETE. CLEAN AND REUSE EXISTING REINFORCE-MENT. THE CONTRACTOR HAS THE OPTION TO REUSE OR REPLACE THE TRANSVERSE REINFORCEMENT.

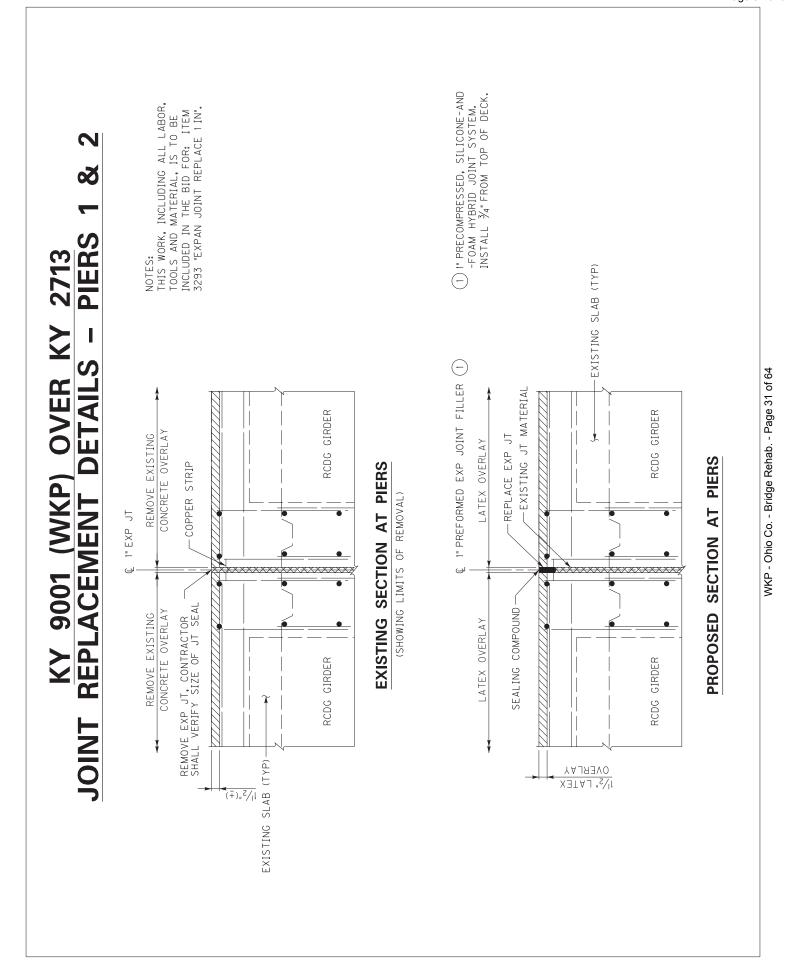
FOR BONDING NEW CONCRETE TO EXISTING SURFACES, SEE SECTION 511 OF THE STANDARD SPECIFICATIONS.

ROUGHEN EXISTING CONCRETE WHEN IN CONTACT WITH NEW CONCRETE. THIS WORK, INCLUDING ALL LABOR, TOOLS AND MATERIAL, IS TO BE INCLUDED IN THE BID FOR: ITEM 3299 "ARMORED EDGE FOR CONCRETE".

CLEAN AND PROTECT EXISTING REINFORCMENT 2 BONDED CONSTRUCTION JOINT

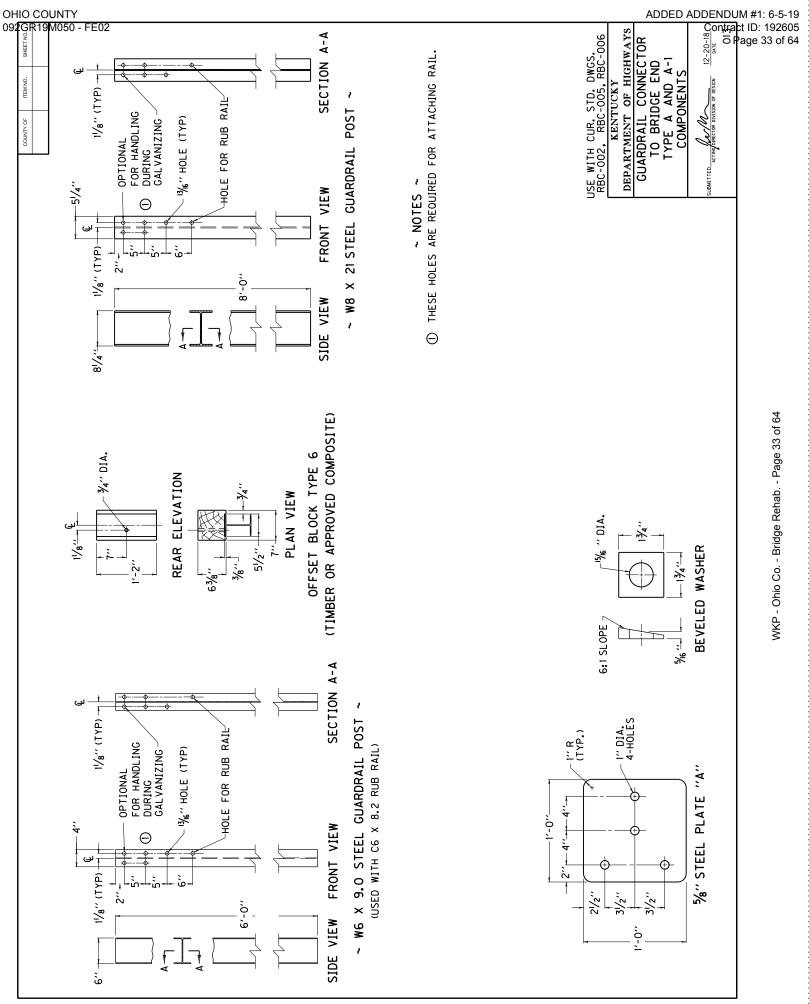
(3) ARMORED EDGE, SEE STD DWG BJE-001-13.

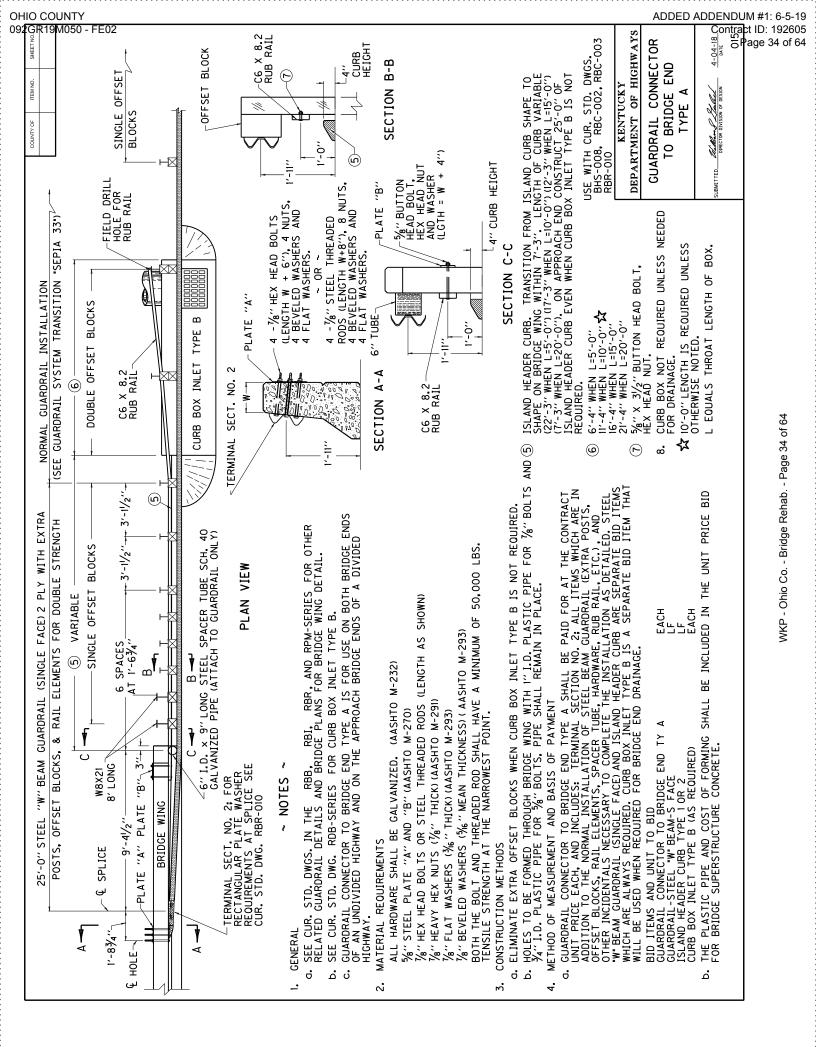
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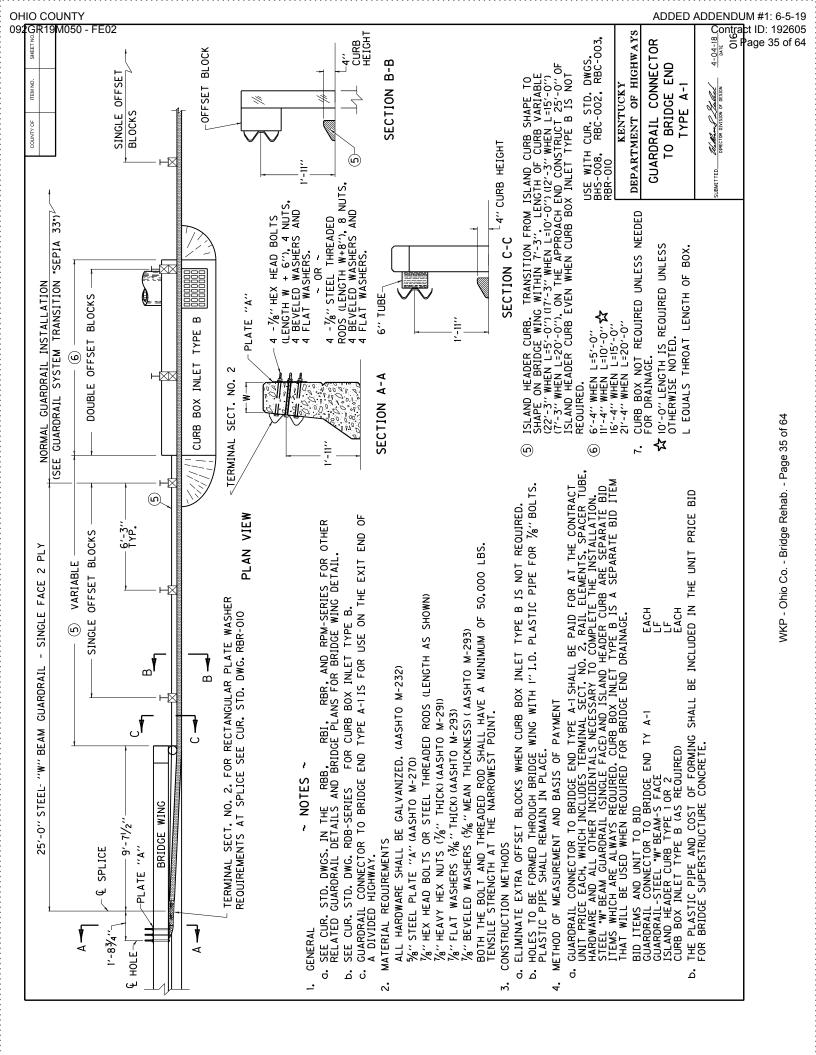


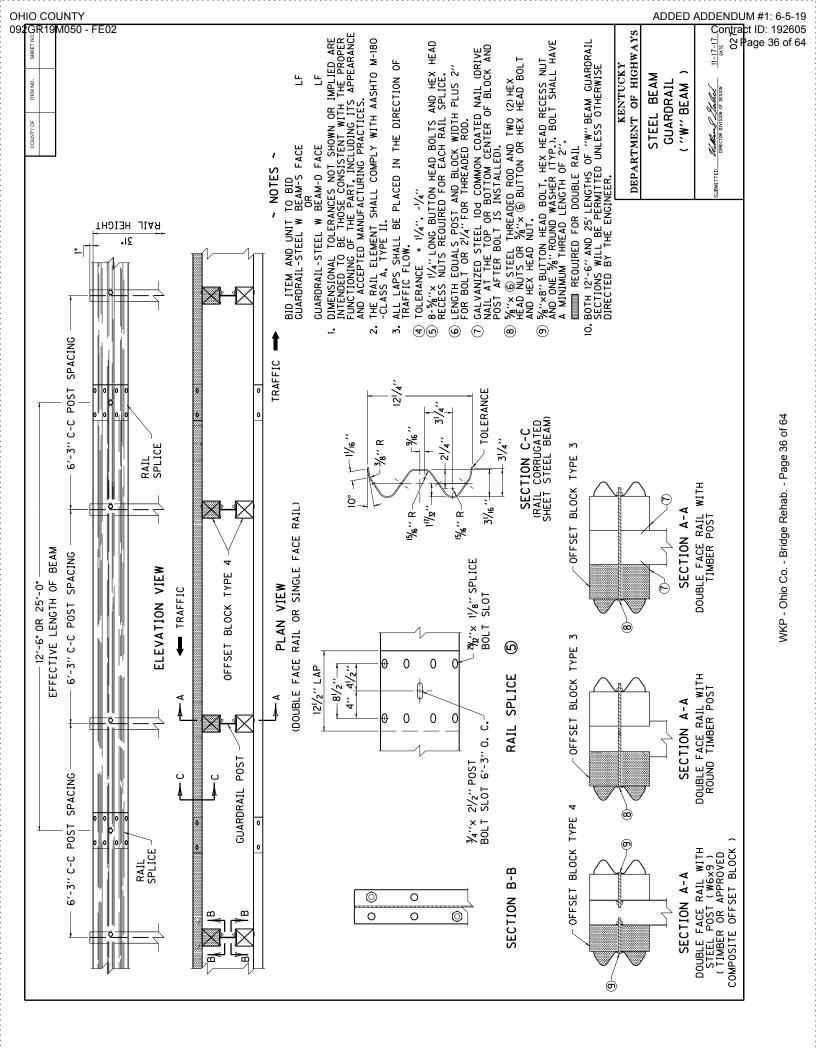
ADDED ADDENDUM #1: 6-5-19 Contract ID: 192605 Page 32 of 64

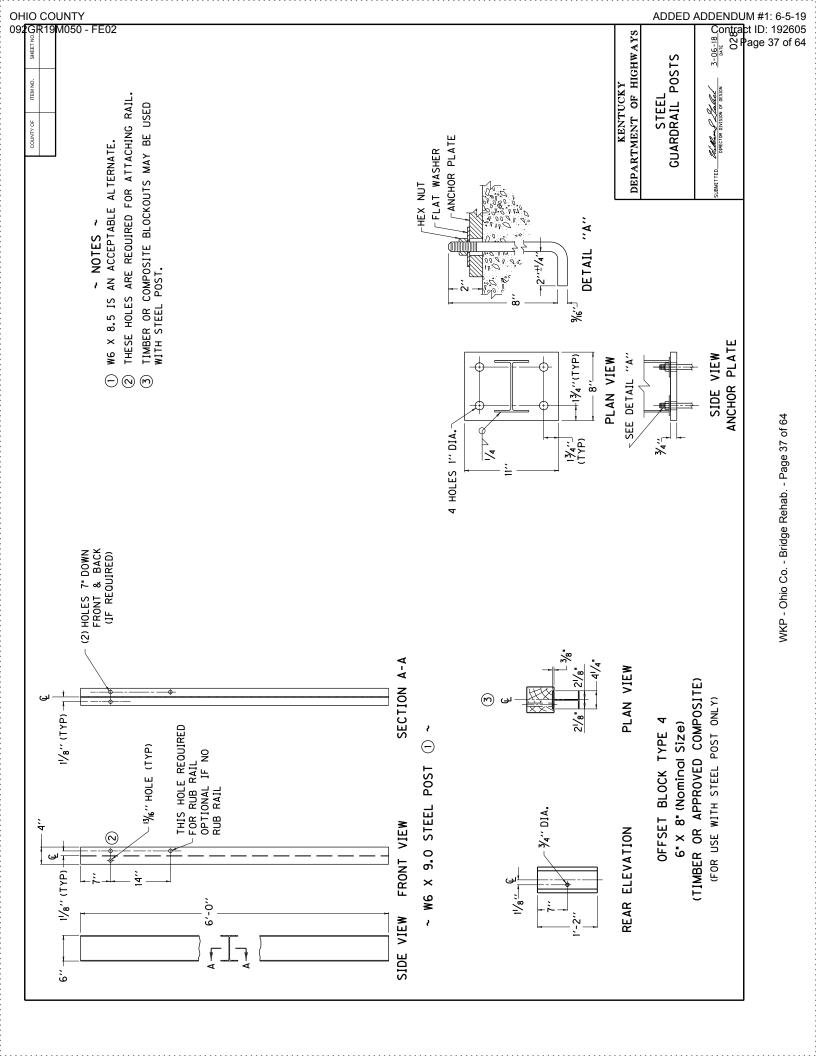
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SPECIAL NOTES

SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR BRIDGE DECKS

I. DESCRIPTION

This specification describes the Pre-treatment and Overlay consisting of multiple layers of hybrid polymer systems and a special blend of extremely hard aggregate designed to provide a minimum of a 3/8" thick application for the purpose of complete waterproofing as well as providing a non-skid surface to withstand continuous heavy traffic and extreme changes in weather conditions. Unless otherwise noted, Section references herein are to the Department's Standard Specifications for Road and Bridge Construction. All applicable portions of the Department's Standard Specifications apply unless specifically modified herein.

II. MATERIALS

A. Pre-Treatment

1. Hairline Cracks

- a) This two part hybrid polymer shall be free of any fillers, volatile solvents and shall be formulated to provide simple volumetric ratio of two components such as one to one or two to one by volume.
- b) This hybrid polymer system shall be formulated to provide a unique combination of extremely low viscosity and low surface tension coupled with a built-in affinity for concrete and steel.

2. Partial Depth Patching (if necessary)

- a) Class "M" Concrete. Use either "M1" or "M2". See Section 601.
- 3. Overlay
 - a) The two-part epoxy-urethane co-polymer system shall be free of any fillers volatile solvents and shall be formulated to provide simple volumetric mixing ratio of two components such as one to one or two to one by volume.
 - b) The epoxy-urethane co-polymer system shall be formulated to provide flexibility in the system without any sacrifice of the hardness, chemical resistance or strength of the epoxy-urethane copolymer system. Use of external/conventional flexibilizers are not acceptable. Flexibility shall be introduced by interaction of elastomers to chemically link in the process of curing so that the flexibility of the molecule is least affected during the low temperature conditions that are confronted in actual use.

4. Material Requirements of Epoxy Overlay

a) Physical Requirements of Cured Pretreatment for Cracks System. When Components A and B are mixed in the appropriate ratio, the cured resin shall conform to the requirements of Table 1. (Test methods are discussed in detail in Item III of this specification.)

TABLE 1				
PHYSICAL PROPERTIES OF THE CURED SYSTEM				
Property	Value			
Compressive Strength, min. psi	5000			
Tensile Strength, min. psi	2500			
Tensile Elongation, percent	$25^{\pm}5$			
Water Absorption, percent by wt. max.	0.5%			
Shore D hardness, 25°C (77°F)	$70^{\pm}5$			
Gel Time, minutes	48-52 (100gms)			
Adhesion to Concrete	100% failure in concrete			
Percent Solids	100			

 b) Physical requirements of Epoxy-Urethane Copolymer Overlay System. When Components A and B are mixed in the appropriate ratio, the cured resin shall conform to the requirements of Table 2. (Test methods are discussed in detail in Item III of this specification.)

TABLE 2				
PHYSICAL PROPERTIES OF THE CURED SYSTEM				
Property	Value			
Compressive Strength, min. psi	6000			
Tensile Strength, min. psi	2000			
Tensile Elongation, percent	$30^{\pm}10$			
Water Absorption, percent by wt. max.	0.5%			
Shore D hardness, 25°C (77°F)	$70^{\pm}5$			
Gel Time, minutes	25-31 (100gms)			
Abrasion Resistance, mg., max.	85			
Adhesion to Concrete	100% failure in concrete			
Flexural Yield Strength, min. psi	5000			
Percent Solids	100			

c) Visco-Elastic Properties of Epoxy-Urethane Copolymer system. The modulus of the cured epoxy-urethane system determined by variable temperature Dynamic Mechanical Analysis (DMA) using DMA instruments and according to ASTM D4065-95, shall conform to the following minimum values as given in Table 3.

TABLE 3				
VISCO-ELASTIC PROPERTIES OF THE CURED SYSTEM				
	Storage Modulus	Loss Modulus		
Temperature	Dynes/Sq.Cm.	Dynes/Sq.Cm.		
-10°C	$1 \ge 10^9$	$7 \ge 10^7$		
20°C	$6 \ge 10^8$	$7 \ge 10^7$		
50°C	$4 \ge 10^7$	$2 \ge 10^7$		
60°C	$1 \ge 10^{7}$	$5 \ge 10^6$		
70°C	$6 \ge 10^6$	1 x		

d) The tests shall be conducted at a frequency of 1 Hz with a 0.3% strain in accordance with the guidelines described in the testing equipment manual.

e) e. Load Bearing Capabilities. The cured epoxy-urethane system must exhibit the following load bearing capacity. At approximately 20% strain, the polymer shall retain at least 85% of its original load bearing strength (tensile stress) as per ASTM D-638.

5. Material Provider

The bridge deck restoration system shall be provided by the following Manufacturer or an approved equivalent.:

POLY-CARB, INC., Pretreatment: MARK-135 Overlay: MARK-163 FLEXOGRID 33095 Bainbridge Road Solon, Ohio 44139 (440) 248-1223

6. Aggregate

- a) Aggregate used for all layers shall be non-friable, non-polishing, clean and free from surface moisture. It shall be durable and sound and have a proven record of performance in applications of this type. The aggregate shall be 100 percent fractured, thoroughly washed and kiln dried to a maximum moisture content of 0.2 percent by weight, measured in accordance with ASTM C566. The fracture requirements shall be at least one mechanically fractured face and will apply to materials retained on U.S. No. 10 sieve. The recommended sources of aggregate are Washington Stone or Oklahoma Flint.
- b) Aggregate for all layers shall have a minimum Mohs scale hardness of 6.5.
- c) The grading of the aggregate shall conform to the requirements of Table 4.

TABLE 4			
AGGREGATE GRADATION			
Sieve Size	Percent Passing		
No. 6	60 - 100		
No. 10	0 - 40		
No. 20	0 - 10		

d) Thermoplastic. Conform to Section 837.

III. METHOD OF TESTING

A. Tests shall be conducted in accordance with the following methods:

- Compressive Strength: ASTM C109, Compressive Strength of Hydraulic Cement Mortars. The two components of the resin are to be thoroughly mixed in their appropriate ratios. Two volumes of graded silica sand in accordance with ASTM C778 shall be added to one volume of mixed resin. The samples shall then be prepared according to the requirements of ASTM C109 and allowed to cure for 7 days at 23 ± 2°C.
- Tensile Strength and Elongation: ASTM D638, Tensile Properties of Plastics, Specimen Type I or Type II. Samples shall be cured at 23 ± 2°C (73.4 ± 3.6°F) and 50 ± 5% relative humidity. Speed of testing shall be at 0.5 in./min.
- Water Absorption: ASTM D570, Water Absorption of Plastics. Sample specimens shall be prepared according to section 4.1 and allowed to cure at 23 ± 2°C (73.4 ± 3.6°F) and 50 ± 5% relative humidity. Tests are then to be carried out as per section 6.1.
- Shore D Hardness: ASTM D2240, Rubber Property Durometer Hardness. Specimen shall be prepared as per ASTM D570 section 4.1 and allowed to cure at 23 ± 2°C (73.4 ± 3.6°F).
- 5. **Gel Time:** The following procedure shall be used to determine gel time. Measure 4 oz. of Part A and 2 oz. of Part B each at 25° C (77°F), into an unwaxed paper cup and record the time and mix immediately. 100 gms of this mixture shall be poured into a 6 oz. unwaxed paper cup and placed on a wooden bench top. Starting twenty minutes from the time recorded above, the mixture shall be probed every two minutes with a small stick until a small ball forms in the center of the container. The total time, including mixing, required for the ball to form shall be regarded as the gel time. The test shall be performed in a room or enclosed area maintained at $25 \pm 2^{\circ}$ C (77 $\pm 3.6^{\circ}$ F) and $50 \pm 5\%$ relative humidity.

- 6. **Abrasion Resistance:** ASTM C501, Test Method for Relative Resistance to Wear of Unglazed Ceramic Tile by the Taber Abrader. Tests shall be done using a CS-17 wheel and a 1,000-gram load for 1,000 cycles.
- 7. Adhesion to Concrete: ACI-503-R; Pull Out Test.
- 8. Flexural Yield Strength: ASTM D-790.
- 9. DMA: ASTM D-4065-95

IV. CONSTRUCTION PRACTICE

A. Surface Preparation

- 1. Perform partial depth patching in accordance with the requirements of Section 606.03.06. All patching materials shall be in accordance with the requirements of Section 601 and be free of Magnesium Phosphate.
- 2. Patching shall be scheduled so that the bridge can be open to traffic during all non-working hours.
- 3. Polymer patching system such as POLY-CARB, Inc.'s MARK-120 is recommended for shallow and partial depth repair. Completion of Partial Depth Patching including removal of concrete, cleaning, and placing the material will not be measured for payment and shall be considered incidental to "Epoxy-Urethane Waterproofing Overlay". The pay item includes additional quantity for partial depth patching.
- 4. The entire concrete deck shall be cleaned by shotblasting to remove any oil, dirt, rubber or any other potentially detrimental material such as curing compound and laitances which, in the Manufacturer and Engineer's opinion, would prevent proper bonding to and curing of the material.
- 5. In areas that the shotblasting equipment cannot reach (i.e., along curbs and median walls) or cannot remove (linemarking, asphalt, etc.), sandblasting and walk behind grinders are permitted to an extent satisfactory to the Manufacturer and Engineer. This should be performed prior to the shotblasting whenever applicable and practical.
- 6. Steel surfaces such as expansion joints, sidewalks, steel grids and steel plate to be treated with the restoration system, shall be shot or sand blasted clean to SSPC-SP-6 standards.
- 7. The overlay application equipment is allowed to drive on the deck surface during application provided precautions have been taken to ensure that the deck surface will not become contaminated. For any reason traffic is to be allowed on the deck after surface preparation, or between layers, a visual inspection by the Manufacturer and state Engineer will be required to determine if additional surface preparation is needed before applying material.

- 8. All surfaces to be treated shall be dry at the time of application. Immediately before the application of any liquids, all prepared surfaces shall be cleaned with compressed air (or vacuumed) to remove dust and debris.
- 9. The application of the system shall not be made when it has rained 24 hours before application or rain is forecast (greater than 50%) within eight hours after application or as determined by the Manufacturer (fog and high humidity will not impede the application of or affect the performance of the overlay). If waiting for 24 hours is impractical, then the moisture content in concrete substrate shall not exceed 4.5% when measured by an electronic moisture meter. Any exception shall be determined by the moisture content in the deck which shall not exceed 75% of air entrainment in the mix design.
- 10. The minimum recommended temperature in which the system shall be applied is 50°F and rising. All applications at temperatures below 50°F shall require prior written approval from the Manufacturer.

B. Application of Overlay System

- 1. The Manufacturer of the epoxy-urethane overlay material shall have a representative on the jobsite at all times who, upon consultation with the Engineer, may suspend any item of work that is suspect and does not meet the requirements of this specification. Resumption of work will occur only after the Manufacturer's representative and the Engineer are satisfied that appropriate remedial action has been taken by the Contractor.
- 2. The overlay shall be applied on all deck areas using metering, mixing and distribution machinery owned and operated by the Manufacturer of the epoxy-urethane overlay system. The application machine shall feature positive displacement volumetric metering pumps controlled by a hydraulic power unit. Components A and B shall be stored in temperature controlled reservoirs capable of maintaining 100°F + 10°F to insure optimum mixing. Ratio check verification at the pump outlets as well as cycle counting capabilities to monitor output will be standard features. In line mixing shall be motionless so as to not overly shear the material or entrap air in the mix. The machine shall also make maximum use of the working time of the material to insure proper "wetting" of the system by mixing it immediately prior to dispensing onto the deck.

- 3. The number of layers (a minimum of three) and the application rates of the liquid in the various layers shall be as recommended by the Manufacturer in order to achieve an average overlay thickness of 3/8".
- 4. Hand mixing of material is not permitted.
- 5. Application of Pre-treatment Crack Filling (First Layer) Application of the Liquid: After mechanically measuring and mixing of the components, the liquid shall be evenly distributed on the clean, dry deck surface at the rate/process recommended by the Manufacturer. The overlay application equipment may drive on this layer (prior to being cured) when applying the overlay system. If the overlay application is going to be applied after 6-8 hrs of the pretreatments application, a medium size coarse silica sand shall be broadcasted evenly into the pre- treatment system (prior to it curing) as directed by the Manufacturer.
- 6. Overlay (Second and Third Layers) Application of Liquid: Prior to the application, if there exists any excess or loose aggregate from the previous coat, such excess aggregate shall be completely removed by vacuum or with compressed air. After mixing of the components via the mechanical application equipment, the liquid shall be evenly distributed on the clean, dry deck surface at the rate recommended by the Manufacturer.
- 7. After the application of the liquid in the second and third coats, the maximum time allowed before broadcasting of the aggregate is as follows:

Above 90°F	 10 minutes
$80^{\circ}F$ to $90^{\circ}F$	 15 minutes
70° F to 80° F	 20 minutes
60°F to 70°F	 25 minutes
50° F to 60° F	 35 minutes

- 8. No vehicle shall be allowed on the overlay during the curing period.
- 9. Broadcasting on decks shall be by truck-mounted equipment capable of dispensing the aggregate onto the deck in a uniform manner as directed or otherwise approved by the Manufacturer of the epoxy-urethane overlay.

- 10. The aggregate shall be broadcast as described below such that to cover the surface so that no wet spots appear and before the co-polymer begins to gel (see section 3.1.5). The aggregate must be dropped vertically in such a manner that the level of the liquid is not disturbed.
 - a) In the second and third layers of FLEXOGRID (or approved equivalent) liquid aggregate conforming to table 4 shall be broadcast to saturation.
- 11. Removal of Excess Aggregate: After the overlay has hardened, removal of all loose and excess aggregate with a power vacuum or other method shall be made prior to the application of subsequent coat.
- 12. Joints in the Overlay: (i.e., between two adjacent lanes) shall be staggered and overlapped between successive coats so that no ridges will appear.
- 13. Traffic may be allowed on the final layer (or in between layers) after the resin has cured (as determined by the Manufacturer) and after removal of all excess, loose aggregate.

V. STORAGE AND HANDLING

- A. Liquid Material: All material shall be transported and stored in their original containers inside a dry, temperature controlled facility and maintained at a minimum temperature of 60°F and not to exceed 120°F.
- **B.** Job Site Storage: The materials shall be stored on the jobsite in a dry, weather protected facility away from moisture and within the temperature range of 60°F to 90°F. When the materials are transported or stored on the job in the application machine tanks, the material must also be maintained at a temperature of 60°F to 90°F. Outdoor storage is permitted with Manufacturer's approval.
- **C. Handling of Liquid Materials on the Job:** Protective gloves, clothing, and goggles shall be provided to workers and inspectors directly exposed to the material if required. Product safety data sheets shall be provided to all workers and inspectors as obtained from the Manufacturer.
- D. Packing Requirement: All materials must be packaged in strong, substantial containers. The containers shall be identified as Part A and Part B and shall be plainly marked with the name and address of the Manufacturer, name of the product, mixing proportions and instructions, lot and batch numbers, date of manufacture, and quantity contained therein.
- E. Aggregate: All aggregate shall be stored in a dry, moisture-free atmosphere. The aggregate shall be fully protected from any contaminants on the jobsite and shall be stored so as not to be exposed to rain or other moisture sources.

VI. SAMPLING AND ACCEPTANCES

- **A. Product Acceptance:** The Manufacturer of the system shall provide evidence offield performance, lab performance with infrared spectra in order to obtain state approval of the overlay system for use on the project:
 - 1. **Independent Lab Performance.** A nationally recognized independent lab must verify that the material:
 - a) Has the capability of preventing the ingress of essentially all the chloride ions into the concrete at 1" depth when tested according to NCHRP-244 method.
 - b) Has the capability to de-activate the existing chloride ions present in the concrete specimen so that the corrosion of steel rebar embedded in the concrete stop corroding.
 - c) When tested as per Tables 1, 2 and 3, fully comply with the test results specified for cured system.
 - 2. **Infrared Spectrograph:** In addition to the initial certification process each Manufacturer shall furnish the state an infrared spectrum of each component of system for its permanent record and for individual installation verification.
 - 3. **Field Performance:** The selected material must have verifiable satisfactory performance of at least five (5) years in the state of Kentucky and a minimum of twelve (12) years in three neighboring states with comparable weather conditions.
- **B.** Certification for Compliance: At the pre-construction conference, the Contractor shall notify the state project Engineer of the source of material.
 - Independent Test Lab Report: Test results certified and verified by a
 nationally recognized independent testing laboratory verifying properties of
 the cured system as per Table 1, 2 & 3 shall be submitted to the Engineer for
 approval prior to the bid opening. This certification shall be provided on each
 lot number to be used on the project.
 - 2. **Infrared Spectra:** Infrared spectra of each component from each lot number (to be used on the project) shall be submitted with the independent lab certification.
 - 3. **Test Sample for DOT Laboratory:** The Manufacturer shall furnish at least a one-quart sample of each component from each lot to the DOT laboratory to verify material supplied by the Manufacturer. Material shall be taken at job site.

C. Performance Acceptance

- 1. Thickness Verification: The state shall be notified of the number of gallons used on the project with two notarized statements one from the Contractor and one from the Manufacturer. In addition, the Contractor shall verify to the State that the overlay is an average of at least 3/8" thick at three random locations agreed upon by the state Engineer and material Manufacturer representative. If 3/8" average is not achieved, a retest shall be performed in adjoining areas. Thin areas shall be re-coated as described above by the Contractor and re-verified at no additional cost to the State. This verification may consist of cores, holes, etc., but in all cases, any destructively tested areas shall be repaired by the Contractor before final acceptance by the Engineer.
- 2. **Performance Guarantee:** The epoxy-urethane co-polymer Manufacturer and the Contractor, by acceptance of the work described in this specification, jointly agree to guarantee the wearing surface against all defects incurred during normal traffic use for a period of five (5) years. The guarantee period shall commence on the date of acceptance of the work, usually the date the final layer of the overlay has been applied and cured. The guarantee covers all labor and materials required to satisfactorily repair or replace the wearing surface. Manufacturer will be responsible for integrity of warranty and will be removed from QPL if warranty repair not upheld within timely manner.

VII. MEASUREMENT

- **A. Epoxy-Urethane Waterproofing Overlay.** The Department will measure the square feet of overlay application.
- B. Shotblasting: The Department will measure "Blast Cleaning" in Square Yard. The Department will only measure this quantity once for any area to be shotblast. Additional blast cleaning to meet the requirements of this note shall be performed at the Contractor's expense.
- **C. Partial Depth Patching.** The Department will measure the concrete necessary for partial depth patches in cubic yards.
- D. Thermoplastic Pavement Markings. See Section 714.

VIII. PAYMENT

A. Epoxy-Urethane Waterproofing Overlay. The Department will pay for the measured quantities at the Contract unit bid price for "Epoxy-Urethane Waterproofing". -Urethane Waterproofing Overlay. The Department will measure the square feet of overlay application.

- **B. Shotblasting.** The payment at the contract unit price for the pay item "Blast Cleaning" shall include all labor, equipment and material needed to complete the task as described in paragraphs 4.1.4 and 4.1.5.
- **C. Partial Depth Patching.** The payment at the contract unit price, if necessary, shall include all labor, equipment and material needed to complete this task. The Department will not measure material removal, forming, blast cleaning, or retying steel reinforcement in the patches and will consider this work incidental to the pay item "Partial Depth Patching."
- D. Thermoplastic Pavement Markings. See Section 714.

SPECIAL NOTE FOR REPLACING EXPANSION DAMS AND/OR INSTALLING ARMORED EDGES FOR CONCRETE BRIDGES

I. DESCRIPTION

Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's Current Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawings. Section references are to the Standard Specifications. This work consists of the following:

- Furnish all labor, materials, tools, and equipment
- Remove existing concrete and expansion devices and/or bridge ends
- Install armored edges and new concrete as specified and in accordance with the attached detail drawings
- Install new joint seals (where required)
- Maintain and control traffic
- Any other work specified as part of this Contract.

II. MATERIALS

- A. Class "M" Concrete. Use either "M1" or "M2". See Section 601.
- B. Structural Steel. Use new, commercial grade steel suitable for welding. The Engineer will base acceptance on visual inspection. See Standard Drawing BJE-001, current edition, for armored edges. See Manufacturer's specifications for "Armored Edges on Strip Seal Expansion Dams".
- **C. Stud Anchors.** The armored edge stud anchors are ³/₄" x 6" embedded stud shear connectors conforming to ASTM A108, Grade 1015 (Nelson Studs or equal).
- D. Steel Reinforcement Epoxy Coated. Use Grade 60. See Section 602.
- E. Epoxy Bond Coat. See Section 511.
- F. Pre-Compressed Horizontal Expansion Joint System. It shall have a cellular or micro-cell, polyurethane foam impregnated with hydrophobic acrylic emulsion, or a hydrophobic polymer. The polyurethane foam external facing shall be factory coated and cured with highway-grade, fuel resistant silicone or a highway-grade elastomeric coating at a width greater than the maximum joint expansion.

III. EQUIPMENT

- A. Hammers. See Section 606.02.10 B.
- **B.** Sawing Equipment. See Section 606.02.10 C.
- C. Hydraulic Impact Equipment. See Section 606.02.10 D.

IV. CONSTRUCTION

A. Remove Existing Materials. Remove the existing expansion dam/bridge end and specified areas of concrete as shown on the attached sketches. Remove debris and/or expansion joint filler as directed by the Engineer.

When deteriorated concrete adjacent to the limits of removal is encountered, extend the removal area as directed by the Engineer. Dispose of all removed material entirely away from the job site. Clean and leave all existing steel reinforcement encountered in place. Damaged steel reinforcement will be repaired/replaced as directed by the Engineer at no additional cost to the Department. This work is incidental to the Contract unit price for "Expansion Joint Replacement" or "Armored Edge for Concrete".

B. Place New Concrete and Armored Edges. After all specified existing materials have been removed; place new armored edges to match the grade of the proposed overlay or to match the original grade (See attached detail drawings). Place the new Class "M" Concrete to the scarified grade and finish to receive the new overlay or place the new Class "M" Concrete to the original grade and finish with broom strokes drawn transversely from curb to curb (See attached detail drawings).

All new structural steel shall be cleaned and painted in accordance with requirements of Section 607.03.23 except that surfaces to come in contact with concrete are not to be painted.

Blast clean all areas of existing concrete and structural steel to come in contact with new concrete until free of all laitance and deleterious substances immediately prior to the placement of the Class "M" Concrete. The surface areas of existing concrete to come in contact with the new Class "M" Concrete are to be coated with an epoxy bond coat immediately prior to placing new concrete in accordance with Section 511. The interfaces of the new and old concrete shall be as nearly vertical and horizontal as possible. C. Additional Steel Reinforcement. Furnish for this work, as directed by the Engineer, steel reinforcement as shown in the attached detail drawings. Splice these bars to the existing reinforcement in the deck in the areas of removed concrete as shown in the attached detail drawings or as directed by the Engineer. Ensure that all exposed steel reinforcement is tied in accordance with Section 602.03.04 prior to pouring the new Class "M" Concrete. Field cutting and bending is permitted. Do not place any additional steel reinforcement above the height of the top row of Nelson studs on the armored edges.

Reinforcement, bar splices, and mechanical connectors are incidental to the Contract unit price for "Expansion Joint Replacement" or "Replace Armored Edge".

- D. Stage Construction. Install concrete and armored edges in two (or more if specified) stages as necessary. Join the armored edges at or near the centerline of the roadway or lane line, field weld, and grind smooth.
- E. **Pre-Compressed Horizontal Expansion Joint System.** System shall be supplied in pre-compressed sticks for easy installation. System shall be installed in accordance with Manufacturer's recommendations concerning approved adhesives, welds between sticks and appurtenances, and adhesion to concrete deck or armored edges. Joint seal is to be installed ³/₄" recessed from the surface.
- F. Shop Plans. Shop Plans will <u>not</u> be required. The Contractor is responsible for obtaining field measurements and supplying properly sized materials to complete the work.

V. MEASUREMENT

- A. Expansion Joint Replacement 1", 1½", 2" and 2½". The Department will measure the quantity in linear feet from gutterline to gutterline along the centerline of the joint.
- **B. Longitudinal Joint Replacement –1".** The Department will measure the quantity in linear feet from abutment to abutment along the centerline of the joint.
- **C. Armored Edge for Concrete.** The Department will measure the quantity in linear feet from gutterline to gutterline along the face of the bridge end.

VI. PAYMENT

A. Expansion Joint Replacement – 1", 1½", 2" and 2½". Payment at the Contract unit price per linear foot is full compensation for removing specified existing materials, furnishing and installing the new armored edges, concrete, reinforcement, precompressed joint seal, and all incidental items necessary to complete the work as specified by this Note and as shown on the attached detail drawings.

- B. Longitudinal Joint Replacement 1". Payment at the Contract unit price per linear foot is full compensation for removing specified existing materials, furnishing and installing the new armored edges, concrete, reinforcement, precompressed joint seal, and all incidental items necessary to complete the work as specified by this Note and as shown on the attached detail drawings.
- **C. Armored Edge for Concrete.** Payment at the Contract unit price per linear foot is full compensation for removing specified existing materials, furnishing and installing the new armored edges, concrete, reinforcement, and all incidental items necessary to complete work as specified by this Note and as shown on the attached detail drawings.

The Department will consider payment as full compensation for all work required by this Note and the attached detail drawings.

SPECIAL NOTE FOR BRIDGE CLEANING AND PREVENTIVE MAINTENANCE: BEARING CLEANING AND LUBRICATION

I. DESCRIPTION

Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's Current Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, and this Note. Section references are to the Standard Specifications.

This work consists of the following:

- Furnish all labor, materials, tools, and equipment
- Provide safe access to the bridge in accordance with Section 107.01.01
- Remove stratified and pack rust from bearings
- Pressure wash bearings
- Coat all surfaces of bearings with lubricant
- Maintain and control traffic
- Any other work specified as part of this Contract

II. MATERIALS

A. Bearing Lubricant. Conform to Manufacturer's Technical Guidance. One of the following lubricants shall be used:

"Never Seez – Mariner's Choice" produced by Bostick, Inc. "Mobile Centaur Moly NLGI Grades 1 or 2" produced by Mobil Oil "Premalub #1 WG" produced by Certified Labs

III. CONSTRUCTION

A. Removal of Stratified and Pack Rust. Stratified and pack rust shall be removed from all bearing devices. See attached detailed drawings for each bridge showing location and quantity of the bearing devices. Hand tools including wire brushes, scrapers or impact devices (hand hammers or power chisels) are to be used for removing stratified and pack rust. All surfaces to have stratified and pack rust removed shall be cleaned to an SSPC SP-2 level. All debris collected shall be disposed of in a suitable off-site disposal facility.

- B. Pressure Washing. Specified bridge components shall be pressure washed. All equipment for pressure washing shall be operated at a minimum pressure of up 4,000 psi with 0-degree spinner tips and/or fan tips as determined by the Engineer at the working location with a minimum flow rate of 3.5 gal/minute provided that these pressures do not damage any components of the structure. Pressure and flow rates shall be reduced to a level satisfactory to the Engineer should any damage occur due to power washing procedures. Pressure washing shall be operated at distance of approximately six inches from and perpendicular to the surface. All pressure washing wands shall be equipped with a gauge to accurately determine the amount pressure used. Pressure washing of any bridge element will proceed from top of wash area to bottom of wash area. Wash water will not be released to a bridge element previously washed.
- **C. Residual Lead Paint.** Residual lead paint may still be on bridge. The Contractor is advised to take all necessary protective measures including worker safety and environmental regulations when performing surface preparation. The Department will not consider any claims based on residual lead paint.
- D. Bearing Lubrication. Bearing devices shall be lubricated after all stratified rust and pack rust is removed and power washing is complete, bearing devices shall have lubricant applied to all surfaces of the bearing including bearing plates and points of movement. Allow bearing devices to dry before lubricant is applied. Lubricant must be applied to a clean and dry surface.

IV. MEASUREMENT

A. Bridge Cleaning and Preventive Maintenance. The Department will measure the quantity as Lump Sum.

V. PAYMENT

A. Bridge Cleaning and Preventive Maintenance. Payment at the Contract lump sum price includes all labor, all materials and all incidental items necessary to complete bearing lubrication work in accordance with this Note, the Plans and the Standard Specifications.

The Department will consider payment as full compensation for all work required by this Note.

SPECIAL NOTE FOR BRIDGE BARRIER RETROFIT

I. DESCRIPTION.

Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2019 Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawings. Section references are to the Standard Specifications. This work consists of the following: (1) Furnish all labor, materials, tools, and equipment; (2) Remove existing aluminum handrail and deliver to the Baily Bridge Lot in Frankfort, KY; (3) Remove a portion of the existing concrete wing barrier as shown in the attached detail drawings and clean reinforcement to be reused in the proposed final wing barrier; (4) Remove any existing spalled/delaminated concrete from portion of the barrier to remain in place; (5) Repair and replace damaged and corroded reinforcing bars; (6) Drill and epoxy grout reinforcement into the existing barrier; (7) Prepare surface for concrete placement by blast cleaning; (8) Pour new concrete barrier using Class "M" Concrete according to the Standard Specifications; (9) Apply masonry coating to areas of new concrete as shown on the attached detail drawings; and (10) Any other work specified as part of this contract according to the attached detail drawings.

II. MATERIALS.

- A. Class "M" Concrete. Use either "M1" or "M2". See Section 601.
- B. Steel Reinforcement. Use Grade 60. See Section 602.
- C. Masonry Coating. See Section 601.03.18 B.

III. CONSTRUCTION.

A. Concrete Removal and Preparation. The Contractor, as directed by the Engineer, shall locate and remove all loose, spalled, deteriorated and delaminated concrete. Sounding shall be used to locate delaminated areas. Care shall be exercised not to damage areas of sound concrete or reinforcing steel during concrete removal operations. Concrete removal shall be in accordance with a sequence approved by the Engineer.

Concrete removal shall be accomplished by chipping with hand picks, chisels or light duty pneumatic or electric chipping hammers (not to exceed 15 lbs.). If sound concrete is encountered before existing reinforcing steel is exposed, the surface shall be prepared and repaired without further removal of the concrete. When corroded reinforcing steel is exposed, concrete removal shall continue until there is a minimum ¾ inch clearance around the exposed, corroded reinforcing bar. Care shall be taken to not damage bond to adjacent non-exposed reinforcing steel during concrete removal processes.

The perimeter of all areas where concrete is removed shall be tapered at an approximately 45° angle, except that the outer edges of all chipped areas shall be saw cut to minimum depth of ¾ inch to prevent featheredging unless otherwise approved by the Engineer.

After all deteriorated concrete has been removed, the repair surface to receive concrete patching shall be prepared by abrasive blast cleaning. Abrasive blast cleaning shall remove all fractured surface concrete and all traces of any unsound material or contaminants such as oil, grease, dirt, slurry, or any materials which could interfere with the bond of freshly placed concrete.

The Contractor shall dispose of all removed material off State Right Of Way in an approved site. The Department will not measure concrete removal, Concrete Class "M", and steel reinforcement and will consider all work necessary as incidental to the bid item "BRIDGE BARRIER RETROFIT".

- **B. Prepare existing surface.** Prepare the existing surface by blast cleaning in accordance with 606.03.04.
- **C. Construct new barrier wall**. Drill and epoxy grout reinforcement into existing concrete according to Section 511. Form and pour new barrier wall in accordance with the detailed drawings.
- **D. Apply finish.** Apply masonry coating to new concrete surfaces according to attached detail drawings and Sections 601.03.18 B.

IV. MEASUREMENT. See Section 606 and the following:

A. Bridge Barrier Retrofit. The Department will measure the quantity in linear feet from bridge end to bridge end. The wing lengths will be included in the measurement.

V. PAYMENT.

A. Bridge Barrier Retrofit. The Department will make payment at the contract unit price per linear foot under the bid item #23032EN "BRIDGE BARRIER RETROFIT" for full compensation for removal and delivery of aluminum railing, repair of spalled concrete, preparation of concrete surfaces, furnishing and installing the concrete and reinforcement, and all incidental items necessary to complete the work within the specified pay limits as specified by this note and as shown on the attached detail drawings.

The Department will consider payment as full compensation for all work required by these notes and the attached detail drawings.

SPECIAL NOTE FOR BRIDGE RESTORATION AND WATERPROOFING WITH CONCRETE OVERLAYS

I. DESCRIPTION.

Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2019 Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawings. Section references are to the Standard Specifications. This work consists of the following:

- Furnish all labor, materials, tools, and equipment;
- Remove the existing overlay;
- Complete full-depth and partial depth repairs as directed by the Engineer;
- Repair/replace damaged and corroded reinforcing bars;
- Place new concrete overlay and epoxy-sand slurry in accordance with Section 606 or the attached detail drawings;
- Place masonry coating in accordance with Section 601 or the attached detail drawings;
- Complete asphalt approach pavement;
- Maintain and control traffic; and
- Any other work specified as part of this contract.

All construction will be in accordance with Section 606 unless otherwise specified.

II. MATERIALS.

- A. Latex Concrete. See Section 606.03.17.
- **B. Class "M" Concrete.** Use either "M1" or "M2". See Section 601.
- C. Bituminous Asphalt. Use CL2 ASPH SURF 0.38D PG64-22.
- **D. Epoxy-Sand Slurry.** See Section 606.03.10.

III. CONSTRUCTION.

- **A. Machine preparation of existing slab.** Remove concrete from existing slab to a depth of at least ¼" below the existing surface, and remove all patches completely, in accordance with the requirements of Section 606.03.03.
- **B. Remove Existing Overlay.** In addition to Section 606.03.03, totally remove the existing concrete overlay by milling.
- C. Partial Depth Slab Repair and Latex Overlay. Remove areas determined to be unsound by the Engineer via hand held jackhammers weighing less than 45lbs in accordance with Section 606.02.10 D. Repair/Replace all damaged or severely corroded reinforcing bars prior to partial depth repair operation. The Department will not measure material removal and will consider this work incidental to the bid item "PARTIAL DEPTH PATCHING". Mix and place Latex Modified Concrete Overlay in accordance with Sections 606.03.08 and 606.03.17.
- D. Full Depth Patching. Construct full depth patching in accordance with Section 606.03.05. Temporary support of the beams may be required during full depth patching. Submit the proposed method of support to the Engineer for approval before beginning work.
- **E. Surface Texturing.** Texture the concrete surface of the overlay in accordance with Section 609.03.10.
- IV. **MEASUREMENT.** See Section 606 and the following:
 - **A.** Latex Modified Concrete for Overlay. The Department will measure the quantity in cubic yards using the theoretical volume as follows for each bridge:
 - 1. WKP (L&R) OVER KY 369 (184.25' x 30.25' x (2"/12")/27 CF/CY) = 34.4 CU YD
 - 2. WKP (L&R) OVER KY 2713 (116'x 38' x (1.5"/12") /27 CF/CY = 20.4 CU YD
 - 3. WKP (L&R) OVER LEWIS CRK (120' x 38.0' x (2"/12")/27 CF/CY) = 28.2 CU YD
 - B. Latex Modified Concrete for Partial Depth Patching and variable thickness of Overlay. The Department will measure the quantity in cubic yards by deducting the theoretical volume of bridge deck overlay (LMC) from the total volume (as indicated by the batch quantity tickets) of concrete required to obtain the finished grade shown on the Plans or established by the Engineer.
 - **C. Concrete, Class M for Full-Depth Patching.** The Department will measure the quantity in cubic yards.

- **D. Machine Prep of Slab.** The Department will measure the machine preparation of the existing bridge deck in square yards, which shall include all labor, equipment, and material needed to complete this work.
- E. Remove Existing Overlay. The Department will measure the removal of the existing overlay in square yards, which shall include all labor, equipment, and material needed to complete this work.
- **F. Epoxy-Sand Slurry.** The Department will measure the quantity in square yards for the areas shown on the attached detail drawings.
- **G. Steel Reinforcement.** Will not be measured for payment, but will be considered incidental to "CONCRETE OVERLAY-LATEX".
- V. **PAYMENT.** See Section 606 and the following:
 - A. Latex Modified Concrete for Overlay. The Department will make payment for the Latex Modified Concrete under bid item #08534 "CONCRETE OVERLAY LATEX" for the theoretical quantity per cubicyard.
 - **B.** Latex Modified Concrete for Partial Depth Patching and variable thickness of **Overlay.** The Department will make payment for the Partial Depth Patching under bid item #24094EC "PARTIAL DEPTH PATCHING". Payment will be for the quantity per cubic yard complete in place.
 - C. Concrete, Class M for Full-Depth Patching. The Department will make payment for Full-Depth Patching under bid item #08526 "CONC CLASS M FULL DEPTH PATCH". Payment will be for the quantity per cubic yard complete in place.
 - **D. Machine Prep of Slab.** The Department will make payment for the machine prep of existing slab under bid item #08551 "MACHINE PREP OF SLAB". Payment will be for the square yards completed.
 - **Remove Existing Overlay.** The Department will make payment for the removal of the existing overlay under the bid item #08510 "REM EPOXY BIT FOREIGN OVERLAY". Payment will be for the square yard completed.
 - **F. Epoxy-Sand Slurry.** The Department will make payment for the placement of Epoxy Sand Slurry under bid item #08504 "EPOXY SAND SLURRY". Payment will be for the square yards completed.

The Department will consider payment as full compensation for all work required by these notes and the attached detail drawings.

SPECIAL NOTE FOR REPLACING COMPRESSION SEAL IN EXISTING EXPANSION JOINT

I. DESCRIPTION.

Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2019 Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawings. Section references are to the Standard Specifications. This work consists of the following:

- Furnish all labor, materials, tools, and equipment;
- Remove existing compression seal;
- Install new compression seal;
- Maintain and control traffic; and
- Any other work specified as part of this contract.

II. MATERIALS.

- A. Neoprene Joint Sealers (Compression Seals). See Section 807.
- **B.** Silicone Rubber Sealant. See Section 807.

III. CONSTRUCTION.

- A. Remove Existing Materials. Remove the existing compression seal as shown on the attached sketches. Remove debris and/or expansion joint filler as directed by the Engineer. Dispose of all removed material entirely away from the job site. This work is incidental to the contract unit price for "Expansion Joint Seal Replacement".
- **B. Blast Clean Armored Edges.** Blast clean all areas of existing armored edges until free of all laitance and deleterious substances immediately prior to the placement of the Compression Seal.
- Preformed Neoprene Joint Seal. Place the preformed joint seal in one continuous, unbroken length. Place neoprene compression seals as recommended by the manufacturer and in accordance with Section 609.03.04 (D).
- **D. Silicone Rubber Sealant.** Place the silicone sealant as recommended by the manufacturer and in accordance with Section 609.03.04 (C).
- E. Shop Plans. Shop plans will <u>not</u> be required. The Contractor is responsible for obtaining field measurements and supplying properly sized materials to complete the work.

IV. MEASUREMENT

A. Expansion Joint Seal Replacement - The Department will measure the quantity in linear feet from gutterline to gutterline along the centerline of the joint.

V. PAYMENT.

A. Expansion Joint Seal Replacement - The Department will make payment at the contract unit price per linear feet under the bid item #23386EC "JOINT SEAL REPLACEMENT" for full compensation for removing specified existing materials, furnishing and installing the neoprene compression joint seal, and all incidental items necessary to complete the work within the specified pay limits as specified by this note and as shown on the attached detail drawings.

The Department will consider payment as full compensation for all work required by these notes and the attached detail drawings.

Special Note for Bridge Demolition, Renovation and Asbestos Abatement

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

Any available information regarding possible asbestos containing materials (ACM) on or within bridges to be affected by the project has been included in the bid documents. These are to be included with the Contractor's notification filed with the KDAQ. If not included in the bid documents, the Department will provide that information to the successful bidder for inclusion in the KDAQ notice as soon as possible. If there are no documents stating otherwise, the bidders should assume there are no asbestos containing materials that will in any way affect the work. TRAFFIC CONTROL PLAN OHIO COUNTY WK – 9001 FE02 092 9001 B00072L FE02 092 9001 B00072R FE02 092 9001 B00130L FE02 092 9001 B00130R FE02 092 9001 B00133L FE02 092 9001 B00133R FE02 092 9001 B00134L FE02 092 9001 B00134R

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 2012 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 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

Traffic will be reduced to one lane at each structure and bridge rehabilitation activities completed half width. Traffic will be shifted partially onto shoulders in some phases in order to complete work to the center of the bridge. Lane width reductions will be employed on some structures only as necessary.

TIMES OF PROHIBITED LANE CLOSURES AND DIVERSIONS

There will be no times of restricted lane closures for bridge rehabilitation work on the following structures: FE02 092 9001 B00072L; FE02 092 9001 B00072R; FE02 092 9001 B00130L; FE02 092 9001 B00130R; FE02 092 9001 B00133L; FE02 092 9001 B00133R; FE02 092 9001 B00134L; FE02 092 9001 B00134R. The contractor will be allowed 30 Calendar days on each individual structure, upon erection of the initial lane closure, to complete work on each individual structure and restore all lanes and ramps to the original traffic scheme.

See separate traffic control plan for FE02 092 9001 B00132L and FE02 092 9001 B00132R for details for times of prohibited work and closures for work on those structures and limits to the duration work and closures.

Project Phasing:

Phase I and Phase II activities will be described for one individual structure herein, and will be considered applicable to all structures in both the Eastbound and Westbound directions. The contractor may elect to work on more than one structure at a time given the work is completed on each structure within the time allowed.

PHASE IA – Shoulder Strengthening and Rumble Strip Removal (Applies to B00130L&R, B00133L&R, B00134L&R)

Close the inside lane to traffic and mill and inlay asphalt base on shoulders to the dimensions detailed in order to provide a stable driving course and to remove the existing shoulder rumble strips.

Phase I – Bridge Restoration (Outside Lanes)

Close the outside lane to traffic in advance of the work area and in advance of the proposed lane shifts. For B00072L&R, close the outside lane approximately ½ mile in advance of the outside diamond off ramps in order to calm and acclimate traffic to construction in advance of the interchange. Partially shift traffic onto inside shoulders as detailed in the lane taper details and MOT Typical Sections and install temporary barrier wall. Complete all items of bridge restoration work detailed for the outside half of the structure. Mill and inlay the outside shoulders in the limits detailed in preparation for Phase II traffic.

PHASE II – Bridge Restoration (Inside Lanes)

Relocate temporary barrier and crash cushions. Close the inside lane to traffic in advance of the work area and in advance of the proposed lane shifts. For B00072L&R, close the inside lane approximately ½ mile in advance of the outside diamond off ramps in order to calm and acclimate traffic to construction in advance of the interchange. Partially shift traffic onto outside shoulders as detailed in the lane taper details and MOT Typical Sections. Complete all items of bridge restoration work detailed for the inside half of the structure.

PHASE III – Final Pavement Markings and Final Cleanup

Using alternating lane closures, complete final cleanup, permanent striping, rumble strips, and all remaining items of work.

MINIMUM LANE AND MINIMUM LANE WIDTH REQUIREMENTS

Maintain a minimum 12' lane width for work on B00072L&R. Maintain 11' lane width on for work on B00130L&R, and B00134L&R. Maintain 9' lane width for work on B00133L&R. Traffic may be reduced to one lane per direction in accordance with phasing requirements and lane closure requirements.

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".

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.

A lane closure will be required for each structure. Do not extend lane closure lengths to connect or include more than one work location.

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, STOP, STOP AHEAD, INTERSECTION AHEAD. 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.

TEMPORARY 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.

Use temporary striping tape for all temporary pavement markings in accordance with section 112 of the Specifications. Use black temporary tape for obscuring existing pavement markings when in conflict with proposed traffic schemes. Use two widths of 6" temporary striping for temporary gore striping.

- 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.

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" – Shoulder Strengthening – 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.

Wide loads will be prohibited for restoration work requiring half width construction with a temporary concrete barrier. One mile in advance of prior interchange of the work location (Caneyville Exit 94 WB and Beaver Dam Exit 75 EB), place signs instructing Wide Loads Use US 62. Signs shall be dual mounted and 4' x 8'. Also, place Wide Load Exit Here sign immediately prior to the interchange requiring exit (Caneyville Exit 94 WB and Beaver Dam Exit 75 EB). When applicable, place "Wide Loads Prohibited WN-9001 (EB or WB as applicable)" signs in advance of interchanges (US 231 approaches, I-165 approaches, and KY 79 approaches) on each side road approach to the applicable interchange. Additional portable changeable message signs quantities have been established to supplement post mounted signs to be used at the direction of the engineer.

The contractor will be required to provide a minimum of 10 days written notice to the Engineer prior to erection of a lane closure that will restrict passage of wide loads.

ROAD CLOSURES

No road closures or ramp closures will be allowed on this project.

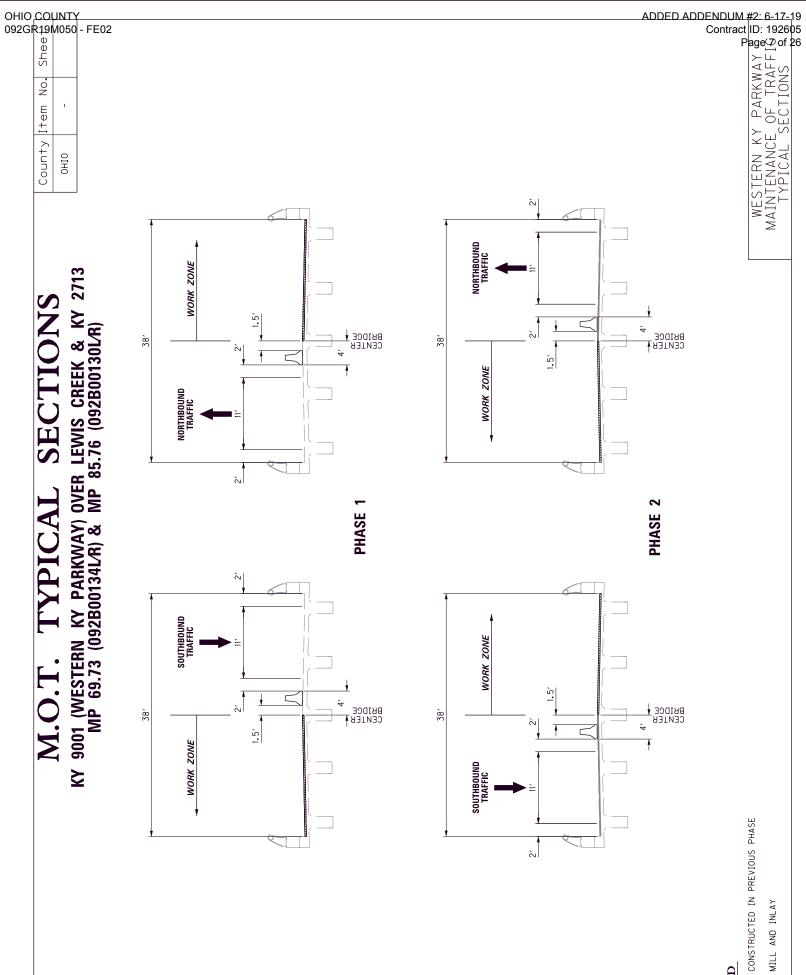
TEMPORARY BARRIER WALL

Payment of the contract unit price per linear foot for "Concrete Barrier Wall Type 9T" shall be full compensation for furnishing, installing, maintaining, adjusting alignment as needed, removing the barrier when no longer needed, and all incidentals necessary to complete the work.

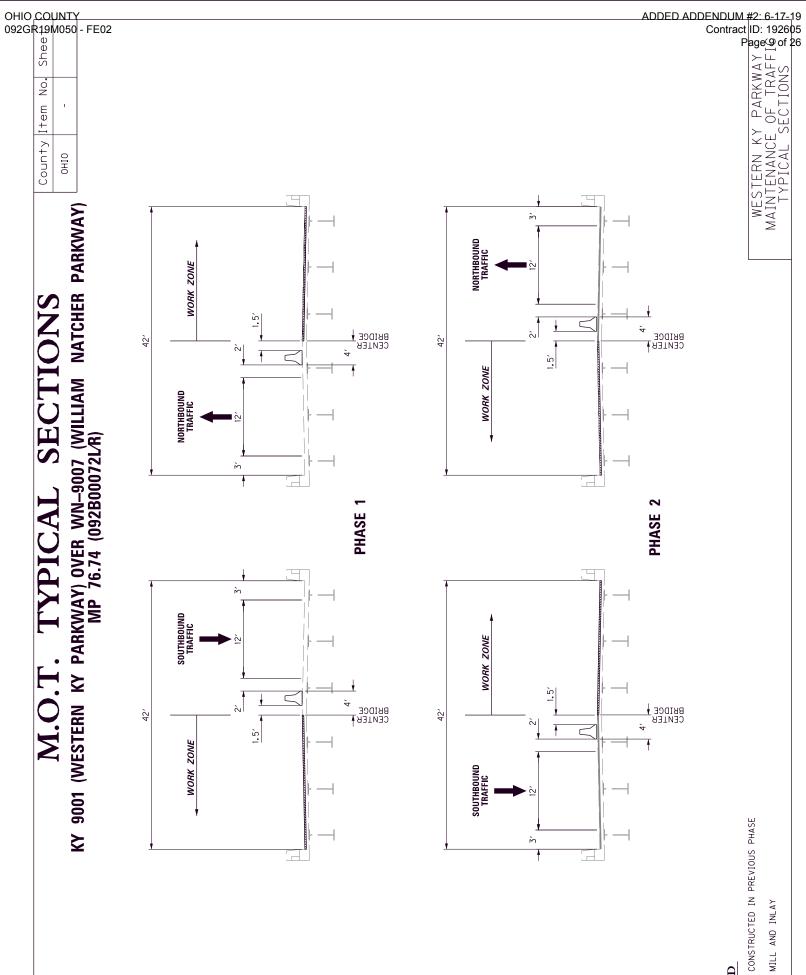
Provide one side mounted barrier delineator per each section of barrier.

CRASH CUSHIONS

Provide barrier end treatments that comply with MASH-16.



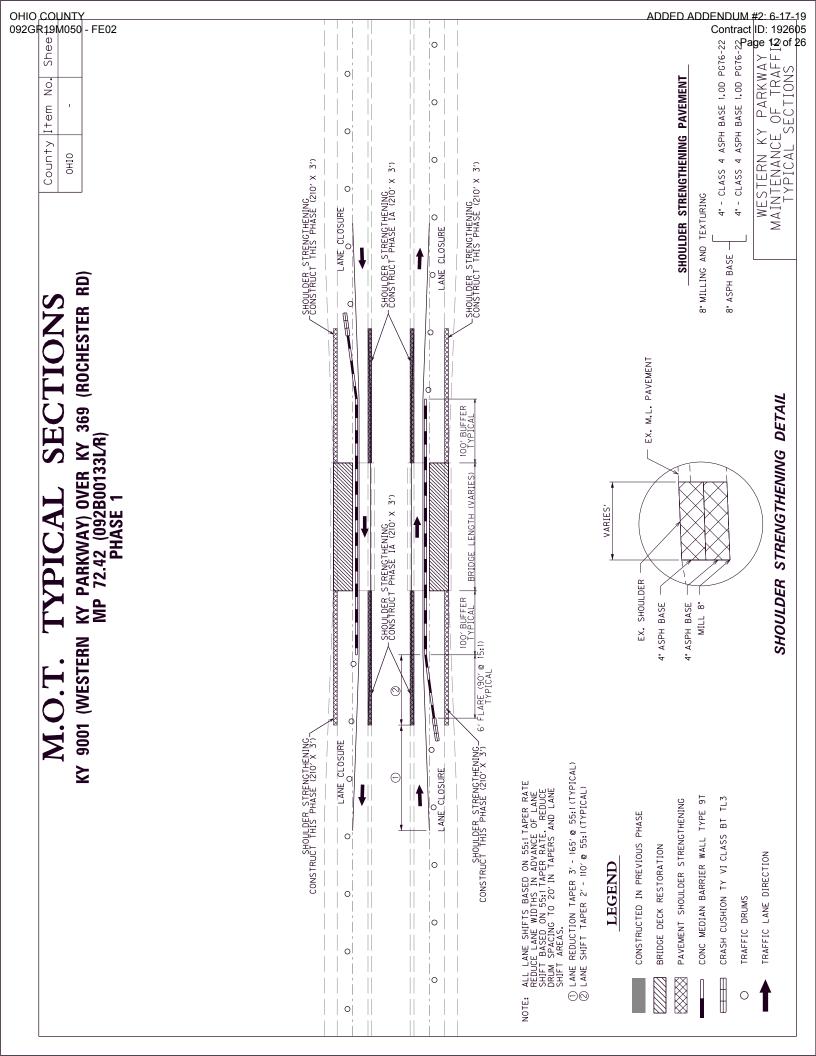
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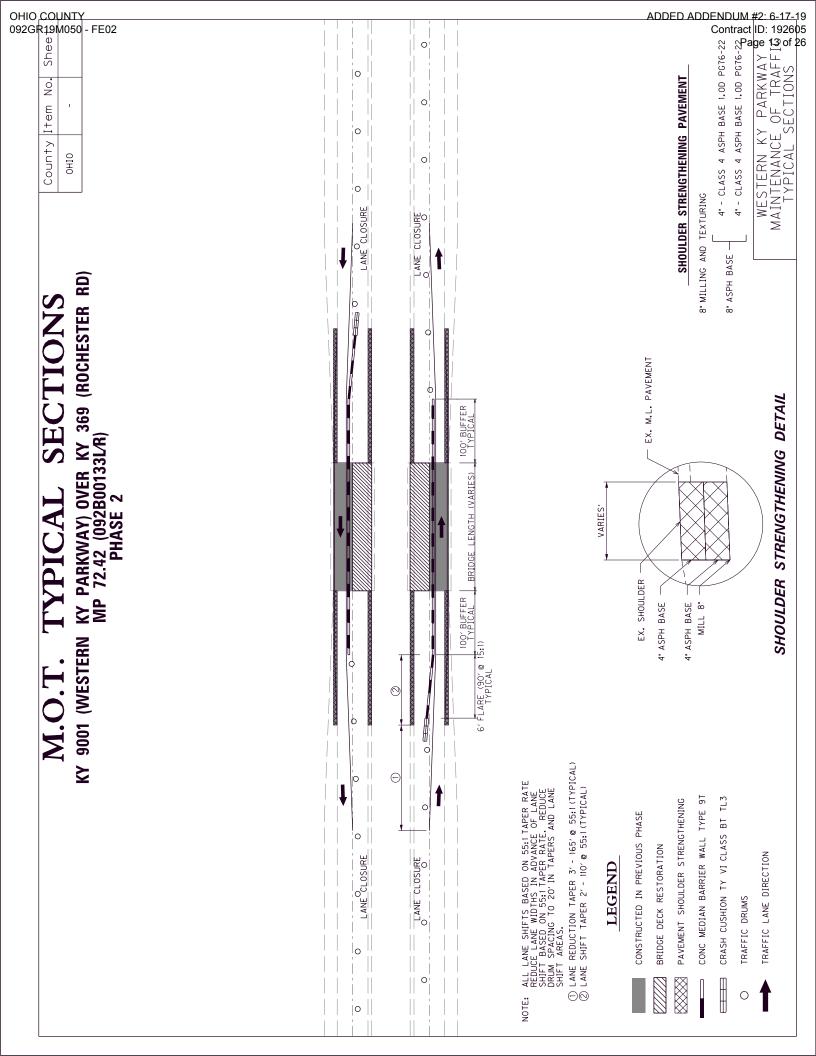


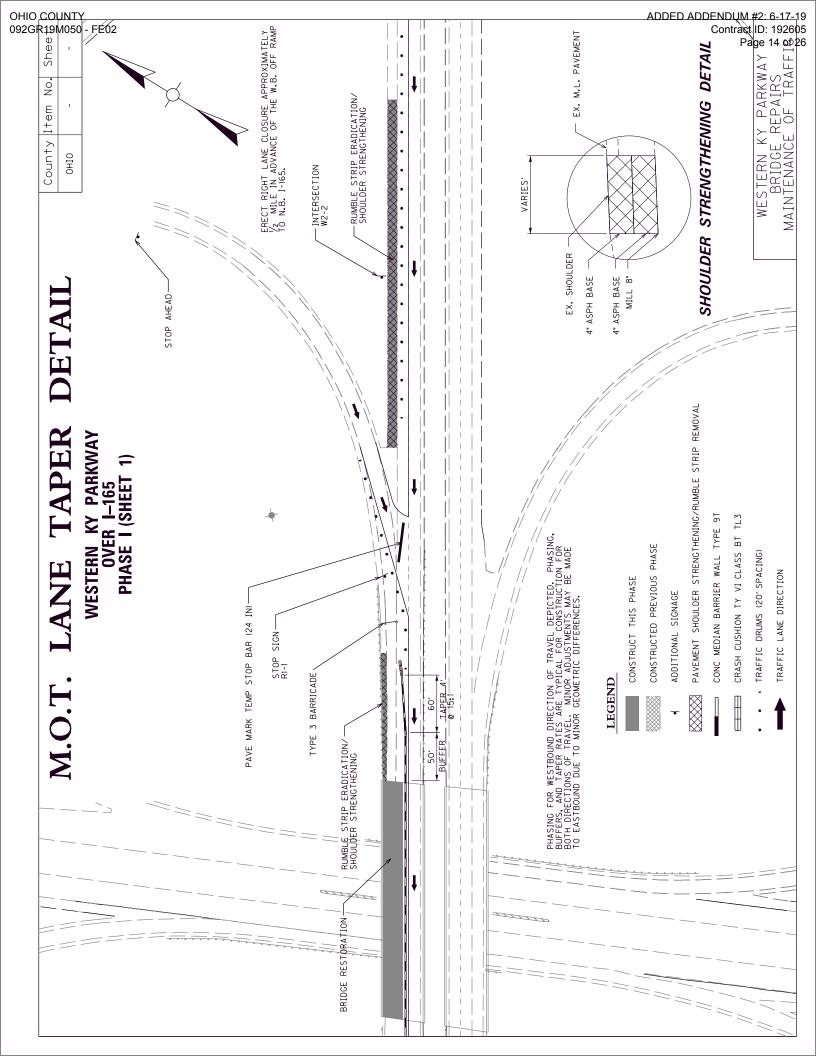
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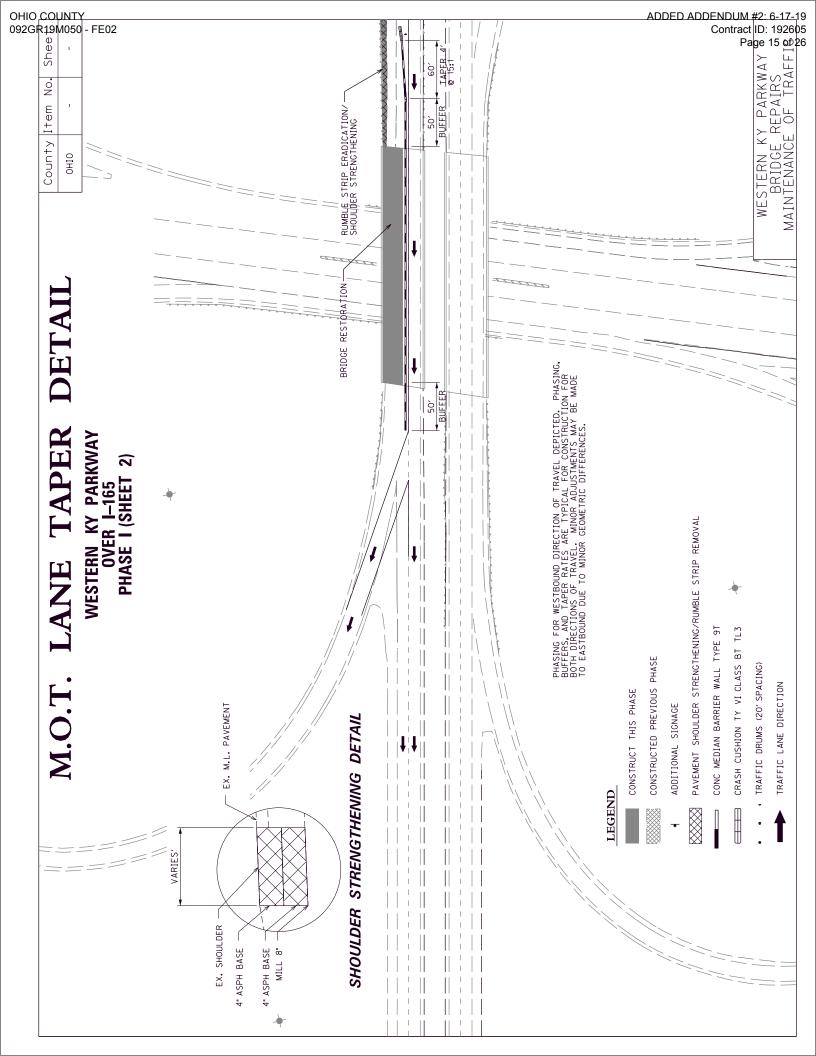
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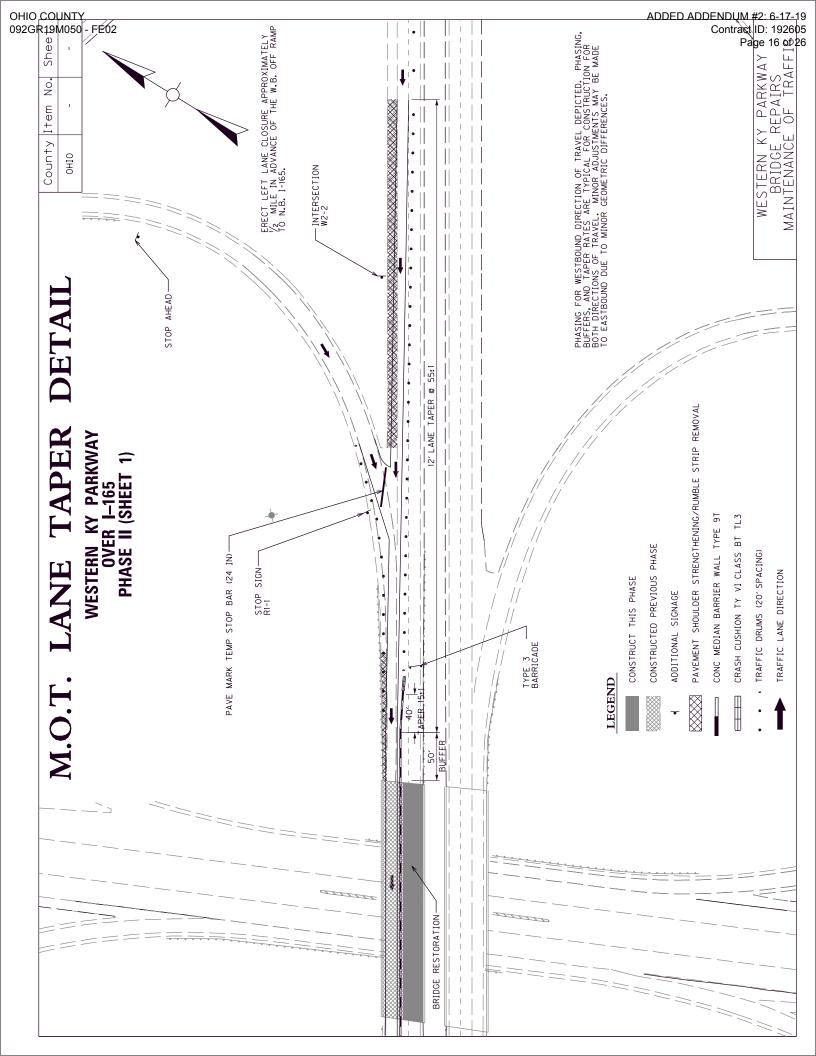
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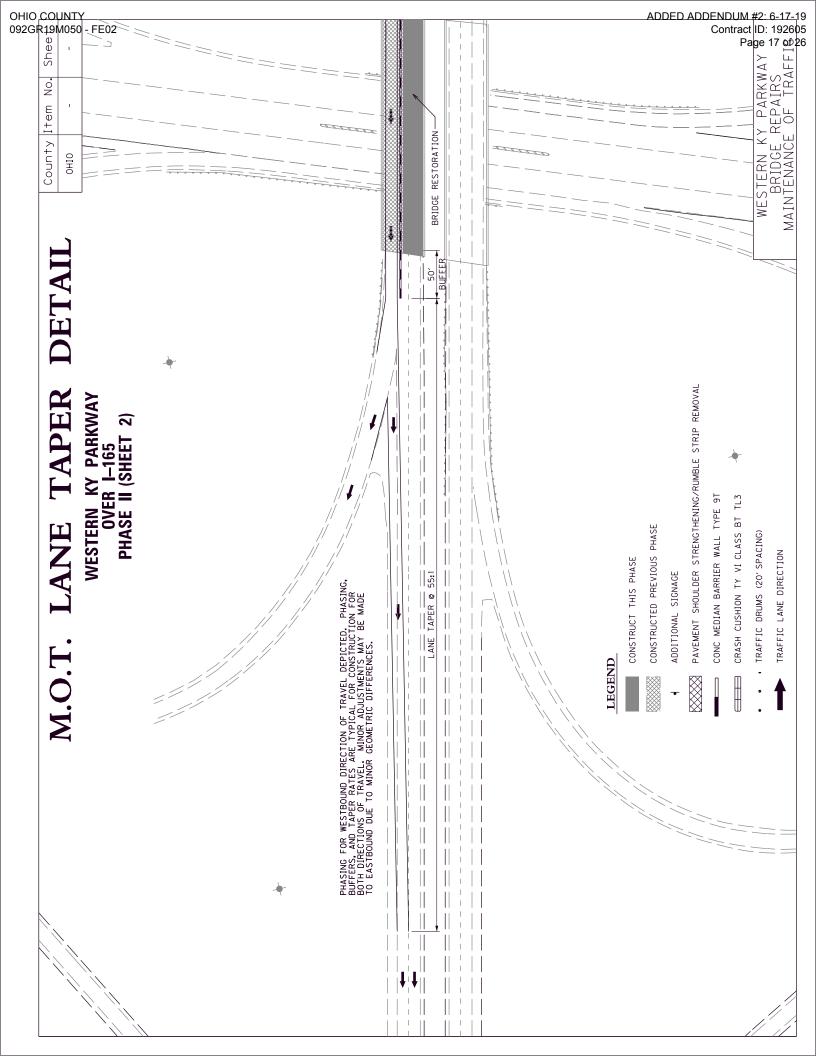


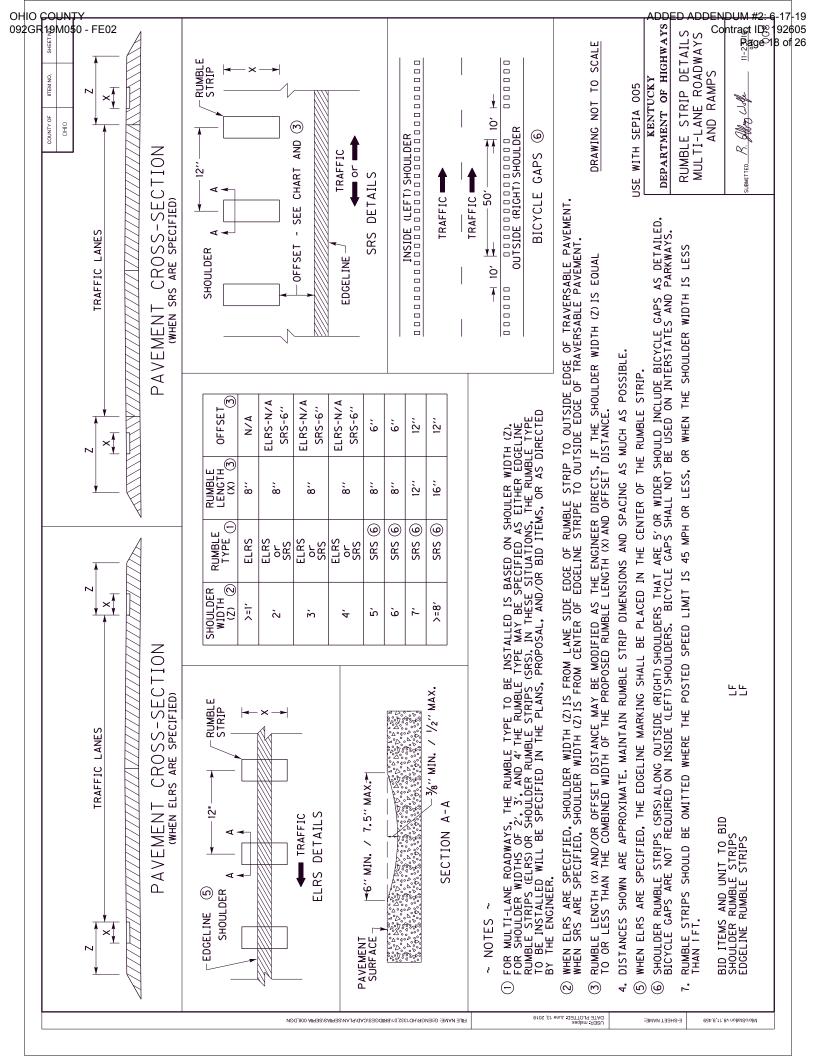


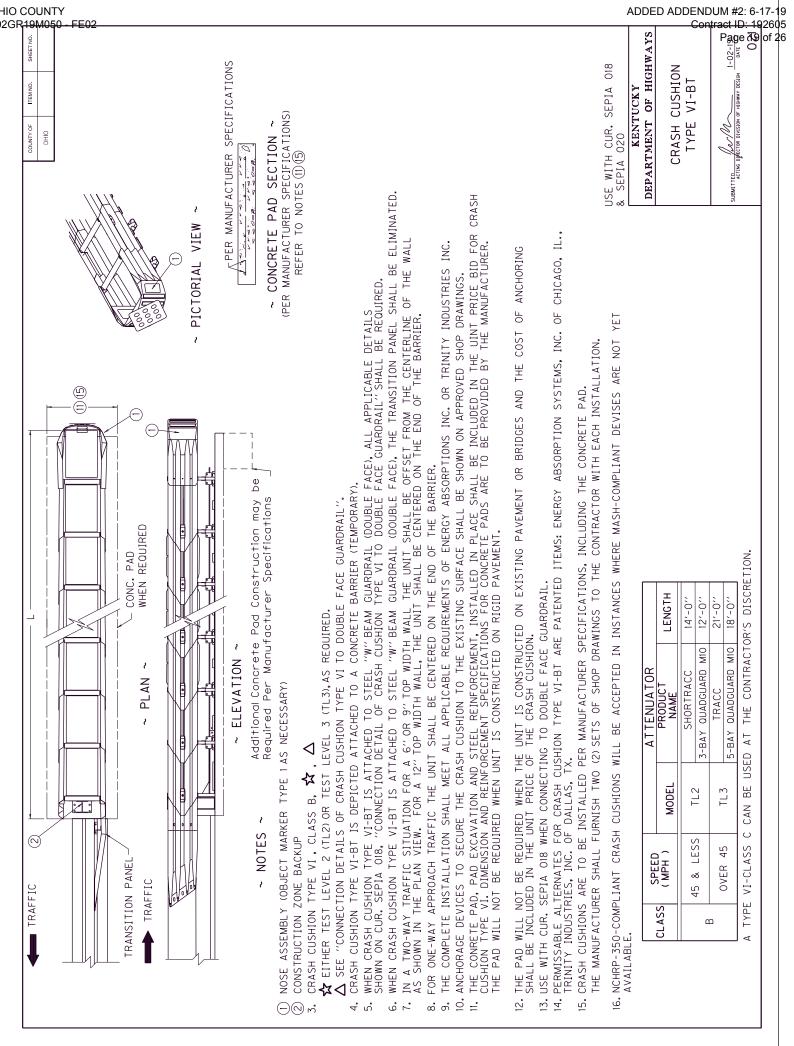












OHIO COUNTY 092GR19M050

ADDED ADDENDUM #2: 6-

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.

FE02 092 9001 B00072L FE02 092 9001 B00072R FE02 092 9001 B00130L FE02 092 9001 B00130R FE02 092 9001 B00133L FE02 092 9001 B00133R FE02 092 9001 B00134L FE02 092 9001 B00134R

Additionally, the contractor will be required to complete the bridge restoration activities on each individual structure and restoration of traffic to its original mainline WK-9001 configuration within 30 Calendar Days from the time that the date the initial lane closure is erected for each structure. The contractor may choose the starting date for this work on each structure.

Calendar Days will be tracked and charged from the time the initial lane closure is erected for each structure until such time that the contractor completes all items of work associated with the bridge restoration activities, approach paving, rumble strip installation, striping and safety appurtenances, and restores mainline traffic to its original configuration at each individual structure.

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 any individual structure in excess of 30 Calendar Days from the time of erection of the initial lane closure to begin work on the individual structure.

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.

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.

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 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 ¹/₄" V-slot Etnyre nozzles. Other nozzles are not acceptable. Arrange the nozzles in the following patterns from left to right:

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

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

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

3. CONSTRUCTION.

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

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

3.3 Non-tracking Tack Certification. Furnish the tacks certification to the Engineer stating the material conforms to all requirements herein prior to use.

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

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

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

CodePay ItemPay Unit24970ECAsphalt Material for Tack Non-TrackingTon

April 30, 2018