



**Matthew G. Bevin**  
Governor

**COMMONWEALTH OF KENTUCKY**  
**TRANSPORTATION CABINET**  
Frankfort, Kentucky 40622  
[www.transportation.ky.gov/](http://www.transportation.ky.gov/)

**Greg Thomas**  
Secretary

December 1, 2017

CALL NO. 201  
CONTRACT ID NO. 171260  
ADDENDUM # 1

Subject: Christian-Hopkins Counties, 121GR17D060  
Letting December 8, 2017

- (1) Revised - Special Note - Page 52 of 270
- (2) Revised - Special Note - Page 55 of 270
- (3) Revised - Special Note - Page 57 of 270
- (4) Revised - Special Note - Page 58 of 270
- (5) Revised - Special Note - Page 60 of 270
- (6) Revised - Special Note - Page 93 of 270
- (6) Revised - Special Note - Page 96 of 270
- (7) Revised - Special Note - Page 181 of 270
- (8) Revised - Special Note - Page 209 of 270
- (9) Revised - Material Summary - Pages 219-223 of 270
- (10) Revised - Bid Items - Pages 267-270 of 270
- (11) Added - Special Notes - Pages 1-4

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Mills".

Rachel Mills, P.E.  
Director  
Division of Construction Procurement

RM:mw  
Enclosures



An Equal Opportunity Employer M/F/D



**CHRISTIAN COUNTY**  
**PENNYRILE PARKWAY (KY 9004)**  
**PAVEMENT REHABILITATION, MILEPOST 16.556 TO 28.095**  
**ITEM NO. 2-2082**  
**GENERAL SUMMARY**

ITEM NUMBER	ITEM	UNIT	QUANTITY
1	DGA BASE ① ⑨	TON	104,602
3	CRUSHED STONE BASE ①	TON	8,307
100	ASPHALT SEAL AGGREGATE ①	TON	2,435
103	ASPHALT SEAL COAT ①	TON	292
190	ASPHALT LEVELING AND WEDGING ①	TON	9,500
212	CL2 ASPH BASE 1.00D PG64-22 ①	TON	14,172
214	CL3 ASPH BASE 1.00D PG64-22 ①	TON	7,745
301	CL2 ASPH SURF 0.38D PG64-22 ①	TON	57,637
324	CL3 ASPH SURF 0.50B PG64-22 ①	TON	1,084
2073	JPC PAVEMENT - 9 IN ①	SQ YD	330,883
2082	JPC PAVEMENT - 9 IN SHLD ①	SQ YD	187,871
78	CRUSHED AGGREGATE SIZE NO. 2 ① ⑦	TON	45,972
2064	PCC BASE 9-IN ①	SQ YD	1,100
2587	HOOK BOLT WITH EXPAN ANCHOR	EACH	940
22861EN	HIGH STRENGTH GEOTEXTILE FABRIC	SQ YD	13,140
20071EC	JOINT ADHESIVE	SQ YD	5,000
1982	DELINEATOR FOR GR MONO DIRECTIONAL - W ②	EACH	622
2929	CRASH CUSHION TYPE IX ②	EACH	10
2367	GUARDRAIL END TREATMENT TYPE 1 ②	EACH	68
2369	GUARDRAIL END TREATMENT TYPE 2A ②	EACH	25
2373	GUARDRAIL END TREATMENT TYPE 3 ②	EACH	9
2381	REMOVE GUARDRAIL ②	LIN FT	53,500
2391	GUARDRAIL END TREATMENT TYPE 4A ②	EACH	13
21802EN	GUARDRAIL - STEEL W BEAM - S FACE (7 FT POST) ②	LIN FT	51,587.5
1983	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	EACH	27
2695	RUMBLE STRIPS TYPE 3 ⑧	LIN FT	1,578
462	CULVERT PIPE - 18" ③	EACH	4
466	CULVERT PIPE - 30" ③	EACH	12
521	STORM SEWER PIPE - 15 IN ③	LIN FT	40
1210	PIPE CULVERT HEADWALL - 30 IN ③	EACH	1
1310	REMOVE PIPE ③	LIN FT	24
1450	S & F BOX INLET-OUTLET - 18 IN ③	EACH	1
1452	S & F BOX INLET-OUTLET - 30 IN ③	EACH	2
1490	DROP BOX INLET TYPE 1 ③	EACH	1
1641	JUNCTION BOX - 15 IN ③	EACH	1
1690	FLUME INLET TYPE 1 ③	EACH	7
1691	FLUME INLET TYPE 2 ③	EACH	14
1718	REMOVE INLET ③	EACH	1
1633	RECONSTRUCT MEDIAN BOX INLET ③	EACH	56
2165	REMOVE PAVED DITCH ③ ⑥	SQ YD	12,007

**CONTINUED ON NEXT SHEET**

- |   |  |
|---|--|
| ① CARRIED OVER FROM PAVING SUMMARY      | ⑥ 10,901 SY FROM MED. GRADING DETAIL, 1,106 FROM DRAINAGE SUMMARY.                                 |
| ② CARRIED OVER FROM GUARDRAIL SUMMARY   | ⑦ 35,292 TONS FROM DITCH SLOPE DETAIL, SLIDE REPIAR DETAIL, PERF PIPE HDWL, AND PAVEMENT UNDERCUTS |
| ③ CARRIED OVER FROM DRAINAGE SUMMARIES  | ⑧ PMT. REQUIRED BY MOT, SEE SECT. 501.01.04 STD SPEC.  |
| ④ CARRIED OVER FROM PERF PIPE SUMMARY   | ⑨ 7,500 TONS ADDED FOR G.R. END TREATMENT GRADING.   |
| ⑤ CARRIED OVER FROM BRIDGE PIER DETAILS |  |

**CHRISTIAN COUNTY  
PENNYRILE PARKWAY (KY 9004)  
PAVEMENT REHABILITATION, MILEPOST 16.556 TO 28.095  
ITEM NO. 2-2082  
GENERAL SUMMARY**

ITEM NUMBER	ITEM	UNIT	QUANTITY
2091	REMOVE PAVEMENT	SQ YD	18,917
2200	ROADWAY EXCAVATION (PAVEMENT UNDERCUTS) ⑦	CU YD	7,192
2575	DITCHING AND SHOULDERING	LIN FT	60,873
2599	FABRIC - GEOTEXTILE TYPE IV ⑧	SQ YD	21,103
2726	STAKING	LP SUM	1
21451ED	FILL AND GRADE MEDIAN	LIN FT	60,873
2555	CONCRETE - CLASS B	CU YD	20
2403	REMOVE CONCRETE MASONRY ⑤	CU YD	128
71	CRUSHED AGGREGATE SIZE NO 57 ⑤	TON	237
2230	EMBANKMENT IN PLACE ⑥	CU YD	2,770
2157	PAVED DITCH TYPE I	SQ YD	10,901
5952	TEMP MULCH	SQ YD	126,566
2703	SILT TRAP TYPE A	EACH	40
2706	CLEAN SILT TRAP TYPE A	EACH	40
2704	SILT TRAP TYPE B	EACH	40
2707	CLEAN SILT TRAP TYPE B	EACH	40
2705	SILT TRAP TYPE C	EACH	40
2708	CLEAN SILT TRAP TYPE C	EACH	40
2701	TEMP SILT FENCE	LIN FT	35,235
2159	TEMP DITCH	LIN FT	35,235
2160	CLEAN TEMP DITCH	LIN FT	17,618
5950	EROSION CONTROL BLANKET	SQ YD	189,848
5963	INITIAL FERTILIZER	TON	19.70
5964	20-10-10 FERTILIZER	TON	9.90
5992	AGRICULTURAL LIMESTONE	TON	117.70
5953	TEMPORARY SEEDING AND PROTECTION	SQ YD	94,925
2545	CLEARING AND GRUBBING	LP SUM	1
6412	STEEL POST MILE MARKER	EACH	24
10020NS	FUEL ADJUSTMENT	DOLLAR	345,518
10030NS	ASPHALT ADJUSTMENT	DOLLAR	352,404
2568	MOBILIZATION	LP SUM	1
2569	DEMOBILIZATION	LP SUM	1

① CARRIED OVER FROM PAVING SUMMARY  
 ② CARRIED OVER FROM GUARDRAIL SUMMARY  
 ③ CARRIED OVER FROM DRAINAGE SUMMARIES  
 ④ CARRIED OVER FROM PERF PIPE SUMMARY  
 ⑤ CARRIED OVER FROM BRIDGE PIER DETAILS  
 ⑥ CARRIED OVER FROM RAMP EXTENSION CROSS SECTIONS  
 EMB 1,660 CY + EMB BENCH 1,110 CY = 2,770 CY  
 ⑦ 640 CU YD FROM SLIDE REPAIR  
 ⑧ 20,687 SY PAVEMENT UNDERCUTS, 416 SY SLIDE REPAIR. **SHEET 3 of 6**

**HOPKINS COUNTY  
PENNYRILE PARKWAY (KY 9004)  
PAVEMENT REHABILITATION, MILEPOST 28.095 TO 29.900  
ITEM NO. 2-2082  
GENERAL SUMMARY**

ITEM NUMBER	ITEM	UNIT	QUANTITY
1	DGA BASE ① ⑦	TON	23,308
100	ASPHALT SEAL AGGREGATE ①	TON	339
103	ASPHALT SEAL COAT ①	TON	41
190	ASPHALT LEVELING AND WEDGING ①	TON	200
212	CL2 ASPH BASE 1.00D PG64-22 ①	TON	2,762
301	CL2 ASPH SURF 0.38D PG64-22 ①	TON	6,462
2073	JPC PAVEMENT - 9 IN ①	SQ YD	51,906
2082	JPC PAVEMENT - 9 IN SHLD ①	SQ YD	29,650
78	CRUSHED AGGREGATE SIZE NO. 2 ①⑥	TON	24,414
1890	ISLAND HEADER CURB TYPE 1 ②	LIN FT	150
1982	DELINEATOR FOR GR MONO DIRECTIONAL - W ②	EACH	135
1983	DELINEATOR FOR GR MONO DIRECTIONAL - Y ②	EACH	5
2352	GUARDRAIL - STEEL W BEAM - D FACE (7 FT POST) ②	LIN FT	275
2363	BRIDGE END CONNECTOR TYPE A ②	EACH	6
2929	CRASH CUSHION TYPE IX ②	EACH	4
2367	GUARDRAIL END TREATMENT TYPE 1 ②	EACH	16
2369	GUARDRAIL END TREATMENT TYPE 2A ②	EACH	4
2373	GUARDRAIL END TREATMENT TYPE 3 ②	EACH	6
2378	BRIDGE END CONNECTOR TYPE D ②	EACH	2
2381	REMOVE GUARDRAIL ②	LIN FT	8,612.5
2391	GUARDRAIL END TREATMENT TYPE 4A ②	EACH	2
2397	TEMPORARY GUARDRAIL ②	LIN FT	300
2365	CRASH CUSHION TYPE IX - A ②	EACH	2
21802EN	GUARDRAIL - STEEL W BEAM - S FACE (7 FT POST) ②	LIN FT	7,675
462	CULVERT PIPE - 18" ③	LIN FT	4
521	STORM SEWER PIPE - 15 IN ③	LIN FT	4
1202	PIPE CULVERT HEADWALL - 15 IN ③	EACH	1
1204	PIPE CULVERT HEADWALL - 18 IN ③	EACH	1
1310	REMOVE PIPE ③	LIN FT	8
1690	FLUME INLET TYPE 1 ③	EACH	1
1691	FLUME INLET TYPE 2 ③	EACH	5
1633	RECONSTRUCT MEDIAN BOX INLET ③	EACH	7
2165	REMOVE PAVED DITCH ③⑤	SQ YD	1,183
2483	CHANNEL LINING CLASS II ③	TON	240
2484	CHANNEL LINING CLASS III ③	TON	260
2625	REMOVE HEADWALL ③	EACH	2
8100	CONCRETE - CLASS A ③	CU YD	0.32
8150	STEEL REINFORCEMENT ③	LBS	35

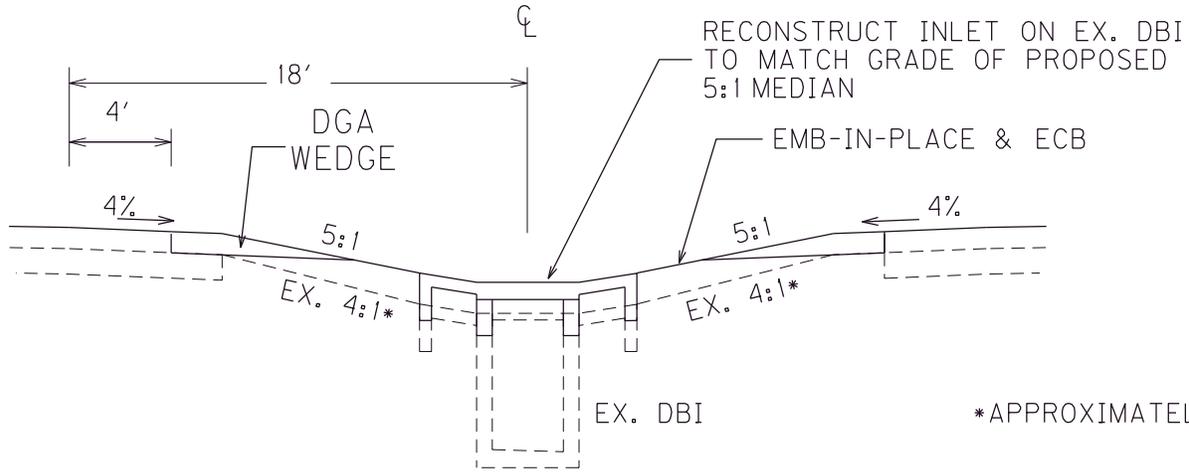
**CONTINUED ON NEXT SHEET**

- ① CARRIED OVER FROM PAVING SUMMARY
- ② CARRIED OVER FROM GUARDRAIL SUMMARY
- ③ CARRIED OVER FROM DRAINAGE SUMMARIES
- ④ CARRIED OVER FROM PERF PIPE SUMMARY
- ⑤ 722 SY FROM MEDIAN GRADING DETAIL, 461 SY FROM DRAINAGE SUM.
- ⑥ 14,161 TONS FROM DITCH SLOPE DETAIL, PERF PIPE HDWL, AND PAVEMENT UNDERCUTS
- ⑦ 1,600 TONS ADDED FOR G.R. END TREATMENT GRADING.



COUNTY OF	ITEM NO.	Contract ID: 171260
CHRISTIAN/ HOPKINS	2-2082.00	SHEET NO. 93 of 270

# MEDIAN DETAIL



\*APPROXIMATELY

## MEDIAN TREATMENT FOR OVERLAY & INLAY SECTIONS MP 16.566 TO MP 29.438 (BRIDGE END DIGOUT)

PAVED DITCH REPLACEMENT LOC.							
MP ST	MP END	UNIT	QUANTITY	MP ST	MP END	UNIT	QUANTITY
17.127	17.326	SY	700	24.801	24.915	SY	401
17.343	17.531	SY	662	26.232	26.388	SY	549
17.541	17.711	SY	598	26.398	26.558	SY	563
18.023	18.175	SY	535	26.568	26.605	SY	130
18.185	18.289	SY	366	27.012	27.173	SY	567
18.772	18.955	SY	644	27.183	27.334	SY	532
20.277	20.420	SY	503	27.343	27.506	SY	574
23.884	24.052	SY	591	27.514	27.664	SY	528
24.064	24.215	SY	532	27.674	27.806	SY	465
24.225	24.385	SY	563	29.045	29.116	SY	250
24.527	24.626	SY	348	29.158	29.292	SY	472
24.636	24.792	SY	549	TOTAL			11,623

BID ITEMS	UNIT	CHRISTIAN QTY	HOPKINS QTY
EROSION CONTROL BLANKET	SY	125,280	16,942
REMOVE PAVED DITCH	SY	10,901	722
RECONSTRUCT INLET ①	EACH	56	7
FILL AND GRADE MEDIAN	LF	60,873	7,091
PAVED DITCH TYPE I	SY	10,901	722

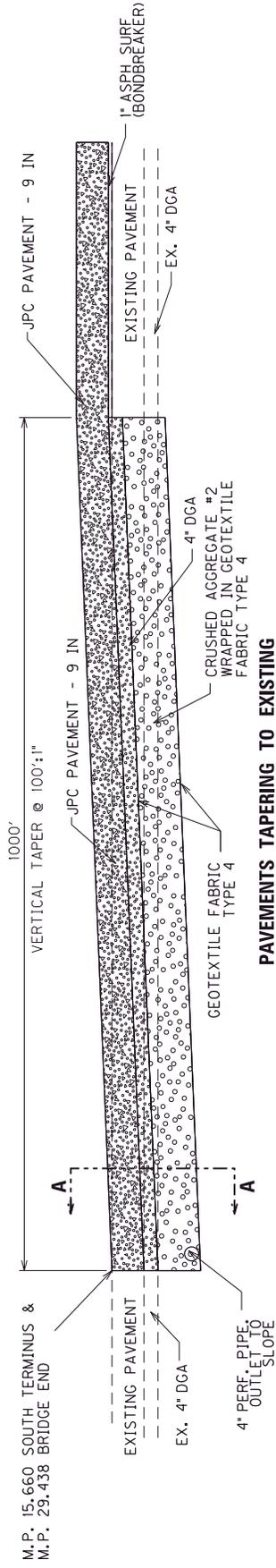
① SEE DBI SUMMARY FOR LOCATIONS AND NOTES ON RECONSTRUCT INLET

NOT TO SCALE

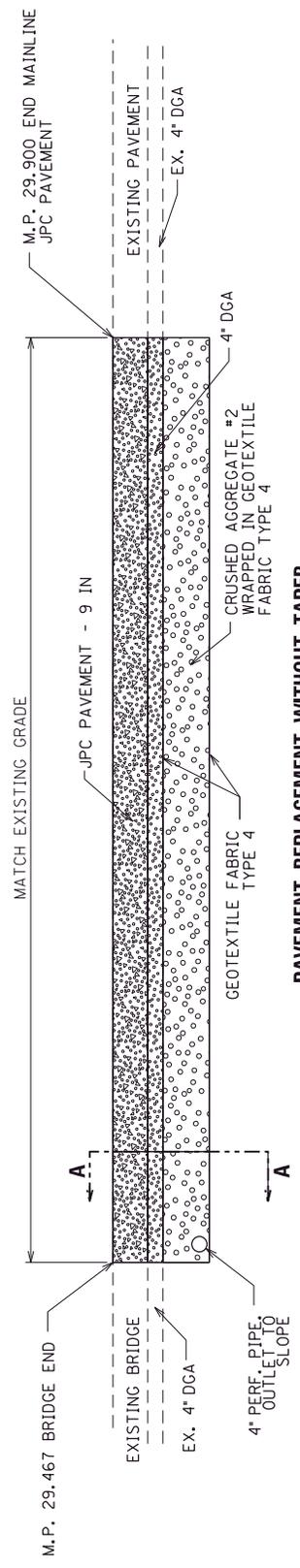
PENNYRILE PKWY  
MEDIAN GRADING DETAIL

COUNTY OF	ITEM NO.	SHEET NO.
CHRISTIAN/HOPKINS	2-2082.00	---

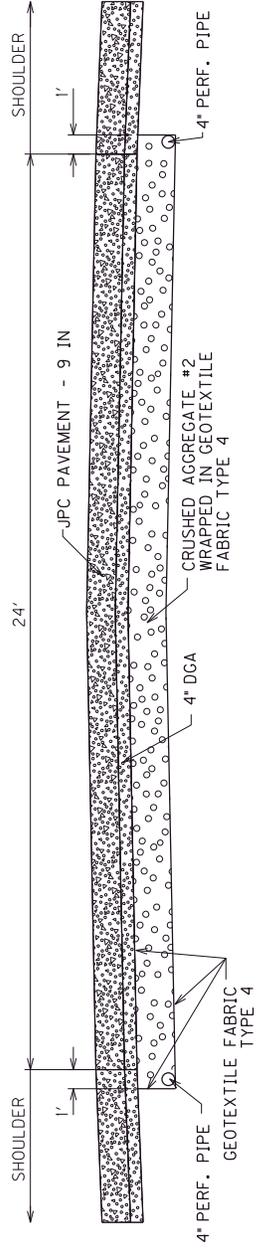
# PAVEMENT REMOVAL AND TAPERING



## PAVEMENTS TAPERING TO EXISTING



## PAVEMENT REPLACEMENT WITHOUT TAPER



### SECTION A-A

ITEMS TO BID		TONS	
0001	DGA BASE	NO 2	
0078	CRUSHED AGGREGATE	6 IN	
1001	PERFORATED PIPE	9 IN	LF
2073	JPC PAVEMENT	9 IN	SY
2082	JPC PAVEMENT	9 IN	SY
2091	REMOVE PAVEMENT		SY
2200	ROADWAY EXCAVATION		CY
2599	FABRIC-GEOTEXTILE	TYPE 4	SY

**NOTE:**  
 SAWCUT A NEAT LINE PRIOR TO REMOVAL OF THE EXISTING PAVEMENT. PAVEMENT REMOVAL WILL BE MEASURED AND PAID FOR BY THE SQUARE YARD AS REMOVE PAVEMENT REGARDLESS OF THE DEPTH OF EXISTING PAVEMENT AND REGARDLESS OF WHETHER THE EXISTING PAVEMENT IS CONCRETE PAVEMENT OR ASPHALT PAVEMENT OR A COMBINATION OF BOTH.  
 ROADWAY EXCAVATION WILL BE MEASURED FROM THE BOTTOM OF THE EXISTING PAVEMENT, EITHER ASPHALT OR CONCRETE AND PAID FOR BY THE CUBIC YARD. THE ENGINEER MAY ADJUST THE DEPTH OF UNDERCUT IF FIELD CONDITIONS WARRANT. BACKFILLING WITH WRAPPED STONE, INSTALLATION OF PERFORATED PIPE, DGA, AND PAVING ITEMS WILL BE MEASURED BY THE INDIVIDUAL ITEM INSTALLED.

NOT TO SCALE

PENNYRILE PKWY  
 TAPERING OF OVERLAYS

- RPS-038-06 CONCRETE PAVEMENT JOINTS TYPES AND SPACING
- RPS-039-06 CONCRETE PAVEMENT JOINTS TYPES AND SPACING
- RPX-001-04 STATION MARKINGS CONCRETE PAVEMENT
- RPX-015-04 HOT-POURED ELASTIC JOINT SEALS FOR CONCRETE PAVEMENT
- TPM-105-03 PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS
- TPM-125-03 PAVEMENT MARKER ARRANGEMENT EXIT-GORE AND OFF-RAMP
- TPM-130-03 PAVEMENT MARKER ARRANGEMENTS ON-RAMP WITH TAPERED ACCELERATION LANE
- TPM-135-03 PAVEMENT MARKER ARRANGEMENT ON-RAMP WITH PARALLEL ACCELERATION LANE
- TPM-170 FLEXIBLE DELINEATOR POST ARRANGEMENTS FOR HORIZONTAL CURVES
- TPM-171 FLEXIBLE DELINEATOR POST ARRANGEMENTS FOR INTERCHANGE RAMPS AND CROSSOVERS
- TTC-115-02 LANE CLOSURE MULTI-LANE HIGHWAY CASE I
- TTC-120-02 LANE CLOSURE MULTI-LANE HIGHWAY CASE II
- TTC-135-01 SHOULDER CLOSURE
- TTD-110-01 POST SPLICING DETAIL
- TTD-120 WORK ZONE SPEED LIMIT AND DOUBLE FINE SIGNS
- TTD-125 PAVEMENT CONDITION WARNING SIGNS
- TTS-110-01 MOBILE OPERATION FOR PAINT STRIPING CASE III
- TTS-115-01 MOBILE OPERATION FOR PAINT STRIPING CASE IV

4. Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, Edition of 2012, Appendix B - Supplemental Specifications, as applicable:

- Special Note II Portable Changeable Message Signs *attached*
- Special Note Typical Section Dimensions *attached*
- Special Note Before You Dig *attached*
- Special Note Guardrail Delivery Verification Sheet *attached*
- Special Note Fixed Completion Date and Liquidated Damages *attached*
- Special Note Longitudinal Pavement Joint Adhesive *attached*
- Special Note Inlaid Pavement Markers *attached*
- General Note 555 JPC Pavement Ride Quality *attached*
- General Note 447 Compaction of Asphalt Mixtures *attached*
- Special Note Longitudinal Pavement Joint Adhesive *attached*
- Special Note Special Note for Significant Project-Project Traffic Coordinator *attached*
- Special Note Special Note for Shoulder Paving Alternates *attached*
- Special Note Special Note for Roller Compacted Concrete *attached*
- Special Note Special Note for Channel Lining and Paved Ditch Removal *attached*
- Special Note Special Note for JPC Pavement Joint Sealant
- Special Note Special Note for Staking *attached*
- Public Inf. Plan Public Information Plan *attached*
- Special Note Special Note for Surface Preparation (Waterblasting) *attached*
- Special Note Special Note for Dowel Bar & Tie Bar Placement in JPC Pavement *attached*
- Special Note Special Note for Longitudinal Texturing of Concrete Pavement *attached*
- Special Note Special Note for Pavement Types *attached*

### **SPECIAL NOTE FOR STAKING**

In addition to the requirements of Section 201, perform the following:

1. Contrary to Section 201.03.01, the Department will provide the survey control utilized for the existing pavement survey. Any necessary supplemental control will be the responsibility of the contractor.
2. The Department will provide an existing and proposed digital terrain model (DTM) for the length of the project. A proposed profile grade and cross sections at 50 foot intervals will be provided to the winning contractor. These items will be provided by 2/1/2018.
3. Any depth corrections due to fluctuation of the existing surface will be corrected utilizing bond breaker and will be paid for at unit price. The proposed profile will be set to maintain the proposed concrete depth throughout.
4. Subsequent to the final paving, the Department's engineer will collect check cross sections at various locations for verification of construction tolerances for JPC Pavement.
5. Locate the existing lighting conduit or wires prior to any excavation or trenching adjacent to the lighting system; and
6. The contractor shall be responsible for placing the outlets of the perforated pipe edge drain system in order to insure positive drainage; and
7. Perform any and all other staking operations required to control and construct the work.

# MATERIAL SUMMARY

**CONTRACT ID: 171260**

**121GR17D060**

**DE02490041760**

PENNYRILE PARKWAY (EB 9004 IN CHRISTIAN COUNTY) REMOVE AND REPLACE CONCRETE PAVEMENT ON PENYRILE PARKWAY (EB 9004) NORTH/SOUTHBOUND IN CHRISTIAN COUNTY JPC PAVEMENT, A DISTANCE OF 11.54 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	104,602.00	TON
0010	00003	CRUSHED STONE BASE	8,307.00	TON
0015	00078	CRUSHED AGGREGATE SIZE NO 2	45,972.00	TON
0020	00100	ASPHALT SEAL AGGREGATE	2,435.00	TON
0025	00103	ASPHALT SEAL COAT	292.00	TON
0030	00190	LEVELING & WEDGING PG64-22	9,500.00	TON
0035	00212	CL2 ASPH BASE 1.00D PG64-22	14,172.00	TON
0040	00214	CL3 ASPH BASE 1.00D PG64-22	7,745.00	TON
0045	00301	CL2 ASPH SURF 0.38D PG64-22	57,637.00	TON
0050	00324	CL3 ASPH SURF 0.50B PG64-22	1,084.00	TON
0055	02064	PCC BASE-9 IN	1,100.00	SQYD
0060	02073	JPC PAVEMENT-9 IN	330,883.00	SQYD
0065	02082	JPC PAVEMENT-9 IN SHLD	187,871.00	SQYD
0070	20071EC	JOINT ADHESIVE	5,000.00	LF
0075	00071	CRUSHED AGGREGATE SIZE NO 57	237.00	TON
0080	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	622.00	EACH
0085	01983	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	27.00	EACH
0090	02014	BARRICADE-TYPE III	8.00	EACH
0095	02091	REMOVE PAVEMENT	18,917.00	SQYD
0100	02157	PAVED DITCH TYPE 1 - (REVISED: 12-1-17)	10,901.00	SQYD
0105	02159	TEMP DITCH	35,235.00	LF
0110	02160	CLEAN TEMP DITCH	17,618.00	LF
0115	02200	ROADWAY EXCAVATION	7,192.00	CUYD
0120	02230	EMBANKMENT IN PLACE	2,770.00	CUYD
0125	02367	GUARDRAIL END TREATMENT TYPE 1	68.00	EACH
0130	02369	GUARDRAIL END TREATMENT TYPE 2A	25.00	EACH
0135	02373	GUARDRAIL END TREATMENT TYPE 3	9.00	EACH
0140	02381	REMOVE GUARDRAIL	53,500.00	LF
0145	02391	GUARDRAIL END TREATMENT TYPE 4A	13.00	EACH
0150	02403	REMOVE CONCRETE MASONRY	128.00	CUYD
0155	02545	CLEARING AND GRUBBING - (APPROXIMATELY 1.1 ACRES IN CHRISTIAN COUNTY)	1.00	LS
0160	02555	CONCRETE-CLASS B	20.00	CUYD
0165	02562	TEMPORARY SIGNS	1,500.00	SQFT
0170	02575	DITCHING AND SHOULDERING	60,873.00	LF
0175	02587	HOOK BOLT WITH EXPAN ANCHOR	940.00	EACH
0180	02599	FABRIC-GEOTEXTILE TYPE IV	21,103.00	SQYD
0185	02650	MAINTAIN & CONTROL TRAFFIC - (CHRISTIAN COUNTY)	1.00	LS
0190	02655	CROSSOVER - (CROSSOVER 1, CHRISTIAN COUNTY)	1.00	LS
0195	02655	CROSSOVER - (CROSSOVER 2, CHRISTIAN COUNTY)	1.00	LS
0200	02655	CROSSOVER - (CROSSOVER 3, CHRISTIAN COUNTY)	1.00	LS

## MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0205	02671	PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH
0210	02695	RUMBLE STRIPS TYPE 3	1,578.00	LF
0215	02701	TEMP SILT FENCE	35,235.00	LF
0220	02703	SILT TRAP TYPE A	40.00	EACH
0225	02704	SILT TRAP TYPE B	40.00	EACH
0230	02705	SILT TRAP TYPE C	40.00	EACH
0235	02706	CLEAN SILT TRAP TYPE A	40.00	EACH
0240	02707	CLEAN SILT TRAP TYPE B	40.00	EACH
0245	02708	CLEAN SILT TRAP TYPE C	40.00	EACH
0250	02726	STAKING - (CHRISTIAN COUNTY)	1.00	LS
0255	02775	ARROW PANEL	1.00	EACH
0260	02929	CRASH CUSHION TYPE IX	10.00	EACH
0265	03225	TUBULAR MARKERS	2,000.00	EACH
0270	05950	EROSION CONTROL BLANKET	189,848.00	SQYD
0275	05952	TEMP MULCH	126,566.00	SQYD
0280	05953	TEMP SEEDING AND PROTECTION	94,925.00	SQYD
0285	05963	INITIAL FERTILIZER	19.70	TON
0290	05964	20-10-10 FERTILIZER	9.90	TON
0295	05992	AGRICULTURAL LIMESTONE	117.70	TON
0300	06401	FLEXIBLE DELINEATOR POST-M/W	672.00	EACH
0305	06404	FLEXIBLE DELINEATOR POST-M/Y	83.00	EACH
0310	06412	STEEL POST MILE MARKERS	24.00	EACH
0315	06511	PAVE STRIPING-TEMP PAINT-6 IN	450,000.00	LF
0320	06549	PAVE STRIPING-TEMP REM TAPE-B	1,000.00	LF
0325	06550	PAVE STRIPING-TEMP REM TAPE-W	2,000.00	LF
0330	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0335	10020NS	FUEL ADJUSTMENT	345,518.00	DOLL
0340	10030NS	ASPHALT ADJUSTMENT	352,404.00	DOLL
0345	21451ED	FILL AND GRADE MEDIAN	60,873.00	LF
0350	21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)	51,587.50	LF
0355	22664EN	WATER BLASTING EXISTING STRIPE	175,000.00	LF
0360	22861EN	HIGH STRENGTH GEOTEXTILE FABRIC TY V	13,140.00	SQYD
0365	24189ER	DURABLE WATERBORNE MARKING-6 IN W	169,398.00	LF
0370	24190ER	DURABLE WATERBORNE MARKING-6 IN Y	133,836.00	LF
0375	24191ER	DURABLE WATERBORNE MARKING-12 IN W	3,110.00	LF
0380	24489EC	INLAID PAVEMENT MARKER	1,461.00	EACH
0385	00462	CULVERT PIPE-18 IN	4.00	LF
0390	00466	CULVERT PIPE-30 IN	12.00	LF
0395	00521	STORM SEWER PIPE-15 IN	40.00	LF
0400	01000	PERFORATED PIPE-4 IN	111,250.00	LF
0405	01001	PERFORATED PIPE-6 IN	106,420.00	LF
0410	01010	NON-PERFORATED PIPE-4 IN	4,008.00	LF
0415	01011	NON-PERFORATED PIPE-6 IN	3,438.00	LF
0420	01012	NON-PERFORATED PIPE-8 IN	17,015.00	LF
0425	01015	INSPECT & CERTIFY EDGE DRAIN SYSTEM - (CHRISTIAN COUNTY)	1.00	LS
0430	01020	PERF PIPE HEADWALL TY 1-4 IN	113.00	EACH
0435	01024	PERF PIPE HEADWALL TY 2-4 IN	18.00	EACH
0440	01028	PERF PIPE HEADWALL TY 3-4 IN	103.00	EACH
0445	01210	PIPE CULVERT HEADWALL-30 IN	1.00	EACH

## MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0450	01310	REMOVE PIPE	24.00	LF
0455	01450	S & F BOX INLET-OUTLET-18 IN	1.00	EACH
0460	01452	S & F BOX INLET-OUTLET-30 IN	2.00	EACH
0465	01490	DROP BOX INLET TYPE 1	1.00	EACH
0470	01633	RECONSTRUCT MEDIAN BOX INLET	56.00	EACH
0475	01641	JUNCTION BOX-15 IN	1.00	EACH
0480	01690	FLUME INLET TYPE 1	7.00	EACH
0485	01691	FLUME INLET TYPE 2	14.00	EACH
0490	01718	REMOVE INLET	1.00	EACH
0495	01741	CORED HOLE DRAINAGE BOX CON-6 IN	45.00	EACH
0500	01742	CORED HOLE DRAINAGE BOX CON-8 IN	40.00	EACH
0505	01831	STANDARD INTEGRAL CURB MOD	12,990.00	LF
0510	02165	REMOVE PAVED DITCH - (REVISED: 12-1-17)	12,007.00	SQYD
0515	02483	CHANNEL LINING CLASS II	840.00	TON
0520	02484	CHANNEL LINING CLASS III	1,658.00	TON
0525	02625	REMOVE HEADWALL	4.00	EACH
0530	08100	CONCRETE-CLASS A	165.01	CUYD
0535	08150	STEEL REINFORCEMENT	5,588.00	LB
0540	20758ED	REMOVE AND RESET PERF PIPE HEADWALL	25.00	EACH
0545	22660EN	REPLACE GRATE	2,854.00	LB
0550	23629EC	REPAIR HEADWALL	2.00	EACH
0555	02568	MOBILIZATION	1.00	LS
0560	02569	DEMOBILIZATION	1.00	LS
0565	02742	TRAINEE PAYMENT REIMBURSEMENT - GROUP 2, 3, OR 4 OPERATOR	1,400.00	HOUR

**CONTRACT ID: 171260**

**121GR17D060**

**DE05490041760**

PENNYRILE PARKWAY (EB 9004 IN HOPKINS COUNTY) REMOVE AND REPLACE CONCRETE PAVEMENT ON PENNYRILE PARKWAY (EB 9004) NORTH/SOUTHBOUND IN HOPKINS COUNTY JPC PAVEMENT, A DISTANCE OF 1.81 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0570	00001	DGA BASE	23,308.00	TON
0575	00078	CRUSHED AGGREGATE SIZE NO 2	24,414.00	TON
0580	00100	ASPHALT SEAL AGGREGATE	339.00	TON
0585	00103	ASPHALT SEAL COAT	41.00	TON
0590	00190	LEVELING & WEDGING PG64-22	200.00	TON
0595	00212	CL2 ASPH BASE 1.00D PG64-22	2,762.00	TON
0600	00301	CL2 ASPH SURF 0.38D PG64-22	6,462.00	TON
0605	02073	JPC PAVEMENT-9 IN	51,906.00	SQYD
0610	02082	JPC PAVEMENT-9 IN SHLD	29,650.00	SQYD
0615	01890	ISLAND HEADER CURB TYPE 1	150.00	LF
0620	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	135.00	EACH
0625	01983	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	5.00	EACH
0630	02014	BARRICADE-TYPE III	4.00	EACH

## MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0635	02091	REMOVE PAVEMENT	18,988.00	SQYD
0640	02157	PAVED DITCH TYPE 1 - (REVISED: 12-1-17)	722.00	SQYD
0645	02159	TEMP DITCH	4,765.00	LF
0650	02160	CLEAN TEMP DITCH	2,383.00	LF
0655	02200	ROADWAY EXCAVATION	6,328.00	CUYD
0660	02352	GUARDRAIL-STEEL W BEAM-D FACE	275.00	LF
0665	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	6.00	EACH
0670	02365	CRASH CUSHION TYPE IX-A	2.00	EACH
0675	02367	GUARDRAIL END TREATMENT TYPE 1	16.00	EACH
0680	02369	GUARDRAIL END TREATMENT TYPE 2A	4.00	EACH
0685	02373	GUARDRAIL END TREATMENT TYPE 3	6.00	EACH
0690	02378	GUARDRAIL CONNECTOR TO BRIDGE END TY D	2.00	EACH
0695	02381	REMOVE GUARDRAIL	8,612.50	LF
0700	02391	GUARDRAIL END TREATMENT TYPE 4A	2.00	EACH
0705	02397	TEMP GUARDRAIL	300.00	LF
0710	02545	CLEARING AND GRUBBING - (APPROXIMATELY 0.5 ACRES IN HOPKINS COUNTY)	1.00	LS
0715	02555	CONCRETE-CLASS B	5.00	CUYD
0720	02562	TEMPORARY SIGNS	1,100.00	SQFT
0725	02575	DITCHING AND SHOULDERING	9,530.00	LF
0730	02599	FABRIC-GEOTEXTILE TYPE IV	20,487.00	SQYD
0735	02650	MAINTAIN & CONTROL TRAFFIC	1.00	LS
0740	02655	CROSSOVER - (CROSSOVER 4, HOPKINS COUNTY)	1.00	LS
0745	02671	PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH
0750	02701	TEMP SILT FENCE	4,765.00	LF
0755	02703	SILT TRAP TYPE A	2.00	EACH
0760	02704	SILT TRAP TYPE B	2.00	EACH
0765	02705	SILT TRAP TYPE C	2.00	EACH
0770	02706	CLEAN SILT TRAP TYPE A	2.00	EACH
0775	02707	CLEAN SILT TRAP TYPE B	2.00	EACH
0780	02708	CLEAN SILT TRAP TYPE C	2.00	EACH
0785	02726	STAKING	1.00	LS
0790	02775	ARROW PANEL	1.00	EACH
0795	02929	CRASH CUSHION TYPE IX	4.00	EACH
0800	03225	TUBULAR MARKERS	200.00	EACH
0805	05950	EROSION CONTROL BLANKET	26,017.00	SQYD
0810	05952	TEMP MULCH	17,345.00	SQYD
0815	05953	TEMP SEEDING AND PROTECTION	13,009.00	SQYD
0820	05963	INITIAL FERTILIZER	2.70	TON
0825	05964	20-10-10 FERTILIZER	1.40	TON
0830	05992	AGRICULTURAL LIMESTONE	16.20	TON
0835	06401	FLEXIBLE DELINEATOR POST-M/W	266.00	EACH
0840	06412	STEEL POST MILE MARKERS	2.00	EACH
0845	06511	PAVE STRIPING-TEMP PAINT-6 IN	75,000.00	LF
0850	06549	PAVE STRIPING-TEMP REM TAPE-B	1,000.00	LF
0855	06550	PAVE STRIPING-TEMP REM TAPE-W	2,000.00	LF
0860	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0865	08016	REINF CONC SLOPE WALL-6 IN	137.00	SQYD
0870	10020NS	FUEL ADJUSTMENT	55,534.00	DOLL
0875	10030NS	ASPHALT ADJUSTMENT	36,844.00	DOLL

## MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0880	21451ED	FILL AND GRADE MEDIAN	7,091.00	LF
0885	21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)	7,675.00	LF
0890	22664EN	WATER BLASTING EXISTING STRIPE	30,000.00	LF
0895	24189ER	DURABLE WATERBORNE MARKING-6 IN W	23,826.00	LF
0900	24190ER	DURABLE WATERBORNE MARKING-6 IN Y	19,061.00	LF
0905	24489EC	INLAID PAVEMENT MARKER	739.00	EACH
0910	00462	CULVERT PIPE-18 IN	4.00	LF
0915	00521	STORM SEWER PIPE-15 IN	4.00	LF
0920	01000	PERFORATED PIPE-4 IN	13,050.00	LF
0925	01001	PERFORATED PIPE-6 IN	11,045.00	LF
0930	01010	NON-PERFORATED PIPE-4 IN	564.00	LF
0935	01011	NON-PERFORATED PIPE-6 IN	414.00	LF
0940	01012	NON-PERFORATED PIPE-8 IN	2,495.00	LF
0945	01015	INSPECT & CERTIFY EDGE DRAIN SYSTEM	1.00	LS
0950	01020	PERF PIPE HEADWALL TY 1-4 IN	18.00	EACH
0955	01024	PERF PIPE HEADWALL TY 2-4 IN	2.00	EACH
0960	01028	PERF PIPE HEADWALL TY 3-4 IN	7.00	EACH
0965	01202	PIPE CULVERT HEADWALL-15 IN	1.00	EACH
0970	01204	PIPE CULVERT HEADWALL-18 IN	1.00	EACH
0975	01310	REMOVE PIPE	8.00	LF
0980	01633	RECONSTRUCT MEDIAN BOX INLET	7.00	EACH
0985	01690	FLUME INLET TYPE 1	1.00	EACH
0990	01691	FLUME INLET TYPE 2	5.00	EACH
0995	01741	CORED HOLE DRAINAGE BOX CON-6 IN	6.00	EACH
1000	01742	CORED HOLE DRAINAGE BOX CON-8 IN	5.00	EACH
1005	01831	STANDARD INTEGRAL CURB MOD	2,330.00	LF
1010	02165	REMOVE PAVED DITCH - (REVISED: 12-1-17)	1,183.00	SQYD
1015	02483	CHANNEL LINING CLASS II	240.00	TON
1020	02484	CHANNEL LINING CLASS III	260.00	TON
1025	02625	REMOVE HEADWALL	2.00	EACH
1030	08100	CONCRETE-CLASS A	.32	CUYD
1035	08150	STEEL REINFORCEMENT	35.00	LB
1040	20758ED	REMOVE AND RESET PERF PIPE HEADWALL	5.00	EACH
1045	22660EN	REPLACE GRATE	161.00	LB
1050	02568	MOBILIZATION	1.00	LS
1055	02569	DEMOBILIZATION	1.00	LS

### PROPOSAL BID ITEMS

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#### Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	127,910.00	TON		\$	
0020	00003		CRUSHED STONE BASE	8,307.00	TON		\$	
0030	00078		CRUSHED AGGREGATE SIZE NO 2	70,386.00	TON		\$	
0040	00100		ASPHALT SEAL AGGREGATE	2,774.00	TON		\$	
0050	00103		ASPHALT SEAL COAT	333.00	TON		\$	
0060	00190		LEVELING & WEDGING PG64-22	9,700.00	TON		\$	
0070	00212		CL2 ASPH BASE 1.00D PG64-22	16,934.00	TON		\$	
0080	00214		CL3 ASPH BASE 1.00D PG64-22	7,745.00	TON		\$	
0090	00301		CL2 ASPH SURF 0.38D PG64-22	64,099.00	TON		\$	
0100	00324		CL3 ASPH SURF 0.50B PG64-22	1,084.00	TON		\$	
0110	02064		PCC BASE-9 IN	1,100.00	SQYD		\$	
0120	02073		JPC PAVEMENT-9 IN	382,789.00	SQYD		\$	
0130	02082		JPC PAVEMENT-9 IN SHLD	217,521.00	SQYD		\$	
0140	20071EC		JOINT ADHESIVE	5,000.00	LF		\$	

#### Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0150	00071		CRUSHED AGGREGATE SIZE NO 57	237.00	TON		\$	
0160	01890		ISLAND HEADER CURB TYPE 1	150.00	LF		\$	
0170	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	757.00	EACH		\$	
0180	01983		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	32.00	EACH		\$	
0190	02014		BARRICADE-TYPE III	12.00	EACH		\$	
0200	02091		REMOVE PAVEMENT	37,905.00	SQYD		\$	
0210	02157		PAVED DITCH TYPE 1 (REVISED: 12-1-17)	11,623.00	SQYD		\$	
0220	02159		TEMP DITCH	40,000.00	LF		\$	
0230	02160		CLEAN TEMP DITCH	20,001.00	LF		\$	
0240	02200		ROADWAY EXCAVATION	13,520.00	CUYD		\$	
0250	02230		EMBANKMENT IN PLACE	2,770.00	CUYD		\$	
0260	02352		GUARDRAIL-STEEL W BEAM-D FACE	275.00	LF		\$	
0270	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	6.00	EACH		\$	
0280	02365		CRASH CUSHION TYPE IX-A	2.00	EACH		\$	
0290	02367		GUARDRAIL END TREATMENT TYPE 1	84.00	EACH		\$	
0300	02369		GUARDRAIL END TREATMENT TYPE 2A	29.00	EACH		\$	
0310	02373		GUARDRAIL END TREATMENT TYPE 3	15.00	EACH		\$	
0320	02378		GUARDRAIL CONNECTOR TO BRIDGE END TY D	2.00	EACH		\$	
0330	02381		REMOVE GUARDRAIL	62,112.50	LF		\$	
0340	02391		GUARDRAIL END TREATMENT TYPE 4A	15.00	EACH		\$	
0350	02397		TEMP GUARDRAIL	300.00	LF		\$	
0360	02403		REMOVE CONCRETE MASONRY	128.00	CUYD		\$	
0370	02545		CLEARING AND GRUBBING (APPROXIMATELY 0.5 ACRES IN HOPKINS COUNTY)	1.00	LS		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0380	02545		CLEARING AND GRUBBING (APPROXIMATELY 1.1 ACRES IN CHRISTIAN COUNTY)	1.00	LS		\$	
0390	02555		CONCRETE-CLASS B	25.00	CUYD		\$	
0400	02562		TEMPORARY SIGNS	2,600.00	SQFT		\$	
0410	02575		DITCHING AND SHOULDERING	70,403.00	LF		\$	
0420	02587		HOOK BOLT WITH EXPAN ANCHOR	940.00	EACH		\$	
0430	02599		FABRIC-GEOTEXTILE TYPE IV	41,590.00	SQYD		\$	
0440	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0450	02650		MAINTAIN & CONTROL TRAFFIC (CHRISTIAN COUNTY)	1.00	LS		\$	
0460	02655		CROSSOVER (CROSSOVER 1, CHRISTIAN COUNTY)	1.00	LS		\$	
0470	02655		CROSSOVER (CROSSOVER 2, CHRISTIAN COUNTY)	1.00	LS		\$	
0480	02655		CROSSOVER (CROSSOVER 3, CHRISTIAN COUNTY)	1.00	LS		\$	
0490	02655		CROSSOVER (CROSSOVER 4, HOPKINS COUNTY)	1.00	LS		\$	
0500	02671		PORTABLE CHANGEABLE MESSAGE SIGN	6.00	EACH		\$	
0510	02695		RUMBLE STRIPS TYPE 3	1,578.00	LF		\$	
0520	02701		TEMP SILT FENCE	40,000.00	LF		\$	
0530	02703		SILT TRAP TYPE A	42.00	EACH		\$	
0540	02704		SILT TRAP TYPE B	42.00	EACH		\$	
0550	02705		SILT TRAP TYPE C	42.00	EACH		\$	
0560	02706		CLEAN SILT TRAP TYPE A	42.00	EACH		\$	
0570	02707		CLEAN SILT TRAP TYPE B	42.00	EACH		\$	
0580	02708		CLEAN SILT TRAP TYPE C	42.00	EACH		\$	
0590	02726		STAKING	1.00	LS		\$	
0600	02726		STAKING (CHRISTIAN COUNTY)	1.00	LS		\$	
0610	02775		ARROW PANEL	2.00	EACH		\$	
0620	02929		CRASH CUSHION TYPE IX	14.00	EACH		\$	
0630	03225		TUBULAR MARKERS	2,200.00	EACH		\$	
0640	05950		EROSION CONTROL BLANKET	215,865.00	SQYD		\$	
0650	05952		TEMP MULCH	143,911.00	SQYD		\$	
0660	05953		TEMP SEEDING AND PROTECTION	107,934.00	SQYD		\$	
0670	05963		INITIAL FERTILIZER	22.40	TON		\$	
0680	05964		20-10-10 FERTILIZER	11.30	TON		\$	
0690	05992		AGRICULTURAL LIMESTONE	133.90	TON		\$	
0700	06401		FLEXIBLE DELINEATOR POST-M/W	938.00	EACH		\$	
0710	06404		FLEXIBLE DELINEATOR POST-M/Y	83.00	EACH		\$	
0720	06412		STEEL POST MILE MARKERS	26.00	EACH		\$	
0730	06511		PAVE STRIPING-TEMP PAINT-6 IN	525,000.00	LF		\$	
0740	06549		PAVE STRIPING-TEMP REM TAPE-B	2,000.00	LF		\$	
0750	06550		PAVE STRIPING-TEMP REM TAPE-W	4,000.00	LF		\$	
0760	06551		PAVE STRIPING-TEMP REM TAPE-Y	4,000.00	LF		\$	
0770	08016		REINF CONC SLOPE WALL-6 IN	137.00	SQYD		\$	
0780	10020NS		FUEL ADJUSTMENT	401,052.00	DOLL	\$1.00	\$	\$401,052.00
0790	10030NS		ASPHALT ADJUSTMENT	389,248.00	DOLL	\$1.00	\$	\$389,248.00
0800	21451ED		FILL AND GRADE MEDIAN	67,964.00	LF		\$	
0810	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	59,262.50	LF		\$	

### PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0820	22664EN		WATER BLASTING EXISTING STRIPE	205,000.00	LF		\$	
0830	22861EN		HIGH STRENGTH GEOTEXTILE FABRIC TY V	13,140.00	SQYD		\$	
0840	24189ER		DURABLE WATERBORNE MARKING-6 IN W	193,224.00	LF		\$	
0850	24190ER		DURABLE WATERBORNE MARKING-6 IN Y	152,897.00	LF		\$	
0860	24191ER		DURABLE WATERBORNE MARKING-12 IN W	3,110.00	LF		\$	
0870	24489EC		INLAID PAVEMENT MARKER	2,200.00	EACH		\$	

### Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0880	00462		CULVERT PIPE-18 IN	8.00	LF		\$	
0890	00466		CULVERT PIPE-30 IN	12.00	LF		\$	
0900	00521		STORM SEWER PIPE-15 IN	44.00	LF		\$	
0910	01000		PERFORATED PIPE-4 IN	124,300.00	LF		\$	
0920	01001		PERFORATED PIPE-6 IN	117,465.00	LF		\$	
0930	01010		NON-PERFORATED PIPE-4 IN	4,572.00	LF		\$	
0940	01011		NON-PERFORATED PIPE-6 IN	3,852.00	LF		\$	
0950	01012		NON-PERFORATED PIPE-8 IN	19,510.00	LF		\$	
0960	01015		INSPECT & CERTIFY EDGE DRAIN SYSTEM	1.00	LS		\$	
0970	01015		INSPECT & CERTIFY EDGE DRAIN SYSTEM (CHRISTIAN COUNTY)	1.00	LS		\$	
0980	01020		PERF PIPE HEADWALL TY 1-4 IN	131.00	EACH		\$	
0990	01024		PERF PIPE HEADWALL TY 2-4 IN	20.00	EACH		\$	
1000	01028		PERF PIPE HEADWALL TY 3-4 IN	110.00	EACH		\$	
1010	01202		PIPE CULVERT HEADWALL-15 IN	1.00	EACH		\$	
1020	01204		PIPE CULVERT HEADWALL-18 IN	1.00	EACH		\$	
1030	01210		PIPE CULVERT HEADWALL-30 IN	1.00	EACH		\$	
1040	01310		REMOVE PIPE	32.00	LF		\$	
1050	01450		S & F BOX INLET-OUTLET-18 IN	1.00	EACH		\$	
1060	01452		S & F BOX INLET-OUTLET-30 IN	2.00	EACH		\$	
1070	01490		DROP BOX INLET TYPE 1	1.00	EACH		\$	
1080	01633		RECONSTRUCT MEDIAN BOX INLET	63.00	EACH		\$	
1090	01641		JUNCTION BOX-15 IN	1.00	EACH		\$	
1100	01690		FLUME INLET TYPE 1	8.00	EACH		\$	
1110	01691		FLUME INLET TYPE 2	19.00	EACH		\$	
1120	01718		REMOVE INLET	1.00	EACH		\$	
1130	01741		CORED HOLE DRAINAGE BOX CON-6 IN	51.00	EACH		\$	
1140	01742		CORED HOLE DRAINAGE BOX CON-8 IN	45.00	EACH		\$	
1150	01831		STANDARD INTEGRAL CURB MOD	15,320.00	LF		\$	
1160	02165		REMOVE PAVED DITCH (REVISED: 12-1-17)	13,190.00	SQYD		\$	
1170	02483		CHANNEL LINING CLASS II	1,080.00	TON		\$	
1180	02484		CHANNEL LINING CLASS III	1,918.00	TON		\$	
1190	02625		REMOVE HEADWALL	6.00	EACH		\$	
1200	08100		CONCRETE-CLASS A	165.33	CUYD		\$	
1210	08150		STEEL REINFORCEMENT	5,623.00	LB		\$	
1220	20758ED		REMOVE AND RESET PERF PIPE HEADWALL	30.00	EACH		\$	
1230	22660EN		REPLACE GRATE	3,015.00	LB		\$	
1240	23629EC		REPAIR HEADWALL	2.00	EACH		\$	

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#### Section: 0004 - TRAINEES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1250	02742		TRAINEE PAYMENT REIMBURSEMENT GROUP 2, 3, OR 4 OPERATOR	1,400.00	HOUR		\$	

#### Section: 0005 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1260	02568		MOBILIZATION	1.00	LS		\$	
1270	02569		DEMOBILIZATION	1.00	LS		\$	

**Special Note for**  
**Longitudinal Texturing of Concrete Pavement**

Provide concrete pavement with longitudinal texturing. Depth, spacing, and any other details in regards to texturing will be completed as per Specification 501.03.13 H) with the exception of the direction of texturing, and the spacing of longitudinal grooves. Spacing for the longitudinal grooves will be 3/4 inch. Obtain the Resident Engineer's approval as per the method of construction. A test area will not be necessary, but the Engineer does retain the authority to stop work if a problem occurs.

Diamond grinding will not be considered an acceptable alternative. Ride Quality will also not be waived.

No direct payment will be made for texturing of the pavement and it will be considered incidental to JPC Pavement.

**SPECIAL NOTE FOR DOWEL BAR AND TIE BAR PLACEMENT IN JPC PAVEMENT**

This Special Note will apply where indicated on the plans or in the proposal. Section references herein are to the Department’s current Standard Specifications for Road and Bridge Construction.

**1.0 DESCRIPTION.** This Special Note applies when new JPC pavement is placed on a project. Allowable tolerances are outlined for both dowel bar and tie bar placement in driving lanes and shoulders. Concrete patches will not be tested under this special note unless they are required as corrective work under subsection 3.1. Testing applies to all joints except that transverse joints in the shoulders will not be tested. *Working with concrete requires at least seven days or more of curing time. The concrete should be dry for at least 24 hrs prior to testing.*

This Special Note specifies the allowable tolerances for placement of dowel bars and tie bars in JPC pavement.

**2.0 MATERIALS.** Conform to Subsection 501 or 502 of the current Standard Specifications. Consistent with Standard Drawing RPS-020-13, dowel baskets will be manufactured with the mid-point of the dowel bar at T/2.

**3.0 CONSTRUCTION.**

**3.1 Dowel Bars.** Transverse dowel bars, which are generally in baskets, should be located in the center of the slab vertically. They should not be skewed or rotated. Contrary to Section 501 of the Standard Specification and Standard Drawing RPS-020-13, place dowel bars to the tolerances shown in the table below.

<b>Dimension</b>	<b>Tolerance</b>
Horizontal offset	± 1 inch
Longitudinal translation	± 3 inches
Horizontal skew	½ inch, max
Vertical skew	½ inch, max
Vertical depth	<p>The minimum distance below the concrete pavement surface must be:  <math>DB = T/3 + 1/2</math> inch</p> <p>Where:                      DB = vertical distance in inches, measured from the concrete pavement surface to any point along the top of dowel bar; and                      T = actual concrete pavement thickness at joint location, in inches.</p> <p>The maximum distance below the surface to any point along the dowel bar should be <math>2T/3</math>.</p>

Dowel bars determined to be out of tolerance are to be marked in the field with marking paint. Corrective work will be required for the following circumstances:

- if 3 or more bars are higher than  $T/3 + \frac{1}{2}$  inch from the top of the slab or lower than  $2T/3$  (as measured from the top) for the bottom of the slab
- if 3 or more bars are translated longitudinally 3 inches or more
- if more than two consecutive joints have any bars that are skewed vertically or horizontally

Any corrective work shall be completed in accordance with the current special note 11J – Special Note for Full Depth Concrete Pavement Repair. Contrary to Special Note 11J, all joint repairs completed due to corrective work shall be sealed with silicone rubber unless approved by the Engineer.

**3.2 Tie Bars.** Install tie bars at a depth equal to  $\frac{1}{2}$  of the slab thickness. Tie bars shall be perpendicular to the longitudinal joint and parallel with the concrete pavement surface. Installation shall be to the tolerances outlined below.

- Not less than  $\frac{1}{2}$  inch below the saw cut depth of the joints
- 2" clearance from the tie bar and bottom of pavement

Corrective action will be required for the following circumstances:

- 2 consecutive tie bars are missing or outside of the tolerance listed above
- 4 or more bars in a slab are missing or outside of the tolerances listed (does not have to be consecutive)

The correction shall be made by cross stitching to place the new tie bars accordingly.

#### 4.0 MEASUREMENT

**4.1 Testing Limits.** All driving lanes requiring load transfer assemblies will be tested with Ground Penetrating Radar (GPR) equipment. All longitudinal joints will be tested. The Kentucky Transportation Center (KTC) will perform all testing.

**4.2 Validation.** A minimum of one location per lane mile will be cored to verify GPR testing. Two 4 inch cores shall be obtained at each location. One core will be taken on each dowel bar end to expose both ends and allow physical measurements. KTC will conduct coring while the contractor shall patch all core holes.

November 5, 2014

**SPECIAL NOTE FOR PAVEMENT TYPES  
PENNYRILE PARKWAY  
CHRISTIAN AND HOPKINS COUNTIES  
ITEM NO. 2-2082  
MP 16.566 TO MP 19.900 NB & SB**

**PAVEMENT TYPE**

Mainline Pennyrile Parkway pavement will be JPC Pavement-9 in, no alternates. Mainline Pennyrile Parkway inside shoulder will be JPC Pavement-9 in Shld, no alternates. Proposals for use of alternate pavements for the mainline Pennyrile Parkway and the mainline Pennyrile Parkway inside shoulder will not be considered.

**VALUE ENGINEERING**

In accordance with Section 111.03.03 of the KY Standard Specifications, the Department will not consider any Value Engineering Change Proposal. The Department will not accept any Value Engineering Change Proposal that includes the substitution or elimination of JPC Pavement on the mainline Pennyrile Parkway or mainline Pennyrile Parkway inside shoulder, by use of an alternate paving material.