

Matthew G. Bevin Governor

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

Greg Thomas Secretary

July 26, 2016

CALL NO. 102 CONTRACT ID NO. 161245 ADDENDUM # 4

Subject: Jefferson County, NHPP IM 2653 (039) Letting July 29, 2016

(1)Revised - Plans - R2F, R2G, R49, R82 & T1
(2)Revised - Bid Items - Pages 208-211 of 211

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

Plan revisions are available at <a href="http://www.lynnimaging.com/kytransportation/">http://www.lynnimaging.com/kytransportation/</a>.

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

Sincerely,

Kachel Mille

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

RM:ks Enclosures



An Equal Opportunity Employer M/F/D

6572PAVE MARKING-DOTTED LAN6574PAVE MARKING-THERMO CUR8504EPOXY SAND SLURRY8526CONC CLASS M FULL DEPTH8534CONCRETE OVERLAY - LATE8540JOINT SEALING8549BLAST CLEANING8551MACHINE PREP OF SLAB10020NSFUEL ADJUSTMENT20550NDSAWCUT PAVEMENT22665ENREMOVE NON-MOUNTABLE ME24489ECINLAID PAVEMENT MARKER24731ECREMOVE AND RESET2599FABRIC - GEOTEXTILE TYPE	A PATCH 3 X 4 6 EDIAN
6574PAVE MARKING-THERMO CUR8504EPOXY SAND SLURRY8526CONC CLASS M FULL DEPTH8534CONCRETE OVERLAY - LATE8540JOINT SEALING8549BLAST CLEANING8551MACHINE PREP OF SLAB10020NSFUEL ADJUSTMENT20550NDSAWCUT PAVEMENT22665ENREMOVE NON-MOUNTABLE ME24489ECINLAID PAVEMENT MARKER2473IECREMOVE AND RESET	A PATCH 3 X 4 6 EDIAN
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22665ENREMOVE NON-MOUNTABLE ME24489ECINLAID PAVEMENT MARKER24731ECREMOVE AND RESET	5
24489ECINLAID PAVEMENT MARKER24731ECREMOVE AND RESET	5
24731EC REMOVE AND RESET	

# **GENERAL SUMMARY**

UNIT	0LD HENRY RD (KY 3084)	RAMP 7	RAMP 3				
LF	276						
EACH	50	36	24				
SQYD	80						
CUYD	33						
CUYD	101.1						
LF	500						
SQYD	2998						
SQYD	2998						
DOLL	16216						
LF	7638	1682	1153				
SQYD	3785						
EACH	292						
EACH	2						
SY	2000						
	I	1					

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-474.00	R2F

Revised 7/22/16

			L S
			DJE
			PROJECT TOTALS
			276
			110
			80
			33
			101.1
			500
			2998
			2998
			16216
			10473
			3785
			292
			2
			2000
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	1	1	

### NOTES:

- (1) FOR MAINTENANCE OF TRAFFIC
  PURPOSES
- 2 APPROX. 29.0 ACRES (2.5 ACRES GRUBBING)
- (3) ESTIMATED AT 5% OF DECK AREA
- (4) 1.25" CONCRETE LATEX OVERLAY OVER ENTIRE BRIDGE DECK AREA
- (5) REMOVE AND RESET CURB BOX INLET, TOP PHASE AT BRIDGE ENDS
- G QUANTITY INCLUDED FOR REPLACEMENT OF DAMAGED SEALS AS A RESULT OF DIAMOND GRINDING.
- QUANTITY INCLUDED FOR TREATMENT OF AREAS OF EXISTING ROCK EMBANKMENT AS SPECIFIED IN GEOTECHNICAL NOTE #11.

GENERAL SUMMARY

ITEM	DESCRIPTION	
6572	PAVE MARKING-DOTTED LANE EXTEN	
6574	PAVE MARKING-THERMO CURV ARROW	E
8504	EPOXY SAND SLURRY	5
8526	CONC CLASS M FULL DEPTH PATCH 3	
8534 8540	CONCRETE OVERLAY - LATEX(4)JOINT SEALING(6)	
8549	BLAST CLEANING	5
8551	MACHINE PREP OF SLAB	S
10020NS	FUEL ADJUSTMENT	
20550ND	SAWCUT PAVEMENT	
22665EN 24489EC	REMOVE NON-MOUNTABLE MEDIAN INLAID PAVEMENT MARKER	
24731EC	REMOVE AND RESET	
2599	FABRIC - GEOTEXTILE TYPE IV (7)	
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lded quantity fo	r =	
bric-Geotextile		
pe IV		
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			GE	NERA	L SU	MMA	RY										COUN JEFFE		TEM NO. -474.00	SHEET NO.
	RD																	sed 7/22/		
UNIT	ОLD НЕNRY R (KY 3084)	RAMP 7	RAMP 3											PROJECT TOTALS	NOTE					
LF	276													276		FOR MAI Purpose	NTENANCE OF	TRAFFIC		
EACH	50	36	24											110	2		29.0 ACRES			G)
SQYD CUYD	80 33													80	(3) (4)		ED AT 5% OI NCRETE LATE			IRE
CUYD LF	101 <b>.</b> 1 500													101.1			NCRETE LATE DECK AREA			
SQYD	2998													2998	5		AND RESET T BRIDGE EN			
SQYD DOLL	2998 16216													2998 16216	6	QUANTIT DAMAGE[ GRINDIN	Y INCLUDED ) SEALS AS	FOR REPLAC A RESULT C	CEMENT OF DF DIAMONE	D
LF SQYD	7638	1682	1153											10473		QUANTIT OF EXIS	Y INCLUDED TING ROCK E	FOR TREATMUSE	MENT OF A AS SPECII	AREAS FIED
EACH	292													292	Eur	IN GEOT	ECHNICAL NO	TE #11.		5
SY EXCHI	2000		$\sim$	$\cdots$	$\cdots$	$\sim$	$\sim$	$\cdots$						2000			$\mathbf{i}$			
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GENERAL SUMMARY

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# SUMMARY

ТОТАL ГОЗLОЯЯ												JEFFE Revis	5-4 /22/1	6	R20																																																																																																																
	5471       5471       15295       15295       52       7       7       7       7       7       7       7       7       7       6137       6137       52       7 <tr <="" th="" tr<=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7 9MAA</td><td>1865         3106         12         2         2         3440         3440         675         675</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5 GMAA</td><td>1438       3918       3918       10       1       1       2697       2697</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>KY 3084</td><td>2168 7921 30 30 5301 5301 5301</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>UNIT</td><td>TONS         TONS         TONS           10NS         10NS         10NS           10NS         20         YD           20         YD         20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><th>ITEM</th><th>00003         CRUSHED STONE BASE         (1)           00078         CRUSHED AGGREGATE SIZE NO. 2         (2)           00100         ASPHALT SEAL AGGREGATE SIZE NO. 2         (2)           00103         ASPHALT SEAL COAT         (1)           00103         ASPHALT SEAL COAT         (1)           02069         JPC PAVEMENT - 10 IN         (1)           02081         JPC PAVEMENT - 8 IN SHLD         (2)           02083         JPC PAVEMENT - 8 IN         (1)           02084         JPC PAVEMENT - 8 IN         (1)</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr> <tr><td>2 3</td><td>ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH. INCLUDES 10% ADDITIONAL MATERIAL IN THE BOTTOM 4" OF DESIGN AS A CONSTRUCTION TOLERANCE FOR ROCK SUBGR/ USED IN SHOULDER, MEDIAN, AND TRAVEL WAY OF KY 3084 USED IN SHOULDER AND TRAVEL WAY OF RAMPS USED IN FULL DEPTH SHOULDER WEDGE OF KY 3084 USED IN FULL DEPTH SHOULDER WEDGE OF RAMPS</td><td></td><td>8 Q</td><td>UANT</td><td>ITY</td><td>DES</td><td>2 TO</td><td>NS F</td><td>or II</td><td>NSTAL</td><td></td><td>SHOUI OF TI (NO. RFORAT</td><td>IPE H</td><td></td><td></td></tr>																															7 9MAA	1865         3106         12         2         2         3440         3440         675         675															5 GMAA	1438       3918       3918       10       1       1       2697       2697															KY 3084	2168 7921 30 30 5301 5301 5301															UNIT	TONS         TONS         TONS           10NS         10NS         10NS           10NS         20         YD           20         YD         20															ITEM	00003         CRUSHED STONE BASE         (1)           00078         CRUSHED AGGREGATE SIZE NO. 2         (2)           00100         ASPHALT SEAL AGGREGATE SIZE NO. 2         (2)           00103         ASPHALT SEAL COAT         (1)           00103         ASPHALT SEAL COAT         (1)           02069         JPC PAVEMENT - 10 IN         (1)           02081         JPC PAVEMENT - 8 IN SHLD         (2)           02083         JPC PAVEMENT - 8 IN         (1)           02084         JPC PAVEMENT - 8 IN         (1)															2 3	ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH. INCLUDES 10% ADDITIONAL MATERIAL IN THE BOTTOM 4" OF DESIGN AS A CONSTRUCTION TOLERANCE FOR ROCK SUBGR/ USED IN SHOULDER, MEDIAN, AND TRAVEL WAY OF KY 3084 USED IN SHOULDER AND TRAVEL WAY OF RAMPS USED IN FULL DEPTH SHOULDER WEDGE OF KY 3084 USED IN FULL DEPTH SHOULDER WEDGE OF RAMPS		8 Q	UANT	ITY	DES	2 TO	NS F	or II	NSTAL		SHOUI OF TI (NO. RFORAT	IPE H		
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PAVING

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# SUMMARY PAVING

	Revised quantity for Crushed Aggregate Size No. 2	COUNTY OFITEM NO.SHEETJEFFERSON5-474.00R2GRevised 7/22/16
РВОЈЕСТ		
JATOT		
T 9MAA		
5 9MAA		
KY 3084	7921         7921           7921         300           2641         2641           5301         5301	
UNIT		
	Crusted Assertion The	
ITEM CODE		
1	NOTES  ESTIMATED AT 115 LBS, PER SQ. YD. PER INCH OF DEPTH. INCLUDES 10% ADDITIONAL MATERIAL IN THE BOTTOM 4" OF THE PAVEMENT DESIGN AS A CONSTRUCTION TOLERANCE FOR ROCK SUBGRADE.  USED IN SUCH DEP, MEDIAN, AND, TRAVEL, WAY, OF KY 2004	DE EDGE OF PAVE SHOULDER TO POINT

④ USED IN FULL DEPTH SHOULDER WEDGE OF KY 3084
 ⑤ USED IN FULL DEPTH SHOULDER WEDGE OF RAMPS
 ⑥ ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH AND USED IN ROCK ROADBE

TREATMENT OF AREAS OF EXISTING ROCK EMBANKMENT AS SPECIFIED IN GEOTECHNICAL NOTE #11.		ΡΑ\
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ΚY	3084
PAVING	SUMMARY

	SPEC	CIAL TRAFFIC CONTROL NOTES (CONTINUED)
	SIGN	NAL NOTES FOR EXISTING SIGNALIZED INTERSECTIONS
	INTE The Trai	FFIC SIGNALS SHALL BE USED FOR THE CONTROL OF VEHICULAR TRA ERSECTION AT ALL TIMES EXCEPT AS DIRECTED OTHERWISE IN THE ENGINEER DETERMINES THAT CONDITIONS ARE SUCH THAT FLAGPERS FFIC. WHEN FLAGPERSONS ARE USED FOR TRAFFIC CONTROL THROUG INTERSECTION SHALL BE TURNED OFF.
	UNIF APPF CLEA CABI	ESS OTHERWISE NOTED, ALL EXISTING TRAFFIC SIGNALS SHALL CONF FORM TRAFFIC CONTROL DEVICES AT ALL TIMES. ANY DEVIATION FF ROVAL OF THE ENGINEER. ALL SIGNAL HEADS THAT ARE NOT IN USE ARLY INDICATE THEY ARE NOT IN OPERATION. NEW SIGNAL CONDUCT LE TO ALLOW FOR A LATERAL MOVEMENT OF THE SIGNAL INDICATION INDICATED LOCATION ON THE CONTRACT DRAWINGS.
	ABIL	ING CONSTRUCTION, THE TRAFFIC SIGNAL CONTROLLER MAY BE OPER .ITY OF THE SIGNAL CONTROLLER. ASSISTANCE IN ADJUSTING SIGNA JESTED THROUGH THE ENGINEER FROM THE DISTRICT TRAFFIC ENGIN
	AND VISI	T TURN SIGNALS SHALL BE COVERED AND LEFT IN PLACE WHEN LEFT LEFT TURNING TRAFFIC. THROUGH TRAFFIC SIGNALS SHALL BE SHI BLE SIGNAL INDICATIONS FOR THIS RELOCATED TRAFFIC. RELOCATE JECTED LANE LINES FOR EACH LANE OF TRAFFIC AS DIRECTED BY T
	TO	ER ROADWAY WORK WITHIN THE INTERSECTION IS COMPLETED, TRAFF Their permanent locations as indicated on the contract pla Removed and the signals permanently connected.
	PAY	MENT FOR THIS SIGNAL WORK IS INCLUDED IN THE BID ITEM "MAINT
		STING OPERATIONS Blasting shall be allowed for this project.
	POR	TABLE CHANGEABLE MESSAGE SIGNS TABLE CHANGEABLE MESSAGE SIGNS SHALL BE IN ACCORDANCE WITH PORTABLE CHANGEABLE MESSAGE SIGNS.
	POR	TABLE FLASHING ARROW
	THE STAI IN T "MAI	CONTRACTOR SHALL PROVIDE PORTABLE FLASHING ARROWS AS INDIC PORTABLE FLASHING ARROWS SHALL BE MOUNTED ON TRAFFIC-WOR NDARDS. THE ARROWS SHALL BE EITHER DIESEL POWERED OR ELEC THE CURRENT STANDARD DRAWINGS. PAYMENT FOR THE PORTABLE FL NTAIN AND CONTROL TRAFFIC". PAYMENT SHALL BE FULL COMPENSA MAINTAINING THE PORTABLE FLASHING ARROWS.
رامان 26, 2016	DAM	CONTRACTOR SHALL HAVE AVAILABLE ONE RESERVE FLASHING ARROW AGE OR MECHANICAL/ELECTRICAL FAILURE. NO DIRECT PAYMENT WI SHING ARROWS SHALL BECOME THE PROPERTY OF THE CONTRACTOR A OVAL OF PAVEMENT MARKINGS
USER: jli++le+on DATE PLOTTED: ,	THE THE OTHE TEMI	CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS AND RAISED TRAFFIC OPERATION IN USE. IN AREAS WHERE THE MARKING WILL ER REASONS WILL NOT BE REMOVED, MARKINGS SHALL BE OF A PERM PORARY MARKING WHICH MUST BE SUBSEQUENTLY REMOVED FROM UL OVABLE STRIPING TAPE. REMOVABLE STRIPING TAPE SHALL BE INCI
NAME: R04900MT	THE OBLI PRO	KINGS ON EXISTING OR TEMPORARY PAVEMENT MAY BE REMOVED BY SATISFACTION OF THE ENGINEER. PAINTING OF EXISTING MARKING ITERATE THE MARKINGS SHALL NOT BE ALLOWED. ANY EXISTING PER JECT WHICH WERE REMOVED FOR TEMPORARY PURPOSES SHALL BE RE ) MARKINGS SHALL BE IN ACCORDANCE WITH THE APPROPRIATE BID 1
-SHEET	CON	TRACTOR'S VEHICLES
11. 7. 443 E-	ENTE	CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAIN ER AND LEAVE WORK AREAS IN A MANNER WHICH WILL NOT BE HAZA ICLES SHALL NOT PARK OR STOP EXCEPT WITHIN WORK AREAS DESIG
oStation v8.11.		

AFFIC THROUGH THE PRESENTLY SIGNALIZED TRAFFIC CONTROL NOTES OR AT SUCH TIMES AS SONS SHOULD BE USED TO EXPEDITE THE FLOW OF GH THE INTERSECTION. TRAFFIC SIGNALS WITHIN

FORM TO THE REQUIREMENTS OF THE MANUAL ON ROM THIS REQUIREMENT SHALL HAVE THE WRITTEN E SHALL BE COVERED, TURNED OR TAKEN DOWN TO CTORS SHALL BE INSTALLED WITH SUFFICIENT SLACK N, IN EITHER DIRECTION, OF AT LEAST 15 FEET FROM

RATED IN THE PRE-TIMED MODE USING THE RECALL VAL CONTROLLER TIMING WILL BE AVAILABLE WHEN VEER.

T TURN LANES MUST BE USED FOR BOTH THROUGH IFTED TO THE LEFT TO POSITIONS THAT WILL PROVIDE ED SIGNALS SHALL BE LOCATED WITHIN OR ON THE THE ENGINEER.

FIC SIGNAL INDICATIONS SHALL BE ADJUSTED BACK NS. EXCESS LENGTHS OF SIGNAL CONDUCTORS SHALL

AIN AND CONTROL TRAFFIC".

THE SPECIAL NOTE

CATED ON THE PLANS OR REQUIRED BY THE ENGINEER. RTHY CARRIAGES THAT MEET ALL APPLICABLE SAFETY CTRIC AND SHALL MEET THE REQUIREMENTS SPECIFIED LASHING ARROWS WILL BE INCIDENTAL TO THE BID ITEM ATION FOR PROVIDING. PLACING. OPERATING. RELOCATING

)W TO BE PLACED IN OPERATION IN THE EVENT OF ILL BE ALLOWED FOR THE RESERVE UNIT. ALL AT THE COMPLETION OF THE PROJECT.

PAVEMENT MARKERS THAT DO NOT CONFORM TO CONFORM TO THE FINAL MARKING SCHEME OR FOR MANENT TYPE PAVEMENT MARKING MATERIAL. ALL \_TIMATE PAVEMENT SHALL BE AN APPROVED IDENTAL TO THE BID ITEM "MAINTAIN AND CONTROL TRAFFIC."

EITHER AN ABRASION OR BURNING PROCESS TO WITH BITUMINOUS OR OTHER MATERIALS TO RMANENT MARKINGS BEYOND THE LIMITS OF THE EPLACED IN KIND. PAYMENT FOR REPLACING ITEMS FOR THE TYPE OF STRIPING REMOVED.

INST THE FLOW OF TRAFFIC. VEHICLES SHALL ARDOUS TO OR INTERFERE WITH NORMAL TRAFFIC. GNATED BY THE ENGINEER.

CONSTRUCTION SEQUENCING

TRAFFIC WILL BE MAINTAINED ON KY 3084, TIMES DURING THE COURSE OF THE PROJEC PHASES, SOME OF WHICH MAY RUN CONCURR

OLD HENRY ROAD- WEST OF RAMP 3

PHASE 1A - REDUCE LANE WIDTH IN WESTE CONSTRUCT RIGHT TURN LANE ONTO NELSO TO USE THE EXISTING ROADWAY.

PHASE 1B - REDUCE LANE WIDTH IN EASTBC

PHASE 2 - TRAFFIC WILL UTILIZE NEW CON WESTBOUND DIRECTIONS. A WORK ZONE WIL CONSTRUCT UNDERLYING PAVEMENT IN THE CONTROL IN PHASES 3A AND 3B.

PHASE 3 - MARK PAVEMENT AS SHOWN IN

PHASE 4 - SHIFT TRAFFIC TOWARD THE ED RECONSTRUCT A NEW MEDIAN TO PROVIDE

OLD HENRY ROAD- EAST OF RAMP 3

PHASE 1 - WIDEN NORTH SIDE OF KY 3084

PHASE 2 - SHIFT TRAFFIC TOWARD THE ED REMOVE MEDIAN AND CONSTRUCT UNDERLYI THIS PAVEMENT WILL BE USED FOR TRAFFI

PHASE 3 - MARK PAVEMENT AS SHOWN IN

PHASE 4 - SHIFT TRAFFIC TOWARD THE ED RECONSTRUCT A NEW MEDIAN TO PROVIDE

OLD HENRY ROAD AT BRIDGE

PHASE 2 - TRAFFIC WILL UTILIZE NEW CON WESTBOUND DIRECTIONS. A WORK ZONE WIL CONSTRUCT UNDERLYING PAVEMENT IN THE CONTROL IN PHASES 3A AND 3B.

PHASE 3A - THIS WORK SHALL BE PERFORM DURATION (FRIDAY 6 P.M. TO THE SECOND AS SHOWN ON THE MAINTENANCE OF TRAFF SAWCUT, DIG OUT, AND REPLACE AT EACH SAWCUT SHALL BE A MINIMUM OF 3 FEET A DEPTH OF 1/2". CONSTRUCT 1-1/4" LATEX SHALL ALLOW A MINIMUM OF 72 HOURS OF BRIDGE LANES. NO 24-HOUR OR 48-HOUR M

PHASE 3B - THIS WORK SHALL BE PERFORM DURATION (FRIDAY 6 P.M. TO THE SECOND AS SHOWN ON THE MAINTENANCE OF TRAFF SAWCUT, DIG OUT, AND REPLACE AT EACH SAWCUT SHALL BE A MINIMUM OF 3 FEET A DEPTH OF 1/2". CONSTRUCT 1-1/4" LATEX ALLOW A MINIMUM OF 72 HOURS OF CURING NO 24-HOUR OR 48-HOUR MIX DESIGNS WIL

PHASE 4 - CONSTRUCT NEW MEDIAN AND DI SHOULDERS. CONSTRUCT PERMANENT STR

I-265 NORTHBOUND EXIT RAMP (RAMP 3)

PHASE 1 - CLOSE INSIDE SHOULDER. TRAFFI REPAIR OF EXISTING PAVEMENT SLABS WILL FRIDAY 6 P.M. TO 5 A.M. THE FOLLOWING GENE SNYDER FREEWAY.

PHASE 3 - CONFIGURE RAMP AS SHOWN IN LARGE TRUCKS.

I-265 SOUTHBOUND EXIT RAMP (RAMP 7)

PHASE 1 - CLOSE INSIDE SHOULDER. TRAFFIC TO CONTINUE TO USE EXISTING RAMP. WIDEN RAMP TO THE INSIDE, AS REQUIRED. REPAIR OF EXISTING PAVEMENT SLABS WILL REQUIRE WEEKEND CLOSURES TO COMPLETE. THE RAMPS MAY BE CLOSED FROM FRIDAY 6 P.M. TO 5 A.M. THE FOLLOWING MONDAY. DIAMOND GRINDING SHALL EXTEND TO THE EXISTING GRINDING ON THE GENE SNYDER FREEWAY.

LARGE TRUCKS.

	COUNTY OF	ITEM NO.	SHEET NO.
Revised 7/26/16	JEFFERSON	5-474.00	R49
4, I-265 AND ITS RAMPS, NELSON MILLER PARKWAY AND TERR CT EXCEPT AS DESCRIBED BELOW. THE PROJECT SHALL BE CO RRENTLY.			
BOUND DIRECTION TO PROVIDE ROOM TO REMOVE SHOULDER C On Miller Parkway and Shoulder. Traffic on Eastbound			
BOUND DIRECTION TO CONSTRUCT NEW WIDENING AND SHOULDE INSTRUCTION AND A PORTION OF THE EXISTING ROADWAY IN E ILL BE CREATED IN THE CENTER OF THE EXISTING ROADWAY E AREAS WHERE THE MEDIAN IS REMOVED. THIS PAVEMENT WI	BOTH THE E, TO REMOVE	MEDIAN AND	)
THE MAINTENANCE OF TRAFFIC PLAN. DGES TO CREATE WORKING ROOM IN THE CENTER OF THE EXIS TURN LANES, WHERE REQUIRED.	STING ROADV	VAY.	
AS SHOWN ON PLANS. DGES TO CREATE WORKING ROOM IN THE CENTER OF THE EXIS ING PAVEMENT IN THE AREAS WHERE THE MEDIAN IS REMOVED IC CONTROL IN PHASES 3A AND 3B. THE MAINTENANCE OF TRAFFIC PLAN. DGES TO CREATE WORKING ROOM IN THE CENTER OF THE EXIS TURN LANES, WHERE REQUIRED.	)_		
ONSTRUCTION AND A PORTION OF THE EXISTING ROADWAY IN E Ill be created in the center of the existing roadway E areas where the median is removed. This pavement wi	TO REMOVE	MEDIAN AND	)
MED DURING A ROAD CLOSURE ONE WEEK AND THE FOLLOWING O MONDAY 5 A.M.). CLOSE WESTBOUND LANES BETWEEN RAMP FIC PLANS TO CREATE ADEQUATE ROOM FOR CONSTRUCTION. BRIDGE END FOR THE WESTBOUND LANES AS SHOWN ON THE FROM THE NEAREST EXISTING JOINT. HYDROBLAST EXISTING IX OVERLAY ON THE WESTBOUND LANES OF THE BRIDGE. THE F CURING TIME BEFORE TRAFFIC IS TO BE ALLOWED ON THE W MIX DESIGNS WILL BE ALLOWED.	3 AND RAMF Plans. Bridge dec Contracto	'7 К ТО	
MED DURING A ROAD CLOSURE ONE WEEK AND THE FOLLOWING MONDAY 5 A.M.). CLOSE EASTBOUND LANES BETWEEN RAMP FIC PLANS TO CREATE ADEQUATE ROOM FOR CONSTRUCTION. BRIDGE END FOR THE EASTBOUND LANES AS SHOWN ON THE F FROM THE NEAREST EXISTING JOINT. HYDROBLAST EXISTING X OVERLAY ON THE EASTBOUND LANES OF THE BRIDGE. THE NG TIME BEFORE TRAFFIC IS TO BE ALLOWED ON THE EASTBO LL BE ALLOWED.	3 AND RAMP Plans. Bridge de Contractoi	°7 Ck to R shall	
DIAMOND GRIND (1/4-INCH)ALL NEW AND EXISTING CONCRETE TRIPING.	TRAVEL LAN	es and	
FIC TO CONTINUE TO USE EXISTING RAMP. WIDEN RAMP TO LL REQUIRE WEEKEND CLOSURES TO COMPLETE. THE RAMPS N G MONDAY. DIAMOND GRINDING SHALL EXTEND TO THE EXISTIN	IAY BE CLOS	SED FROM	ED.
THE MAINTENANCE OF TRAFFIC PLAN TO PROVIDE ADEQUATE	TURNING RO	DOM FOR	
FIC TO CONTINUE TO USE EXISTING RAMP. WIDEN RAMP TO	THE INSIDE,	AS REQUIR	ED.

PHASE 3 - CONFIGURE RAMP AS SHOWN IN THE MAINTENANCE OF TRAFFIC PLAN TO PROVIDE ADEQUATE TURNING ROOM FOR

SIGNAL NOTES FOR EXISTING SIGNALIZED INTERSECTIONS
TRAFFIC SIGNALS SHALL BE USED FOR THE CONTROL OF VEHICULAR TRAFFIC THROUGH THE PRESENTLY SIGNALIZED INTERSECTION AT ALL TIMES EXCEPT AS DIRECTED OTHERWISE IN THE TRAFFIC CONTROL NOTES OR AT SUCH TIMES AS THE ENGINEER DETERMINES THAT CONDITIONS ARE SUCH THAT FLAGPERSONS SHOULD BE USED TO EXPEDITE THE FLOW OF TRAFFIC. WHEN FLAGPERSONS ARE USED FOR TRAFFIC CONTROL THROUGH THE INTERSECTION, TRAFFIC SIGNALS WITHIN THE INTERSECTION SHALL BE TURNED OFF.
UNLESS OTHERWISE NOTED, ALL EXISTING TRAFFIC SIGNALS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AT ALL TIMES. ANY DEVIATION FROM THIS REQUIREMENT SHALL HAVE THE WRITTEN APPROVAL OF THE ENGINEER. ALL SIGNAL HEADS THAT ARE NOT IN USE SHALL BE COVERED, TURNED OR TAKEN DOWN TO CLEARLY INDICATE THEY ARE NOT IN OPERATION. NEW SIGNAL CONDUCTORS SHALL BE INSTALLED WITH SUFFICIENT SLACK CABLE TO ALLOW FOR A LATERAL MOVEMENT OF THE SIGNAL INDICATION, IN EITHER DIRECTION, OF AT LEAST 15 FEET FROM THE INDICATED LOCATION ON THE CONTRACT DRAWINGS.
DURING CONSTRUCTION, THE TRAFFIC SIGNAL CONTROLLER MAY BE OPERATED IN THE PRE-TIMED MODE USING THE RECALL ABILITY OF THE SIGNAL CONTROLLER. ASSISTANCE IN ADJUSTING SIGNAL CONTROLLER TIMING WILL BE AVAILABLE WHEN REQUESTED THROUGH THE ENGINEER FROM THE DISTRICT TRAFFIC ENGINEER.
LEFT TURN SIGNALS SHALL BE COVERED AND LEFT IN PLACE WHEN LEFT TURN LANES MUST BE USED FOR BOTH THROUGH AND LEFT TURNING TRAFFIC. THROUGH TRAFFIC SIGNALS SHALL BE SHIFTED TO THE LEFT TO POSITIONS THAT WILL PROVIDE VISIBLE SIGNAL INDICATIONS FOR THIS RELOCATED TRAFFIC. RELOCATED SIGNALS SHALL BE LOCATED WITHIN OR ON THE PROJECTED LANE LINES FOR EACH LANE OF TRAFFIC AS DIRECTED BY THE ENGINEER.
AFTER ROADWAY WORK WITHIN THE INTERSECTION IS COMPLETED, TRAFFIC SIGNAL INDICATIONS SHALL BE ADJUSTED BACK TO THEIR PERMANENT LOCATIONS AS INDICATED ON THE CONTRACT PLANS. EXCESS LENGTHS OF SIGNAL CONDUCTORS SHALL BE REMOVED AND THE SIGNALS PERMANENTLY CONNECTED.
PAYMENT FOR THIS SIGNAL WORK IS INCLUDED IN THE BID ITEM "MAINTAIN AND CONTROL TRAFFIC".
BLASTING OPERATIONS
NO BLASTING SHALL BE ALLOWED FOR THIS PROJECT.
PORTABLE CHANGEABLE MESSAGE SIGNS PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE IN ACCORDANCE WITH THE SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS.
PORTABLE FLASHING ARROW
THE CONTRACTOR SHALL PROVIDE PORTABLE FLASHING ARROWS AS INDICATED ON THE PLANS OR REQUIRED BY THE ENGINEER. THE PORTABLE FLASHING ARROWS SHALL BE MOUNTED ON TRAFFIC-WORTHY CARRIAGES THAT MEET ALL APPLICABLE SAFETY STANDARDS. THE ARROWS SHALL BE EITHER DIESEL POWERED OR ELECTRIC AND SHALL MEET THE REQUIREMENTS SPECIFIED IN THE CURRENT STANDARD DRAWINGS. PAYMENT FOR THE PORTABLE FLASHING ARROWS WILL BE INCIDENTAL TO THE BID ITEM "MAINTAIN AND CONTROL TRAFFIC". PAYMENT SHALL BE FULL COMPENSATION FOR PROVIDING, PLACING, OPERATING, RELOCATING AND MAINTAINING THE PORTABLE FLASHING ARROWS.
THE CONTRACTOR SHALL HAVE AVAILABLE ONE RESERVE FLASHING ARROW TO BE PLACED IN OPERATION IN THE EVENT OF DAMAGE OR MECHANICAL/ELECTRICAL FAILURE. NO DIRECT PAYMENT WILL BE ALLOWED FOR THE RESERVE UNIT. ALL FLASHING ARROWS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AT THE COMPLETION OF THE PROJECT. REMOVAL OF PAVEMENT MARKINGS
THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS THAT DO NOT CONFORM TO THE TRAFFIC OPERATION IN USE. IN AREAS WHERE THE MARKING WILL CONFORM TO THE FINAL MARKING SCHEME OR FOR OTHER REASONS WILL NOT BE REMOVED, MARKINGS SHALL BE OF A PERMANENT TYPE PAVEMENT MARKING MATERIAL. ALL TEMPORARY MARKING WHICH MUST BE SUBSEQUENTLY REMOVED FROM ULTIMATE PAVEMENT SHALL BE AN APPROVED REMOVABLE STRIPING TAPE. REMOVABLE STRIPING TAPE SHALL BE INCIDENTAL TO THE BID ITEM "MAINTAIN AND CONTROL TRAFFIC."
MARKINGS ON EXISTING OR TEMPORARY PAVEMENT MAY BE REMOVED BY EITHER AN ABRASION OR BURNING PROCESS TO THE SATISFACTION OF THE ENGINEER. PAINTING OF EXISTING MARKING WITH BITUMINOUS OR OTHER MATERIALS TO OBLITERATE THE MARKINGS SHALL NOT BE ALLOWED. ANY EXISTING PERMANENT MARKINGS BEYOND THE LIMITS OF THE PROJECT WHICH WERE REMOVED FOR TEMPORARY PURPOSES SHALL BE REPLACED IN KIND. PAYMENT FOR REPLACING SAID MARKINGS SHALL BE IN ACCORDANCE WITH THE APPROPRIATE BID ITEMS FOR THE TYPE OF STRIPING REMOVED.
CONTRACTOR'S VEHICLES

 $\geq$ 

CONSTRUCTION SEQUENCING

TRAFFIC WILL BE MAINTAINED ON KY 3084, TIMES DURING THE COURSE OF THE PROJEC PHASES, SOME OF WHICH MAY RUN CONCURR

OLD HENRY ROAD- WEST OF RAMP 3

PHASE 1A - REDUCE LANE WIDTH IN WESTB CONSTRUCT RIGHT TURN LANE ONTO NELSON TO USE THE EXISTING ROADWAY.

PHASE 1B - REDUCE LANE WIDTH IN EASTBO

PHASE 2 - TRAFFIC WILL UTILIZE NEW CON WESTBOUND DIRECTIONS. A WORK ZONE WIL CONSTRUCT UNDERLYING PAVEMENT IN THE CONTROL IN PHASES 3A AND 3B.

PHASE 3 - MARK PAVEMENT AS SHOWN IN

PHASE 4 - SHIFT TRAFFIC TOWARD THE FDO RECONSTRUCT A NEW MEDIAN TO PROVIDE

OLD HENRY ROAD- EAST OF RAMP 3

PHASE 1 - WIDEN NORTH SIDE OF KY 3084

PHASE 2 - SHIFT TRAFFIC TOWARD THE EDU REMOVE MEDIAN AND CONSTRUCT UNDERLYI THIS PAVEMENT WILL BE USED FOR TRAFFIC

PHASE 3 - MARK PAVEMENT AS SHOWN IN

PHASE 4 - SHIFT TRAFFIC TOWARD THE EDO RECONSTRUCT A NEW MEDIAN TO PROVIDE

OLD HENRY ROAD AT BRIDGE

PHASE 2 - TRAFFIC WILL UTILIZE NEW CON WESTBOUND DIRECTIONS. A WORK ZONE WIL CONSTRUCT UNDERLYING PAVEMENT IN THE CONTROL IN PHASES 3A AND 3B.

PHASE 3A - THIS WORK SHALL BE PERFORM DURATION (FRIDAY 6 P.M. TO THE SECOND AS SHOWN ON THE MAINTENANCE OF TRAFF SAWCUT, DIG OUT, AND REPLACE AT EACH SAWCUT SHALL BE A MINIMUM OF 3 FEET A DEPTH OF 1/2". CONSTRUCT 1-1/4" LATEX SHALL ALLOW A MINIMUM OF 72 HOURS OF BRIDGE LANES. NO 24-HOUR OR 48-HOUR MI

PHASE 3B - THIS WORK SHALL BE PERFORM DURATION (FRIDAY 6 P.M. TO THE SECOND AS SHOWN ON THE MAINTENANCE OF TRAFF SAWCUT, DIG OUT, AND REPLACE AT EACH SAWCUT SHALL BE A MINIMUM OF 3 FEET A DEPTH OF 1/2". CONSTRUCT 1-1/4" LATEX ALLOW A MINIMUM OF 72 HOURS OF CURING NO 24-HOUR OR 48-HOUR MIX DESIGNS WIL

PHASE 4 - CONSTRUCT NEW MEDIAN AND DI SHOULDERS. CONSTRUCT PERMANENT STR

I-265 NORTHBOUND EXIT RAMP (RAMP 3)

PHASE 1 - CLOSE INSIDE SHOULDER. TRAFFI REPAIR OF EXISTING PAVEMENT SLABS WILL FRIDAY 6 P.M. TO 5 A.M. THE FOLLOWING GENE SNYDER FREEWAY.

PHASE 3 - CONFIGURE RAMP AS SHOWN IN LARGE TRUCKS.

I-265 SOUTHBOUND EXIT RAMP (RAMP 7)

PHASE 1 - CLOSE INSIDE SHOULDER. TRAFFI REPAIR OF EXISTING PAVEMENT SLABS WIL FRIDAY 6 P.M. TO 5 A.M. THE FOLLOWING SNYDER FREEWAY.

PHASE 3 - CONFIGURE RAMP AS SHOWN IN THE MAINTENANCE OF TRAFFIC PLAN TO PROVIDE ADEQUATE TURNING ROOM FOR LARGE TRUCKS.

Revised notes for Portable Flashing Arrow and Removal of Pavement Markings

Revised 7/26/16	COUNTY OF	ITEM NO.	SHEET NO.
	JEFFERSON	5-474.00	R49
4, I-265 AND ITS RAMPS, NELSON MILLER PARKWAY AND TERR CT EXCEPT AS DESCRIBED BELOW. THE PROJECT SHALL BE CO RRENTLY.			
BOUND DIRECTION TO PROVIDE ROOM TO REMOVE SHOULDER C On Miller Parkway and shoulder. Traffic on eastbound			
BOUND DIRECTION TO CONSTRUCT NEW WIDENING AND SHOULDE INSTRUCTION AND A PORTION OF THE EXISTING ROADWAY IN E ILL BE CREATED IN THE CENTER OF THE EXISTING ROADWAY E AREAS WHERE THE MEDIAN IS REMOVED. THIS PAVEMENT WI	BOTH THE EA TO REMOVE I	MEDIAN AND	)
THE MAINTENANCE OF TRAFFIC PLAN. DGES TO CREATE WORKING ROOM IN THE CENTER OF THE EXIS TURN LANES, WHERE REQUIRED.	TING ROADW	AY.	
AS SHOWN ON PLANS. DGES TO CREATE WORKING ROOM IN THE CENTER OF THE EXIS ING PAVEMENT IN THE AREAS WHERE THE MEDIAN IS REMOVED IC CONTROL IN PHASES 3A AND 3B. THE MAINTENANCE OF TRAFFIC PLAN.		ΑΥ.	
DGES TO CREATE WORKING ROOM IN THE CENTER OF THE EXIS TURN LANES, WHERE REQUIRED.	TING ROADW	AY.	
NSTRUCTION AND A PORTION OF THE EXISTING ROADWAY IN E Ill be created in the center of the existing roadway E areas where the median is removed. This pavement wi	TO REMOVE	MEDIAN AND	)
MED DURING A ROAD CLOSURE ONE WEEK AND THE FOLLOWING MONDAY 5 A.M.). CLOSE WESTBOUND LANES BETWEEN RAMP FIC PLANS TO CREATE ADEQUATE ROOM FOR CONSTRUCTION. BRIDGE END FOR THE WESTBOUND LANES AS SHOWN ON THE F FROM THE NEAREST EXISTING JOINT. HYDROBLAST EXISTING X OVERLAY ON THE WESTBOUND LANES OF THE BRIDGE. THE F CURING TIME BEFORE TRAFFIC IS TO BE ALLOWED ON THE W MIX DESIGNS WILL BE ALLOWED.	3 AND RAMP Plans. Bridge deck contractof	7 ( TO	
MED DURING A ROAD CLOSURE ONE WEEK AND THE FOLLOWING MONDAY 5 A.M.). CLOSE EASTBOUND LANES BETWEEN RAMP 3 FIC PLANS TO CREATE ADEQUATE ROOM FOR CONSTRUCTION. BRIDGE END FOR THE EASTBOUND LANES AS SHOWN ON THE F FROM THE NEAREST EXISTING JOINT. HYDROBLAST EXISTING X OVERLAY ON THE EASTBOUND LANES OF THE BRIDGE. THE NG TIME BEFORE TRAFFIC IS TO BE ALLOWED ON THE EASTBOU LL BE ALLOWED.	3 AND RAMP Plans. Bridge dec contractor	7 CK TO SHALL	
DIAMOND GRIND (1/4-INCH) ALL NEW AND EXISTING CONCRETE T RIPING.	TRAVEL LANE	ES AND	
FIC TO CONTINUE TO USE EXISTING RAMP. WIDEN RAMP TO LL REQUIRE WEEKEND CLOSURES TO COMPLETE. THE RAMPS M MONDAY. DIAMOND GRINDING SHALL EXTEND TO THE EXISTIN	IAY BE CLOS	ED FROM	ED.
THE MAINTENANCE OF TRAFFIC PLAN TO PROVIDE ADEQUATE	TURNING RO	OM FOR	
FIC TO CONTINUE TO USE EXISTING RAMP. WIDEN RAMP TO LL REQUIRE WEEKEND CLOSURES TO COMPLETE. THE RAMPS M MONDAY. DIAMOND GRINDING SHALL EXTEND TO THE EXISTIN	IAY BE CLOS	ED FROM	
THE MAINTENANCE OF TRAFFIC PLAN TO PROVIDE ADEOLIATE		OM FOR	

MAINTENANCE OF TRAFFIC NOTES

TO TRANSPORTATION CABINE	1. Clearing and grubbing of embankment areas shall be co the current Kentucky Department of Highways Standard Spec Construction.
00\DELIVERABLES\SENT	2. Removal of existing structures and other obstructions Section 203 of the current Kentucky Department of Highway Bridge Construction.
5-474.	3. All water wells and/or cisterns within the limits of not, shall be plugged in accordance with Section 708 of t Standard Specifications for Road and Bridge Construction.
KY 3084 INTERCHANGE	4. All catch basins and manholes shall be filled and cap accordance with Section 708 of the current Kentucky Depar for Road and Bridge Construction.
COUNTY I-265 @ K	5. Erosion control and water pollution prevention measur maintain compliance with Sections 212 and 213 of the curr Standard Specifications for Road and Bridge Construction.
PROJECTS/213-090 JEFFERSON 0	6. Excavation of surface ditches and channel changes adj performed prior to the placement of the adjacent embankme channel changes and surface ditches is suitable for embar moisture content in accordance with Section 206 of the Ke Specifications for Road and Bridge Construction. Direct rehandling, hauling, stockpiling and/or manipulating soil
T: \KYTC\13	7. In accordance with Section 206 of the current Kentuck Specifications for Road and Bridge Construction, the mois materials shall not vary from the optimum moisture conter than plus or minus two percent. This moisture content red density requirement when determining the acceptability of Refer to the Family of Curves for moisture/ density corre
FILE NAME:	8. The Contractor is responsible for conducting any oper and to build the fill areas to the required typical secti to Roadway Excavation or Embankment-in-Place and no addit work.
USER: jlittleton DATE PLOTTED: June 9, 2016	9. Wet or saturated areas are not anticipated, however, problems during embankment construction. The extent of th construction and seasonal water table fluctuations. If e wet or saturated areas as directed by the Engineer. Lime Aggregate #2's, #3's or 23's in accordance with Section & Highways Standard Specifications for Road and Bridge Cons with Geotextile Fabric, Type IV in accordance with Section Department of Highways Standard Specifications for Road
E-SHEET NAME: R08200GT DAT	10. All soils, whether from roadway excavation or borrow, moisture contents prior to compaction. Direct payment sho hauling, stockpiling and/or manipulating soils.
MicroStation v8.11.7.443	

# **GEOTECHNICAL NOTES**

completed in accordance with Section 202 of ecifications for Road and Bridge

ns shall be completed in accordance with ays Standard Specifications for Road and

f construction, whether shown on the plans or the current Kentucky Department of Highways

apped and all septic tanks shall be filled in artment of Highways Standard Specifications

ures shall be performed as necessary to rrent Kentucky Department of Highways n.

djacent to embankment areas shall be ments. The material excavated for the ankment construction if dried to proper Kentucky Department of Highways Standard t payment shall not be permitted for ils.

cky Department of Highways Standard isture content of embankment and subgrade ent, as determined by KM 64-511, by more equirement shall have equal weight with the of embankment or subgrade construction. relations.

erations necessary to excavate the cut areas tion. These operations shall be incidental itional compensation shall be made for this

, if encountered they could result in these problems will depend on time of encountered, limestone shall be placed over mestone must consist of Kentucky Coarse 805 of the current Kentucky Department of nstruction. The limestone shall be wrapped ions 214 and 843 of the current Kentucky and Bridge Construction.

w, may require manipulation to obtain proper hall not be permitted for re-handling, 11. Embankment foundation benche accordance with Standard Drawing the Engineer. Perforated pipe of roadbed. If an existing rock en embankment fill, embankment benc RGX-010 and RDP-006, except that excavated with a 1:1 slope to a vertical thickness of coarse age current Standard Specifications be wrapped with Type IV Geotext Standard Specifications to preve

12. Any existing drains encount the proposed embankment in acco

13. Construct a 2-foot rock road accordance with Section 805 of granular material shall be wrapp & 843 of the current Standard Sp embankment in fills and to the wet subgrade is encountered dur adjusted (increased) to also ser adjustments, as directed by the

14. No sinkholes were shown on reconnaissance of the site. If Branch should be contacted for i

		COUNTY OF	ITEM NO.	SHEET NO.
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		Revised 7	/22/16	
hes shall be constructed at the a higs RGX-010 and RDP-006, project underdrains may be omitted in ar embankment is encountered during othes shall be constructed in acc of the vertical rise will not be allow the use of a continuous roc ogregate Rock Drainage Blanket, i s, on the benches for a drainage tile Fabric in accordance with Se ent infiltration of fines into t	cross-sections, eas utilizing a construction in ordance with Sto excavated vertic k drainage blank n accordance wit blanket. The dr ctions 214 & 843	and as di two foot areas rec andard Dro cally but cet. Plac th Section ainage bl of the c	rected by rock quiring will be ce a 1-foc anket sha	nt he
Mainline 136+25 to 143+25 Lt.				
Ramp 7 238+25 to 242+25 Lt.				
Ramp 3 136+25 to 138+25 Lt.				
ered during grading operations s ordance with Standard Drawings RD			limits of	
adbed consisting of Kentucky Coar the current Standard Specification oped with Geotextile Fabric, Type opecifications and shall daylight ditchline in cuts to ensure posi ring construction, the thickness erve as a working platform for su e Engineer, may depend on seasona	ons, for the ent IV in accordance horizontally to tive drainage, of the rock road bgrade stabilizo	tire proje the with Se the edge Where sof bed may r tion. The	ect. The ections 21 e of t and/or need to be ese	
the geologic mapping and none we sinkholes are encountered durin repair recommendations.		-		
	DESIGNED BY: AMERICA DATE SUBMITTED: 6/10		INC.	
	Commonu DEPARTM		F HIGH	-
	J	EFFERS	SON	
	PROJECT NUMBERS: R-016-2016	53 (039)		
SHEET 1 OF 1				
	I GEO	TECHNICAL	NUTES	

GEOTEC
the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
2. Removal of existing structures and other obstructions shall be completed in accordance with Section 203 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
3. All water wells and/or cisterns within the limits of construction, whether shown on the plans not, shall be plugged in accordance with Section 708 of the current Kentucky Department of Highwa Standard Specifications for Road and Bridge Construction.
4. All catch basins and manholes shall be filled and capped and all septic tanks shall be filled accordance with Section 708 of the current Kentucky Department of Highways Standard Specification for Road and Bridge Construction.
5. Erosion control and water pollution prevention measures shall be performed as necessary to maintain compliance with Sections 212 and 213 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
6. Excavation of surface ditches and channel changes adjacent to embankment areas shall be performed prior to the placement of the adjacent embankments. The material excavated for the channel changes and surface ditches is suitable for embankment construction if dried to proper moisture content in accordance with Section 206 of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Direct payment shall not be permitted for rehandling, hauling, stockpiling and/or manipulating soils.
7. In accordance with Section 206 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, the moisture content of embankment and subgrade materials shall not vary from the optimum moisture content, as determined by KM 64-511, by more than plus or minus two percent. This moisture content requirement shall have equal weight with th density requirement when determining the acceptability of embankment or subgrade construction. Refer to the Family of Curves for moisture/ density correlations.
8. The Contractor is responsible for conducting any operations necessary to excavate the cut are and to build the fill areas to the required typical section. These operations shall be incidental to Roadway Excavation or Embankment-in-Place and no additional compensation shall be made for thi work.
9. Wet or saturated areas are not anticipated, however, if encountered they could result in problems during embankment construction. The extent of these problems will depend on time of construction and seasonal water table fluctuations. If encountered, limestone shall be placed ov wet or saturated areas as directed by the Engineer. Limestone must consist of Kentucky Coarse Aggregate #2's, #3's or 23's in accordance with Section 805 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. The limestone shall be wrappe with Geotextile Fabric, Type IV in accordance with Sections 214 and 843 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
10. All soils, whether from roadway excavation or borrow, may require manipulation to obtain prop moisture contents prior to compaction. Direct payment shall not be permitted for re-handling, hauling, stockpiling and/or manipulating soils.

# **GEOTECHNICAL NOTES**

	COUNTY OF	ITEM NO.	SHEET NO.
OTECHNICAL NOTES	JEFFERSON	5-474.00	R82
	tions list and as di two foot areas rec	rected by rock roiring	in N
RGX-010 and RDP-006, except that the vertical rise will not be excavated vertical excavated with a 1:1 slope to allow the use of a continuous rock drainage blank vertical thickness of coarse aggregate Rock Drainage Blanket, in accordance with current Standard Specifications, on the benches for a drainage blanket. The dr be wrapped with Type IV Geotextile Fabric in accordance with Sections 214 & 843 Standard Specifications to prevent infiltration of fines into the drainage blank	ket. Plac th Section rainage bl 3 of the c	ce a 1-foo n 210 of t Lanket sha	he
ne plans or F Highways 136+25 to 143+25 Lt.			
Ramp 7 Fications			
Ramp 3 136+25 to 138+25 Lt.			
y to 12. Any existing drains encountered during grading operations should be extende the proposed embankment in accordance with Standard Drawings RDP-050 and RDP-0 KDP-0		limits of	
the the coper andard or 	tire proje ce with Se o the edge Where sof dbed may r	ect. The ections 21 e of ft and/or need to be	1
adjusted (increased) to also serve as a working platform for subgrade stabilize adjustments, as directed by the Engineer, may depend on seasonal fluctuations ubgrade y more with the tion. Half No sinkholes were shown on the geologic mapping and none were observed dur reconnaissance of the site. If sinkholes are encountered during construction, Branch should be contacted for repair recommendations.	in the wat ing a fiel	ter table. Id	
cut areas cidental for this	ىرىن	ىرىرىر	
Added and renumbered Geotechnical Notes.			
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din proper ing, DATE SUBMITTED: 6/10		, INC.	
	ENT O	F HIGH OF	
	EFFER	SON	
PROJECT NUMBERS: R-016-2016	53 (039)		
SHEET 1 OF 1 GEO	TECHNICAL	NOTES	

				SI(	
DATE	DATE		EST		
		ITEM		CODE NUMBER	
PREPARED BY	LANEU BI Roved By	FOOTINGS FOR SIGNS CONCRETE- CLASS "A" FOR SIGNS		6490	CU
PRE	APP	SIGN BASE MATERIAL ALUMINUM ①SHEETING SIGNS 0.080 GAUGE		6406	SQ
		0.125 GAUGE		6407	SQ
		STEEL POST 234 TYPE 1		6410	LN
		BARCODE SIGN INVENTORY		24584EC	E
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# OF QUANTITIES

UNIT	OLD HENRY RD.	SB EXIT	NB EXIT		TOTALS
			QUAN	ITITY	 
CU. YD.	0	0.5	0.5		1.0
SQ. FT.	330	121.8	121.8		416
SQ. FT.	0	45	45		90
_N.FT.	741	125	125		991
EACH	119	12	12		143
LACH					175

# NO

- (1) WITH RAMP WITH
- (2) QUAN DETER THE E
- (3) WHER INCIE
- (4) QUAN COMP SHALL
- (5) ALL I SIGN PROPE
- (6) THE F SIGNS ADDIT ARE F ESTIN

	COUNTY OF	ITEM NO.	SHEET NO.
	JEFFERSON	5-474.00	T1
		od 7/26/46	1
TES :	Revis	ed 7/26/16	)
TH PERMISSION OF THE ENGINEER, SHEETING SIGNS ON THE MPS AND SIDE ROADS MAY BE MOVED TO BE COMPATIBLE TH THE EXISTING SIGNS.			
ANTITY IS ESTIMATED. THE EXACT LENGTH SHALL BE Fermined by the contractor and approved by E engineer.			
ERE REQUIRED, BRACING FOR SHEETING SIGNS SHALL BE IDENTAL TO STEEL POST. SEE SHEETING SIGN DETAIL SHEET.			
ANTITY SHALL INCLUDE ALL MATERIAL NECESSARY TO FORM A MPLETE BREAK-AWAY ASSEMBLY. TYPE I POSTS AND CONCRETE ALL BE PAID SEPARATELY. SEE SHEETING SIGN DETAIL SHEET.			
_ MATERIALS REMOVED AND NOT REUSED, SUCH AS SIGNS, In LIGHTS, SIGN SUPPORTS, ETC. SHALL BECOME THE OPERTY OF THE CONTRACTOR.			
E REMOVAL OF ALL TYPE I OR II POSTS AND ALL SHEETING SNS SHALL BE INCIDENTAL TO THE PROJECT WITH NO DITIONAL PAYMENT BEING ALLOWED. QUANTITIES SHOWN E FOR REFERENCE ONLY. A TOTAL OF 52 SIGNS ARE FIMATED TO BE REMOVED.			

# KENTUCKY DEPARTMENT OF HIGHWAYS COUNTY OF

JEFFERSON

PROJECT IM 2653(034) NUMBERS FD52 056 028-030

SIGNING QUANTITY SHEET

### OF QUANTITIES HENRY RD. EXIT EXIT TOTALS UNIT SB NB (5) ALL N SIGN QUANTITY 0.5 0.5 U. YD. 1.0 0 hum Q. FT. 121.8 121.8 416 330 Q. FT. 45 45 90 0 N. FT. 125 125 991 741 many many many many many 119 12 12 143 EACH

	COUNTY OF	ITEM NO. 5-474.00	SHEET NO.
		ed 7/26/16	
NOTES :			
(1) WITH PERMISSION OF THE ENGINEER, SHEETING SIGNS ON THE RAMPS AND SIDE ROADS MAY BE MOVED TO BE COMPATIBLE WITH THE EXISTING SIGNS.			
(2) QUANTITY IS ESTIMATED. THE EXACT LENGTH SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.			
(3) WHERE REQUIRED, BRACING FOR SHEETING SIGNS SHALL BE INCIDENTAL TO STEEL POST. SEE SHEETING SIGN DETAIL SHEET.			
(4) QUANTITY SHALL INCLUDE ALL MATERIAL NECESSARY TO FORM A COMPLETE BREAK-AWAY ASSEMBLY. TYPE I POSTS AND CONCRETE SHALL BE PAID SEPARATELY. SEE SHEETING SIGN DETAIL SHEET.			
(5) ALL MATERIALS REMOVED AND NOT REUSED, SUCH AS SIGNS, SIGN LIGHTS, SIGN SUPPORTS, ETC. SHALL BECOME THE REPERTY OF THE CONTRACTOR	Ň		
(6) THE REMOVAL OF ALL TYPE I OR II POSTS AND ALL SHEETING SIGNS SHALL BE INCIDENTAL TO THE PROJECT WITH NO ADDITIONAL PAYMENT BEING ALLOWED. QUANTITIES SHOWN ARE FOR REFERENCE ONLY. A TOTAL OF 52 SIGNS ARE ESTIMATED TO BE REMOVED.	/ ) ) ) )		
Revised Note 6			
Removed "Remove			
Removed "Remove Sign" quantity			
Sign" quantity	KENTUC TMENT O COUNTY	F HIGH	IWAYS
Sign" quantity	TMENT O	OF HIGH OF	IWAYS
Sign" quantity DEPAR	TMENT O COUNTY	OF HIGH OF	

#### **PROPOSAL BID ITEMS**

161245

Report Date 7/26/16

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#### Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	5,471.00	TON		\$	
0020	00078		CRUSHED AGGREGATE SIZE NO 2 (REVISED: 7-26-16)	15,295.00	TON		\$	
0030	00100		ASPHALT SEAL AGGREGATE	52.00	TON		\$	
0040	00103		ASPHALT SEAL COAT	7.00	TON		\$	
0050	02069		JPC PAVEMENT-10 IN	6,137.00	SQYD		\$	
0060	02081		JPC PAVEMENT-8 IN SHLD	2,641.00	SQYD		\$	
0070	02083		JPC PAVEMENT-10 IN SHLD	1,130.00	SQYD		\$	
0080	02084		JPC PAVEMENT-8 IN	5,301.00	SQYD		\$	

#### Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP AMOUNT
0090	01000		PERFORATED PIPE-4 IN	56.00	LF		\$
0100	01010		NON-PERFORATED PIPE-4 IN	16.00	LF		\$
0110	01020		PERF PIPE HEADWALL TY 1-4 IN	1.00	EACH		\$
0120	01028		PERF PIPE HEADWALL TY 3-4 IN	1.00	EACH		\$
0130	01890		ISLAND HEADER CURB TYPE 1	115.00	LF		\$
0140	01919		STANDARD BARRIER MEDIAN TYPE 3	1,734.00	SQYD		\$
0150	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	31.00	EACH		\$
0160	02014		BARRICADE-TYPE III	4.00	EACH		\$
0170	02058		REMOVE PCC PAVEMENT	7,548.00	SQYD		\$
0180	02060		PCC PAVEMENT DIAMOND GRINDING	43,725.00	SQYD		\$
0190	02159		ТЕМР DITCH	5,808.00	LF		\$
0200	02160		CLEAN TEMP DITCH	5,808.00	LF		\$
0210	02200		ROADWAY EXCAVATION	24,218.00	CUYD		\$
0220	02242		WATER (FOR DUST CONTROL)	120.00	MGAL		\$
0230	02261		FENCE-WOVEN WIRE	250.00	LF		\$
0240	02265		REMOVE FENCE	250.00	LF		\$
0250	02351		GUARDRAIL-STEEL W BEAM-S FACE	2,012.50	LF		\$
0260	02360		<b>GUARDRAIL TERMINAL SECTION NO 1</b>	1.00	EACH		\$
0270	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	2.00	EACH		\$
0280	02381		REMOVE GUARDRAIL	2,619.00	LF		\$
0290	02391		GUARDRAIL END TREATMENT TYPE 4A	2.00	EACH		\$
0300	02483		CHANNEL LINING CLASS II	2,613.00	TON		\$
0310	02484		CHANNEL LINING CLASS III	277.00	TON		\$
0320	02545		CLEARING AND GRUBBING (APPROXIMATELY 29 ACRES)	1.00	LS		\$
0330	02562		TEMPORARY SIGNS	100.00	SQFT		\$
0331	02599		FABRIC-GEOTEXTILE TYPE IV (ADDED: 7-26-16)	2,000.00	SQYD		\$
0340	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$
0350	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$
0360	02701		TEMP SILT FENCE	2,904.00	LF		\$
0370	02703		SILT TRAP TYPE A	58.00	EACH		\$

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#### **PROPOSAL BID ITEMS**

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0380	02704		SILT TRAP TYPE B	58.00	EACH		\$	
0390	02705		SILT TRAP TYPE C	29.00	EACH		\$	
0400	02706		CLEAN SILT TRAP TYPE A	174.00	EACH		\$	
0410	02707		CLEAN SILT TRAP TYPE B	174.00	EACH		\$	
0420	02708		CLEAN SILT TRAP TYPE C	87.00	EACH		\$	
0430	02726		STAKING	1.00	LS		\$	
0440	03295		EXPAN JOINT REPLACE 2 IN	204.00	LF		\$	
0450	03299		ARMORED EDGE FOR CONCRETE	204.00	LF		\$	
0460	05950		EROSION CONTROL BLANKET	139.00	SQYD		\$	
0470	05952		TEMP MULCH	140,360.00	SQYD		\$	
0480	05953		TEMP SEEDING AND PROTECTION	140,360.00	SQYD		\$	
0490	05963		INITIAL FERTILIZER	14.60	TON		\$	
0500	05964		20-10-10 FERTILIZER	4.80	TON		\$	
0510	05985		SEEDING AND PROTECTION	91,960.00	SQYD		\$	
0520	05989		SPECIAL SEEDING CROWN VETCH	4,066.00	SQYD		\$	
0530	05992		AGRICULTURAL LIMESTONE	87.00	TON		\$	
0540	06540		PAVE STRIPING-THERMO-4 IN W	10,770.00	LF		\$	
0550	06541		PAVE STRIPING-THERMO-4 IN Y	6,184.00	LF		\$	
0560	06542		PAVE STRIPING-THERMO-6 IN W	5,631.00	LF		\$	
0570	06543		PAVE STRIPING-THERMO-6 IN Y	3,312.00	LF		\$	
0580	06544		PAVE STRIPING-THERMO-8 IN W	365.00	LF		\$	
0590	06546		PAVE STRIPING-THERMO-12 IN W	369.00	LF		\$	
0600	06568		PAVE MARKING-THERMO STOP BAR-24IN	369.00	LF		\$	
0610	06569		PAVE MARKING-THERMO CROSS-HATCH	8,219.00	SQFT		\$	
0620	06572		PAVE MARKING-DOTTED LANE EXTEN	276.00	LF		\$	
0630	06574		PAVE MARKING-THERMO CURV ARROW	110.00	EACH		\$	
0640	08504		EPOXY SAND SLURRY	80.00	SQYD		\$	
0650	08526		CONC CLASS M FULL DEPTH PATCH	33.00	CUYD		\$	
0660	08534		CONCRETE OVERLAY-LATEX (REVISED: 7-19-16)	101.10	CUYD		\$	
0665	08540		JOINT SEALING (ADDED: 7-22-16)	500.00	LF		\$	
0670	08549		BLAST CLEANING	2,998.00			\$	
0680	08551		MACHINE PREP OF SLAB	2,998.00			Ψ \$	
0690	10020NS		FUEL ADJUSTMENT	16,216.00		\$1.00	•	\$16,216.00
0700	20550ND		SAWCUT PAVEMENT	10,473.00		ψ1.00	\$	÷,210.00
0710	22665EN		REMOVE NON-MOUNTABLE MEDIAN	3,785.00			\$	
0720	22003EN			-	EACH		Ψ \$	
0730	24403EC		REMOVE AND RESET (CURB BOX INLET, TOP PHASE AT BRIDGE ENDS)		EACH		\$	

#### Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0740	00469		CULVERT PIPE-42 IN	38.00	LF		\$	
0750	01214		PIPE CULVERT HEADWALL-42 IN	1.00	EACH		\$	
0760	01310		REMOVE PIPE	4.00	LF		\$	
0790	24076EC		CONCRETE ANCHOR (FOR PIPE)	1.00	EACH		\$	

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#### Section: 0004 - BRIDGE - CULVERT #1- DWG. 27563

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP AMOUNT
0800	02403		REMOVE CONCRETE MASONRY	25.70	CUYD		\$
0810	02555		CONCRETE-CLASS B	17.30	CUYD		\$
0820	08002		STRUCTURE EXCAV-SOLID ROCK	38.40	CUYD		\$
0830	08003		FOUNDATION PREPARATION	1.00	LS		\$
0840	08100		CONCRETE-CLASS A	74.20	CUYD		\$
0850	08150		STEEL REINFORCEMENT (REVISED: 7-12-16)	10,335.00	LB		\$

#### Section: 0005 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	<b>FP AMOUNT</b>
0860	06406		SBM ALUM SHEET SIGNS .080 IN	416.00	SQFT		\$
0870	06407		SBM ALUM SHEET SIGNS .125 IN	90.00	SQFT		\$
0880	06410		STEEL POST TYPE 1	991.00	LF		\$
0890	06490		CLASS A CONCRETE FOR SIGNS	1.00	CUYD		\$
0910	24631EC		BARCODE SIGN INVENTORY	143.00	EACH		\$

#### Section: 0006 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0920	04792		CONDUIT-1 IN	20.00	LF		\$	
0930	04793		CONDUIT-1 1/4 IN	70.00	LF		\$	
0940	04811		ELECTRICAL JUNCTION BOX TYPE B	2.00	EACH		\$	
0950	04830		LOOP WIRE	1,000.00	LF		\$	
0960	04844		CABLE-NO. 14/5C	1,700.00	LF		\$	
0970	04850		CABLE-NO. 14/1 PAIR	1,000.00	LF		\$	
0980	04895		LOOP SAW SLOT AND FILL	500.00	LF		\$	
0990	04931		INSTALL CONTROLLER TYPE 170	1.00	EACH		\$	
1000	04932		INSTALL STEEL STRAIN POLE	4.00	EACH		\$	
1010	04950		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	
1020	20188NS835		INSTALL LED SIGNAL-3 SECTION	10.00	EACH		\$	
1030	20266ES835		INSTALL LED SIGNAL- 4 SECTION	1.00	EACH		\$	
1040	23157EN		TRAFFIC SIGNAL POLE BASE	18.00	CUYD		\$	
1050	23982EC		INSTALL ANTENNA	1.00	EACH		\$	

#### Section: 0007 - INTELLIGENT TRANSPORTATION SYSTEMS

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1070	04820		TRENCHING AND BACKFILLING	830.00	LF		\$	
1080	04873		POLE 45 FT WOODEN	1.00	EACH		\$	
1090	04884		ANCHOR	2.00	EACH		\$	
1100	04885		MESSENGER-10800 LB	700.00	LF		\$	
1110	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	2.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1120	21543EN		BORE AND JACK CONDUIT	210.00	LF		\$	
1130	24124EC		PVC CONDUIT-2 IN-SCHEDULE 40	800.00	LF		\$	

#### Section: 0008 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1140	02568	MOBILIZATION	1.00	LS		\$	
1150	02569	DEMOBILIZATION	1.00	LS		\$	