



**Matthew G. Bevin**  
Governor

**COMMONWEALTH OF KENTUCKY  
TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
[www.transportation.ky.gov/](http://www.transportation.ky.gov/)

**Greg Thomas**  
Secretary

November 28, 2018

CALL NO. 302  
CONTRACT ID NO. 185016  
ADDENDUM # 1

Subject: ESTILL COUNTY, FD04 033 0794 000-001  
Letting December 7, 2018

- (1) Revised - Title and Location Detail Sheet - Page 9 of 58
- (2) Revised - General Notes Detail Sheet - Page 10 of 58
- (3) Revised - Layout Detail Sheet - Page 11 of 58
- (4) Revised - Proposal Bid Items - Page 58 of 58

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 black ink that reads "Rachel Mills".

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

RM:mr  
Enclosures



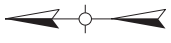
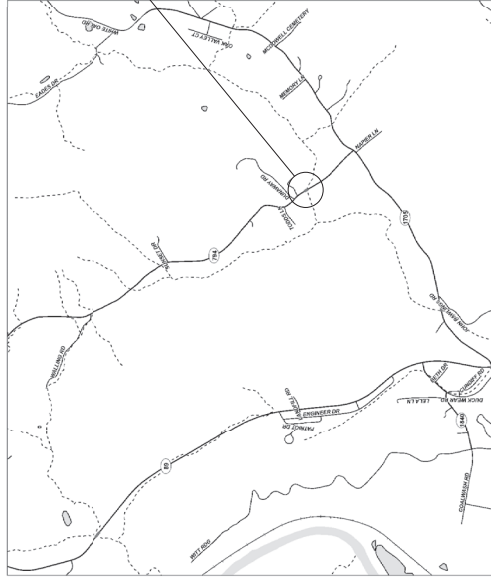
An Equal Opportunity Employer M/F/D

# KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS BRIDGE REHABILITATION PLANS

**INDEX OF SHEETS**

Sheet No.	Description
S1	Title Sheet & Location Map
S2	General Notes
S3	Layout

033B00038N  
KY-794 OVER  
WHITE OAK CREEK  
37°44'09" - 85°58'05"



**SPECIAL NOTES**

For Contract Completion Date and Liquidation Damages in Bridge Repair Contracts for Traffic Control on Bridge Repair Contracts for Epoxy Injection Crack Repairs for Concrete Patching Repair for Concrete Sealing for Placing Bridge Overlay, Approach Pavement

**SPECIAL PROVISIONS**

**STANDARD DRAWINGS**

- RRP-002-02 Fastener in Bearing Posts for Box Beams
- RRP-001-05 Box Beam General Notes & References
- RRP-002-03 Box Beam Bearing Details
- RRP-003-03 Box Beam Wessel Damaged Details
- RRP-004-03 Box Beam Transition Road Details
- RRP-005-03 Box Beam Transition Road Details
- RRP-006-03 Box Beam ETC & EBT Details
- RRP-007-03 Box Beam ETC & EBT Details
- RRP-008-03 Box Beam ETC & EBT Details
- RRP-009-03 Box Beam ETC & EBT Details
- RRP-010-06 Roadway Material Specifications
- RRP-011-07 Roadway Material Specifications
- RRP-020-06 Guardrail End Treatment Type 1

**SPECIFICATIONS**

2012 Standard Specifications for Road and Bridge Construction, AASHTO LRFD Bridge Design Specifications with Current Interims.

**COMMUNALTY OF KENTUCKY  
DEPARTMENT OF HIGHWAYS**

**ESTILL COUNTY**

**TITLE AND LOCATION MAP**

ROUTE KY-794  
WHITE OAK CREEK

DESIGNED BY: G. GLASS  
CHECKED BY: M. FASANO

DETAILED BY: S. PARSONS  
M. FASANO

DATE: 11/19/2018

REVISION

DATE

**Stantec**

PREPARED BY: [Signature]

BRIDGE NUMBER  
**033B00038N**

**ESTIMATE OF QUANTITIES**

BID ITEM CODE	UNIT	08104	08150	08151	08001	02599	08019	02221	02569	02560	22746EN	03304	03299	23378EC	08601	08301	02220	23746EC	02380	08801	08801	02399	06007	24596EH	02487
Concrete Class "AA"	C.Y.	22	500																						
Steel Reinforcement	LBS.		500																						
Steel Reinforcement, Epoxy Coated	LBS.																								
Structure, Excavation, Epoxy Coated	C.Y.																								
Structure, Common	C.Y.																								
Fabric Geotextile Type IV	S.Y.																								
Geotextile Type IV	S.Y.																								
Granular Rip Rap	TONS																								
Structure Granular Backfill	C.Y.																								
Granular Backfill	C.Y.																								
Demobilization	L.S.																								
Maintain & Control Traffic	L.S.																								
Concrete Patching Repair	S.F.																								
Bridge Overlay	S.Y.																								
Pavement Approach	S.Y.																								
Amored Edge for Concrete	L.F.																								
Concrete Sealing	S.F.																								
Precast PC Box Beam CB2-48	L.F.																								
Remove Superstructure	L.S.																								
Flowable Fill	C.Y.																								
Epoxy Injection Crack Repair	L.F.																								
Guardrail Terminal Section No 1	EACH																								
Guardrail Steel W Beam S Face BR	L.F.																								
Guardrail Steel W Beam S Face A	L.F.																								
Extra Length Guardrail Post	EACH																								
DGA Base	TONS																								
Granular Backfill	C.Y.																								
Guardrail End Treatment Type 1	EACH																								
<b>Substructure</b>																									
<b>BRIDGE TOTALS</b>		22	500	5500	13	40	80	13	1	1	100	100	48	1800	216	216	1	50	1	92	125	40	50	28	3

SPECIFICATIONS, REFERENCES TO THE SPECIFICATIONS ARE TO THE CURRENT EDITION OF THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION INCLUDING ANY CURRENT SUPPLEMENTAL SPECIFICATIONS. ALL REFERENCES TO THE AASHTO SPECIFICATIONS ARE TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8th EDITION WITH INTERIMS.

DESIGN LOAD: PROPOSED SUPERSTRUCTURE IS DESIGNED FOR AN INVENTORY LIVE LOAD OF AASHTO HL-93 AND OPERATIONAL LIVE LOAD OF FHWA EV-3.

FUTURE WEARING SURFACE: THIS STRUCTURE IS DESIGNED FOR A 15 PSF FUTURE WEARING SURFACE LOAD.

DESIGN STRESSES: CONCRETE CLASS 'AA' - FC = 4,000 PSI  
CONCRETE CLASS 'M1' OR 'M2' - FC = 4,000 PSI  
STEEL REINFORCEMENT - FY = 60,000 PSI

REINFORCEMENT: DIMENSIONS SHOWN FROM THE FACE OF CONCRETE TO BARS ARE TO CENTER OF BARS UNLESS OTHERWISE SHOWN. SPACING OF BARS IS FROM CENTER TO CENTER OF BARS. CLEAR DISTANCE TO CENTER OF BARS SHALL BE AS SHOWN. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH SECTION 811.0 OF THE STANDARD SPECIFICATIONS FOR REINFORCEMENT ABOVE THE BEARING SEAT.

DIMENSIONS: DIMENSIONS ARE FOR A NORMAL TEMPERATURE OF 60 DEGREES FAHRENHEIT. LAYOUT DIMENSIONS ARE HORIZONTAL DIMENSIONS.

BEVELED EDGES: BEVEL ALL EXPOSED EDGES 3/4", UNLESS OTHERWISE NOTED.

BONDING NEW CONCRETE TO PREVIOUSLY PLACED CONCRETE: WHERE A BONDED CONSTRUCTION JOINT OR CONCRETE PATCHING IS CALLED FOR IN THE PLANS, NEW CONCRETE SHALL BE BONDED TO PREVIOUSLY PLACED (CURED) CONCRETE WITH A TWO-COMPONENT EPOXY RESIN SYSTEM CONFORMING TO SECTIONS 511 AND 826 OF THE SPECIFICATIONS. THE COST OF THIS WORK, INCLUDING ALL LABOR, TOOLS AND MATERIALS IS TO INCIDENTAL TO THE UNIT PRICE BID FOR THE CLASS CONCRETE BEING PLACED.

ELASTOMERIC BEARING PADS: ELASTOMERIC BEARING PADS SHALL CONFORM TO THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, SECTION 18.

BEARINGS SHALL BE LOW TEMPERATURE GRADE 3 WITH A SHEAR MODULUS BETWEEN 95 PSI AND 130 PSI AND SHALL BE SUBJECT TO THE LOAD TESTING REQUIREMENTS CORRESPONDING TO DESIGN METHOD B. THE COST OF BEARING PADS IS TO BE INCLUDED IN THE UNIT PRICE PER LINEAR FEET FOR PRECAST BEAMS.

MASTIC TAPE: MASTIC TAPE USED TO SEAL JOINTS IS TO MEET THE REQUIREMENTS OF ASTM C-877 TYPE I, II, OR III. THE JOINTS ARE TO BE COVERED WITH 1/2" WIDE MASTIC TAPE PRIOR TO APPLICATION. THE JOINT SURFACE SHALL BE CLEANED OF ALL OIL AND GREASE. THE MASTIC TAPE SHALL BE APPLIED TO THE JOINT BY THE TAPE MANUFACTURER, SHALL BE APPLIED FOR A MINIMUM WIDTH OF 9" ON EACH SIDE OF THE JOINT.

MASTIC TAPE SHALL BE EITHER:

EZ-WRAP RUBBER BY PRESS-SEAL CASKET CORPORATION,  
SEAL WRAP BY MAR MAC MANUFACTURING CO. INC.,  
OR APPROVED EQUAL.

MASTIC TAPE SHALL COVER THE JOINT CONTINUOUSLY UNLESS OTHERWISE SHOWN IN THE PLANS. MASTIC TAPE SHALL BE SPLICED BY TAPING A MINIMUM OF 6" AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS WITH THE OVERLAP RUNNING DOWNHILL.

THE COST OF LABOR, MATERIALS, AND INCIDENTAL ITEMS FOR FURNISHING AND INSTALLING MASTIC TAPE SHALL BE PAID SEPARATELY. INCURRING TO THE UNIT PRICE BID FOR CONCRETE CLASS 'AA' AND NO SEPARATE MEASUREMENT OF PAYMENT SHALL BE MADE.

COMPLETION OF THE STRUCTURE: THE CONTRACTOR IS REQUIRED TO COMPLETE THE STRUCTURE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. MATERIAL LABOR OR CONSTRUCTION OPERATIONS NOT OTHERWISE SPECIFIED, ARE TO BE INCLUDED IN THE BID ITEM MOST APPROPRIATE TO THE WORK INVOLVED AND OTHERWISE CONSIDERED INCIDENTAL TO THE CONTRACT. THIS MAY INCLUDE COFFERDAMS, SHORING, EXCAVATIONS, BACK FILLING, REMOVAL OF ALL OR PARTS OF THE EXISTING STRUCTURES, PHASE CONSTRUCTION, INCIDENTAL MATERIALS, LABOR, OR ANYTHING ELSE REQUIRED TO COMPLETE THE STRUCTURE.

ON-SITE INSPECTION: EACH CONTRACTOR SUBMITTING A BID FOR THIS WORK SHALL MAKE A THOROUGH INSPECTION OF THE WORK TO BE DONE PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE WORK SO THAT 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 OF HIGHWAYS.


VERIFYING FIELD CONDITIONS: THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE ORDERING MATERIAL. NEW MATERIAL THAT IS UNSUITABLE BECAUSE OF VARIATIONS IN THE EXISTING STRUCTURE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

BEFORE YOU DIG: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIREMENTS AND CONFORMATION WITH THE UNDERGROUND FACILITY DAMAGE PREVENTION ACT OF 1994. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ANY UTILITIES ON THIS PROJECT. ALL UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO CONSTRUCTION. ANY UTILITIES DISTURBED OR DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS WILL BE REPAIRED TO THE SATISFACTION OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS ADVISED TO CALL (800) 752-6007 A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF SOME BUT NOT NECESSARILY ALL UNDERGROUND UTILITIES.

DISPOSAL OF MATERIALS: ALL MATERIALS AND DEBRIS REMOVED FROM THE PROJECTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE RIGHT-OF-WAY.

STAKING: CONSTRUCTION STAKING, IF REQUIRED, SHALL BE INCIDENTAL TO CLASS 'AA' CONCRETE.

REMOVE EXISTING STRUCTURE: THE EXISTING BEAMS, DECK, AND BRIDGE RAILINGS ARE TO BE REMOVED. ALL REMOVAL WORK SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR REMOVE SUPERSTRUCTURE.

REVISION	DATE
DESIGNED BY: G. GLASS	M. FASANO
DETAILED BY: S. FOY	M. FASANO
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>	
<b>COUNTY</b> <b>ESTILL</b>	
<b>ROUTE</b> <b>KY-794</b>	
<b>CREOSING</b> <b>WHITE OAK CREEK</b>	
<b>GENERAL NOTES</b>	
PREPARED BY  <b>Stantec</b>	
SHEET NO. <b>52</b> DRAWING NO.	

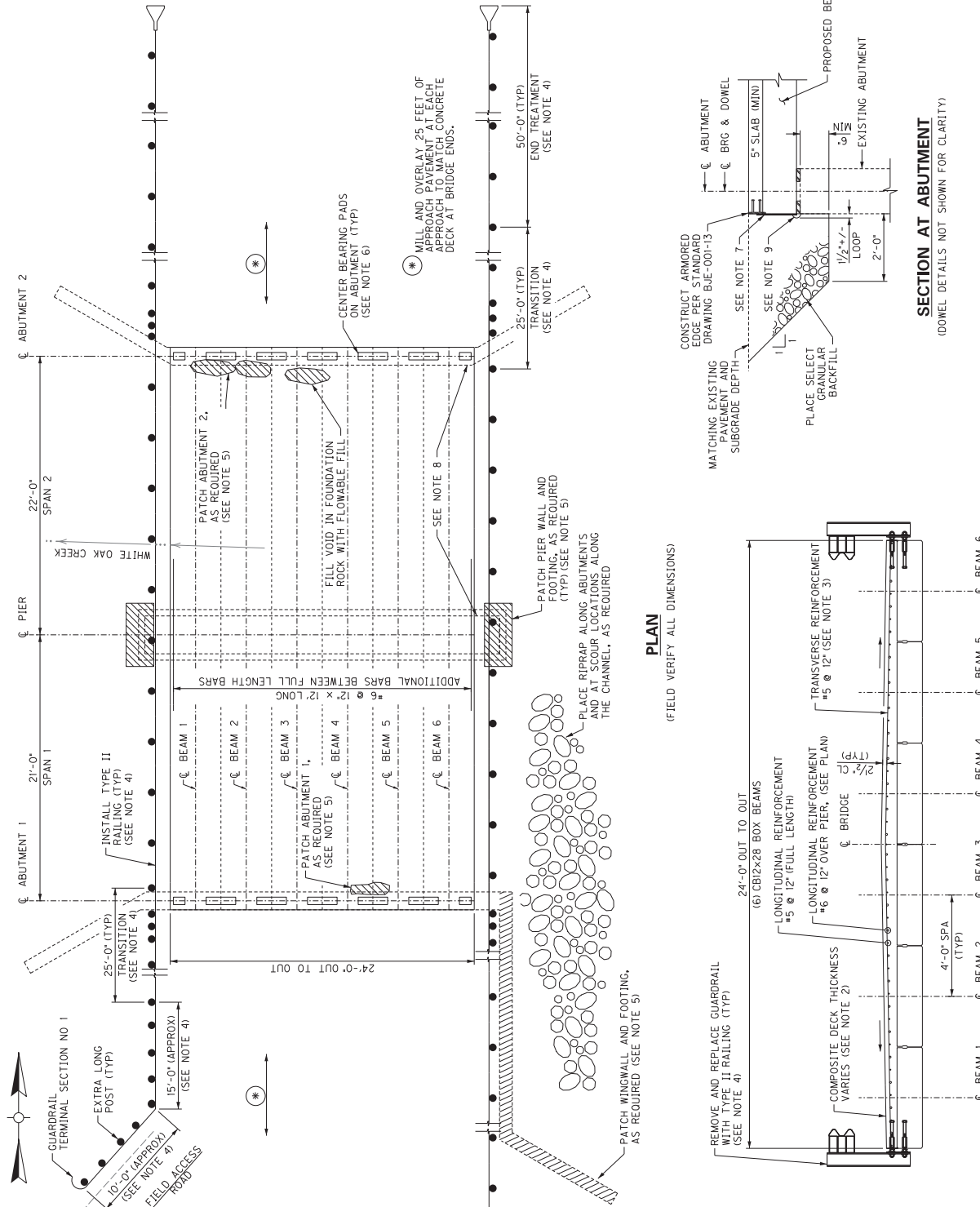
<b>BRIDGE NUMBER</b>	<b>033B00038N</b>
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NOTES:

- 1 REPLACE EXISTING BEAMS WITH 6 PRECAST BOX BEAMS AND COMPOSITE DECK.
- 2 COMPOSITE DECK THICKNESS TO BE 5" AT EDGE OF DECK AND 7.5" AT CENTERLINE OF BRIDGE.
- 3 TRANSVERSE REINFORCEMENT TO BE BENT SO AS TO MAINTAIN A 2 1/2" CLEAR COVER W/ THE TOP OF THE DECK.
- 4 INSTALL TYPE II RAILINGS, TRANSITION RAILINGS, STANDARD RAILINGS, BBR-007-07, BBR-020-06, AND BBR-010-05 AT THE SOUTHWEST CORNER, AFTER THE TRANSITION ZONE, INSTALL GUARDRAIL STEEL W-BEAM 5 FACE "A" AS SHOWN TO RUN ALONG FIELD ACCESS ROAD.
- 5 ABUTMENT 1 PATCHING APPROX. 4 S.F. TRANSITION APPROX. 6 S.F. PIER PATCHING APPROX. 15 S.F. SOUTHEAST WINGWALL PATCHING APPROX 75 S.F.
- 6 INSTALL BEARING PADS IN ACCORDANCE WITH STANDARD DRAWING BPP-003-02. SET PADS AND CORK IN ACCORDANCE WITH STANDARD DRAWING BDP-002-03.
- 7 INSTALL WATERPROOFING MEMBRANE IN COMPLIANCE WITH SECTION 808.06 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- 8 EPOXY INJECT CRACKS AT CORNER OF BRIDGE SEAT (AND AS REQUIRED AT THE ABUTMENTS AND PIER, PER SPECIAL NOTE).
- 9 12" WIDE MASTIC TAPE TO WATERPROOF THE JOINT BETWEEN THE BEAM AND THE ABUTMENT. THE TAPE SHALL BE LOOPED AS SHOWN TO ALLOW FOR MOVEMENT. WITHOUT DAMAGE TO THE TAPE. INSTALL 1/2" WIDE MASTIC TAPE AND BREAKER BETWEEN TAPE LOOP AND EXPANSION JOINT.
- 10 APPLY CONCRETE SEALING TO SUBSTRUCTURE UNITS, PER SPECIAL NOTE.

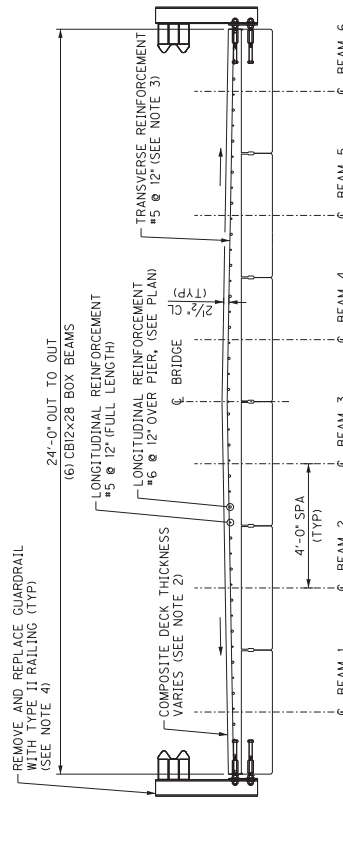
BOX BEAM NOTES:

- 1 BOX BEAMS SHALL BE FABRICATED IN ACCORDANCE WITH STANDARD DRAWING BDP-006-04 AS TABULATED FOR CB12X28' LENGTH, EXCEPT THAT THE SPAN LENGTH SHALL MATCH EXISTING CONDITIONS.
- 2 BOX BEAMS SHALL BE INSTALLED AS SHOWN AND IN COMPLIANCE WITH STANDARD DRAWINGS BDP-001-05, BDP-004-01, BDP-005-03, BDP-004-03 AND BDP-005-05.



PLAN

(FIELD VERIFY ALL DIMENSIONS)



TYPICAL SECTION

(BEAM REINFORCEMENT AND LATERAL TENSION ROD NOT SHOWN FOR CLARITY)

SECTION AT ABUTMENT

(DOWEL DETAILS NOT SHOWN FOR CLARITY)

DATE: 11/21/2018	CHECKED BY: M. FASANO
DESIGNED BY: G. GLASS	DETAILED BY: S. FOY
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>ESTILL</b>	
ROUTE <b>WHITE OAK CREEK</b>	
PROJECT NO. <b>LAYOUT</b>	
PREPARED BY: <b>Stantec</b>	
SHEET NO. <b>33</b>	
DRAWING NO.	

BRIDGE NUMBER <b>033B00038N</b>
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**PROPOSAL BID ITEMS**

185016

Page 1 of 1

Report Date 11/28/18

**Section: 0001 - BRIDGE - WHITE OAK CREEK**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0005	00001		DGA BASE (ADDED: 11-28-18)	50.00	TON		\$	
0010	02220		FLOWABLE FILL	1.00	CUYD		\$	
0020	02231		STRUCTURE GRANULAR BACKFILL	13.00	CUYD		\$	
0030	02360		GUARDRAIL TERMINAL SECTION NO 1 (REVISED: 11-28-18)	1.00	EACH		\$	
0035	02367		GUARDRAIL END TREATMENT TYPE 1 (ADDED: 11-28-18)	3.00	EACH		\$	
0040	02599		FABRIC-GEOTEXTILE TYPE IV	40.00	SQYD		\$	
0050	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0060	03299		ARMORED EDGE FOR CONCRETE	48.00	LF		\$	
0070	03304		BRIDGE OVERLAY APPROACH PAVEMENT	100.00	SQYD		\$	
0080	08001		STRUCTURE EXCAVATION-COMMON	13.00	CUYD		\$	
0090	08019		CYCLOPEAN STONE RIP RAP	80.00	TON		\$	
0100	08104		CONCRETE-CLASS AA	22.00	CUYD		\$	
0110	08150		STEEL REINFORCEMENT	500.00	LB		\$	
0120	08151		STEEL REINFORCEMENT-EPOXY COATED	5,500.00	LB		\$	
0130	08301		REMOVE SUPERSTRUCTURE	1.00	LS		\$	
0140	08661		PRECAST PC BOX BEAM CB12-48 (REVISED: 11-28-18)	276.00	LF		\$	
0150	08801		GUARDRAIL-STEEL W BEAM-S FACE BR	92.00	LF		\$	
0160	22146EN		CONCRETE PATCHING REPAIR	100.00	SQFT		\$	
0170	23378EC		CONCRETE SEALING	1,800.00	SQFT		\$	
0180	23744EC		EPOXY INJECTION CRACK REPAIR	50.00	LF		\$	
0185	24596EN		GRANULAR BACKFILL (ADDED: 11-28-18)	28.00	CUYD		\$	

**Section: 0002 - DEMOBILIZATION &/OR MOBILIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0190	02569		DEMOBILIZATION	1.00	LS		\$	