



WILLIAMSON COUNTY GOVERNMENT

July 11, 2022

To Whom It May Concern:

Williamson County is accepting bids for Concrete Box Beams and Concrete Deck Panels for Bellenfant Road over the Harpeth River in Williamson County. The Beams and Deck Panels shall be delivered to job site. Bid specifications are enclosed. All materials shall meet the "Standard Specifications of the Tennessee Department of Transportation (January 1, 2021 Edition) and Special Provisions pertaining thereto.

Bids will be opened August 2, 2022 at 2:00 p.m. and should be submitted in a sealed envelope to the "County Mayor's Office, 1320 West Main Street, Suite 125 Franklin, Tennessee 37064". Each envelope should be plainly marked: **Bid - Concrete Box Beams and Concrete Deck Panels Bellenfant Road, 2 p.m., August 2, 2022. Company name and address shall also appear on the outside of the envelope. If the above information does not appear, the bid will not be opened.**

Williamson County reserves the right to reject any and/or all proposals, to waive technicalities or informalities and to accept any proposal deemed to be in the best interest of Williamson County. **No bid shall be valid unless signed.** No bid shall be accepted by FAX machine.

The successful bidder will be required to furnish shop drawings to Collier Engineering Co., Inc., 2949 Nolensville Pike, Nashville, TN 37211.

Enclosed is an *Ethical Standards Affidavit*, *Iran Divestment Act Affidavit*, *Fair Employment Affidavit*, *Immigration Attestation and Immigration Compliance Affidavit*, and *Business Tax and License Affidavit*. Please complete these documents and return them with your bid.

If you have any questions, please leslie.mitchell@williamsoncounty-tn.gov. All questions must be submitted in writing by 4:30 p.m. CST on July 27, 2022. No addenda will be issued within 48 hours of the bid opening date and time.

Sincerely,

Leslie Mitchell, NIGP-CPP, CPPO, CPPB
Purchasing Agent



Proposal for furnishing Prestressed Concrete Box Beams and Precast Concrete Deck Panels for the bridge at Bellenfant Road over the Harpeth River for the Williamson County Highway Department.

Use of prestressed concrete deck panels allows the bottom mats of transverse and longitudinal slab reinforcement to be omitted between the exterior beams. The adjustment to the bridge deck slab using prestressed concrete deck panels shall be shown as part of the shop drawing details and bill of steel provided by the successful bidder. See TDOT Standard Drawings STD-4-1 thru STD-4-4, STD-14-3, Article 604.05 of the TDOT Standard Specifications, and attached bridge plans provided by Collier Engineering for further information.

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>ESTIMATED UNIT</u>	<u>UNIT QUANTITY</u>	<u>PRICE</u>	<u>TOTAL</u>
615-02.05	Prestressed Concrete Box Beam (33" X 36")	L.F.	492	\$_____	\$_____
615-04.05	Partial Depth Precast Deck Panels (3 ½")	S.F.	110	\$_____	\$_____
				GRAND TOTAL	\$_____

Vendor _____

Mailing Address _____

Authorized Signature _____

Date _____

NOTE: The proposed completion date for this project is Mid-November 2022.

NOTE: Vendors should note that the bid will be awarded to the best total low bid for all items shown. Bid items will not be separated between vendors.

NOTE: Prices include delivery to job site and elastomeric bearing pads.

WILLIAMSON COUNTY HIGHWAY DEPARTMENT

BELLENFANT ROAD
OVER HARPETH RIVER

BRIDGE I.D. NO. 94F002900071



PROJECT LOCATION
WILLIAMSON COUNTY
TENNESSEE

PROJECT LOCATION
BRIDGE LOC. NO. 94-0980-11.29



SCALE = 1" = 1 MILE

TRAFFIC DATA

ADT = 471
DESIGN SPEED = 45 MPH

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
U-89-309	LAYOUT OF BRIDGE
U-89-311	SUPERSTRUCTURE
U-89-312	SUPERSTRUCTURE DETAILS
U-89-313	PRESTRESSED BOX BEAM DETAILS

TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS

DWG. NO.	TITLE	DATE
RD-A-1	STANDARD ABBREVIATIONS	12-18-99
RD-L-1	STANDARD LEGEND	10-26-94
RD-L-5	STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL	05-01-08
RD-L-6	STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL	03-30-10
RD01-S-11	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT	04-04-03
RD01-S-11A	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION	10-15-02
RD01-SE-3	RURAL SUPERELEVATION DETAILS	10-15-02
RD01-TS-1	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS	02-05-16
S-GR31-1	GUARDRAIL DETAILS	06-28-19
S-GR31-1A	GUARDRAIL AND BLOCK-OUT DETAILS	06-28-19
S-GR-3	TYPE 13 GUARDRAIL ANCHOR	06-28-19
S-GR-6	GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOW SPEED ROADWAYS	06-28-19
S-GRS-1	SPECIAL CASE, LONG SPAN GUARDRAIL, ONE POST OMITTED	06-28-19
S-GR-3	TYPE 21 GUARDRAIL TERMINAL	06-28-19
S-GR-2P	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINALS	06-28-19
T-S-9	LAYOUT-GROUND MOUNTED SIGNS	06-10-14
T-S-10	MOUNTING DETAILS-FLAT SHEET SIGNS, ALUMINUM-STEEL DESIGN	04-04-12
T-S-16	GROUND MOUNTED SIGN AND DETAILS	07-02-15
EC-STR-2	SEDIMENT FILTER BAGS	08-01-12
EC-STR-30	ENHANCED SILT FENCE	04-01-08
EC-STR-3E	SILT FENCE FABRIC JOINING DETAILS	04-01-08
EC-STR-25	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD	08-01-12
EC-STR-31	TEMPORARY DIVERSION CHANNELS	08-01-12
EC-STR-31A	TEMPORARY DIVERSION CHANNELS DESIGN	04-01-08
EC-STR-32	TEMPORARY DIVERSION CULVERTS	08-01-12

NO.	DATE	BY	REVISIONS

CE COLLIER
ENGINEERING CO., INC.
CONSULTING-DESIGN-CONSTRUCTION

2949 NOLANSVILLE PIKE, NASHVILLE, TN 37208
PHONE: (615) 331-1441 FAX: (615) 331-0550

TITLE SHEET
BELLENFANT ROAD
OVER HARPETH RIVER
WILLIAMSON COUNTY, TENNESSEE



DATE	07/20/22
DRAWN BY	JDS
CHECKED BY	JDS
DESIGNED BY	JDS
PROJECT NO.	94-0980-11.29
BRIDGE LOC. NO.	94-0980-11.29
DATE	2022
SHEET NO.	1

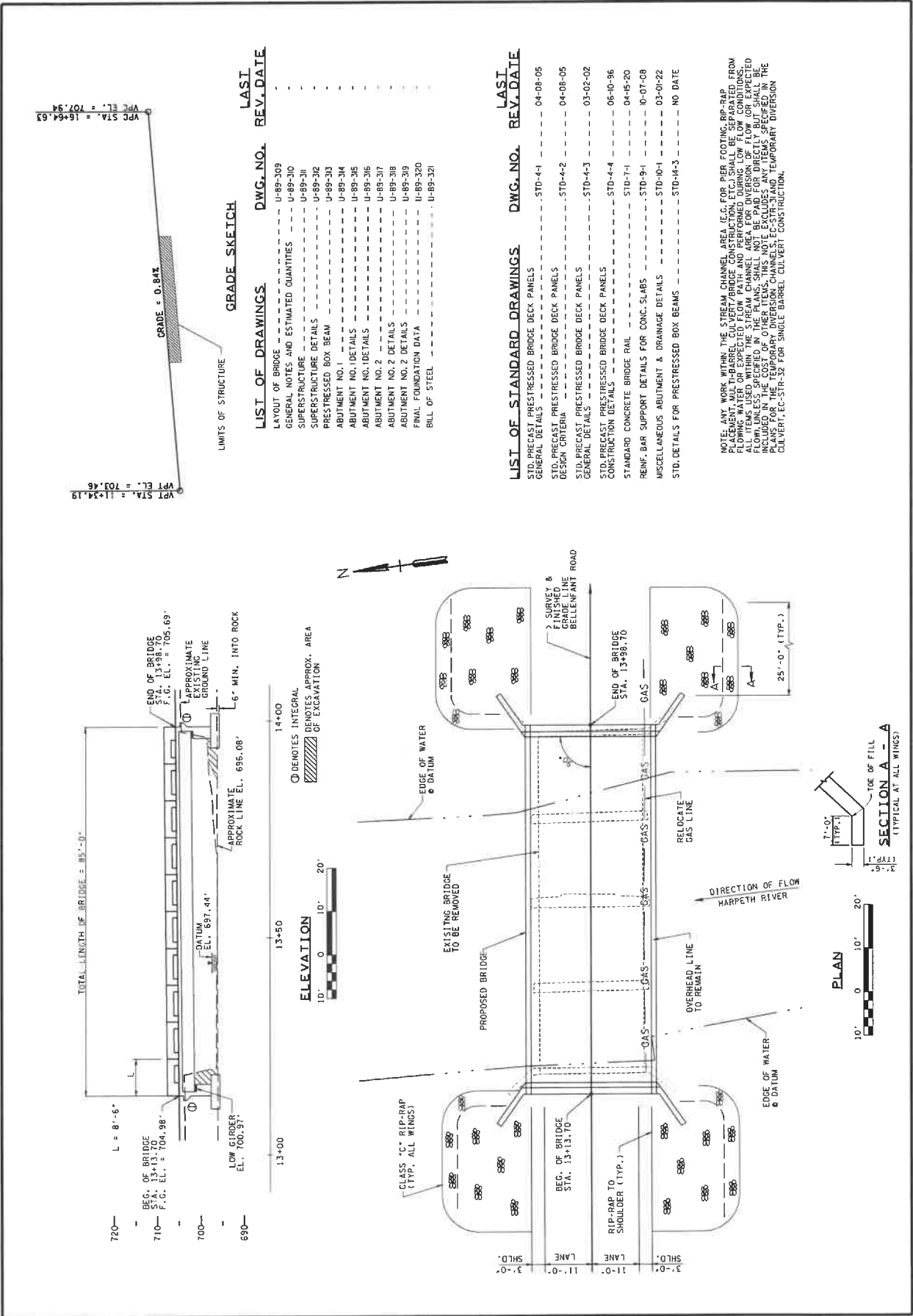
NO.	REVISIONS

CE COLLIER
ENGINEERING CO., INC.
CONSULTING DESIGN-CONSTRUCTION
2949 NOLANSVILLE PIKE, NASHVILLE, TN 37203
PHONE: (615) 331-4441 FAX: (615) 331-1050

LAYOUT OF BRIDGE
BRIDGE 1.D. NO. 94F002900071
BELLEFANT ROAD
OVER HARPEATH RIVER
WILLIAMSON COUNTY, TENNESSEE



DATE: 01/01/22
DESIGNED BY: JDS
CHECKED BY: JDS
APPROVED BY: JDS
PROJECT NO.: 94-0980-11.29
BRIDGE LOC. NO. 1
DATE: 2022
SHEET NO. U-89-309



NO.	DATE	REVISIONS

CE COLLIER
ENGINEERING CO., INC.
CONSULTING-DESIGN-CONSTRUCTION

2949 MOENSVILLE PIKE, NASHVILLE, TN 37218
PHONE: (615) 331-1441 FAX: (615) 331-1050

SUPERSTRUCTURE
BELLEFANT ROAD
OVER HARPETH RIVER
WILLIAMSON COUNTY, TENNESSEE

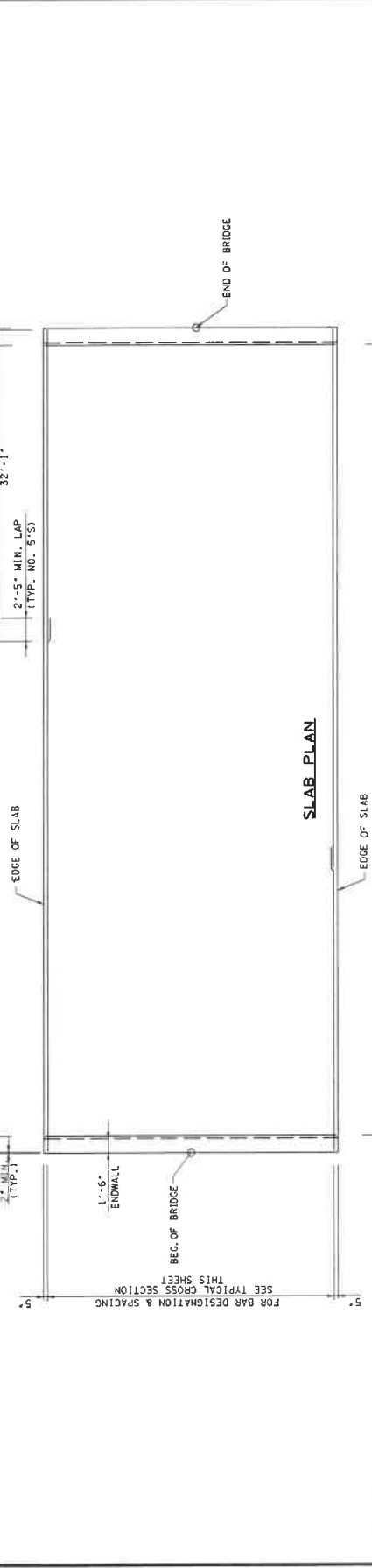
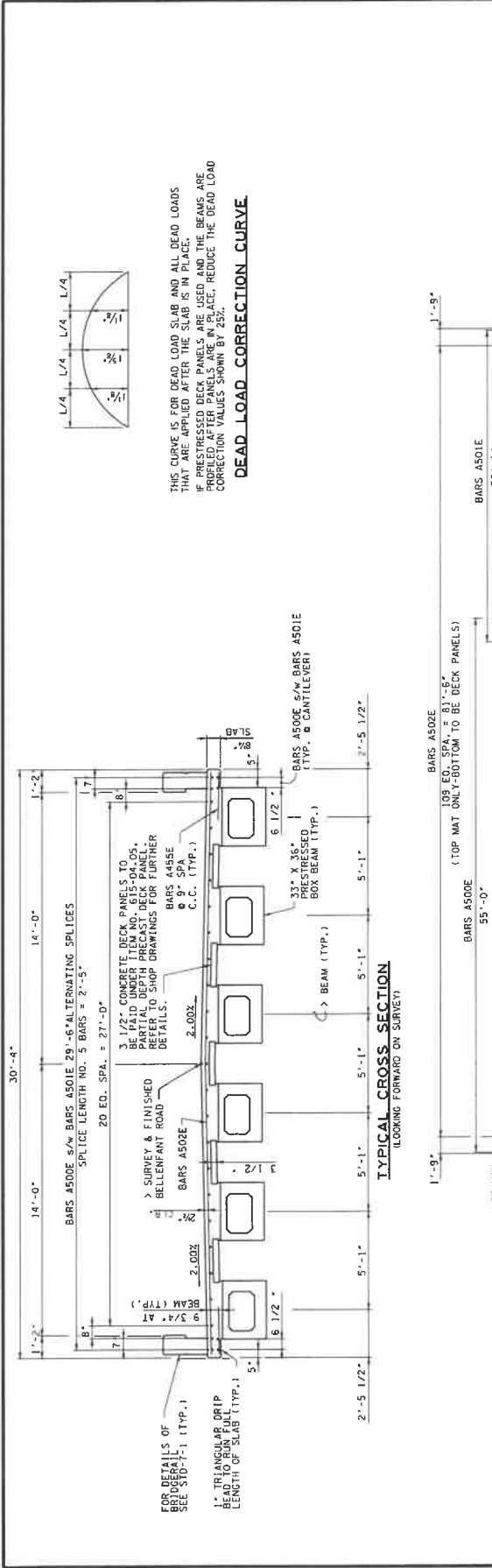


DATE: 07/07/22
DESIGNED BY: JDS
DRAWN BY: JDS
SUPERVISOR BY: JDS
CHECKED BY: JDS

BRIDGE LOC. NO. 1
94-0980-11.29

DATE: 2022

SHEET NO. U-85-38



DEAD LOAD CORRECTION CURVE

THIS CURVE IS FOR DEAD LOAD SLAB AND ALL DEAD LOADS THAT ARE APPLIED AFTER THE SLAB IS IN PLACE. IF PRESTRESSED DECK PANELS ARE USED AND THE BEAMS ARE PROFILED AFTER PANELS ARE IN PLACE, REDUCE THE DEAD LOAD CORRECTION VALUES SHOWN BY 25%.

CLASS "D" CONCRETE (BRIDGE DECK)	EPOXY-COATED REINFORCING STEEL (BRIDGES)	C.Y.	L.B.
65	8,600		

QUANTITIES BASED ON THE USE OF CONCRETE DECK PANELS.

ESTIMATED QUANTITIES

SUPERSTRUCTURE GENERAL NOTES

NOTE: THE COUNTY IS SOLELY RESPONSIBLE FOR SUPPORTING THE BEAMS TO PREVENT DAMAGE DUE TO TWISTING OR OVERTURNING DURING ALL PHASES OF CONSTRUCTION. THE IS STRONG, UNIFORM, AND INSTALLED PRIOR TO PLACING ANY LOADS ON THE GIRDERS. HOWEVER, TEMPORARY ERECTION DIAPHRAGMS MUST BE IN PLACE IN THE SPAN AT THE TIME THE SLAB IS POURED IN SAID SPAN.

NOTE: WHEN POURING SLAB, PROVISIONS SHALL BE MADE FOR SETTING BEAD TO RUN FULL LENGTH OF SLAB (TYP.). THE SLAB IS POURED AND CURED. ALSO SEE DRAWING NO. STD-7-1.

NOTE: COST OF BRIDGERAIL AND POST IS TO BE INCLUDED IN THE UNIT PRICE FOR BRIDGERAIL SYSTEM.

NOTE: NO PORTION OF THE BRIDGE RAIL SYSTEM SHALL BE POURED UNTIL THE ENTIRE DECK SLAB IS IN PLACE.

NO.	DATE	BY	REVISIONS

CE
COLLIER
ENGINEERING CO., INC.
CONSULTING-DESIGN-CONSTRUCTION

2949 NOLANVILLE PKWE. NASHVILLE, TN 37211
PHONE: (615) 331-1441 FAX: (615) 331-0550

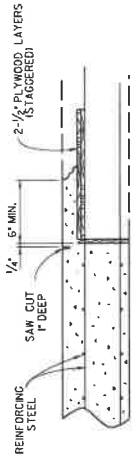
SUPERSTRUCTURE DETAILS
BELLEFANT ROAD
OVER HARPETH RIVER
WILLIAMSON COUNTY, TENNESSEE



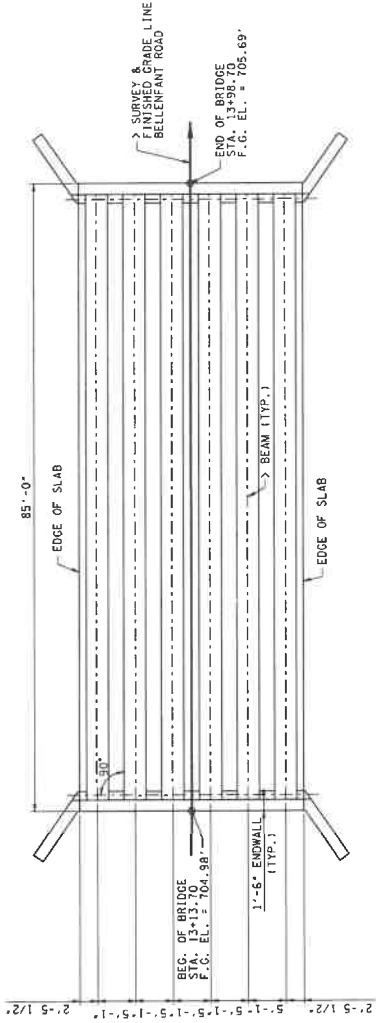
DATE: 07/01/22
 DESIGNED BY: JDS
 DRAWN BY: JDS
 SUPERVISOR BY: JDS
 CHECKED BY: JDS
 BRIDGE LOC. NO. 1
 94-0980-11.29
 DATE: 2022
 SHEET NO. U-89-32

BECK CONCRETE POURING SEQUENCE: SLAB CONSTRUCTION JOINT MAY BE LOCATED AT THE COUNTY'S OPTION SUBJECT TO THE FOLLOWING:

- 1) NO CONSTRUCTION JOINT MAY BE LOCATED CLOSER THAN 10 FEET OR FURTHER THAN IS FEET FROM AN ABUTMENT SUPPORT.
- 2) ALL SLAB CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE SLAB CONSTRUCTION JOINT DETAIL SHOWN BELOW.



SLAB CONSTRUCTION JOINT DETAIL



FRAMING PLAN

NO.	DESCRIPTION	DATE

CE COLLIER
ENGINEERING CO., INC.
CONSULTING-DESIGN-CONSTRUCTION

2949 NOLENSVILLE PIKE FAX (615) 331-1441
NASHVILLE, TN 37211

PRESTRESSED BOX BEAM DETAILS
BELLEFANT ROAD
OVER HARPEITH RIVER
WILLIAMSON COUNTY, TENNESSEE



DATE: 01/10/22	DESIGNED BY: JDS
CHECKED BY: JDS	DRAWN BY: JDS
APPROVED BY: JDS	DATE: 01/10/22
BRIDGE LOC. NO. 1	
94-0980-11.29	
DATE: 2022	
SHEET NO. U-89-33	

BEAM NOTES:
SEE STD-H-3 FOR BOX BEAM STANDARD DETAILS, NOTES AND REINFORCING.
THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF NOT LESS THAN 7,000 PSI AT BE CAST AND 28 DAYS AND STRENGTH SPECIMENS INDICATE THAT THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 6,000 PSI. SEE GENERAL NOTES FOR CONCRETE FINISHING NOTE.

STRANDS: 17-WIRE UNCOATED, LOW RELAXATION, PRESTRESSED CONCRETE STRANDS 1/2" DIA. 270 KBT SHALL HAVE A MINIMUM ULTIMATE STRENGTH OF BE 30,000 LBS. PER STRAND UNLESS OTHERWISE NOTED.
PRESTRESSING STRANDS: 1/2" DIA. 270K LOW-LAX.
JACKING LOAD = 30,000 LBS.

PRESTRESSED BEAM DESIGN DATA-PER BEAM
LIVE LOAD DISTRIBUTION FACTOR: MOMENT = 0.504 (2 LANES)
SHEAR = 0.57 (4 LANES)
COMPOSITE DEAD LOAD: DC = 1310.0 LB./FT.
COMPOSITE DEAD LOAD: DW = 200.0 LB./FT.
COMPOSITE DESIGN SLAB $f_c = 3000$ PSI.
NOTE: DOWNWARD DEFLECTION UNDER TOTAL DL IS NOT ALLOWED.

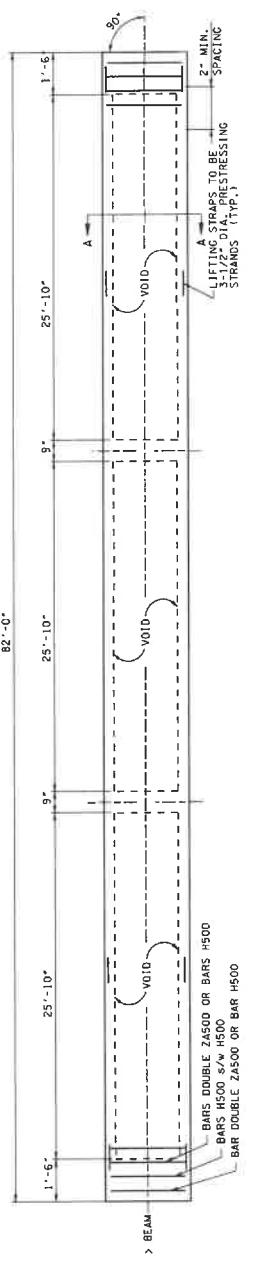
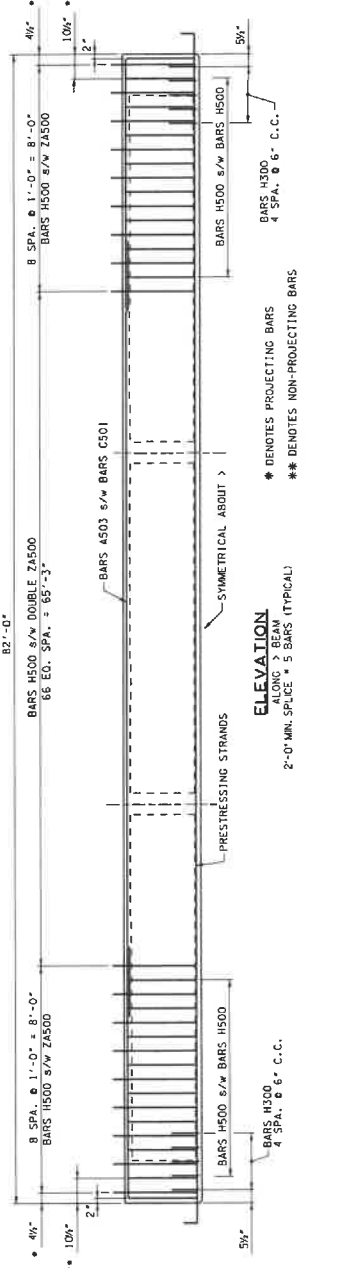
BAR SIZE	NO. REDD.	LENGTH
A300	3	6
A500	5	8
A501	5	4
A502	5	2
A503	5	5
A504	5	10
A505	5	10
A506	5	10
A507	5	10
A508	5	10
A509	5	10
A510	5	10
A511	5	10
A512	5	10
A513	5	10
A514	5	10
A515	5	10
A516	5	10
A517	5	10
A518	5	10
A519	5	10
A520	5	10

NOTE: BARS A500, A501, A502, A503, A504, A505, A506, A507, A508, A509, A510, A511, A512, A513, A514, A515, A516, A517, A518, A519, A520 CAN BE SEEN IN THE END ELEVATION VIEW.

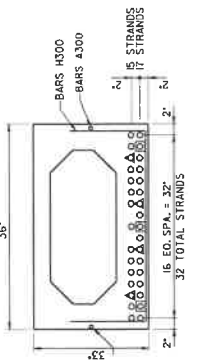
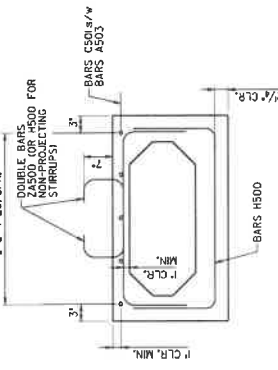
BILL OF STEEL
(PER BEAM)

NO.	CLASS 'A' CONCRETE REVD. C.Y.	STEEL BAR REINFORCING LB.	PRESTRESSING STRANDS LB.	LOW RELAXATION LB.
6	13	1870	1387	

ESTIMATED QUANTITIES
PER BEAM



PLAN



SECTION SHOWING REINFORCEMENT

SECTION SHOWING PRESTRESSING STRANDS

SECTION SHOWING PROPERTIES

△ - DENOTES 4'-0" BOND BREAK AT EACH END OF BEAM
□ - DENOTES 6'-0" BOND BREAK AT EACH END OF BEAM

Ethical Standard Affidavit.

State of Tennessee

County of Williamson County

Ethical Standard Affidavit. After first being duly sworn according to law, the undersigned (“Affiant”) states that he/she has the legal authority to swear to this on behalf of _____ (“Contractor”) that no part of any other governmental monies provided for the services or products contemplated in this Agreement which was received from the State of Tennessee and/or Williamson County shall be paid directly to an employee or official of the State of Tennessee or Williamson County as wages, compensation, or gifts in exchange for acting as an officer, agent, employee, subcontractor, or consultant to the County or the Contractor in connection with any work contemplated or performed relative to this Agreement. Affiant and Contractor further swears that no federally, state, or county appropriated funds have been paid or will be paid, by or on behalf of the Contractor, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, any employee of the State of Tennessee, or employee of Williamson County in connection with the awarding of any federal, state, or county contract, the making or awarding of any government grant, the making of any government loan, and entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal, state or county contract, grant, loan, or cooperative agreement.

Affiant

By: _____

Title: _____

Witness: _____

Date: _____

FAIR EMPLOYMENT PRACTICES AFFIDAVIT

State of _____ **County of** _____

Fair Employment Practices Affidavit: After first being duly sworn according to law, the undersigned (Affiant) states that he/she is the _____ (Offeror) and that by its employment policy, standards, and practices the Offeror does not subscribe to any personnel policy which permits or allows for the promotion, demotion, employment, dismissal, or laying off of any individual due to his/her race, creed, color, national origin, age, or sex, and that the Offeror is not in violation of and will not violate any applicable laws concerning the employment of individuals with disabilities.

And Further Affiant sayeth not:

By: _____

Title: _____

Address: _____

**IMMIGRATION ATTESTATION
AND IMMIGRATION COMPLIANCE ACT AFFIDAVIT**

CONTRACTOR'S LEGAL ENTITY NAME _____

CONTRACTOR'S TENNESSEE LICENSE NUMBER _____

The Contractor, identified above, does hereby attest, certify, warrant, and assure that the Contractor shall not knowingly utilize the services of an illegal immigrant in the performance of the Agreement and shall not knowingly utilize the services of any subcontractor who will utilize the services of an illegal immigrant in the performance of any Services under this Agreement.

By executing this affidavit, the undersigned person or entity verifies its compliance with the Tennessee Lawful Employment Act codified at *Tennessee Code Annotated, Section 50-1-701, et. seq.*, stating affirmatively that the Contractor which is contracting with Williamson County government has registered with and is participating in the federal work authorization program commonly known as E-Verify or has obtained and maintains copies of the required documents in accordance with the applicable provisions of the Tennessee Lawful Employment Act.

The Contractor further agrees that it will continue to comply with all provisions of the Tennessee Lawful Employment Act, and it will contract for the physical performance of services in satisfaction of such contract only with subcontractors who comply with the applicable provisions of the Tennessee Lawful Employment Act.

The undersigned person or entity further agrees to maintain records of the documents or of such compliance including documentation for all subcontractor(s) retained to perform such service on behalf of the Contractor for the minimum period provided in the Tennessee Lawful Employment Act.

BY: Authorized Officer or Agent Date
(Name of Person or Entity)

Title of Authorized Officer or Agent

Printed Name of Authorized Officer or Agent

Witness: _____

Date: _____

**CERTIFICATION OF COMPLIANCE WITH
THE IRAN DIVESTMENT ACT**

Effective July 1, 2016, this form must be submitted for any contract that is subject to the Iran Divestment Act, Tenn. Code Ann. § 12-12-101, et seq., ("Act"). This form must be submitted with any bid or proposal regardless of where the principal place of business is located.

Pursuant to the Act, this certification must be completed by any corporation, general partnership, limited partnership, limited liability partnership, joint venture, nonprofit organization, or other business organization that is contracting with a political subdivision of the State of Tennessee.

Certification Requirements.

No state agency or local government shall enter into any contract subject to the Act, or amend or renew any such contract with any bidder/contractor who is found ineligible under the Act.

Complete all sections of this certification and sign and date it, under oath, in the presence of a Notary Public or a person authorized to take an oath in another state.

CERTIFICATION:

I, the undersigned, certify that by submission of this bid, each bidder and each person signing on behalf of any Respondent certifies, and in the case of a joint bid or contract each party thereto certifies, as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to Tenn. Code Ann. § 12-12-106.

Respondent represents it has the full power, knowledge, and authority to make this Certification and that the signatory signing this Certification on behalf of bidder/contractor has been duly authorized to do so on behalf of the bidder/contractor.

Sworn as true to the best of my knowledge and belief, subject to the penalties of false statement.

Printed Respondent Name Printed Name of Authorized Official

Signature of Authorized Official

Witness: _____

Date: _____

Business Tax and License Affidavit

Business Tax and License Affidavit. The undersigned, ("Affiant"), states that he/she has the legal authority to swear to this on behalf of _____, ("Contractor"); that Contractor is not in any manner in violation of *Tennessee Code Annotated, Section, 5-14-108(1)* which provides that "(n)o purchase shall be made or purchase order or contract of purchase issued for tangible personal property or services by county officials or employees, acting in their official capacity, from any firm or individual whose business tax or license is delinquent." Affiant affirms and warrants that Contractor's licenses are currently valid and all business taxes have been paid and are current as of the date of this affidavit. Contractor is licensed and pays business taxes in _____ (County), Tennessee.

Affiant

By: _____

Title: _____

Date: _____

Witness: _____

Date: _____