



WILLIAMSON COUNTY GOVERNMENT

March 23, 2021

To Whom It May Concern:

Williamson County is accepting bids for Concrete Box Beams and Concrete Deck Panels for Popes Chapel Road Bridge over West Prong Murfrees Fork 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 April 22, 2021 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 for Bridge at Popes Chapel Road over West Prong Murfrees Fork, 2 p.m., April 22, 2021. 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 April 16, 2021. No addenda will be issued within 48 hours of the bid opening date and time.

Sincerely,

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



Proposal for furnishing Prestressed Concrete Box Beams and Prestressed Concrete Deck Panels for the bridge at Popes Chapel Road over West Prong Murfrees Fork 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>UNIT</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
615-02.22	Prestressed Concrete Box Beam (18" X 36")	L.F.	168.88	\$ _____	\$ _____
	Prestressed Concrete Deck Panels (3 1/2")	S.F.	1,020	\$ _____	\$ _____
GRAND TOTAL \$					_____

The bidder has received the following addenda:

Addendum # _____ Dated _____
 Addendum # _____ Dated _____
 Addendum # _____ Dated _____

Company Name _____
 Physical Address _____

Remittance Address _____
 Authorized Signature _____

Printed Name _____
 Phone _____ Fax _____

Email Address _____
 Date _____

NOTE: The proposed completion date for this project is Mid-July 2021.

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.

INDEX OF SHEETS
SHEET NO.
DESCRIPTION

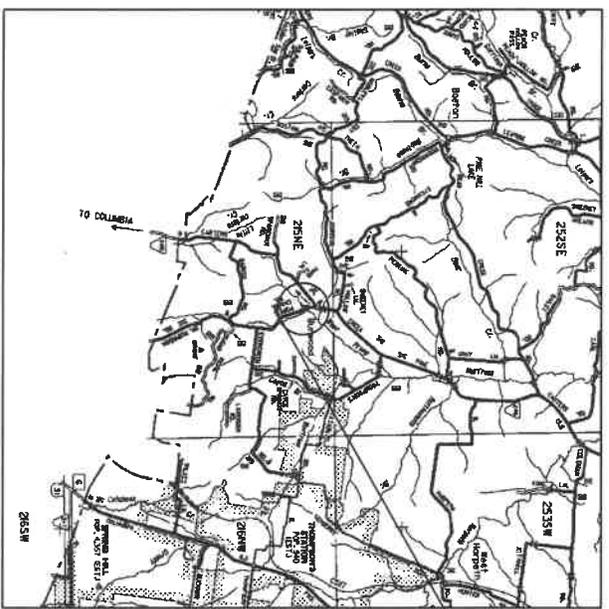
1. TITLE SHEET
 U-74-233 LAYOUT OF BRIDGE
 U-74-238 SUPERSTRUCTURE DETAILS
 U-74-239 SUBSTRUCTURE DETAILS
 U-74-237 PRESTRESSED BOX BEAM DETAILS

WILLIAMSON COUNTY
HIGHWAY DEPARTMENT

POPES CHAPEL ROAD
OVER WEST PRONG MURFREES FORK
BRIDGE I.D. NO. 940A3370001



PROJECT LOCATION
 WILLIAMSON COUNTY
 TENNESSEE



PROJECT LOCATION
 BRIDGE LOC. NO. 94-A337-2.80

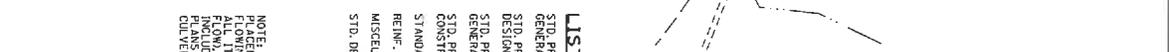
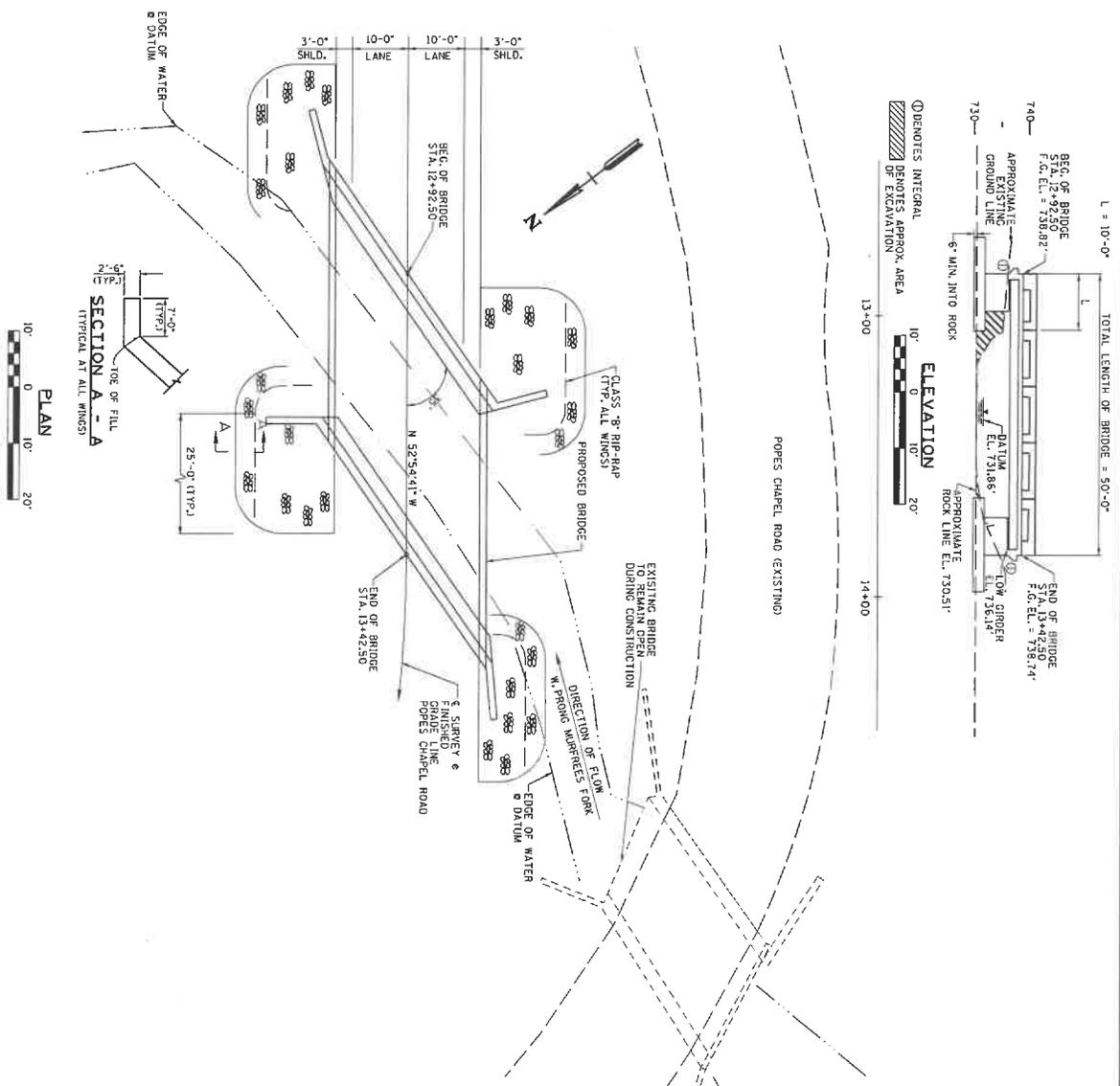
TENNESSEE DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS

DMG. NO.	REVISION	DATE	TITLE
RO-A-1	12-18-99		STANDARD ABBREVIATIONS
RO-L-1	10-26-94		STANDARD LEGEND
RO-L-5	05-01-08		STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL
RO-L-6	03-30-10		STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL
RO01-S-11	04-04-03		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT CONSTRUCTION
RO01-S-11A	10-18-02		RURAL SUPERELEVATION DETAILS
RO01-SE-3	10-15-02		DESIGN STANDARDS FOR LOCAL ROADS AND RURAL SUPERELEVATION
RO01-FS-1	02-05-16		DESIGN STANDARDS FOR LOCAL ROADS AND RURAL SUPERELEVATION
S-GR31-1	03-28-17		W-BEAM GUARDRAIL
S-GR31-1A	03-28-17		W-BEAM GUARDRAIL FASTENING HARDWARE
S-GR4-3	03-28-17		TYPE 13 GUARDRAIL ANCHOR
S-GR4-4	03-28-17		IN-LINE GUARDRAIL ANCHOR
S-GR4-1	10-10-16		GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GR4-2	10-10-16		GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRS-1	03-28-17		GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOW-VOLUME LOCAL ROADS (ADT < 4000)
S-GR1-2P	10-10-16		SPECIAL CASE: LONG SPAN GUARDRAIL, ONE POST QUALIFIED
S-GR1-3	03-28-17		EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINALS
T-S-9	05-10-14		LAYOUT-GROUND MOUNTED SIGNS
T-S-10	04-04-12		LAYOUT-GROUND MOUNTED SIGNS, ALUMINUM-STEEL DESIGN
T-S-16	07-02-15		MOUNTING DETAIL-FLAT
EC-STR-2	08-01-12		GROUND MOUNTED SIGN AND DETAILS
EC-STR-3D	04-01-08		ENHANCED SILT FENCE
EC-STR-3E	04-01-08		SILT FENCE FABRIC JOINING DETAILS
EC-STR-25	08-01-12		TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-31	08-01-12		TEMPORARY DIVERSION CHANNELS
EC-STR-31A	04-01-08		TEMPORARY DIVERSION CHANNELS DESIGN

SCALE = 1" = 1 MILE
 ADT = 1,000
 DESIGN SPEED = 30 MPH

TRAFFIC DATA

	TITLE SHEET	<p>CE COLLIER ENGINEERING CO., INC. CONSULTING-DESIGN-CONSTRUCTION</p> 2949 NOLENSVILLE PIKE : NASHVILLE, TN 37211 PHONE: (615) 331-1441 FAX: (615) 331-1050	REVISIONS NO DATE BY DESCRIPTION	
	POPES CHAPEL ROAD			
	OVER WEST PRONG MURFREES FORK			
	WILLIAMSON COUNTY, TENNESSEE			
DESIGNED BY: JMS DRAWN BY: JMS CHECKED BY: JMS IN CHARGE: JMS DATE: 02/18/21 PROJECT NO: 940A3370001 YEAR: 2021 SHEET NO: 1				



LIST OF DRAWINGS

DWG. NO.	REV. DATE
U-74-233	
U-74-234	
U-74-235	
U-74-236	
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U-74-240	
U-74-241	
U-74-242	
U-74-243	
U-74-244	
U-74-245	

LIST OF STANDARD DRAWINGS

DWG. NO.	REV. DATE
STD-4-1	04-08-05
STD-4-2	04-08-05
STD-4-3	03-02-02
STD-4-4	06-10-96
STD-7-1	04-15-90
STD-9-1	10-07-08
STD-10-1	04-08-05
STD-14-3	10-15-08

NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G. FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. FLOW DIRECTION SHALL BE INDICATED BY ARROWS. FLOW DIRECTION SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE CULVERT E.C.-514.32 FOR SINGLE BARREL CULVERT CONSTRUCTION.

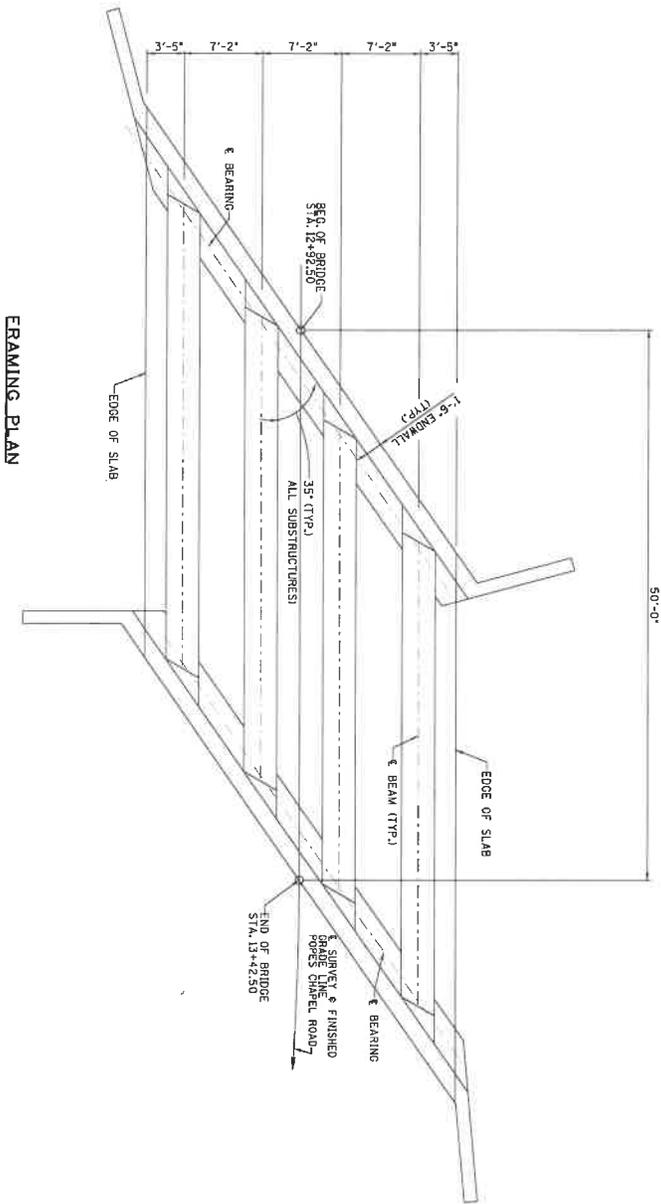
LAYOUT OF BRIDGE
BRIDGE I.D. NO. 940A33700011
POPE'S CHAPEL ROAD
OVER WEST PRONG MURFREES FORK
WILLIAMSON COUNTY, TENNESSEE

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

2949 NOLENSVILLE PIKE • NASHVILLE, TN 37210
 PHONE: (615) 331-1441 FAX: (615) 331-1050

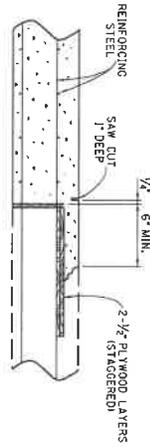
REVISIONS	
NO.	DESCRIPTION

DESIGNED BY: JCS
 CHECKED BY: JCS
 DATE: 02/18/21
 PROJECT NO.: 940A3370001
 YEAR: 2021
 SHEET: MDU-14-233



ERAWING PLAN

SLAB CONSTRUCTION JOINT DETAIL



- DECK CONCRETE POURING SEQUENCE: SLAB CONSTRUCTION JOINTS MAY BE LOCATED AT THE CONTRACTOR'S OPTION SUBJECT TO THE FOLLOWING:
- 1) NO CONSTRUCTION JOINT MAY BE LOCATED CLOSER THAN 10 FEET OR FURTHER THAN 15 FEET FROM AN ABUTMENT SUPPORT.
 - 2) ALL SLAB CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE SLAB CONSTRUCTION JOINT DETAIL SHOWN BELOW.

DESIGNED BY: JCS
 DRAWN BY: JCS
 CHECKED BY: JCS
 DATE: 02/18/21
 BRIDGE NO: 500A310001



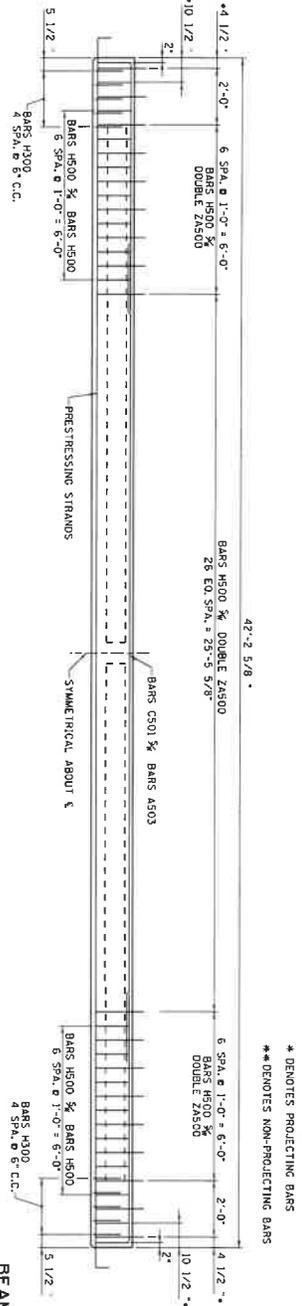
SUPERSTRUCTURE DETAILS
 POPES CHAPEL ROAD
 OVER WEST PRONG MURFREES FORK
 WILLIAMSON COUNTY, TENNESSEE

CE COLLIER
 ENGINEERING CO., INC.
 CONSULTING-DESIGN-CONSTRUCTION
 2949 NOLENSVILLE PIKE : NASHVILLE, TN 37208
 PHONE: (615) 331-1441 FAX: (615) 331-1050

REVISIONS		
NO	DATE	DESCRIPTION

SHEET NO: U-14-236

YEAR: 2021



ELEVATION
ALONG & BEAM
2'-0" MIN. SPLICE * 5 BARS (TYPICAL)

BEAM NOTES:

SEE STD-14-3 FOR BOX BEAM STANDARD DETAILS, NOTES AND REINFORCING.
THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO PROVIDE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT THE AGE OF 28 DAYS AND STRESS TRANSFER SHALL NOT BE MADE TO THE BRIDGE MEMBER UNTIL THE TEST SPECIMENS INDICATE THAT THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 5000 PSI.

STRANDS: 1/2" WIRE UNCOATED LOW RELAXATION PRESTRESSING STRANDS 1/2" DIA, 270 K, IT SHALL HAVE A MINIMUM ULTIMATE TENSILE STRENGTH OF 41,000 LBS PER STRAND AND THE INITIAL TENSION APPLIED SHALL BE 31,000 LBS PER STRAND UNLESS OTHERWISE NOTED.

PRESTRESSING STRANDS: 1/2" DIA, 270K, 10K-LAX.

AC = 0.155 IN.²

JACKING LOAD = 31,000 LBS.

NOTE: THE PRESTRESSED BEAMS SHALL ATAIN AN AGE OF AT LEAST 90 DAYS PRIOR TO POURING THE SUPPORT DIAPHRAGMS EXCLUDING BOTTOM 15 INCHES) AND DECK SLAB.

PRESTRESSED BEAM DESIGN DATA-PER BEAM

LIVE LOAD DISTRIBUTION FACTOR MOMENT = 0.556 (2 LANES)

SHEAR = 0.882 (2 LANES)

= 0.739 (1 LANE)

COMPOSITE DEAD LOAD: DC = 1310 LB./FT.

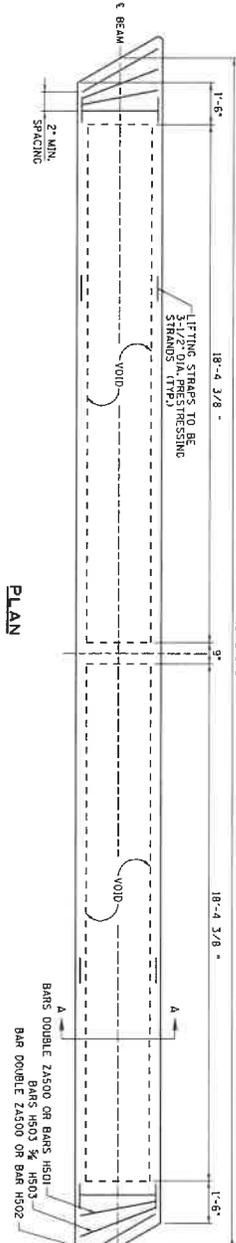
COMPOSITE DEAD LOAD: DW = 227.5 LB./FT.

COMPOSITE DESIGN SLAB F_o = 3,000 PSI.

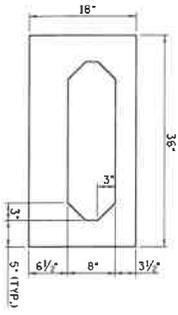
NOTE: DOWNWARD DEFLECTION UNDER TOTAL DL IS NOT ALLOWED.

BILL OF STEEL
(PER BEAM)

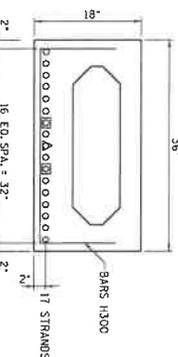
BAR	SIZE	NO.	RETD.	LENGTH
AS50	5	4	5'-6"	
AS51	5	8	2'-8"	
AS52	5	8	1'-2"	
AS53	5	5	29'-0"	
CS01	5	10	14'-0"	
H300	3	10	4'-9 1/2"	
H500	5	69	4'-11 1/2"	
HS01	5	6	5'-1"	
HS02	5	6	5'-5"	
HS03	5	6	5'-3"	
ZAS500	5	80	3'-9 7/8"	



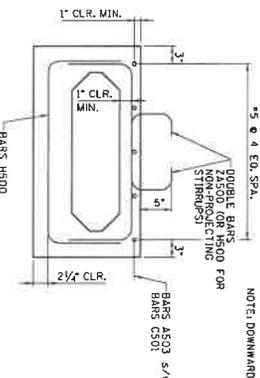
PLAN



SECTION SHOWING PROPERTIES



SECTION SHOWING PRESTRESSING STRANDS



SECTION SHOWING REINFORCEMENT

ESTIMATED QUANTITIES

NO.	CLASS	STEEL BAR	PRESTRESSING STRANDS
4	CONCRETE	REINFORCING	(LOW RELAXATION)
5	1,180		
415			

△ - DENOTES 2'-0" BOND BREAK AT EACH END OF BEAM
□ - DENOTES 4'-0" BOND BREAK AT EACH END OF BEAM

REVISIONS

NO.	DATE	BY	DESCRIPTION

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

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

PRESTRESSED BOX BEAM DETAILS
POPE'S CHAPEL ROAD
OVER WEST PRONG MURFREES FORK
WILLIAMSON COUNTY, TENNESSEE



DESIGNED BY: JDS
CHECKED BY: JDS
DATE: 02/22/20
SCALE: AS SHOWN
BRIDGE NO.: 50A031000
YEAR: 2021
SHEET NO.: 14-237

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(l)* 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: _____

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: _____