



WILLIAMSON COUNTY

Leslie Mitchell, CPPO, CPPB
1320 West Main Street, Suite 130
Franklin, Tennessee 37064
(615) 790-5868
lesliem@williamson-tn.org

September 18, 2018

To Whom It May Concern:

Williamson County is accepting bids for Concrete Box Beams and Concrete Deck Panels for Arno-College Grove Road Bridge over McCrory Creek 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, 2015 Edition) and Special Provisions pertaining thereto.

Bids will be opened October 16, 2018 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 Arno-College Grove Road over McCrory Creek, 2 p.m., October 16, 2018. 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., 5560 Franklin Pike Circle, Brentwood, TN 37027.

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 e-mail lesliem@williamson-tn.org. All questions must be submitted in writing by 4:30 p.m. CST on October 10, 2018. No addenda will be issued within 48 hours of the bid opening date and time.

Sincerely,

Leslie Mitchell, CPPO, CPPB
Purchasing Agent

Proposal for furnishing Prestressed Concrete Box Beams and Prestressed Concrete Deck Panels for the Arno-College Grove Road Bridge over McCrory Creek 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.

| ITEM NUMBER | DESCRIPTION | UNIT | ESTIMATED | | TOTAL |
|----------------|--|------|-----------|----------|----------|
| | | | QUANTITY | UNIT | |
| 615-02.22 | Prestressed Concrete Box Beam (18" X 36") | L.F. | 205 | \$ _____ | \$ _____ |
| | Prestressed Concrete Deck Panels (3 1/2") | S.F. | 637 | \$ _____ | \$ _____ |
| GRAND TOTAL | | | | | \$ _____ |

The bidder has received the following addenda:

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-December 2018.

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
- 2.....LAYOUT OF BRIDGE
- 3.....SUPERSTRUCTURE DETAILS
- 4.....SUPERSTRUCTURE DETAILS
- 5.....PRESSED BOX BEAM DETAILS

TENNESSEE DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS

| OWG. NO. | REVISION | DATE | TITLE |
|------------|----------|----------|--|
| RD-A-1 | | 12-18-99 | STANDARD ABBREVIATIONS |
| RD-L-1 | | 10-28-94 | STANDARD LEGEND |
| RD-L-5 | | 05-01-08 | STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL |
| RD-L-6 | | 03-30-10 | STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL |
| RD01-S-11 | | 04-04-03 | DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE DITCH DEVELOPMENT |
| RD01-S-11A | | 10-15-02 | DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT |
| RD01-SF-3 | | 10-15-02 | RURAL SUPERELEVATION DETAILS |
| RD01-SS-1 | | 02-05-16 | DESIGN STANDARDS FOR LOCAL ROADS AND SHEETS |
| S-GR-1 | | 03-28-17 | W-BEAM GUARDRAIL |
| S-GR-3 | | 03-28-17 | W-BEAM BARRIER FASTENING HARDWARE |
| S-GR-4 | | 03-28-17 | TYPE 13 GUARDRAIL ANCHOR |
| S-GR-1 | | 10-10-16 | IN-LINE GUARDRAIL ANCHOR |
| S-GR-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 < 400) |
| S-GR1-2P | | 10-10-16 | SPECIAL CASE, LONG SPAN GUARDRAIL, ONE POST QUALITY |
| S-GR1-3 | | 03-28-17 | EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINALS |
| T-S-9 | | 06-10-14 | TYPE 21 GUARDRAIL END TERMINAL LAYOUT-GROUND MOUNTED STONS |
| T-S-10 | | 04-04-12 | MOUNTING DETAILS-FLAT SHEET SIGNS, ALUMINUM-STEEL DESIGN |
| T-S-16 | | 07-02-15 | GROUND MOUNTED SIGN AND DETAILS |
| EC-STR-2 | | 08-01-12 | SEWMENT FILTER BAGS |
| 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 CULTERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD |
| EC-STR-31 | | 08-01-12 | TEMPORARY DIVERSION CHANNELS |
| EC-STR-31A | | 04-01-08 | TEMPORARY DIVERSION CHANNELS DESIGN |

WILLIAMSON COUNTY
HIGHWAY DEPARTMENT

ARNO-COLLEGE GROVE ROAD
 OVER MCCRORY CREEK

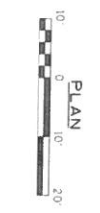
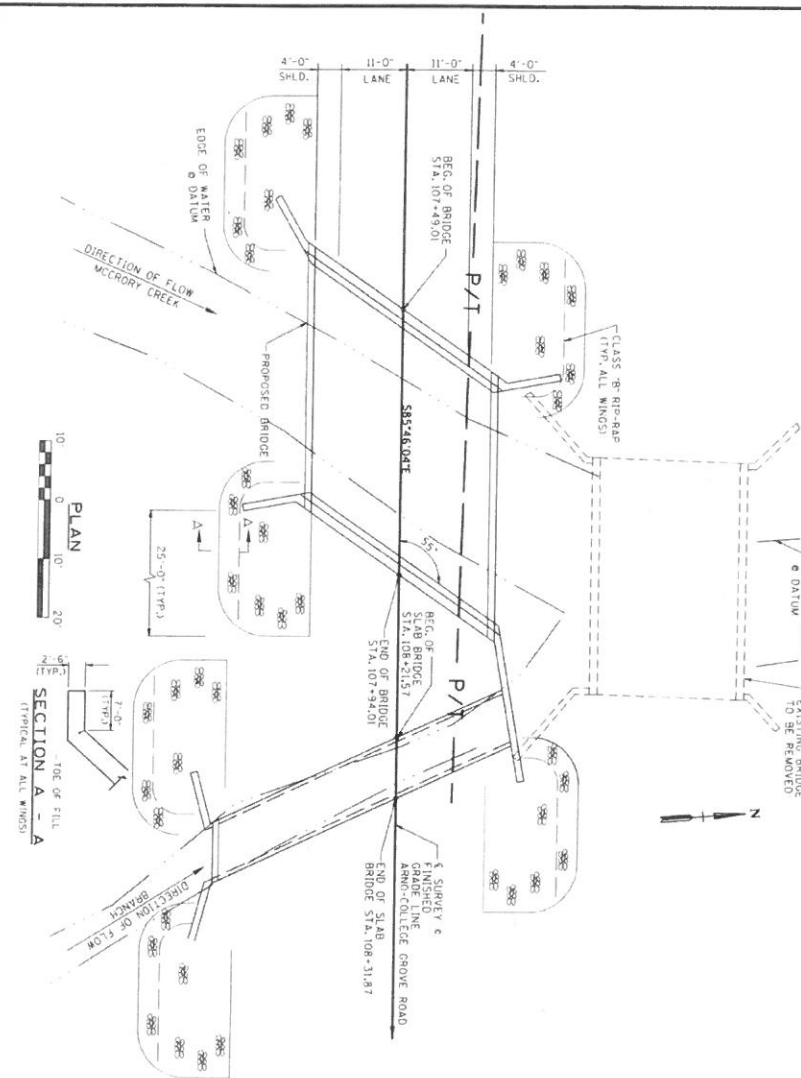
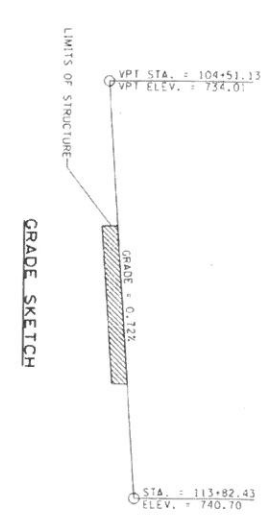
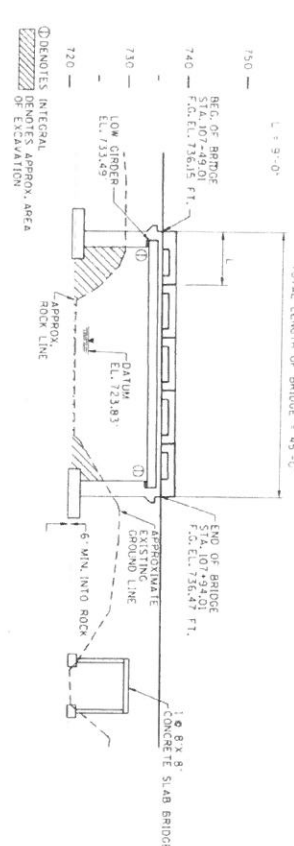
BRIDGE REPLACEMENT & ROADWAY IMPROVEMENTS



PROJECT LOCATION
 BRIDGE LOC. NO. 94-980-6.34

SCALE = 1" = 1 MILE
 TRAFFIC DATA
 AOT = 420
 DESIGN SPEED = 45 MPH

| | | | |
|--|--|--|---|
| | TITLE SHEET ARNO-COLLEGE GROVE ROAD OVER MCCRORY CREEK WILLIAMSON COUNTY, TENNESSEE | CE COLLIER ENGINEERING CO., INC. CONSULTING-DESIGN-CONSTRUCTION 5560 FRANKLIN PIKE CIRCLE, BRENTWOOD, TN 37027 PHONE: (615) 331-1441 FAX: (615) 331-1050 | REVISIONS NO. DATE BY DESCRIPTION |
| | YEAR: 2017 SHEET NO. 1 | | PROJECT NO.: MILEAGE FROM: 0.00 STATIONING FROM: 205 CONTRACT NO.: 313BR03.1A DATE: 3/10/11 |



LIST OF STANDARD DRAWINGS

| DWG. NO. | REV. | DATE |
|----------|------|----------|
| S10-4-1 | | 04-08-05 |
| S10-4-2 | | 04-08-05 |
| S10-4-3 | | 03-02-02 |
| S10-4-4 | | 06-10-96 |
| S10-7-1 | | 06-02-14 |
| S10-9-1 | | 10-07-08 |
| S10-10-1 | | 04-08-05 |
| S10-14-3 | | 10-15-08 |

NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G. FOR PIER FOOTING, RIP-RAP FLOWING AT THE BRIDGE) SHALL BE SEPARATED FROM THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW CONDITIONS SHALL BE SPECIFIED IN THE PLANS. SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE PAID FOR THROUGH THE TEMPORARY DIVERSION PLAN. EXCLUDES ANY DIRECTLY BUT SHALL BE PAID FOR THROUGH THE TEMPORARY DIVERSION PLAN. EXCLUDES ANY DIRECTLY BUT SHALL BE PAID FOR THROUGH THE TEMPORARY DIVERSION PLAN.

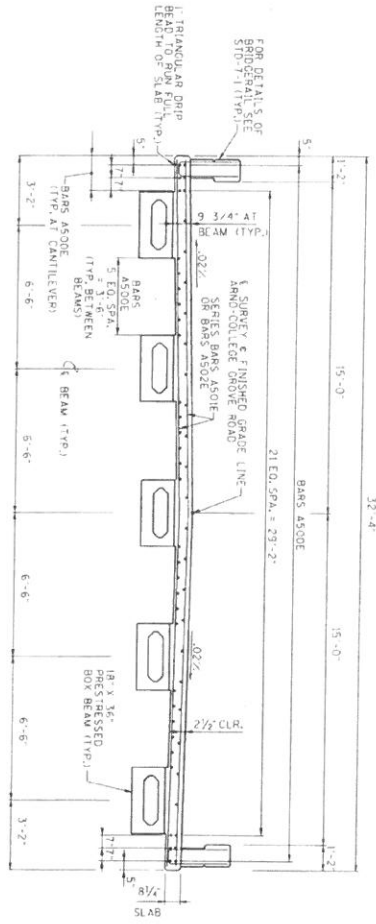
DESIGNED BY: JMS
 DRAWN BY: AJM
 SUPERVISOR: JMS
 PROJECT NO.: 5/10/17
 YEAR: 2017
 SHEET NO. 2

LAYOUT OF BRIDGE
 ARNO-COLLEGE GROVE ROAD
 OVER MCCRORY CREEK
 WILLIAMSON COUNTY, TENNESSEE

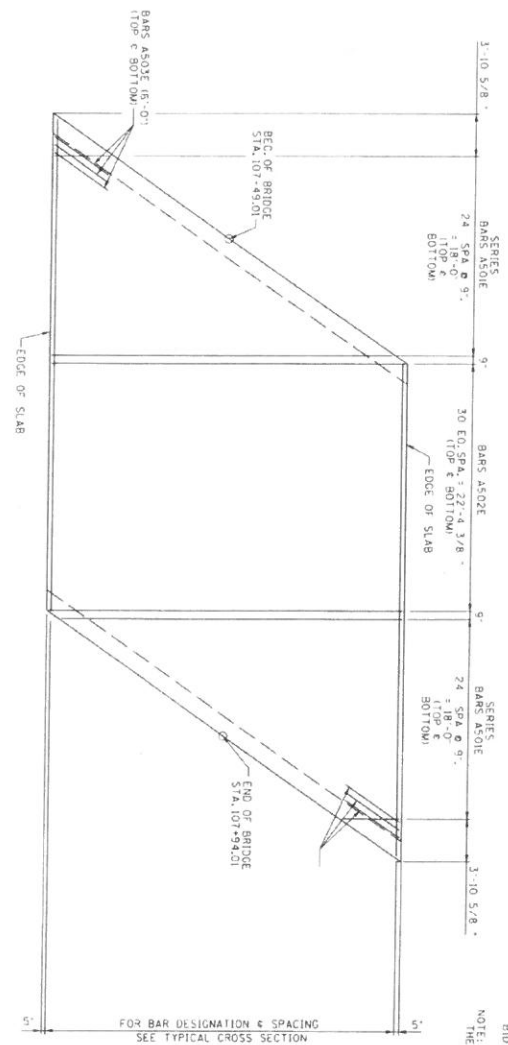
CE COLLIER
 ENGINEERING CO., INC.
 CONSULTING-DESIGN-CONSTRUCTION
 5560 FRANKLIN PIKE CIRCLE, BRENTWOOD, TN 37027
 PHONE: (615) 331-1441 FAX: (615) 331-1050

REVISIONS

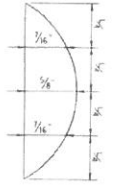
| NO. | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
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TYPICAL CROSS SECTION
LOOKING FORWARD ON SUPPLY



SLAB PLAN



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 PROTECTED AFTER PANELS ARE IN PLACE, REDUCE THE DEAD LOAD CORRECTION VALUES SHOWN BY 25%.

DEAD LOAD CORRECTION CURVE

SUPERSTRUCTURE GENERAL NOTES

NOTE: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SUPPORTING THE BEAMS TO PREVENT DAMAGE DUE TO TWISTING OR OVERTURNING DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THE BEAMS AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE BEAMS DURING ERECTION. 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 THE BRIDGE PILES AND SHALL BE MADE FOR SETTING THE BRIDGE PILES UNTIL THE SLAB IS POURED AND CURED. ALSO SEE DRAWING NO. S-15-7-BID FOR BRIDGE PILE SYSTEM.
NOTE: COST OF BRIDGE PILE AND POST IS TO BE INCLUDED IN THE UNIT PRICE FOR BRIDGE PILE SYSTEM.
NOTE: NO PORTION OF THE PARAMET. SHALL BE POURED UNTIL THE ENTIRE DECK SLAB IS IN PLACE.

ESTIMATED QUANTITIES

| | |
|----------------------------------|--|
| CLASS "D" CONCRETE (BRIDGE DECK) | EPOXY-COATED REINFORCING STEEL (BRIDGES) |
| C.Y. | LB. |
| 41 | 7,604 |

SEAL OF THE STATE OF TENNESSEE
 DEPARTMENT OF REVENUE
 REGISTERED PROFESSIONAL ENGINEER
 No. 105
 EXPIRES 12/31/17
 R. L. COLLIER, JR.
 No. 5710217
 PROJECT NO.
 YEAR: 2017
 SHEET NO. 3

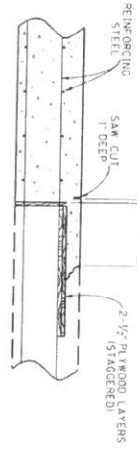
SUPERSTRUCTURE
 ARNO-COLLEGE GROVE ROAD
 OVER MCCORRY CREEK
 WILLIAMSON COUNTY, TENNESSEE

COLLIER
 ENGINEERING CO., INC.
 CONSULTING-DESIGN-CONSTRUCTION
 5560 FRANKLIN PIKE CIRCLE, BRENTWOOD, TN 37027
 PHONE: (615) 331-1441 FAX: (615) 331-1050

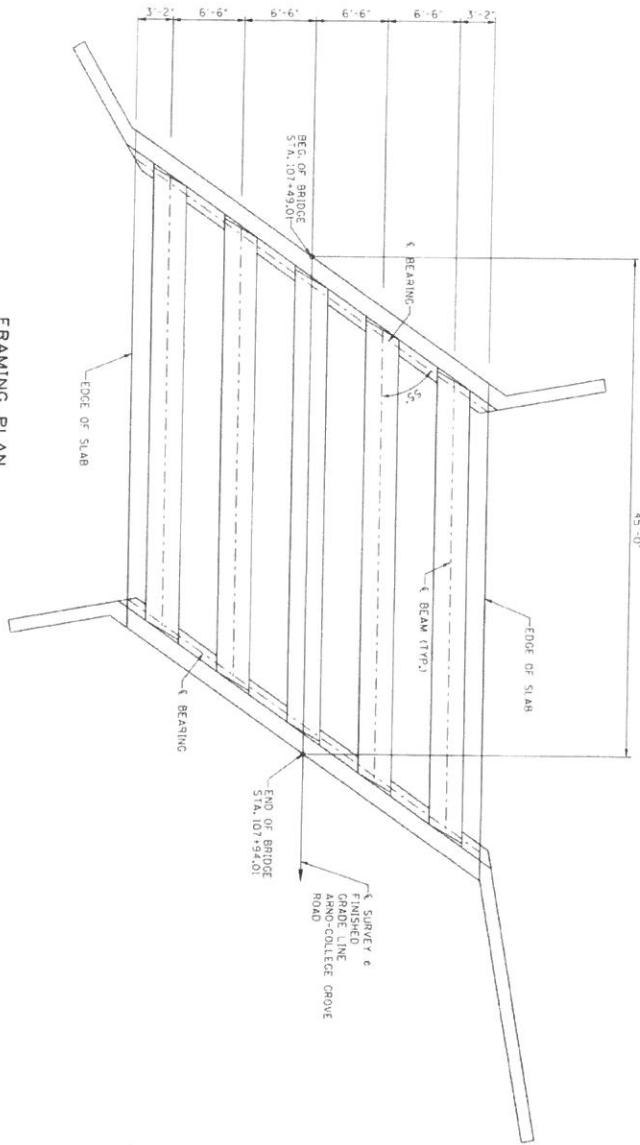
REVISIONS

| NO. | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
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DECK CONCRETE POURING SEQUENCE: SLAB CONSTRUCTION JOINTS MAY BE LOCATED AT THE FOLLOWING STATION VALUES TO THE FOLLOWING: 1. AND CONSTRUCTION JOINTS SHALL BE LOCATED CLOSER THAN 10 FEET OR FURTHER THAN 15 FEET FROM AN ABUTMENT SUPPORT. ALL SLAB CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE SLAB CONSTRUCTION JOINT DETAIL SHOWN BELOW.



SLAB CONSTRUCTION JOINT DETAIL



FRAMING PLAN

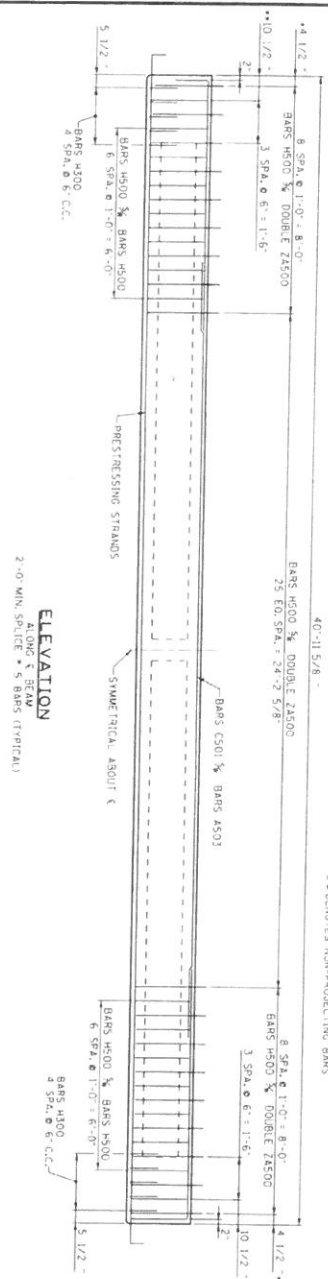
| REVISIONS | | | |
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| NO. | DATE | BY | DESCRIPTION |
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CE COLLIER
 ENGINEERING CO., INC.
 CONSULTING-DESIGN-CONSTRUCTION
 5560 FRANKLIN PIKE CIRCLE, BRENTWOOD, TN 37027
 PHONE: (615) 331-1441 FAX: (615) 331-0500

SUPERSTRUCTURE DETAILS
 ARNO-COLLEGE GROVE ROAD
 OVER MCCRORY CREEK
 WILLIAMSON COUNTY, TENNESSEE



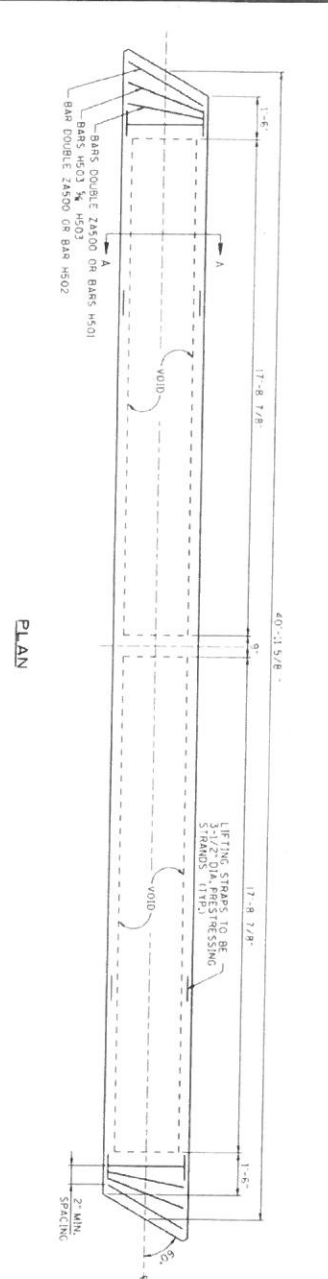
DESIGNED BY: JMS
 DRAWN BY: JMS
 SUPERVISED BY: JMS
 PROJECT NO.: 11-0000-0000-0000
 DATE: 5/10/17
 YEAR: 2017
 SHEET NO.: 4



BEAM NOTES:
 SEE 510-14-3 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 4500 PSI AT THE AGE OF 28 DAYS AND STRESS TRANSFER SHALL NOT BE MADE TO THE BEAM UNTIL THE STRENGTH OF THE CONCRETE IS AT LEAST 5000 PSI. SEE GENERAL NOTES FOR CONCRETE FINISHING NOTE.

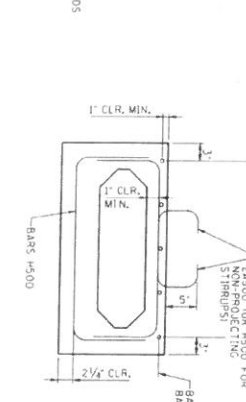
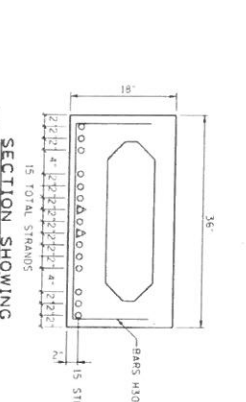
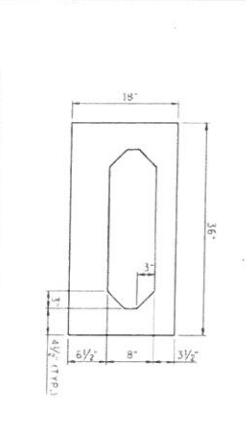
PRESTRESSING STRANDS: 1/2" DIA. 270K 10M-13XX.
 JACKING LOAD = 31,000 LBS.
 A = 0.153 in²

PRESTRESSED BEAM DESIGN DATA-PER BEAM
 LIVE LOAD DISTRIBUTION FACTOR MOMENT = 0.284 (2 LANE)
 SHEAR = 0.644 (2 LANE)
 COMPOSITE DEAD LOAD, DC = 1048 LB./FT.
 COMPOSITE DEAD LOAD, DM = 210.0 LB./FT.
 COMPOSITE DESIGN SLAB F_c = 3000 PSI.
 NOTE: DOWNWARD DEFLECTION UNDER TOTAL DL IS NOT ALLOWED.



BILL OF STEEL
 (PER BEAM)

| BAR | SIZE | NO. | REQ. DL LENGTH |
|-------|------|-----|----------------|
| A500 | 5 | 4 | 5'-6" |
| A501 | 5 | 4 | 2'-8" |
| A502 | 5 | 8 | 1'-2" |
| A503 | 5 | 5 | 16'-0" |
| C501 | 5 | 10 | 16'-0" |
| H3000 | 3 | 10 | 4'-9 1/2" |
| H5000 | 5 | 70 | 4'-11 1/2" |
| H501 | 5 | 2 | 5'-1" |
| H502 | 5 | 2 | 5'-5" |
| H503 | 5 | 4 | 5'-2" |
| ZAS00 | 5 | 72 | 3'-10" |



ESTIMATED QUANTITIES
 (PER BEAM)

| CLASS | STEEL BAR | PRESTRESSING STRANDS |
|-----------------|-------------|----------------------|
| NO. REINFORCING | REINFORCING | PRESTRESSING STRANDS |
| 5 | 1,005 | 335 |

SECTION SHOWING PROPERTIES

SECTION SHOWING PRESTRESSING STRANDS

SECTION SHOWING REINFORCEMENT

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

PRESTRESSED BOX BEAM DETAILS
 ARNO-COLLEGE GROVE ROAD
 OVER McCRORY CREEK
 WILLIAMSON COUNTY, TENNESSEE

CECOLLIER
 ENGINEERING CO., INC.
 CONSULTING-DESIGN-CONSTRUCTION
 5560 FRANKLIN PIKE CIRCLE, BRENTWOOD, TN 37027
 PHONE: (615) 331-1441 FAX: (615) 331-1050

| REVISIONS | | | |
|-----------|------|----|-------------|
| NO. | DATE | BY | DESCRIPTION |
| | | | |
| | | | |

DESIGNED BY: JMS
 CHECKED BY: JMS
 PROJECT NO: 241380-01-01
 DATE: 5/10/17

YEAR: 2017
 SHEET NO: 5

**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: _____

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: _____

**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: _____

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: _____
