

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston WV 25205 0460 Charleston, WV 25305-0130

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304-558-2402

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DIVISION OF HIGHWAYS DISTRICT NINE

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103 1/2 CHURCH STREET LEWISBURG, WV 24901 304-647-7457

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GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- **4.** All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- **10.** The laws of the State of West Virginia and the **Legislative Rules** of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- **12. BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- **3.** Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- **4.** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
- 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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State of West Virginia Department of Administration **Purchasing Division** 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

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DIVISION OF HIGHWAYS DISTRICT NINE

103 1/2 CHURCH STREET LEWISBURG, WV 24901 304-647-7457

DATE PRINTED TERMS OF SALE SHIP VIA F.O.B. FREIGHT TERMS 04/20/2011 BID OPENING DATE: 05/17/2011 **BID OPENING TIME** 01:30PM CAT. LINE **QUANTITY** UOP ITEM NUMBER UNIT PRICE AMOUNT ADDENDUM ACKNOWLEDGEMENT I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC. ADDENDUM NO. S: NO. 1 NO. 2 NO. 3 NO. I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS. VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY | DRAL DISCUSSION HELD BETWEEN VENDOR'S | REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING. SIGNATURE COMPANY SEE REVERSE SIDE FOR TERMS AND CONDITIONS: SIGNATURE TELEPHONE DATE

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

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DIVISION OF HIGHWAYS **DISTRICT NINE**

103 1/2 CHURCH STREET LEWISBURG, WV 24901 304-647-7457

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Purchasing Division
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DIVISION OF HIGHWAYS DISTRICT NINE

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State of West Virginia Department of Administration Quotation Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for

RFQ NUMBER 09110359

ADDRESS CORRESPONDENCE TO ATTENTION OF

BUYER 33

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DIVISION OF HIGHWAYS DISTRICT NINE

103 1/2 CHURCH STREET LEWISBURG, WV 24901 304-647-7457

DATE PRINTED TERMS OF SALE SHIP VIA FOB. FREIGHT TERMS 04/20/2011 **BID OPENING DATE:** 05/17/2011 **BID OPENING TIME** 01:30PM CAT NO LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT NOTICE SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15

> THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:

25305-0130

SEALED BID

BUYER: SHERI SLONE - FILE 33

RFQ. NO.: 09110359

BID OPENING DATE: 05/17/2011

2019 WASHINGTON STREET, EAST

CHARLESTON, WV

BID OPENING TIME: 1:30 PM

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TELEPHONE

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ADDRESS CHANGES TO BE NOTED ABOVE



VENDOR

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

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DIVISION OF HIGHWAYS DISTRICT NINE

103 1/2 CHURCH STREET LEWISBURG, WV 24901 304-647-7457

TERMS OF SALE SHIP VIA F.O.B. FREIGHT TERMS DATE PRINTED 04/20/2011 BID OPENING DATE: 05/17/2011 **BID OPENING TIME** 01:30PM CAT. ITEM NUMBER LINE QUANTITY UOP UNIT PRICE AMOUNT CONTACT PERSON (PLEASE PRINT CLEARLY): THIS IS THE END OF RFQ 09110359 ***** TOTAL: SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TELEPHONE DATE

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RFQ#: 09110359 Request for Quotation Specifications

Purpose: To establish a purchase order to provide Concrete Box Beam Installment

1.0 DEFINITIONS

- A. The "Agency" shall be defined as the West Virginia Division of Highways
- B. The "Vendor" shall be defined as the successful bidder.
- C. The "Purchase Order" shall be defined as the binding agreement that is entered into between the State of West Virginia and the Vendor to provide the services as herein specified.
- D. "Mandatory Requirements: The terms "must", "will", "shall", "minimum", "maximum", or "is/are required" identify a mandatory item or factor. Decisions regarding compliance with any mandatory requirements shall be at the sole discretion of the State.

2.0 SCOPE OF WORK

The successful Vendor shall provide materials for Tuckahoe Run Bridge Superstructure Replacement-- 8727.1.

2.1 Technical Requirements:

The vendor shall provide the materials including delivery to the project site of the items listed on the Form WV 35 for the replacement of the superstructure of Bridge No. 8727.1.

Material supplied under this contract shall meet the applicable requirements of Section 710 of the West Virginia Department of Transportation, Division of Highways Standard Specifications Road and Bridges, adopted 2010. These Standard Specifications Roads and Bridges and the current Supplemental Specifications are available at the following website:

www.transportation.wv.gov/highways/engineering/Pages/

www.transportation.wv.gov/highways/engineering/Pages/publications.aspx

2.2 Freight

- 2.2.1 All shipments are to be FOB Destination.
- 2.2.2 The vendor shall be responsible for all costs associated with delivery to the job site.

2.3 Delivery:

2.3.1 The above material is to be delivered to:

West Virginia Division of Highways CO 50 2.28 MI SOUTH OF WHITE SULPHUR SPGS, WV 24986

2.3.2 Call Adrian Lusk- Bridge Engineer 24 hours prior to delivery @ 304-647-7829.

3.0 INVOICING

- 3.1 Payment
- 3.1.2 The Vendor must send an invoice to:

West Virginia Division of Highways 103 ½ Church ST. Lewisburg, WV 24901

3.2 Partial Payment of Approved Beams

- 3.2.1 Upon completion of manufacture and approval by the Division of Highways of all beams specified on an individual Requisition Purchase Order (RPO), the vendor may invoice and the Division will pay for the cost of manufacturing the beams, not to exceed 65% of the total cost of the delivered beams. The remaining 35% or more may be invoiced when all the beams are delivered. Partial payment for beams shall be subject of the following Conditions:
 - a. The vendor must request partial payment and furnish and official invoice for the manufactured and approved beams

4.0 **AWARD**

Purchase order will be awarded complete and not split.

Cost Sheet RFQ#: 09110359

item Number	Quantity	Description	Unit Cost	Extended Cost
		Linear FT, 12 Interior LRFD		
1	546	Prestressed Concrete Box Beams		
-		(45'6" L X3'0" W X 21" Deep)		
	-	Linear FT, 12 Exterior LRFD		
		Prestressed Concrete Box Beams		
2	182	(45'6" L X 3'0" W X21" Deep W/12-14		
-		Sets Type TL-2 Inserts & 7 TL-2 GR		
1 2 3 4 5 6 7 8 9 10 11		Posts Per Beam "Installed"		
		Each, 4 Sets Type TL-2 System		
3	4	"Installed" Total Length of Guardrail Per		
		Plans = 187'6"		
		Each, 8 Post Tensioning Bars (1"		
	8	diameter X 27'-0" Long) W/Two		
	°	9"X9"X1" Bearing Plates and Two Hex		
		Nuts Per Bar		
5	32	Each, 32 Anchor Rods (1"Diameter X		
3	32	2'-0" Long)	ļ	
		Each, 28 Elastomeric Bearing Pads (4		
	28	3/4" X 28"X 1 13/16") W/3 Shims	Ì	
		Each (1/16"X4 1/2" X 28")	<u> </u>	
6 7		Each, 8 Elastomeric Bearing Pads (4		
	8	3/4"X15 1/2"X1 13/16") W/3 Shims		
		Each (1/16"X4 1/2"X15 1/2"	<u> </u>	
5 6 7 8	54.2	SQ FT, 1" Thick Sponge Rubber		
0	34.2	Preformed Joint Filler (50'X13")		
		SQ FT, 1" Thick Sponge Rubber		
9	650	Preformed Joint Filler (100' X 6 1/2")		
10	90.62	SQ FT, 1" Thick Sponge Rubber	1	
		Preformed Joint Filler (50'X21 3/4")		
	11.70	SQ FT, 1" Thick Sponge Rubber Preformed Joint Filler (8"X4 3/4") 56		
11	14.78	•		
		PCS		
				
		Total Amount		

Rev. 09/08

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

Date	Title:
Bido	der:Signed:
Und and chai	er penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate accurate in all respects; and that if a contract is issued to Bidder and if anything immediately.
author the re deer	ubmission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division are ubmission of this certificate, Bidder agrees to disclose any reasonably requested information verifying that Bidder has paperizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paperized business taxes, provided that such information does not contain the amounts of taxes paid nor any other information and by the Tax Commissioner to be confidential.
requi agair	er understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the common of the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penal and the such penalty will be paid to the contracting agent the such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agent the such from any uppaid balance on the contract or purchase order.
6.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
5.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
4.	Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
·	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
	preceding the date of this certification; or , Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) vears immediately preceding the date of this certification; or ,
	ing the date of this certification; or , Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately
VISION	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preced-
corda	will make the determination of the Resident Vendor Preference, if applicable.

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No.	
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STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

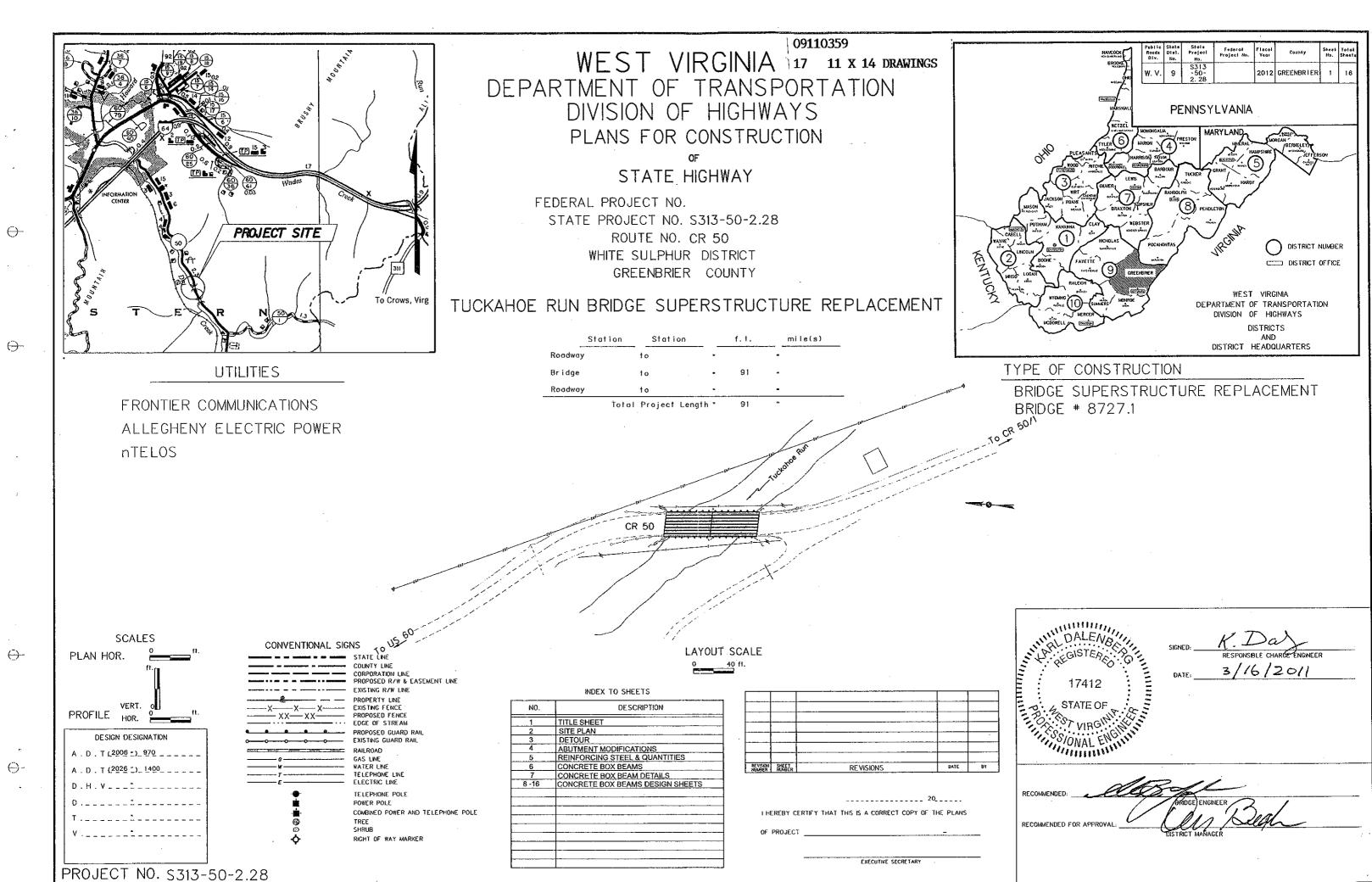
Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

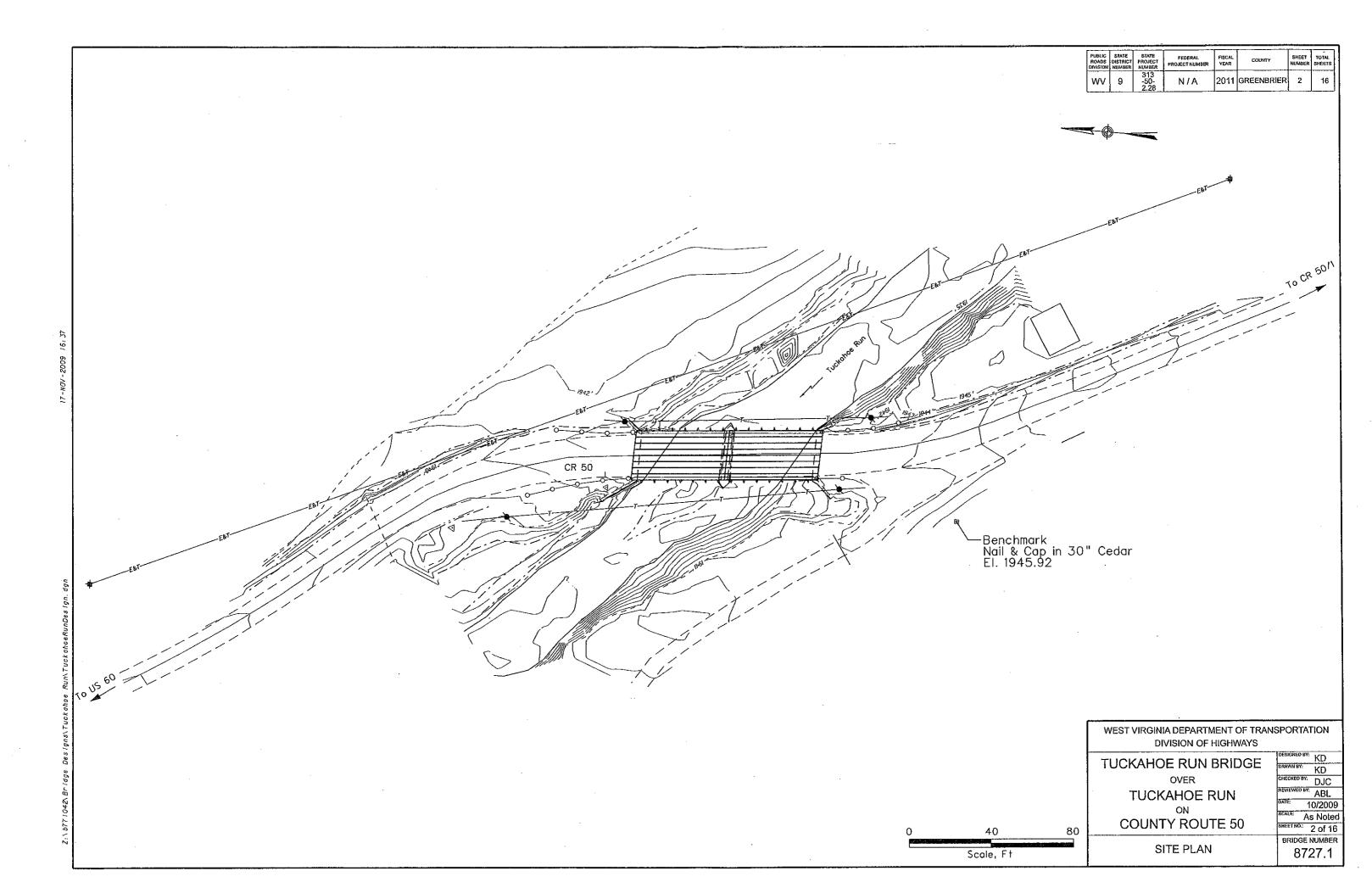
WITNESS THE FOLLOWING SIGNATURE

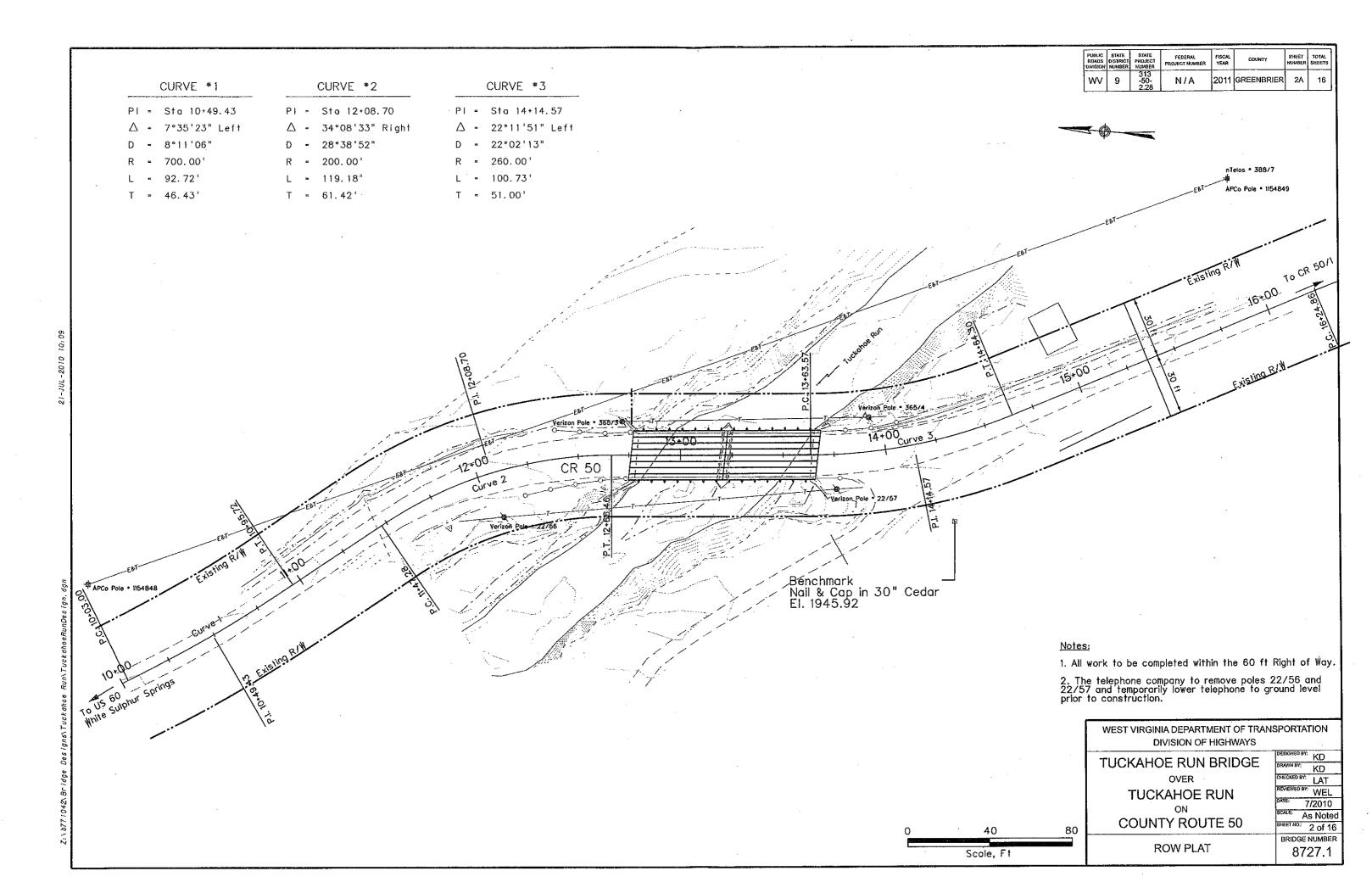
Vendor's Name:				
		Data		
Authorized Signature:		_ Date		
State of				
County of, to-wit:				
Taken, subscribed, and sworn to before me this	_ day of		, 20	
My Commission expires	, 20			
AFFIX SEAL HERE	NOTARY PUBLIC			

Pleas	chnical Questions for RFQ: ndor Name: estions:			
2.1 Technical Requirements 2.2 Freight				
Vend	or Nam	ne:		
Ques	tions:			
Technical Vendor N Question 2.0 Sc 2.	Scop	e of Work		
	2.1	Technical Requirements		
	2.2	Freight		
	2.3	Delivery		

3.0	Invoicing			
		· .		
4.0	Award			
	_			
Othe	r:	·		
-		 	 	







Detour from the South

Turn Right on VA Line Rd (CR 50/1) and continue to 311 in Virginia. (VA Line Rd becomes Tuckahoe Rd in Virginia.)
Turn north (left) onto 311 and continue to west bound ramp on 1 64. Drive westbound on 1 64 to Exit 181.
At end of ramp, turn right onto US 60 into White Sulphur Springs. Continue to Intersection with Mountain Ave and turn left.
Mountain Ave becomes CR 50.

Detour from the North

From White Sulphur Springs, head east on US 60 and merge onto I 64 East.
Continue on I 64 to Exit 183 and turn south onto WV 311.
At intersection with Tuckahoe Rd, turn right. This road becomes VA Line Rd (CR 50/1) in West Virginia. Continue to CR 50.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

TUCKAHOE RUN BRIDGE **OVER TUCKAHOE RUN COUNTY ROUTE 50**

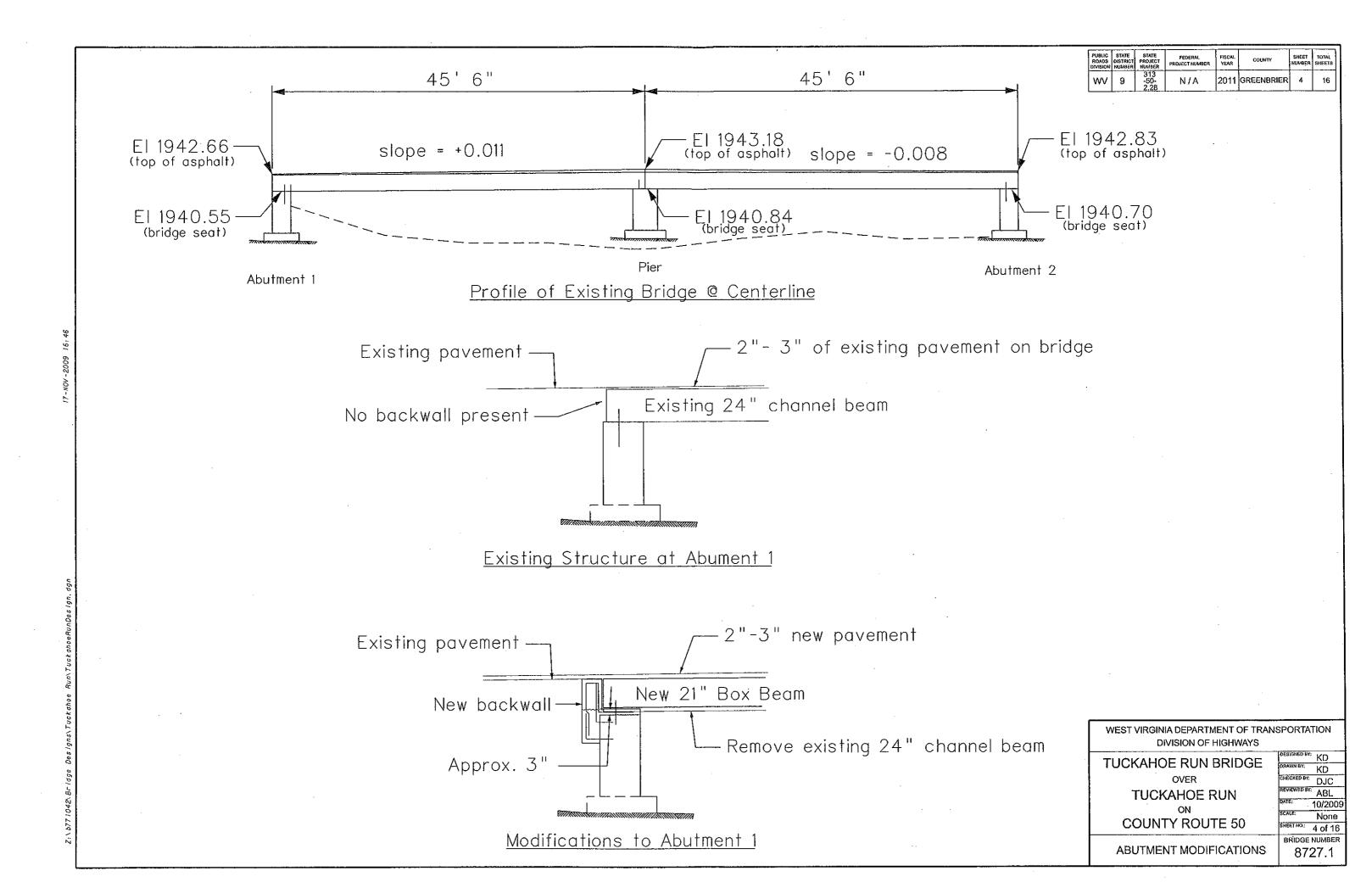
None SHEET NO.: 3 of 16 BRIDGE NUMBER 8727*.*1

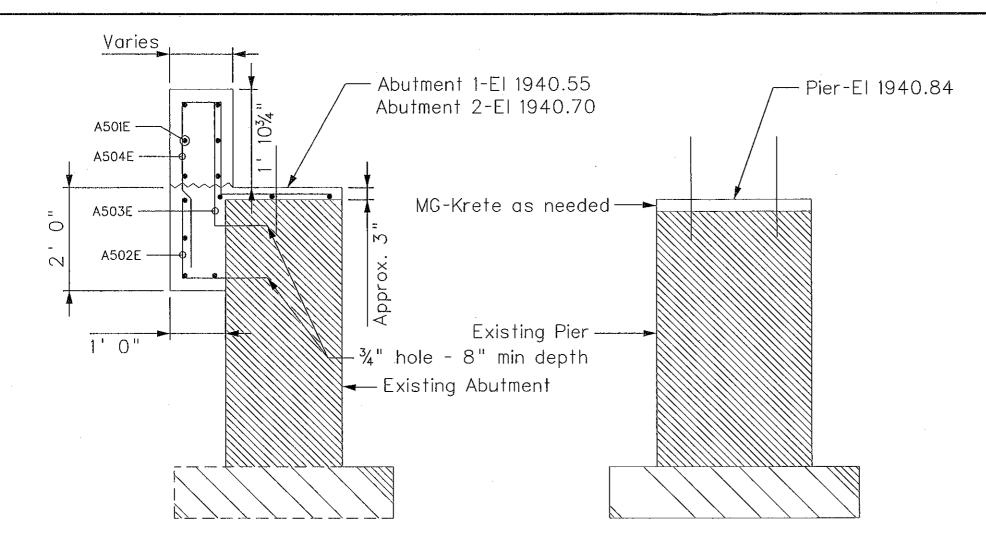
DETOUR

KD CHECKEO BY: DJC

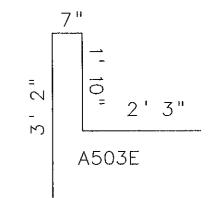
ABL

10/2009





PUBLIC ROADS DIVISIO		STATE PROJECT NUMBER	FEDERAL PROJECT NUMBER	FISCAL YEAR	COUNTY	SHEET NUMBER	TOTAL SHEETS
wv	9	S313 -50- 2,28	-	2011	GREENBRIER	5	16



Δ503E

A502E

1' 5"

/

Note: Use Anchor Bond 700, epoxy anchoring ashesive or approved equal to anchor #5 rebar into backside of existing abutments.

	REINFORCING BAR SCHEDULE													
MAŖK	SIZE OF BAR	TYPE OF BAR	LENGTH OF BAR	NUMBER OF BARS ABUT. 1	NUMBER OF BARS ABUT. 2	NUMBER OF BARS TOTAL	WEIGHT OF BARS TOTAL							
A501E	# 5	STRAIGHT	23'- 6"	13	13	26	638							
A502E	# 5	BENT	3'- 0"	24	24	48	151							
A503E	# 5	BENT	3'- 7"	24	24	48	180							
A504E	# 5	BENT	7' -10"	24	24	48	393							
				,		Total	1362							

WEST VIRGINIA DEPARTMENT OF TRANSPORTÁTION DIVISION OF HIGHWAYS

TUCKAHOE RUN BRIDGE | DESIGNED BY: KD

TUCKAHOE RUN BRIDGE OVER TUCKAHOE RUN ON

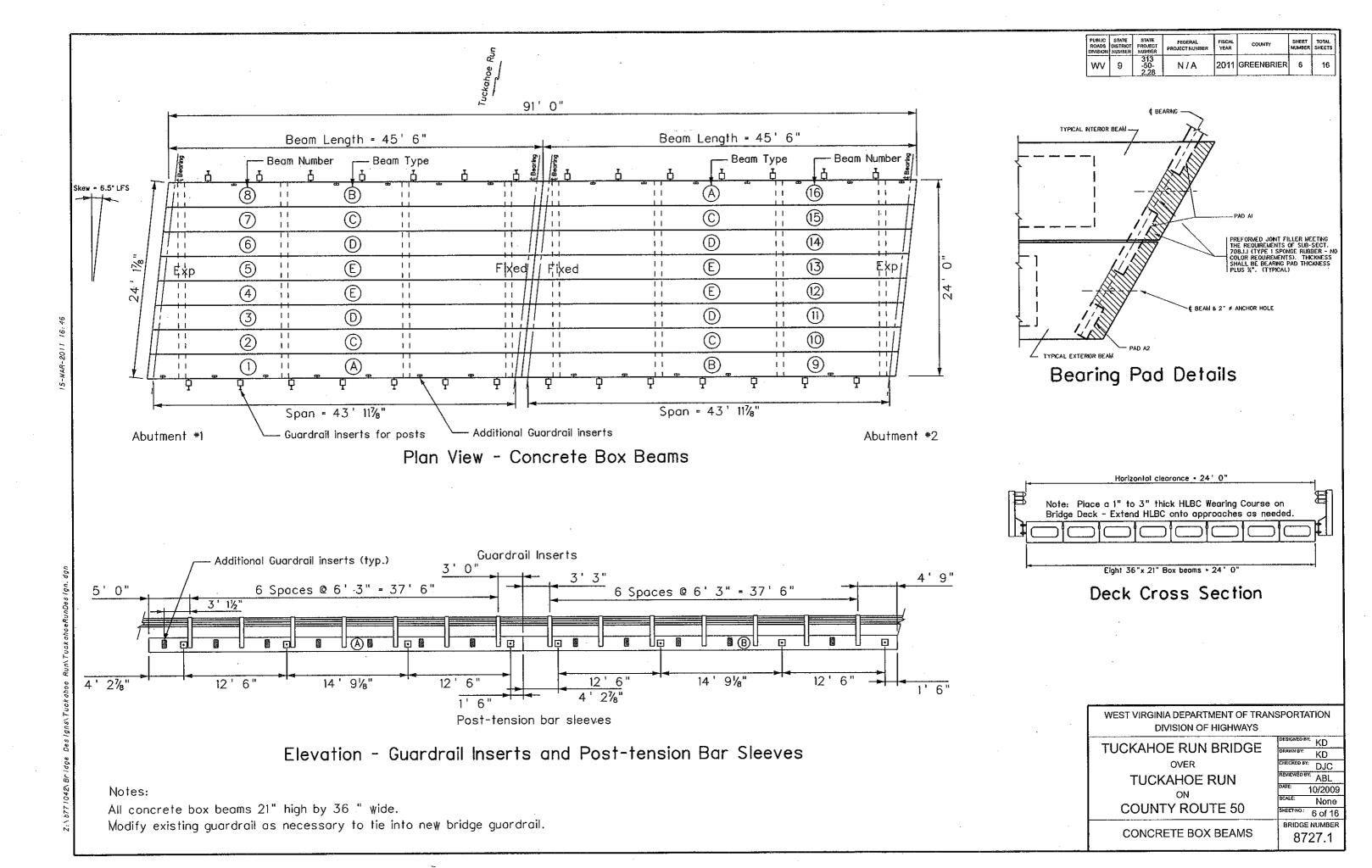
COUNTY ROUTE 50

REINFORCING BAR SCHEDULE

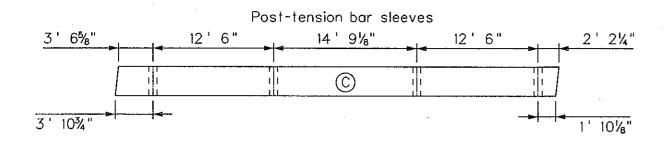
5 of 16 BRIDGE NUMBER 8727.1

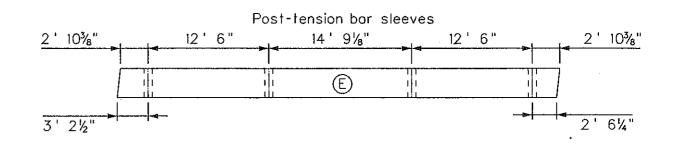
PECKED BY: DJC
AEWED BY: ABL

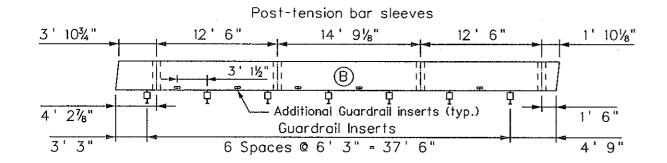
10/2009 None

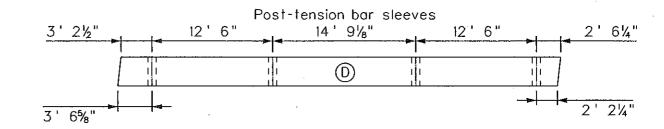


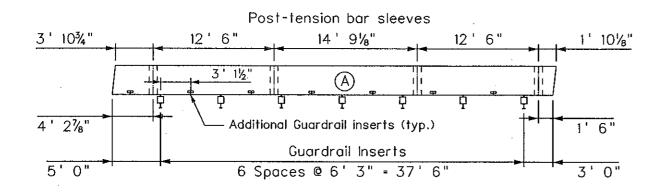
	STATE DISTRICT NUMBER		FEDERAL PROJECT NUMBER	FISCAL YEAR	COUNTY	SHEET NUMBER	TOTAL SHEETS
W٧	9	313 -50- 2.28	N/A	2011	GREENBRIER	7	16

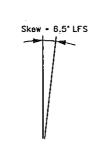


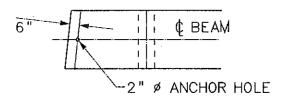












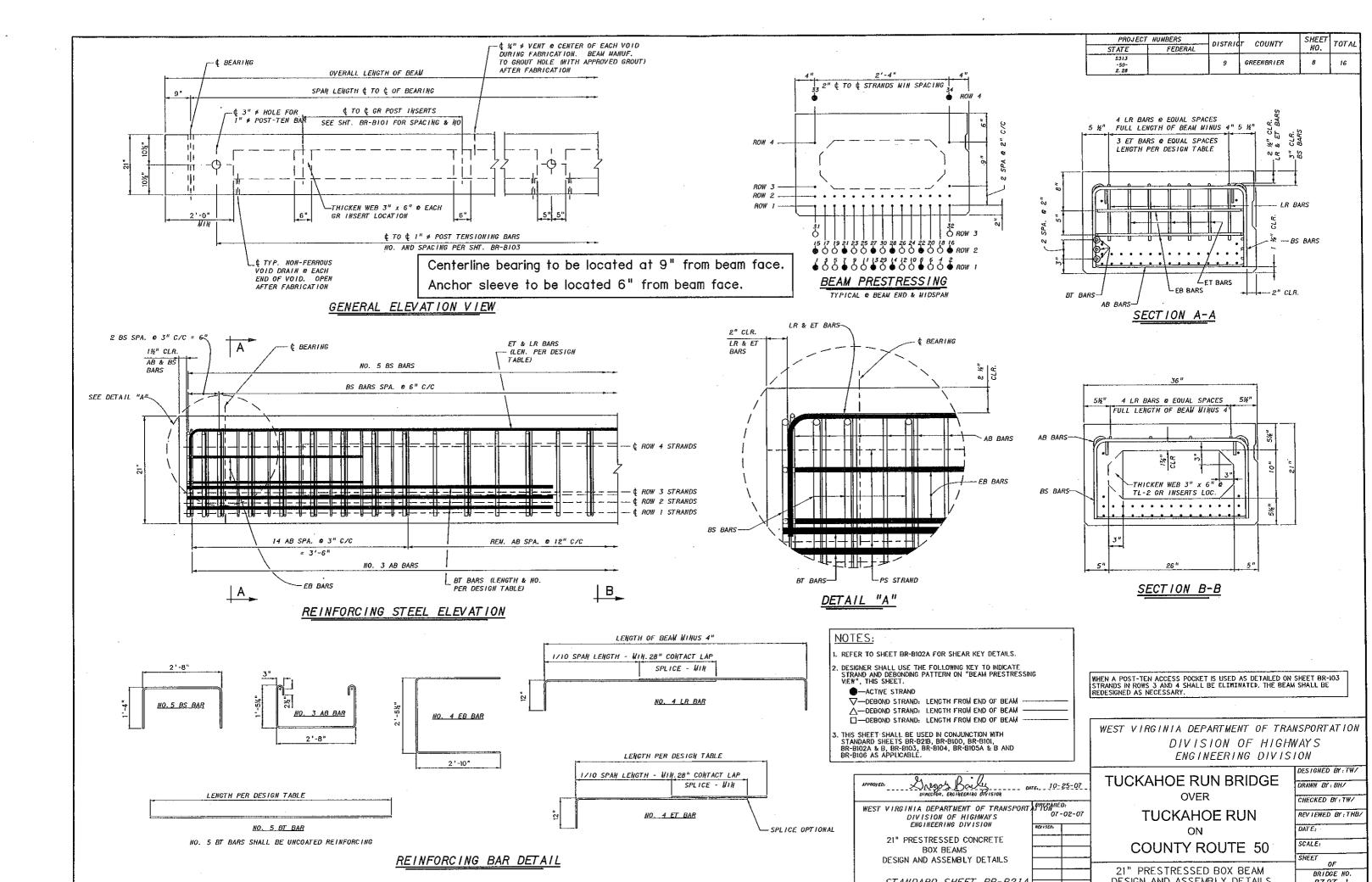
Typical Anchor Hole Location

Plan View - Location of Guardrail Inserts and Post-tension Bar Sleeves

Notes:

- 1. All concrete box beams 21" high by 36 " wide.
- 2. Position anchor sleeves at 6" from the face of the beam rather than 9".

WEST VIRGINIA DEPARTMENT OF TRAN DIVISION OF HIGHWAYS	SPORTATION
TUCKAHOE RUN BRIDGE	DESIGNED BY: KD ORAWN BY: KD
OVER	CHECKED BY: DJC
TUCKAHOE RUN	REVIEWED BY: ABL.
ON	DATE: 10/2009
COUNTY ROUTE 50	None
00011111001200	7 01 16
CONCRETE BOX BEAM DETAILS	BRIDGE NUMBER 8727.1



		 	•	· ·		DESIGN	DATA FO	OR 21" D	EPTH AD	JACENT	BOX BE	AM		 			
SPAN LENGTH & TO &	BEAR I NG		30'-0"	32'-0"	34'-0"	36′-0"	38 ′ -0 "	40'-0"	42'-0"	44'-0"	46 ' - 0 "	48'-0"	50'-0"	 1			
OYERALL LENGTH OF	BEAW		31'-6"	33′-6″	35'-6"	37 '-6"	39 ′ - 6 "	41'-6"	43′-6"	45′-6"	47 ′ - 6 "	49'-6"	51'-6"				
NO. OF 270 KSI. 1/2 STRANDS, AREA/STRA			10	10	10	12	12	14	14	14	16	16	16			·	
		RO₩ I	1.2.11.12	1.2.11.12	1,2,11,12	1.2,7.8,13,14	1,2,7,8,13,14	1.2.7.8.13.14	1.2.7,8,13.14	1.2.7.8.13.14	1.2.5.6.9.10. 13.14	1.2.5.6.9.10.	1.2.5.6.9.10.				
		ROW 2	15.16.25.26	15.16.25.26	15.16.25.26	15.16.27.28	15,16,27,28	15.16.21.22. 27.28	15,16,21,22, 27,28	15.16.21.22. 27,28	15.16,21,22. 27,28	15.16.21.22. 27.28	15.16.21.22. 27.28				
STRAND POSITION NU	WBER	ROW 3				<u> </u>								 <u> </u>	ļ		 _
		ROW 4	33.34	33.34	33,34	33.34	33,34	33,34	33.34	33,34	33.34	33.34	33,34				
PRESTRESSING FORCE			327	328	328	391	391	453	454	454	515	516	517			-	
STRAND RELEASE, Ppt, (KIPS/BEAM) EFFECTIVE PRESTRESSING FORCE AFTER ALL LOSSES, Ppe, (KIPS/BEAM)			297	298	298	350	352	403	404	406	454	456	458		-		
REQUIRED FACTORED MOMENT © STRENGTH I, MU (FT-KIPS/BEAM)		'AM)	359	393	427	465	504	545	588	639	693	746	800				
FACTORED FLEXURAL RESISTANCE, Wr (FT	-KIPS/BEAW	ט	527	527	527	644	644	743	743	743	853	853	853				
TOTAL NO. DEBONDED	STRANDS																
DEBONDED STRAND PO		RO₩ I				,					 						
FROM EACH END		ROW 2															
NUMBER & LENGTH #4 TENSION BARS & EAC		·	3 - #4 x 4'-6"	3 - #4 x 4'-6"	3 - #4 x 5'-0"	3 - #4 x 5'-0"	3 - #4 x5'-0"	3 - #4 x 5'-6"	3 - #4 'x 5'-6"	3 - #4 x 6'-0"	3 - #4 x 6'-0"	3 - #4 x 6'-0"	3 ~ #4 x 6'-6"				
NUMBER & LENGTH #5 TENSION BARS & EAC		·	2 - #6 x 5'-0"	2 - #5 x 5'-0"	2 - #6 x 6'-0"	2 - #5 x 6'-0"	2 - #5 x 6'-0"	2 ~ #5 x 6'-0"	2 - #5 x 6'-0"	2 - #5 x 6'-0"	2 - #5 x 6'-0"	2 - #5 x 6'-0"	2 - #5 x 6'-0"				
DESIGN CAMBER	@ RELEASE		0. 15	0.15	0.15	0. 26	0. 27	0. 37	0.38	0. 38	0. 55	0.55	0. 54	ļ	<u> </u>		
+=POSITIVE (UP) (INCHES)	@ ERECTION	*	0. 23	0. 23	0, 22	0.40	0. 39	0. 56	0. 55	0.52	0.79	0.76	0.71	 <u> </u>			
	@ FINAL		0. 24	0. 22	0, 18	0, 40	0. 36	0.55	0. 49	0. 40	0.70	0. 59	0. 45	 ļ			
	NO OF INS							ļ		7							
NUMBER & SPACING ¢	END OF BEA Q OF FIRST EA. END	T INSERT		**************************************			-			SEE SHT 7							
SEE NOTE 6	¢ OF 1st TO ¢ 2nd EA. EHD	INSERT INSERT					-			SEE SHT 7							
WEIGHT OF TYPICAL DIAPHRAGM (TONS)	BEAM INCLU	DING	9. 2	9.8	- 10.4	10.9	11.5	12.0	12.6	13. 1	13.8	14. 3	14.9	 			

	STATE PROJECT NUMBER	FEDERAL PROJECT NUMBER	STATE DIST. HO.	соинт	SHEET NO.	TOTAL SHEETS
. [S313 +50-	-	9	GREENBRIER	9	16

MIN. CONCRETE STRENGTH @ RELEASE 5500 PSI MIN. CONCRETE STRENGTH @ 28 DAYS= 8000 PSI INITIAL PULL/STRAND = 33.820 LBS CROSS-SECTION AREA/STRAND = 0.167 SQ.1

I.BEAM WEIGHTS LISTED IN THE DESIGN TABLE ARE BASED ON ZERO SKEW, 2 FT. LONG ENDBLOCK AND DIAPHRAGMS SPACED @ 15 FT C/C. WEIGHTS FOR SKEWED BEAMS. LONGER ENDBLOCKS AND ADDITIONAL DIAPHRAGMS SHOULD BE ADJUSTED ACCORDINGLY.

FOR ADDITIONAL DIAPHRAGMS, ADD 226 LBS/DIAPHRAGM.

FOR SKEW ADD 21 LBS/DEGREE OF SKEW/END.

FOR LONGER ENDBLOCK, ADD 271 LBS/LF/END.

- 2.DESIGNERS SHOULD NOTE THAT DATA IN STANDARD TABLE IS BASED ON EVEN SPAN LENGTHS. A TWO LANE STRUCTURE 8 BEAMS WIDE AND ZERO SKEW. SUPERIMPOSED DEAD LOADS INCLUDE TYPE F PARAPET (321 PLF) AND A FWS OF 50 PSF. FOR NON-STANDARD BRIDGES DATA SHOULD BE VERIFIED AND IF REQUIRED NEW DESIGN DATA ENTERED INTO BLANK COLUMNS. IN NO CASE SHALL THE STANDARD DESIGN TABLE BE ALTERED.
- 3. PREDICTED DESIGN CAMBER VALUES LISTED IN THE TABLE ARE BASED ON EMPIRICAL FORMULAS AND AS SUCH ARE APPROXIMATE. FOR MEMBERS WITH SPAN-TO-DEPTH RATIOS AT OR EXCEEDING 25. THE TOLERANCE VALUES LISTED IN APPENDIX B OF PCI MANUAL FOR QUALITY CONTROL. MNL~116, MAY

NOT APPLY.

MEASUREMENT OF CAMBER FOR COMPARISON TO PREDICTED DESIGN VALUES SHOULD BE COMPLETED

WITHIN 72 HOURS OF RELEASE, ADDITIONALLY, CAMBER SHOULD BE EVALUATED UNDER CONDITIONS THAT MINIMIZE THE EFFECT OF TEMPERATURE VARIATION.

- 4.DESIGNER, FABRICATOR, AND ERECTOR SHALL BE AWARE THAT SKEWED END BEAMS MAY TWIST OR WARP. CAUSING UNEVEN BEAM SEATING AT THE BEARINGS. THE CONTRACTOR IS REQUIRED TO CORRECT AT THE TIME OF ERECTION. BEFORE THE BEAMS ARE SECURED IN PLACE. METHOD OF CORRECTION SHALL PROVIDE
 AN EVEN. TOTAL BEARING AND A LEVEL TOP BEAM SURFACE. TOLERANCE, AFTER CORRECTION. SHALL BE (+/-) % INCH. THE FABRICATOR SHALL NOTIFY THE CONTRACTOR AND DESIGNER IF CORRECTIONS ARE REQUIRED PRIOR TO SHIPMENT.
- 5. MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
- 6.DESIGNER INPUT VALUES OF NUMBER OF INSERTS. DISTANCE FROM END OF BEAM TO & FIRST INSERT, AND & FIRST INSERT TO & SECOND INSERT. ABOVE VALUES SHALL BE BASED ON THE REQUIRED 6'-3" GUARDRAIL POST SPACING ACROSS THE BRIDGE.
- 7.THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-B21A. BR-B100, BF BR-B103, BR-B104, BR-B105A & B AND BR-B106 AS APPLICABLE.

			LIO MEEN MODE	
R-BIOI. BR-BIO2A & B.			TUCKAHOE RUN BRIDO	
	imorea Sargo's Bailes on	10-25-07	OVER	
	director. Exclutering division		TUCKAHOE RUN	
	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	07-02-07	ON	
	ENGINEERING DIVISION DESIGN TABLE FOR 21"	MCV ISEDA	COUNTY ROUTE 50	
			DESIGN TABLE FOR 21"	
	PRESTRESSED BOX BEAM	<u> </u>	DESTON TABLE TOTE ET	
	STANDARD SHEET BR-B21B		PRESTRESSED BOX BEAM	

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS ENGINEERING DIVISION

DESIGNED BY TW/ KAHOE RUN BRIDGE DRAWN BY:THB/ OVER CHECKED BY:TW/ **TUCKAHOE RUN** REVIEWED BY: THB/ DATE: SCALE COUNTY ROUTE 50 SHEFT NO OF

BRIDGE HUMBER *87 27* .

GOVERNING SPECIFICATIONS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION. DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, ADOPTED 2000 AS AMENDED BY THE CURRENT SUPPLEMENTAL SPECIFICATIONS. THE CONTRACT PLANS AND CONTRACT SPECIAL PROVISIONS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

ALL BEAMS ARE DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 1998 AS AMENDED BY THE 2003 INTERIM SPECIFICATIONS.

ALL STANDARD ADJACENT PRESTRESSED CONCRETE BRIDGE BEAMS ARE DESIGNED TO MEET THE FOLLOWING CRITERIA:

- 1. DESIGN LOADS:
 - HL-93 LIVE LOAD IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
 - FUTURE WEARING SURFACE OF 50 PSF OF ROADWAY

TYPE F PARAPET WEIGHING 321 PLF.

DIAPHRAGM DEAD LOAD, NUMBER REQUIRED BASED ON 15'-0" MAX. SPACING.

- 2. TWO LANE BRIDGE WITH AN OVERALL WIDTH OF 24'-5" (INCL. 34" GAP BETWEEN ADJ. BEAMS), A CURB-TO-CURB WIDTH OF 22'-1". TRANSVERSE POST-TENSIONING. AND ZERO SKEW.
- 3. DESIGN STRENGTH AND UNIT STRESSES:

MINIMUM CONCRETE STRENGTH & STRAND RELEASE	6000	PSI
MINIMUM CONCRETE STRENGTH & 28 DAYS	8000	P\$1
TEMPORARY STRESS LIMITS IN CONCRETE BEFORE LOSSES:		
COMPRESSION STRESS LIMIT & STRAND RELEASE	3600	PS I
TENSION STRESS LIMIT @ STRAND RELEASE	-200	PSI
COMPRESSIVE STRESS LIMITS IN CONCRETE @ SERVICE I AFTER LOSSES:		
@ FINAL I (PS+DL+L L)	4800	PSI
@ FINAL 2 (PS+DL)	3600	PS1
@ FINAL 3 [50% (PS+DL) +LL]	3200	PSI
TENSILE STRESS LIMIT IN CONCRETE & SERVICE III AFTER LOSSES:		
0 FINAL 1 (PS+DL+L++	-270	PS I
TENDON STRESS LIMIT PRIOR TO TRANSFER	202. 5	KSI
TENDON STRESS LIMIT AFTER ALL LOSSES	194.4	KSI

- 4. DEBONDING OR SHIELDING OF STRANDS TO REDUCE TEMPORARY TENSILE STRESSES IS PERMITTED. HOWEVER DEBONDING IS LIMITED TO 40% PER ROW AND 25% TOTAL. IN NO INSTANCES SHALL OUTER STRANDS BE DEBONDED. DEBONDED STRANDS SHALL BE SEPARATED BY AT LEAST ONE FULLY BONDED STRAND AND SHALL BE SYMMETRICAL ABOUT THE ¢ OF THE BEAM SHIELDING OF STRANDS SHALL BE ACCOMPLISHED BY TAPING OR TIGHT FITTING PLASTIC TUBES TAPED AT EACH END.
- 5. THE ELASTOMERIC BEARING PADS PROVIDED IN THE STANDARD DESIGNS ARE BASED ON ZERO GRADE AND ARE LIMITED TO A MAXIMUM OF 5% GRADE. IN INSTANCES OF GRADES EXCEEDING THIS LIMIT, PADS SHALL BE SPECIFICALLY DESIGNED. INDIVIDUAL PAD DESIGNS SHALL BE IN ACCORDANCE WITH SECTION 14, AASHTO LRFD. BEVELED SOLE PLATES ARE PERMITTED.
- 6. MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
- 7. WHEN ALTERNATE DESIGNS OR SITE SPECIFIC DESIGNS ARE PROVIDED, CRITERIA SET FORTH IN THESE STANDARDS SHALL APPLY.
- 8. NEGATIVE DESIGN CAMBER AFTER ALL LOSSES IS NOT PERMITTED.
- 9. EACH BEAM PROVIDED IN THESE STANDARD DESIGNS HAS BEEN LOAD RATED IN ACCORDANCE WITH SECTION 3. 15 OF THE WEST VIRGINIA DIVISION OF HIGHWAYS BRIDGE DESIGN MANUAL, 2004. ADDITIONALLY, LOAD RATING PROCEDURES ARE IN ACCORDANCE WITH THE AASHTO MANUAL FOR CONDITION EVALUATION AND LOAD AND RESISTANCE FACTOR RATING OF HIGHWAY BRIDGES. 2003.

LAP SPLICE TABLE						
BAR SIZE						
SPLICE LEN.	21"	28"	34"	41"		

THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-817A & B THRU BR-B42A & B. BR-B101. BR-B102A & B. BR-B103. BR-B104. BR-B105A & B AND BR-B106 AS APPLICABLE. ALL WELDING OF FABRICATED ITEMS. AS SHOWN IN THESE PLANS SHALL BE IN

MATERIALS & FABRICATION NOTES

* THE PRESTRESSED CONCRETE BEAMS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF SECTION 603 OF THE STANDARD SPECIFICATIONS.

MILD REINFORCEMENT:

- · ALL NILD REINFORCING STEEL SHALL BE GRADE 60. DEFORMED BILLET STEEL AND SHALL BE EPOXY COATED EXCEPT WHERE NOTED. ALL UNCOATED REINFORCING SHALL MEET THE REQUIREMENTS OF AASHTO M31. ALL EPOXY COATED REINFORCING SHALL MEET THE REQUIREMENTS OF AASHTO M284, EXCEPT WHERE AMENDED BY SECTION 709.1 OF THE STANDARD SPECIFICATIONS.
- · ALL TENSION LAP SPLICES SHALL BE A CLASS B, CONTACT TYPE. MINIMUM LAP SPLICE LENGTHS SHALL BE AS GIVEN IN THE "LAP SPLICE TABLE". THIS SHEET. ADDITIONALLY. IF LAP SPLICING OF ET, LR, AND BT BARS IS USED, TERMINATION OF THE SPLICE SHALL BE NO CLOSER TO THE END OF THE BEAM THAN 1/10 OF THE SPAN LENGTH.
- · MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS. EXCEPT THAT NO. 4 AB BARS MAY HAVE A MINIMUM BEND DIAMETER OF 4 BAR DIAMETERS.
- · MINIMUM CONCRETE COVER SHALL BE AS SPECIFIED IN SECTION 603.5 OF THE STANDARD SPECIFICATIONS. EXCEPT WHERE NOTED ON THE PLANS.

PRESTRESSING STRAND:

- *ALL PRESTRESSING STEEL SHALL BE "" #. GRADE 270. 7 WIRE UNCOATED. LOW-RELAXATION STRAND MEETING THE REQUIREMENTS OF AASHTO M203, SUPPLEMENT SI.
- · ALL BEAMS DESIGNED IN THESE STANDARDS UTILIZE STRANDS WITH A NOMINAL AREA OF O. 167 SQ. IN. STRANDS WITH A NOMINAL AREA OF 0.153 SQ. IN. IS PERMITTED FOR INDIVIDUAL OR ALTERNATE DESIGNS. HOWEVER THE DESIGNER IS ENCOURAGED TO USE THE LARGER STRAND FOR UNIFORMITY REASONS. IN NO CASES WILL STRESS-RELIEVED STRAND BE PERMITTED.
- * ALL STRANDS SHALL BE ENCLOSED INSIDE THE STIRRUP CAGE FOR THE FULL LENGTH OF THE BEAM.
- · ALL EXPOSED PRESTRESSING STRAND AT EACH BEAM END SHALL BE SHOP COATED WITH A LIQUID COLD-APPLIED BITUMINOUS ELASTOMERIC WATERPROOFING MEMBRANE. MATERIAL SHALL MEET ASTM C836-84.

- · ALL CONCRETE USED IN MANUFACTURING PRESTRESSED CONCRETE BEAMS SHALL MEET THE REQUIREMENTS OF SECTION 603.6 OF THE STANDARD SPECIFICATIONS. DESIGN STRENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES SET FORTH IN THESE PLANS
- ALL CONCRETE USED IN PARAPETS AND CURBS SHALL BE CLASS K CONCRETE.

ELASTOMERIC BEARING PADS:

- · ALL BEARING PADS SHALL MEET THE APPLICABLE REQUIREMENTS AS SET FORTH IN SECTION 18.2 OF THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 1998 EDITION WITH CURRENT INTERIMS. ALL BEARINGS SHALL BE STEEL REINFORCED LAMINATED BEARINGS.
- · THE ELASTOMER MATERIAL SHALL BE 60 DUROMETERS WITH A MINIMUM LOW TEMPERATURE GRADE OF 3 (ZONE C).
- · ALL STEEL REINFORCING SHALL MEET THE REQUIREMENTS OF AASHTO M270. GRADE 36.

GUARDRAIL. GUARDRAIL POSTS. TUBING & INSERTS:

 ALL W-BEAM GUARDRAIL AND ATTACHMENT HARDWARE SHALL BE IN ACCORDANCE WITH SECTION 712.4 OF THE STANDARD SPECIFICATIONS. GUARDRAIL POSTS, STRUCTURAL TUBING, POST ATTACHMENT INSERTS. AND HARDWARE SHALL MEET THE LISTED MATERIAL AND COATING SPECIFICATIONS:

<u>ITE</u> #	DESCRIPT 10N	MATERIAL SPEC.	COATING SPEC
POST	W6x25	AASHTO W270. GR 36	AASHTO MIII
PLATE	1/2" x 7"	AASHTO M270, GR 36	AASHTO MIII
TUBING	TS 8x4x3/16	ASTM A500. GR B	AASHTO WIII
CHANNEL	C7x9.8	AASHTO M270, GR 36	AASHTO MIII
FERRULE TYPE 2A	1¼" \$ x 2½" MIN LEN.	ASTM A108 (11L17 STEEL)	AASHTO M232
WIRE ANCHOR	¾" ø	ASTM A510 (1018 STEEL)	AASHTO M232
STUDS	14" \$ x 8" LONG	ASTM A108 (1045 C.D. STEEL)	AASHTO M232
NUTS	14" \$	AASHTO M291. CLASS C	AASHTO M232
COUPLERS TYPE IA	14" \$ x 5" LONG	ASTM AIOS (12L14 STEEL)	AASHTO M232
BOLTS SANCHOR	114" # x 12" LONG	AASHTO W164 (TYPE 1. HH)	AASHTO M232
BOLTS	%" ≠ x ALL LEN.	AASHTO W164 (TYPE 1, HH)	AASHTO M232
HUTS	5/ h \$	AASHTO M291, CLASS C	AASHTO M232
WASHERS	ALL	AASHTO M293	AASHTO M232
	-		

WELDING:

· TACK WELDING OF REINFORCEMENT IS NOT PERMITTED. REINFORCING CAGES AND LONGITUDINAL STEEL SHALL BE ADEQUATELY TIED WITH APPROVED MEANS TO PREVENT RACKING AND MISALIGNMENT.

ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF AASHTO/AWS DI. 5. 2002.

STATE PROJECT HUŅBER	FEDERAL PROJECT NUMBER	STATE DIST. NO.	COVHTY	SHEET HO.	TOTAL SHEETS
\$313 -50- 9.98	-	9	GREENBR I ER	10	16

- POST TENSIONING THREAD BARS SHALL BE ONE INCH DIAMETER, 150 KSI STEEL. AND SHALL CONFORM TO AASHTO M275, TYPE II. STEEL THREAD BARS SHALL BE DESIGNED TO ALLOW THE USE OF HEAVY HEX NUTS AND COUPLERS THAT THREAD ONTO THE END OF THE DEFORMATIONS. HEAVY HEX NUTS AND COUPLERS SHALL BE OF A DESIGN AND MATERIAL RECOMMENDED BY THE BAR MANUFACTURER TO DEVELOP THE FULL TENSILE STRENGTH OF THE BAR. PROPERLY DOCUMENTED CERTIFIED WILL TEST REPORTS SHALL BE PROVIDED FOR EACH HEAT OF STEEL THREAD BARS.
- · ALL POST-TENSIONING THREAD BARS. NUTS. BEARING PLATES. COUPLERS. AND ANCILLARY HARDWARE SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO WIII. THE GALVANIZING PLANT SHALL ADMINISTER ADEQUATE QUALITY CONTROL MEASURES TO SAFEGUARD AGAINST HYDROGEN EMBRITTLEMENT. QUALITY CONTROL MEASURES SHALL COMPLY WITH ASTM A-143. CERTIFICATION FOR HOT-DIP GALVANIZING SHALL BE PROVIDED
- ALL POST-TENSIONING BEARING PLATES SHALL CONFORM TO AASHTO M270. GRADE 36.

SHEAR KEY GROUT

- SHEAR KEY GROUT SHALL BE A GROUT THAT IS RECOMMENDED BY THE MANUFACTURER FOR A POURABLE GROUT APPLICATION AND THAT BASED ON THE MANUFACTURER'S TEST DATA WILL ATTAIN A MINIMUM OF 4500 PSI COMPRESSIVE STRENGTH IN 3 DAYS UNDER CONDITIONS REPRESENTATIVE OF THE CONDITIONS TO BE EXPERIENCED AT THE SITE. THE GROUT MUST BE LISTED ON THE APPROVED LIST OF GROUTS PUBLISHED BY THE WEST VIRGINIA DIVISION OF HIGHWAYS, MATERIALS CONTROL, SOIL AND TESTING DIVISION. THE CONTRACTOR SHALL PRE-TEST THE PROPOSED GROUT FOR COMPRESSIVE STRENGTH AT 3 AND 7 DAYS AND SUBMIT THE RESULTS TO THE BRIDGE PROJECT MANAGER FOR APPROVAL PRIOR TO INSTALLATION OF THE GROUT IN THE STRUCTURE. THE TESTS WILL BE BASED ON A POURABLE CONSISTENCY WITH THE SAME WATER/GROUT MIXTURE RATIO TO BE USED IN THE
- *THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT FOR EACH PROJECT, THE GROUT PRE-TEST RESULTS OBTAINED IN THE NOTE ABOVE. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM A NEW PRE-TEST AND SUBMISSION FOR APPROVAL UNDER ANY OF THE FOLLOWING CONDITIONS:
- · A PERIOD OF 18 WONTHS HAS ELAPSED SINCE LAST PRE-APPROVAL TESTING.
- · GROUT MANUFACTURER HAS REVISED OR CHANGED THE GROUT SPECIFICATIONS.
- · THE CONTRACTOR ALTERS THE WATER/GROUT MIXTURE RATIO.
- · THE CONTRACTOR CHANGES GROUT MANUFACTURER
- * THE CONTRACTOR IS REQUIRED TO COMPLETE THE GROUT STRENGTH TABLE ON BR-B103.
- . TEST PROCEDURE FOR DETERMINING THE COMPRESSIVE STRENGTH OF GROUT SHALL USE CUBE SPECIMENS IN ACCORDANCE WITH ASTM CIO9. AS MODIFIED BY ASTM CI107. GROUT TESTING IN ACCORDANCE WITH AASHTO T23 (STANDARD CYLINDER TEST) IS NOT ACCEPTABLE.

PROTECTIVE SURFACE TREATMENT:

- · EACH PRESTRESSED CONCRETE BEAM SHALL BE TREATED BY THE MANUFACTURER AT THE FABRICATION PLANT WITH AN APPROVED CONCRETE SEALER (SILANE). AN APPROVED LIST OF CONCRETE SEALERS ARE ON FILE AT THE WEST VIRGINIA DIVISION OF HIGHWAYS. MATERIALS CONTROL, SOIL AND TESTING DIVISION. COVERAGE SHALL INCLUDE TOP AND BOTTOM OF INTERIOR BEAMS, AND TOP, BOTTOM AND EXTERIOR SIDE OF EXTERIOR BEAM. APPLICATION RATE SHALL BE PER TREATMENT MANUFACTURER'S RECOMMENDATION.
- AFTER COMPLETION OF THE SILANE TREATMENT BY FABRICATOR AND A MAXIMUM OF FIVE WORKING DAY'S PRIOR TO SHIPMENT OF THE BEAMS. THE FABRICATOR SHALL BE RESPONSIBLE FOR ABRASIVE BLAST CLEANING TO CLEAN WHITE CONCRETE THE INTERIOR SIDES OF BEAMS FOR THE FULL LENGTH CLEAN WHITE CONCRETE SHALL MEAN REMOVAL OF ALL DIRT, GREASE, OIL, AND LOOSE CONCRETE LAITANCE AND PROVIDE A ROUGHENED CONCRETE SURFACE. BLASTING MEDIUM SHALL BE APPROVED BY THE DIVISION OF HIGHWAYS.

SHOP DRAWINGS

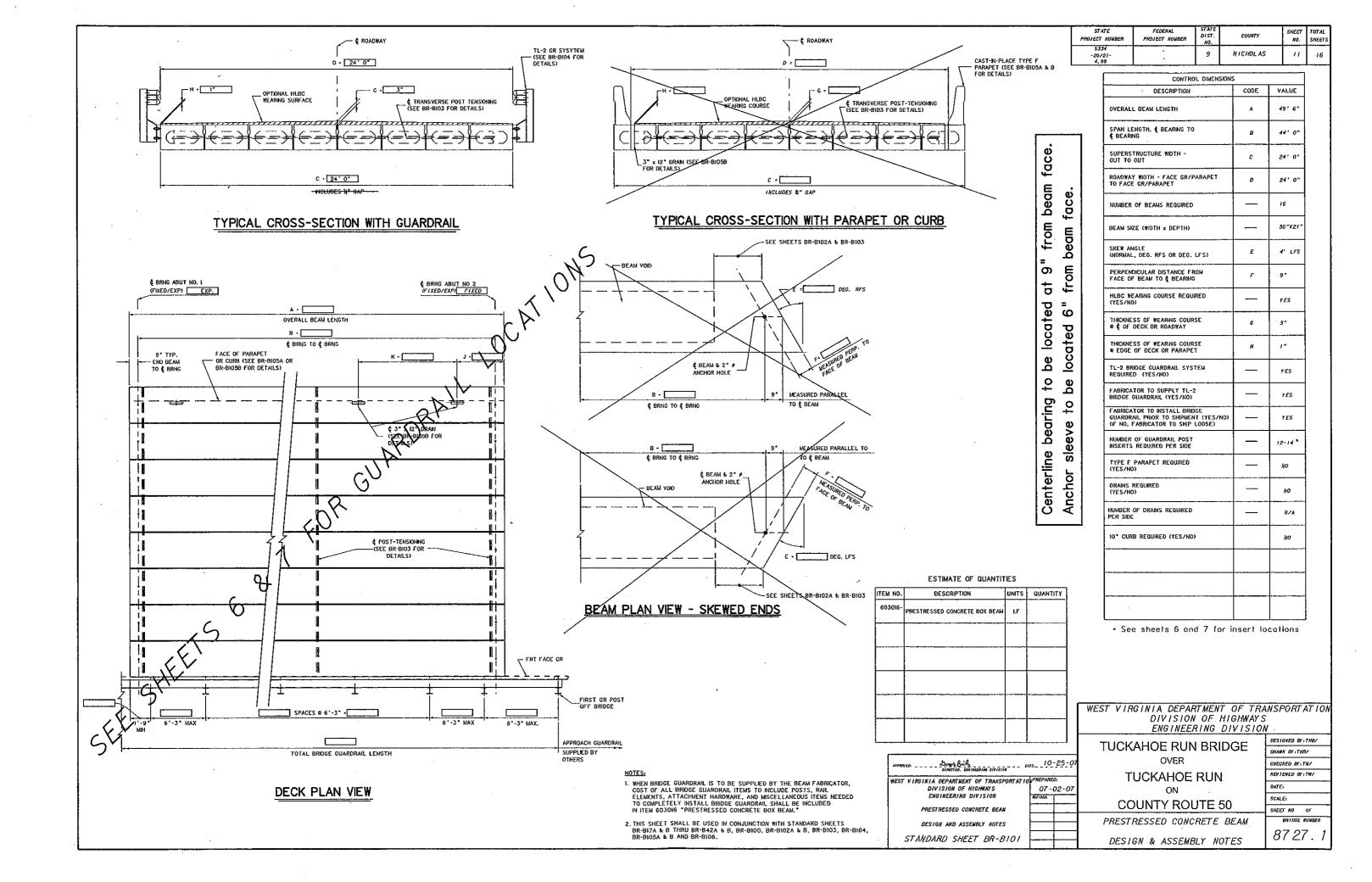
STANDARD SHEET BR-B100

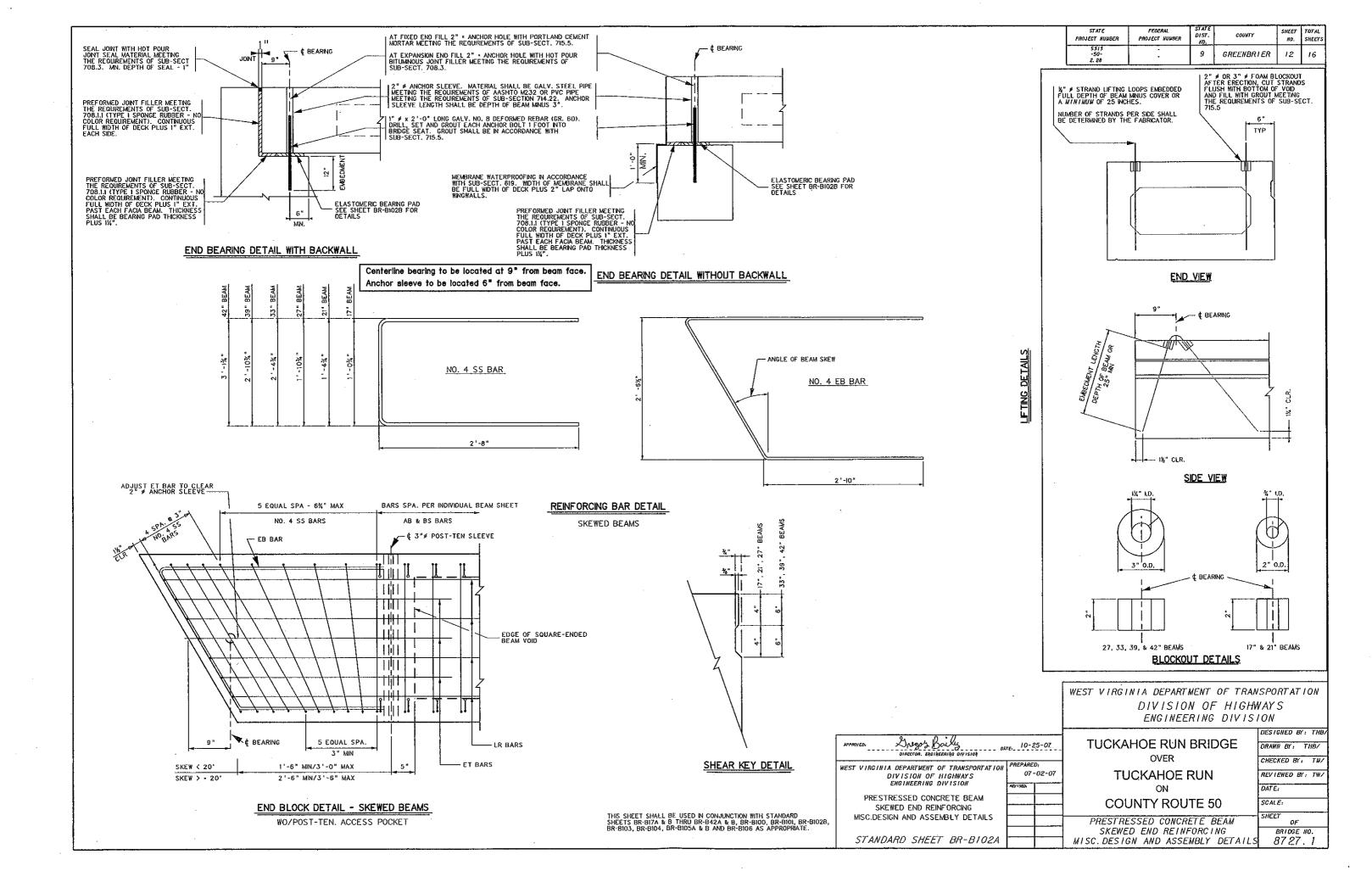
THE FABRICATOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SHOP DRAWINGS IN ACCORDANCE WITH THE WEST VIRGINIA DIVISION OF HIGHWAYS DOCUMENTS, DD-102 AND THE STANDARD SPECIFICATIONS. ADDITIONAL INFORMATION IS PROVIDED IN SECTION 7 OF THE BRIDGE DESIGN MANUAL. SHOP DRAWINGS SHALL INCLUDE THE FABRICATOR'S DETENSIONING PLAN.

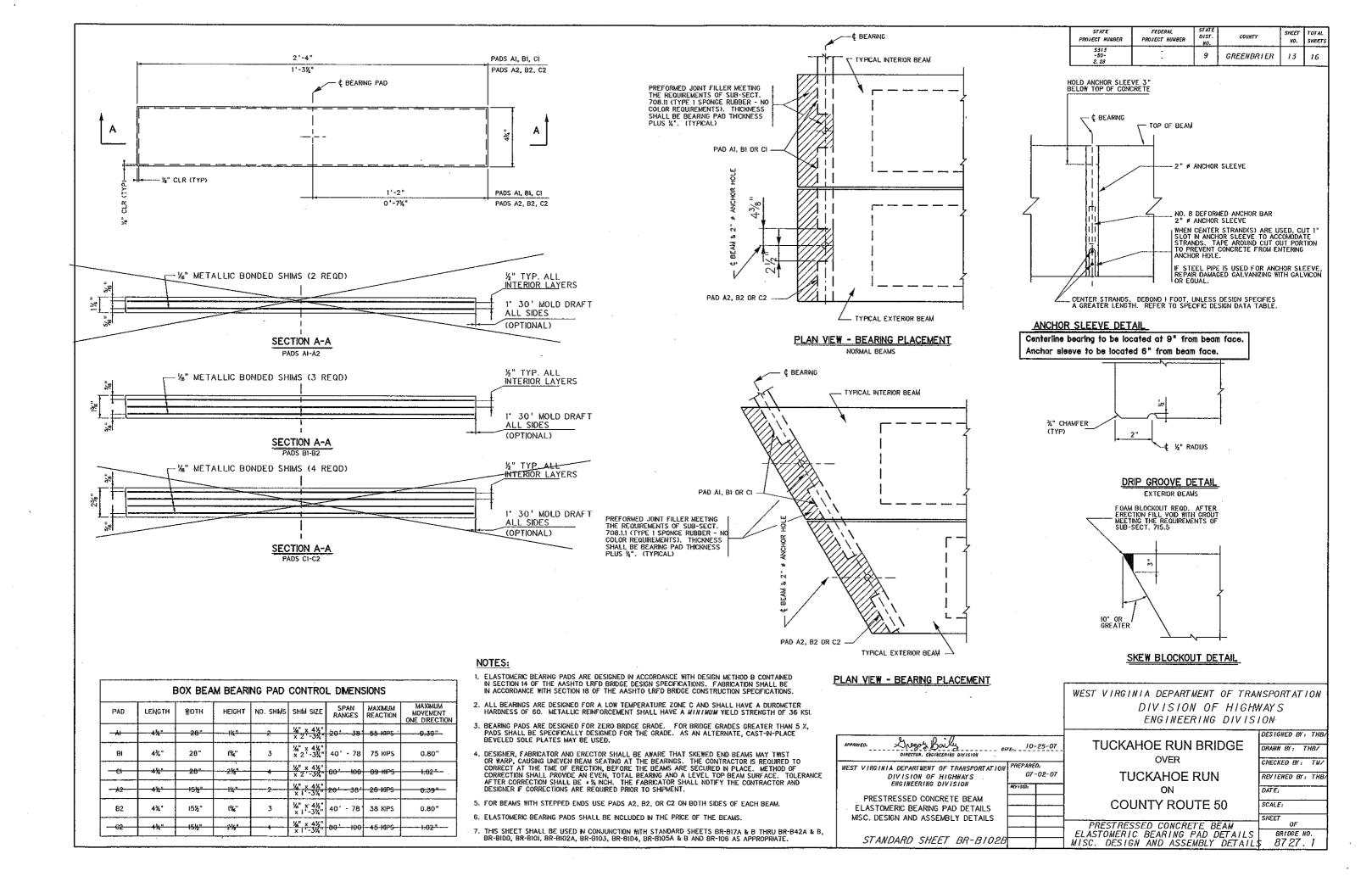
		WEST VIRGINIA DEPARTMENT OF TRA DIVISION OF HIGHWAYS ENGINEERING DIVISION	;
		TUCKAHOE RUN BRIDGE	DESIGNED BY:THB/ DRAWN BY:THB/
Brogot Baily officers of the contraction of the con	10-25-07	OVER TUCKAHOE RUN	CHECKED BY:TW/
ST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	07-02-07	ON	DATE:
PRESTRESSED CONCRETE BEAM	REV) SED.	COUNTY ROUTE 50	SCALE: SHEET NO OF
DESIGH & ASSEMBLY NOTES		PRESTRESSED CONCRETE BEAM	BRIDGE HUWBER

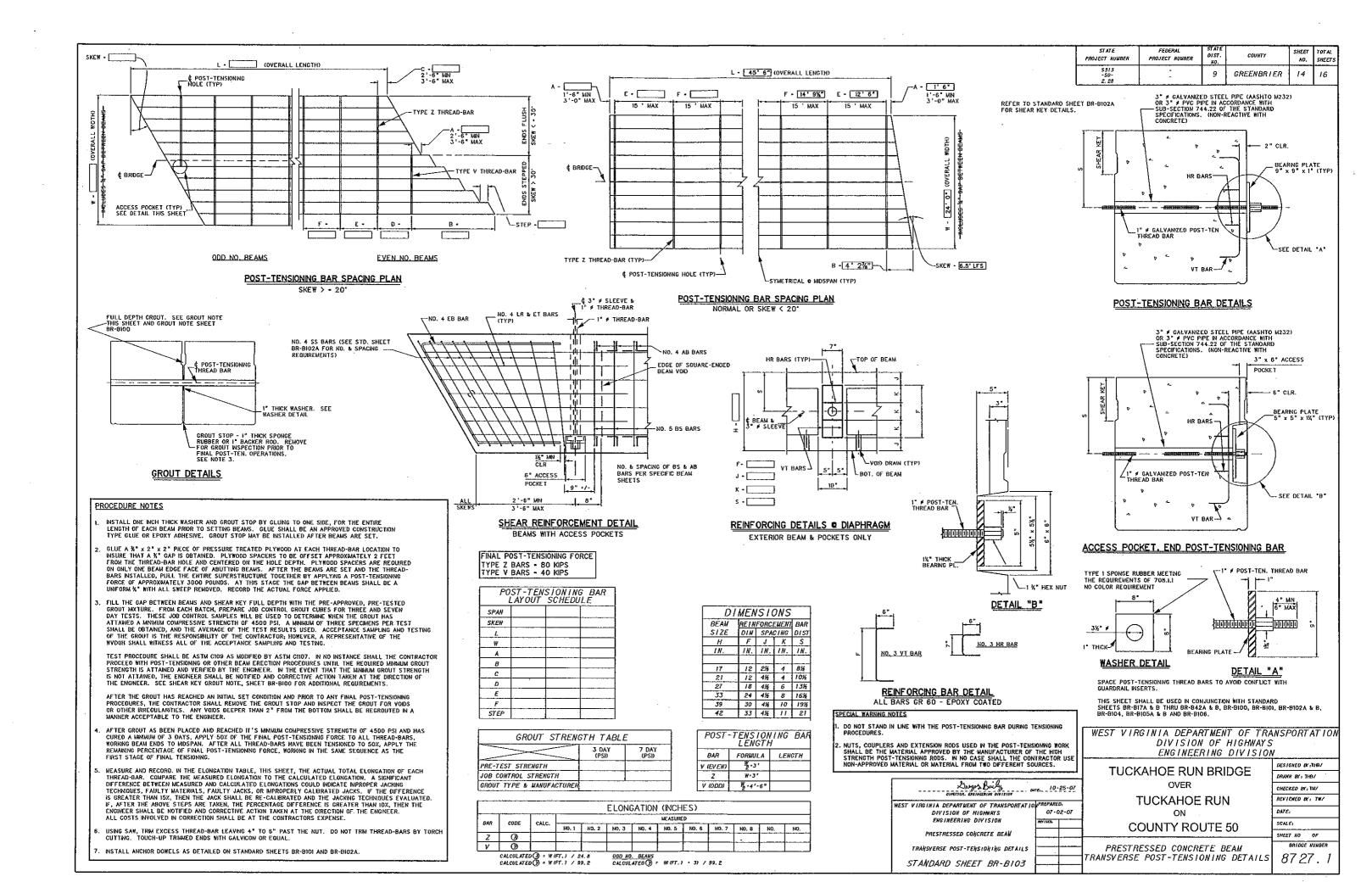
DESIGN & ASSEMBLY NOTES

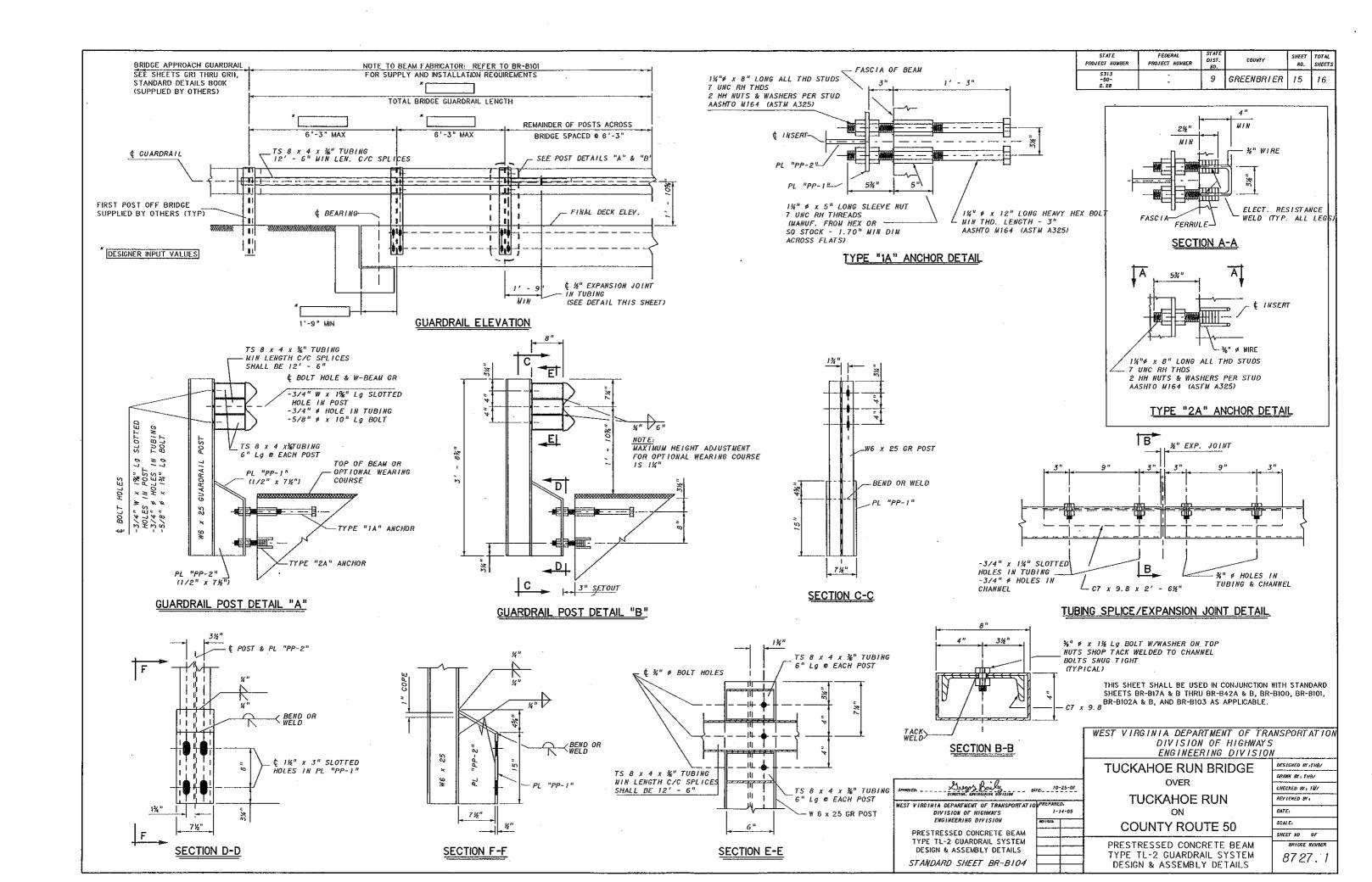
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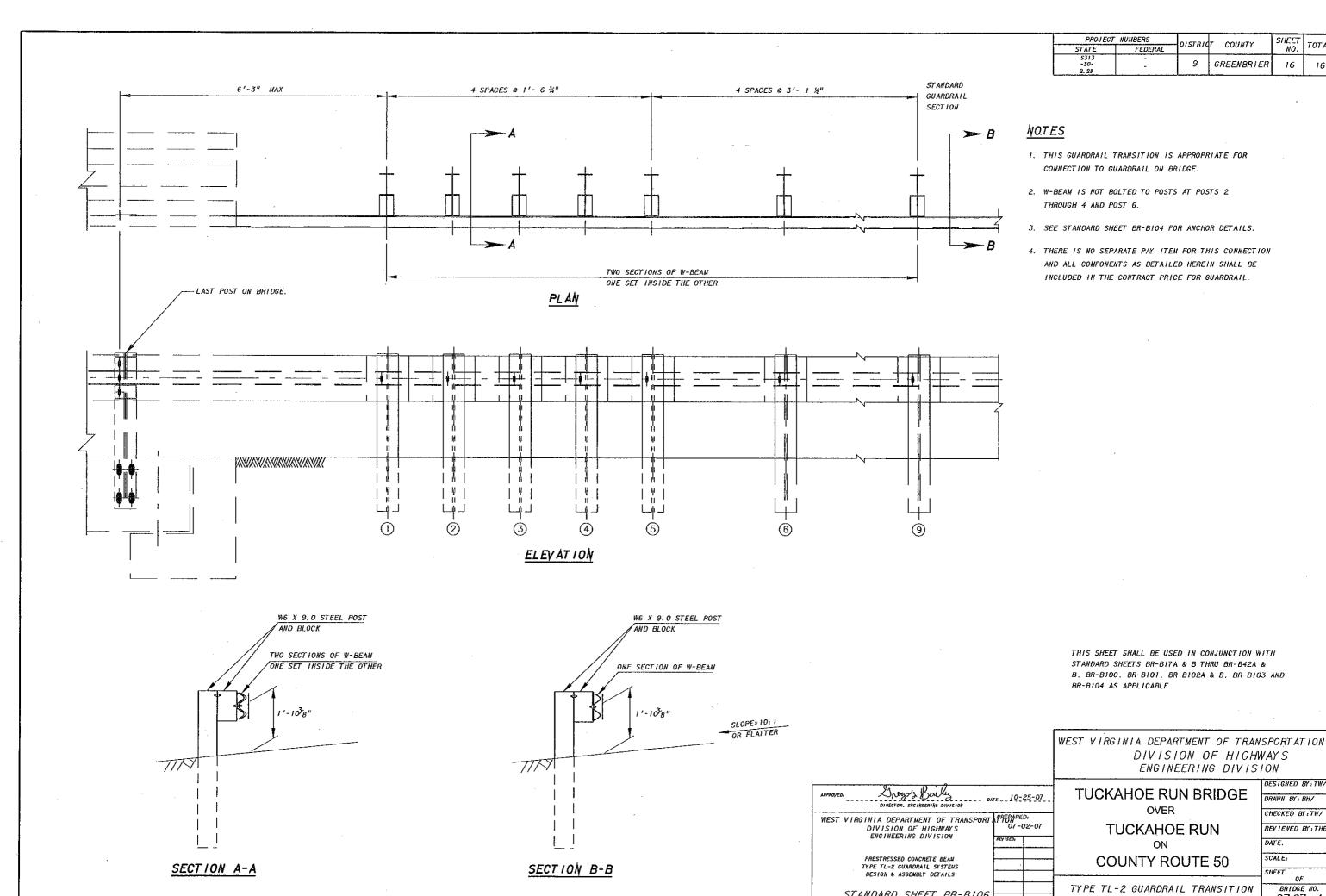












SHEET TOTAL

16

DISTRICT

DIVISION OF HIGHWAYS

ENGINEERING DIVISION

OVER

DESIGNED BY TW/

CHECKED BY:TW/

REVIEWED BY:THB/

BRIDGE NO.

DRAWN BY: BH/

SCALE:

FEDERAL

COUNTY

GREENBRIER