#### **State Level Historic Documentation Report**

State Project No. S311-47-11.33 Federal Project No. STP-0047(048)D

#### Fink Creek W-Beam Bridge Gilmer County



#### Prepared by:

Randy Epperly, Historian

Department of Transportation Division of Highways Engineering Division Environmental Section

**February 8, 2017** 

## STATE LEVEL HISTORIC DOCUMENTATION FINK CREEK W-BEAM BRIDGE

Location: West Virginia Route 47, spanning Fink Creek

Gilmer County West Virginia

USGS Vadis Quadrangle

Date of Construction: 1939

Builder: Federal Emergency Administration of Public Works

Present Owner: West Virginia Department of Transportation

Division of Highways

1900 Kanawha Boulevard, Building 5, Room A-110

Charleston, WV 25305

Present Use: Vehicular Bridge

Significance: The Fink Creek W-Beam Bridge is eligible for the National Register of Historic Places

under Criterion A for its association with the Public Works Administration and

Franklin Roosevelt's New Deal.

Project Information: The project has been undertaken due to the poor condition of the structure. The

project will provide a bridge meeting current bridge standards to cross Fink Creek. The new bridge will also decrease the potential for flooding in the area. The existing bridge warrants replacement. The documentation was undertaken in December 2016 in accordance with a Memorandum of Agreement among the Federal Highway Administration, West Virginia Department of Transportation, and West Virginia State Historic Preservation Office. The bridge is scheduled to be replaced in 2018.

Attached are plans for a bridge deck overlay dated 1989. No original plans have

been found.

Randy Epperly, Historian

West Virginia Division of Highways

Charleston, WV 25305

February 8, 2016

The Fink Creek W-Beam Bridge carries WV Route 47 over Fink Creek in Gilmer County, just upstream from the confluence with Leading Creek. The bridge was built in 1939 by the Federal Emergency Administration of Public Works. Although original plans could not be found, attached are 1989 plans for a bridge deck overlay. The bridge is eligible under Criterion A of the National Register of Historic Places for its "significant association with a historic transportation system, program, event, trend, or policy" (KCI, 2013)

Fink Creek W-Beam Bridge is a three simple span steel girder. Each span is 55 feet long and the overall length from end to end parapet walls is 173 feet 4 inches. It is a curved structure with a 45 degree right backward skew and supported by concrete spill through abutments and 2 three-column concrete bents. The bridge has 27 foot superstructure width and a 24 foot roadway width. There is a 2 feet 9 inch high concrete balustrade type parapet wall with guardrail in front along each side. There are 2 plaques on the upstream side of the bridge, one has the bridge number, year of construction, and WV state seal. The other plaque states: "Federal Emergency, Administration of Public Works Franklin D. Roosevelt, President of the United States, Harold L. Ickes, Administrator of Public Works, Fink Creek Bridge, 1939" (WVDOH, 2012).

The Fink Creek W-Beam Bridge was built to upgrade the crossing of Fink Creek when WV Route 47 was being upgraded and realigned. Originally the Staunton Parkersburg Turnpike was located in the area. In 1822 Claudius Crozet began to survey a route from Staunton, Virginia to the Ohio River. The Virginia General Assembly appropriated the money in 1824, construction began in 1838, and the road was completed in 1845. The turnpike was the primary route during the Civil War between eastern and western Virginia (Staunton-Parkersburg Turnpike Alliance).

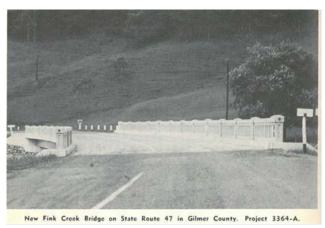


Photo taken by WV State Road Commission, 1940-41.

The Public Works Administration (PWA) was created on June 16, 1933 as part of the National Industrial Recovery Act. The act was part of Franklin Roosevelt's New Deal to aid economic growth and provide employment (Public Works Administration). Although the PWA spent billions and constructed many public projects like the Fink Creek Bridge, employment and the economy did not grow as expected. The PWA was abolished in 1941 as spending and industries began supporting the World War II effort (Eleanor Roosevelt Papers Project).

#### **BIBLIOGRAPHY**

Mead & Hunt, KCI. West Virginia Historic Bridge Survey Inventory Form. 2013.

Public Works Administration. Encyclopedia Britannica. Retrieved 12 July 2016. https://www.britannica.com/topic/Public-Works-Administration

West Virginia Division of Highways. Turnpike Files. Staunton-Parkersburg Turnpike.

- The Eleanor Roosevelt Papers Project. Public Works Administration. George Washington University. https://www.gwu.edu/~erpapers/supporterpp.cfm Retrieved 12 July 2016.
- West Virginia Division of Highways, Bridge Files, Maintenance Division, Building 5, Capitol Complex, Charleston, WV 25305. 2012.
- West Virginia State Road Commission. Annual Report of the State Road Commission of WV. 1940-41.

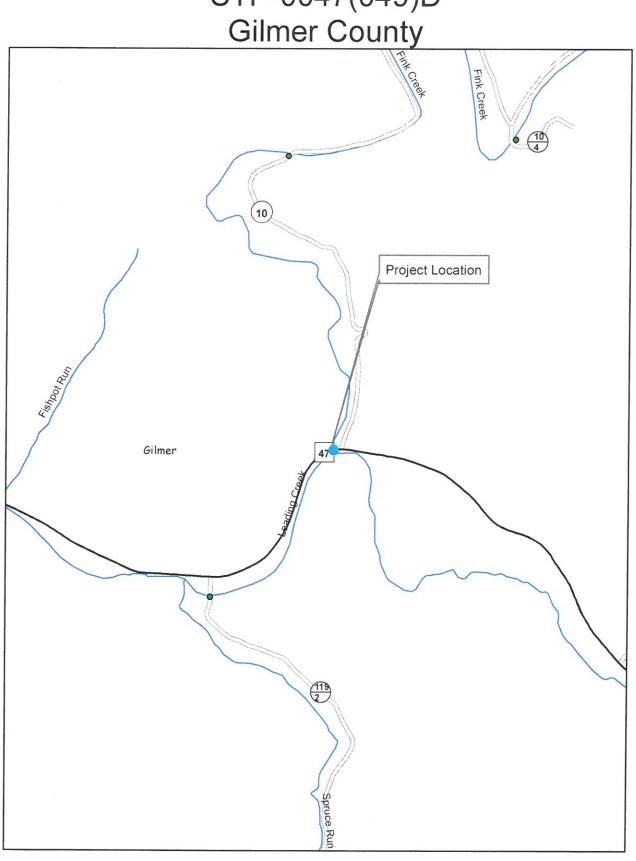
### STATE LEVEL HISTORIC DOCUMENTATION INDEX TO PHOTOGRAPHS

Fink Creek W-Beam Bridge West Virginia Route 47 Fink Creek Gilmer County, West Virginia

Photographer: Randy Epperly May 2016

FINK CREEK W-BEAM BRIDGE-1	View of Fink Creek W-Beam looking west.
FINK CREEK W-BEAM BRIDGE-2	View of Fink Creek W-Beam looking east.
FINK CREEK W-BEAM BRIDGE-3	Downstream side of Fink Creek W-Beam looking west.
FINK CREEK W-BEAM BRIDGE-4	Upstream side of Fink Creek W-Beam looking west.
FINK CREEK W-BEAM BRIDGE-5	Downstream side of Fink Creek W-Beam looking east.
FINK CREEK W-BEAM BRIDGE-6	Downstream parapet looking east.
FINK CREEK W-BEAM BRIDGE-7	Downstream parapet showing guardrail on east end.
FINK CREEK W-BEAM BRIDGE-8	Downstream side of bridge showing piers.
FINK CREEK W-BEAM BRIDGE-9	Bridge plates behind guardrail on upstream side.
FINK CREEK W-BEAM BRIDGE-10	Federal Emergency of Public Works plate.

Fink Creek W-Beam S311-47-11.33 STP-0047(049)D



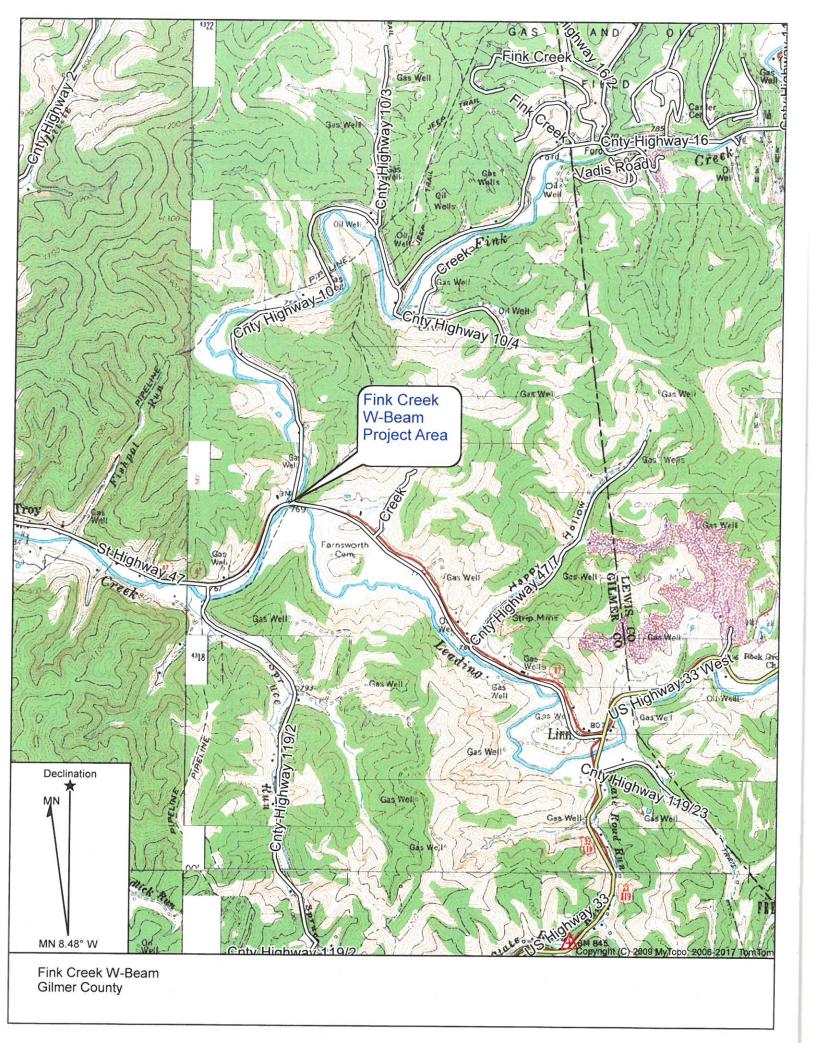
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0.3

0.4 Miles





#### MEMORANDUM OF AGREEMENT BY AND AMONG

THE FEDERAL HIGHWAY ADMINISTRATION
THE WEST VIRGINIA STATE HISTORIC PRESERVATION OFFICE
AND THE WEST VIRGINIA DIVISION OF HIGHWAYS
REGARDING IMPLEMENTATION OF THE FINK CREEK W-BEAM BRIDGE
REPLACEMENT PROJECT

STATE PROJECT: S311-47-11.33 FEDERAL PROJECT: STP-0047(048)D GILMER COUNTY, WEST VIRGINIA OCTOBER 2016

WHEREAS, the Federal Highway Administration (FHWA), in cooperation with the West Virginia Division of Highways (WVDOH), proposes to replace the Fink Creek W-Beam Bridge, which spans Fink Creek in Gilmer County, hereinafter referred to as the Project. The improvements involve the construction of a new bridge on the existing alignment and the removal of the existing bridge; and

WHEREAS, the FHWA has determined that the Project will have an adverse effect upon the Fink Creek W-Beam Bridge, a property eligible for the National Register of Historic Places (NRHP);and

WHEREAS, the FHWA has consulted with the West Virginia State Historic Preservation Officer (WVSHPO) pursuant to 36 CFR Part 800 Implementing Section 106 of the National Historic Preservation Act; (16 U.S.C., 470f); and

WHEREAS, the FHWA has determined that the Project will not affect archaeological properties; and

**WHEREAS**, the WVDOH contacted the Gilmer County Historical Society and the Preservation Alliance of West Virginia regarding the Project. Neither group has responded;

WHEREAS, in accordance with 36 CFR 800.6 (a) (1), the FHWA has notified the Advisory Council on Historic Preservation (ACHP) of its adverse effect determination providing the specified documentation, and the ACHP has chosen not to participate in the consultation pursuant to 36 CFR 800.6 (a) (1) (iii);

**NOW, THEREFORE**, the FHWA, the WVSHPO, and the WVDOH, agree that the undertaking will be implemented in accordance with the following stipulations in order to take into account the effects of the undertaking on historic properties.

#### STIPULATIONS

The FHWA shall ensure that the following stipulations are carried out:

#### Fink Creek W-Beam Bridge

- I. The Fink Creek W-Beam Bridge will be documented in its present historic setting. The documentation package will include 5"x7" black and white digital prints in accordance with the National Register of Historic Places and National Historic Landmarks Survey Photo Policy Expansion of January 2009.
- II. A brief history of the structure will be included along with fully completed West Virginia Historic Property Inventory forms and copies of any available plan sheets and drawings of the bridge from WVDOH bridge files
- III. West Virginia Division of Highways staff will provide the Gilmer Public Library a copy of the Fink Creek W-Beam Bridge State Level Historic Documentation for references and educational purposes.
- IV. 50 color brochures of the Fink Creek W-Beam Bridge will be developed by the WVDOH and distributed to the Gilmer Public Library. The WVSHPO will be given the opportunity to review all educational materials developed for this stipulation. A CD containing the brochure will also be given to the library to print brochures when the original total has been exhausted.
- V. The Fink Creek W-Beam Bridge will be documented on the West Virginia historic bridge website.

#### VI. Duration

This MOA will expire if its stipulations are not carried out within five (5) years from the date of its execution. At such time, and prior to work continuing on the undertaking, the FHWA shall either (a) execute an MOA pursuant to 36 CFR 800.6, or (b) request, take into account, and respond to the comments of the ACHP under 36 CFR 800.7. Prior to such time, FHWA may consult with other signatories to reconsider the terms of the MOA and amend it in accordance with Stipulation X below. FHWA shall notify the signatories as to the course of action it will pursue.

#### VII. Post-Review Discoveries

If any unanticipated discoveries of historic properties or archaeological sites, including human burial sites and/or skeletal remains, are encountered during the implementation of this undertaking, work shall be suspended in the area of the discovery until the

WVDOH has developed and implemented an appropriate treatment plan in consultation with the WVSHPO pursuant to 800.13 (b).

#### VIII. Monitoring and Reporting

Each year following the execution of this MOA until it expires or is terminated, FHWA shall provide all parties to this MOA a summary report detailing work carried out pursuant to its terms. Such report shall include any scheduling changes proposed, any problems encountered, and any disputes and objections received in FHWA's efforts to carry out the terms of this MOA.

#### IX. Dispute Resolution

Should any signatory or concurring party to this MOA object at any time to any actions proposed or the manner in which the terms of this MOA are implemented, FHWA shall consult with such party to resolve the objection. If FHWA determines that such objection cannot be resolved, FHWA will:

- A. Forward all documentation relevant to the dispute, including the FHWA's proposed resolution, to the ACHP. The ACHP shall provide FHWA with its advice on the resolution of the objection within thirty (30) days of receiving adequate documentation. Prior to reaching a final decision on the dispute, FHWA shall prepare a written response that takes into account any timely advice or comments regarding the dispute from the ACHP, signatories and concurring parties, and provide them with a copy of this written response. FHWA will then proceed according to its final decision.
- B. If the ACHP does not provide its advice regarding the dispute within the thirty (30) day time period, FHWA may make a final decision on the dispute and proceed accordingly. Prior to reaching such a final decision, FHWA shall prepare a written response that takes into account any timely comments regarding the dispute from the signatories and concurring parties to the MOA, and provide them and the ACHP with a copy of such written response.
- C. FHWA's responsibility to carry out all other actions subject to the terms of this MOA that are not the subject of the dispute remain unchanged.

#### X. Amendments

This MOA may be amended when such an amendment is agreed to in writing by all signatories. The amendment will be effective on the date a copy signed by all of the signatories is filed with the ACHP.

#### XI. Termination

If any signatory to this MOA determines that its terms will not or cannot be carried out, that party shall immediately consult with the other parties to attempt to develop an amendment per Stipulation X, above. If within thirty (30) days (or another time period agreed to by all signatories) an amendment cannot be reached, any signatory may terminate the MOA upon written notification to the other signatories.

Once the MOA is terminated, and prior to work continuing on the undertaking, FHWA must either (a) execute a MOA pursuant to 36 CFR 800.6, or (b) request, take into account, and respond to the comments of the ACHP under 36 CFR 800.7. FHWA shall notify the signatories as to the course of action it will pursue.

**EXECUTION** of the Memorandum of Agreement by the FHWA, WVSHPO, the WVDOH and the Council, and implementation of its terms evidence that the FHWA has afforded the Council an opportunity to comment on the Fink Creek W-Beam Bridge Replacement project and its effects on historic properties, and that the FHWA has taken into account the effects of the undertaking on the historic property.

## Signatories Page Federal Highway Administration West Virginia Deputy State Historic Preservation Officer Date Advisory Council on Historic Preservation Date CONCUR: West Virginia Division of Highways

Date

## West Virginia Historic Bridge Inventory Form

Bridge No. 11-047/00-011.33 BARS No. 11A100	Federal Bridge No. 00000000011A100	Bridge Design No. 1534.0
	DENTIFICATION INFORMATION	2.10ge 203gii 140. 1334.0
SHPO Survey No. GL-0163	Owner State Highway	y Agency
Local Name FINK CREEK W-BEAM	Status Extant - in ser	•
Other Local Name		
LOCA	TIONAL AND SETTING INFORMATION	
District 07 County Gilmer	<b>Latitude</b> 39011800	<b>Longitude</b> 080443600
Location 0.04 MI W OF CO 10	UTM-Northing	
Facility Carried By Structur WV 47	UTM-Easting	
	UTM Zone	
Features Intersected FINK CREEK	Surrounding Land Use Residential	ĺ
	Type of Development Rural - (undeve	eloped area outside communities)
	STRUCTURAL INFORMATION	
Main Span Type Steel Stringer/Multi-beam or Girder	Structure Length (ft)	173
Main Span Type Code 302	Length of Maximum Spa	an (ft) 55
Number of Spans in Main Unit 003	Average Daily Traffic	000950 <b>Year</b> 2003
Number of Approach Spans 0000	Sufficiency Rating (Note: Data current as of April 2006 data	0596 <b>Skew</b> 45
BRI	DGE DESCRIPTIVE INFORMATION	
Year Built 1939	Arrangement	
Year Reconstructed	Connection Type	
Truss Bridge Type	Truss Details	
Alteration(s)	Date of Alterations (Year)	
Architectural Treatment(s)	Bridge Plate Text	
	(2) plaques. "FEDERAL EMERGENCY, ADMI FRANKLIN D. ROOSEVELT, PRESIDENT OF ICKES, ADMINISTATOR OF PUBLIC WORK: "1939, BRIDGE 1594, WVA STATE SEAL"	THE UNITED STATES, HAROLD L.

**Engineer or Designer** 

Builder or Fabricator Public Works Administration

**Bridge Plan Location** 

**Additional Details:** 

Common pierced concrete parapet with attached guardrails. Concrete piers, abutments, and wing walls. Bridge constructed on a curve. Bridge plaque notes the bridge was constructed by the Federal Emergency Administration of Public Works. The bridge has a significant association with the WPA/CCC context.

**BRIDGE HISTORY** 

Bridge No. 11-047/00-011.33 BARS No. 11A100 Federal Bridge No. 00000000011A100 Bridge Design No. 1534.0

#### NATIONAL REGISTER EVALUATION INFORMATION

National Register Determination

Eligible

Reason Not Evaluated

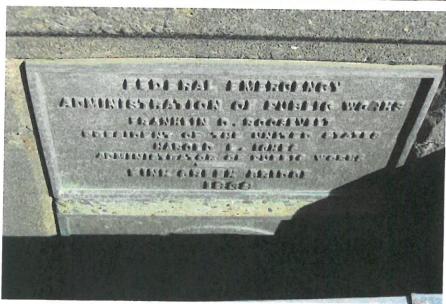
**National Register Determination Date** 

2013

This bridge has a significant association with a historic transportation system, program, event, trend, or policy identified through contextual research and survey activities. It retains the historic integrity necessary to convey its historical significance, and, therefore, is eligible for the National Register under Criterion A.

This bridge is not eligible for the National Register under Criterion C as it does not illustrate the evolution or transition of a bridge type or an important variation in design, fabrication, or construction of a bridge type. Additionally, it is not a distinguishable representation of a master's work and does not possess high artistic value as identified through contextual research.





West Virginia Historic Bridge Inventory Form
Form Prepared By Mead & Hunt and KCI
Form Preparation Date 2013



Photo #1



Photo #2



Photo #3



Photo #4

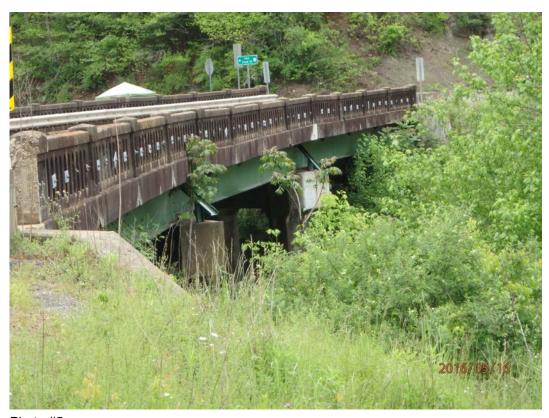


Photo #5

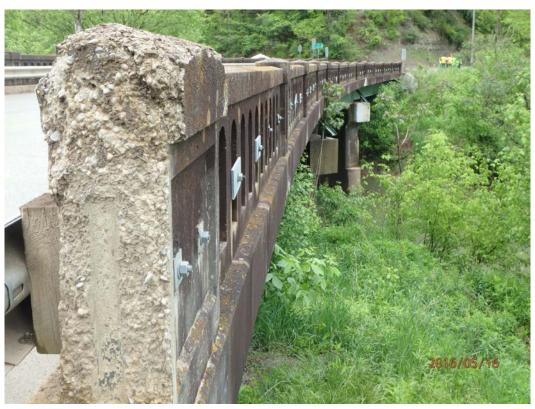


Photo #6



Photo #7



Photo #8



Photo #9

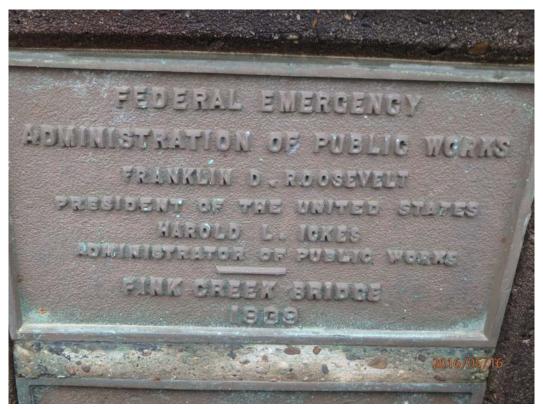
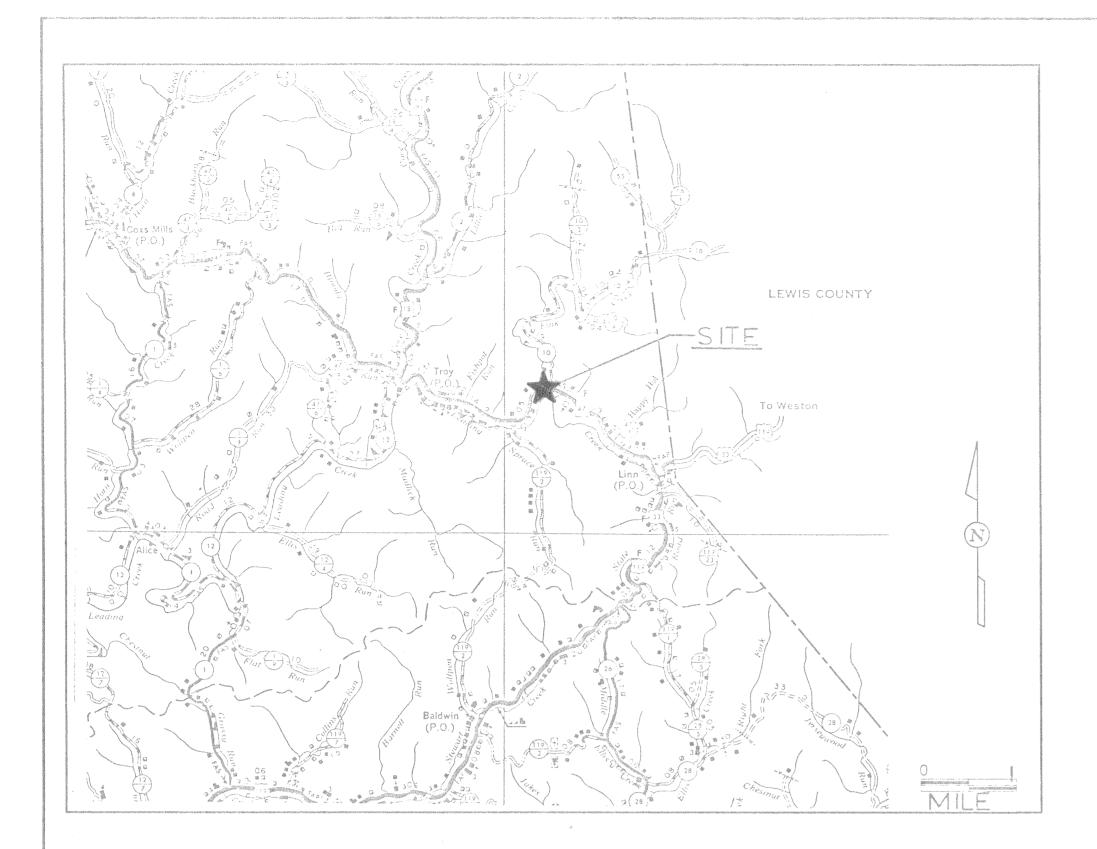


Photo #10



UTILITIES ENCOUNTERED

NONE

# WEST VIRGINIA DEPARTMENT OF HIGHWAYS

PLANS FOR CONSTRUCTION

OF

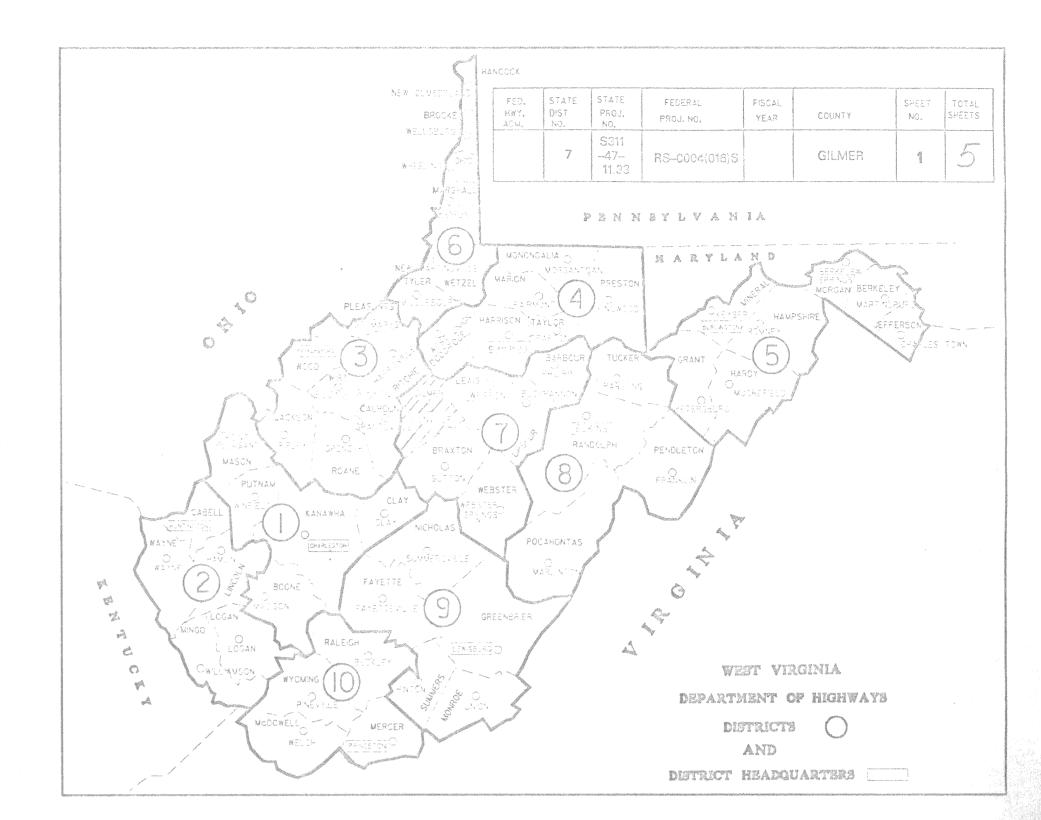
STATE HIGHWAY

FEDERAL PROJECT NO. RS-0004(015)S

STATE PROJECT NO. S311-47-11.33

ROUTE NO. WY 47

GILMER COUNTY

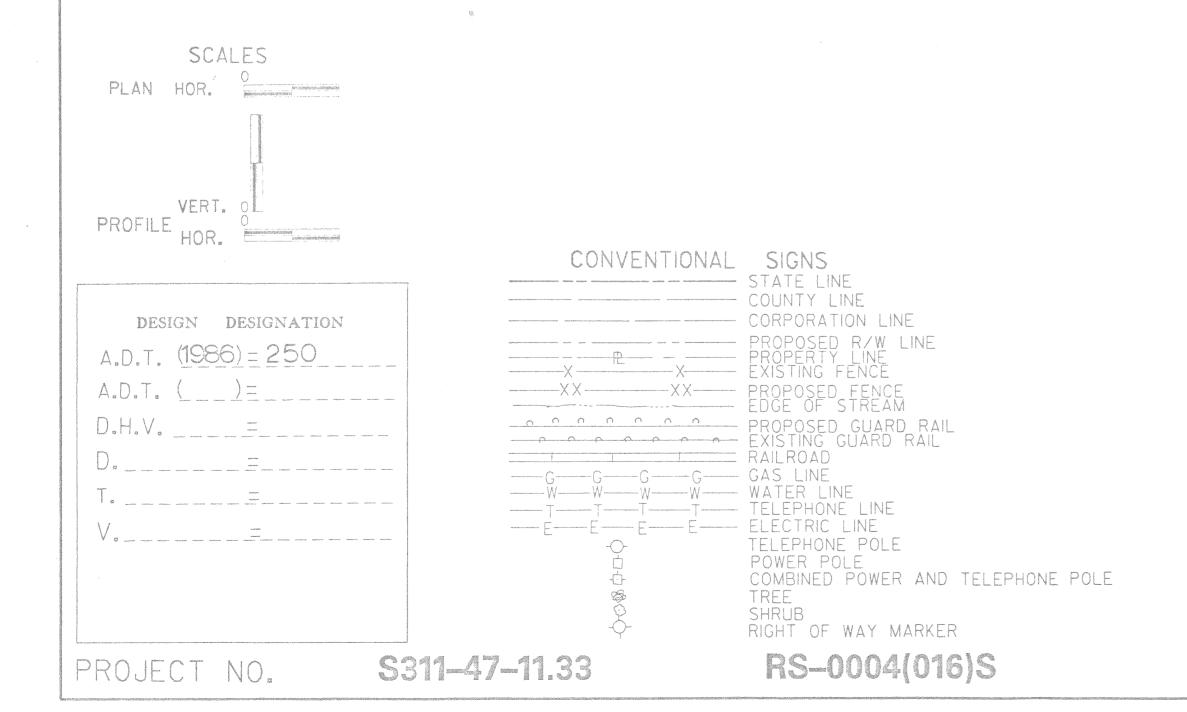


TYPE OF CONSTRUCTION

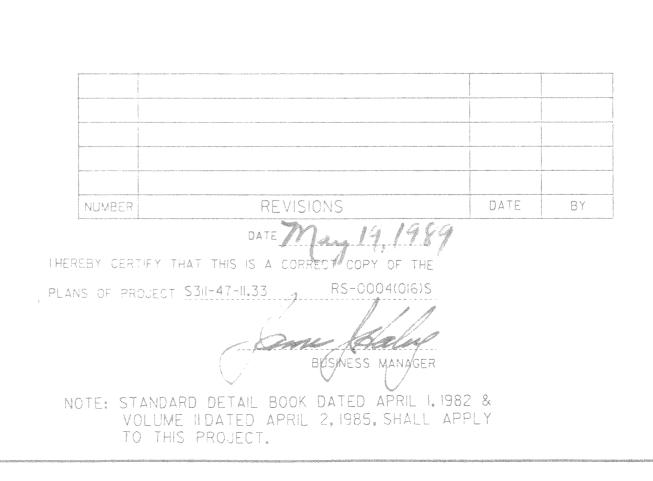
BRIDGE DECK OVERLAY WITH

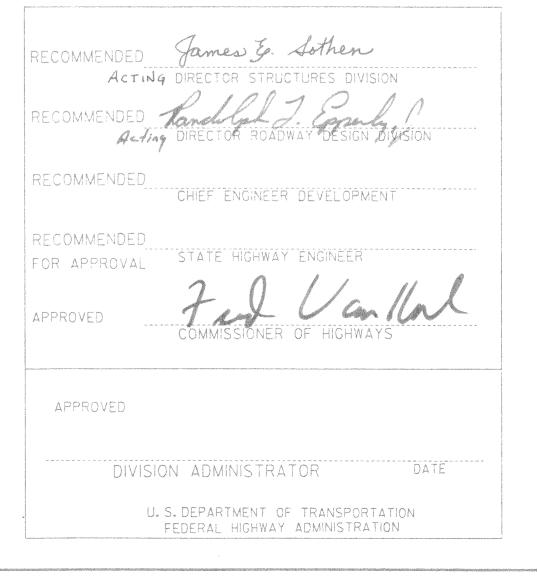
LATEX MODIFIED CONCRETE

FINK CREEK BRIDGE NO. 1534



	INDEX TO SHEETS
NO.	DESCRIPTION
Į.	TITLE SHEET
2	NOTES AND QUANTITIES
3	MAINTENANCE OF TRAFFIC
4,5	INFORMATION SHEETS
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## STATE FEDERAL STATE COUNTY: SHEET TOTAL SHTS NO. SHTS NO. SHTS NO. SHTS

#### GOVERNING SPECIFICATIONS:

The West Virginia Department of Highways Standard Specifications, Roads and Bridges adopted 1986, as amended by the Supplemental Specifications dated January 1, 1989, the contract documents and the contract plans are the governing provisions applicable.

#### SCOPE OF WORK:

The scope of this contract is limited to providing a latex modified concrete overlayment on the bridge deck and safety guardrail modifications while traffic is continually maintained.

The overlayment shall be done in two stages approximately one half deck at a time. The longitudinal construction joint shall be a sawed joint.

AVERAGE COVER OVER THE TOP MAT OF REINFORCING STEEL BARS = 2.00 IN.

#### NOTES:

- 1. The machines or system used to place and finish the overlay shall be adjustable so as to provide a consistently uniform surface that does not reflect the highs and lows that may be found in the existing deck surface.
- 2. The existing bridge deck has been overlaid with asphalt. Include the cost of removing the asphalt from the bridge deck in Item 680-07, "Class 1 Bridge Deck Removal".
- 3. The Contractor shall furnish a representative to accompany the project supervisor when the amount of Class 2 Repair is being measured.
- 4. Any areas of the backwall between the expansion device and the approach slab that are spalled, deteriorated or cracked shall be repaired at the direction of the Engineer. Removal of concrete or asphalt shall be paid as Item 680-08 "Class 2 Bridge Deck Removal" and the placement of the latex concrete shall be paid under Item 679-02 "Latex Modified Portland Cement Concrete Overlay Bridge Deck".
- \* 5. The Contractor will not be permitted to begin paving operations until a law enforcement officer and a car with flashing lights are present on the job site.
  - 6. Any of the existing guardrail components may be reused on this project with the approval of the Engineer.

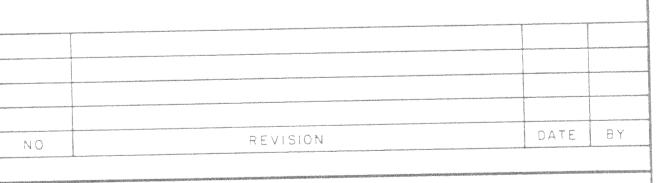
STATE P	ROJEC	T NO:	5311-	47-11	. 33
FEDERAL	PROJ	ECT N	0: RS-	0047(	016)5

DESCRIPTION: FINK CREEK BRIDGE #1534.1

COUNTY: GILMER

DISTRICT: 07

ITEM	DESCRIPTION	ALTERNATE	UNITS	QUANTITY
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401-02(2)S	HOT-LAID BITUMINOUS CONCRETE WEARING COURSE, SLAG	AA2	TN	1.6
204-01	MOBILIZATION		LS	1
408-02	BITUMINOUS MATERIAL		GA	10
607-01(I)	TYPE 1 GUARDRAIL		Grands Specific Market	<b>584</b> 587.5
607-29	BREAKAWAY CABLE TERMINAL		EΑ	religion of
636-11	TRAFFIC CONTROL DEVICES		UN	2740 1740
636-13	CLEANING OF INDIVIDUAL TRAFFIC CONTROL DEVICES		EA	~- <b>2-5</b> -
636-14	FLAGGER		HR	<b>-7-0-0</b> 88
636-25(B)	WARNING LIGHTS		DA	402
636-25(C)	WARNING LIGHTS		DA	1608 357
679-02	LATEX MODIFED PORTLAND CEMENT CONCRETE OVERLAY BRIDGE DECK		CY	· 43- +2,07
680-07	CLASS 1 BRIDGE DECK REMOVAL		SY	445
630-08	CLASS 2 BRIDGE DECK REMOVAL		SY	220 171.74
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THE W. VA. DEPARTMENT OF HIGHWAYS
STRUCTURES DIVISION

LMC OVERLAY OF

FINK CREEK BRIDGE

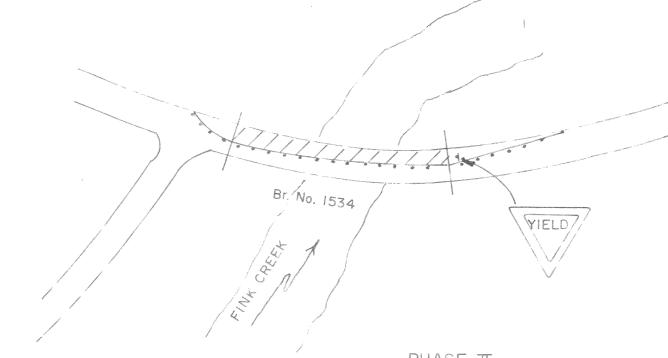
CHECKED BY 5-89
CHECKED BY 5-89
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REVIEWED BY

BRIDGE NUMBER

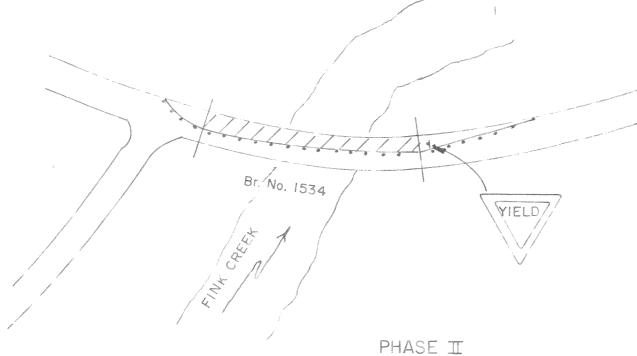
#### -NOTES-

og de la company	Maintenance of Traffic shall be in accordance with Section 636 of the West Virginia Department of Highways Standard
	Specifications, Roads and Bridges, adopted 1986, the
	Supplemental Specifications, January 1, 1989, and the
	manual. Traffic Control for Street and Highway Construction
	and Maintenance Operations, July 1985, which is made a part
	of this contract and the traffic plan for individual
	segments as described below.

- 2. The quantities of traffic control devices have been increased by 15 percent for use as directed by the Engineer when unanticipated changes in the traffic control plan
- 3. Reflective sheeting on temporary traffic control devices shall be of new condition at the beginning of the project life. This is to ensure that night visibility and legibility is maintained.
- 4. The Contractor is restricted to milling only the portion of the deck on which work is being performed inside the closure. Traffic may not be switched from one lane to another until overlay work is completed and concrete is cured on a given lane.
- 5. Access to all houses and businesses shall be maintained at all times.
- 6. Flagger When work is performed at night with a flagger. the flagger stations shall be adequately illuminated... This cost will be paid for under Item 636-14, "Flagger".



PUBLIC ROADS DIV	STATE DIST NO	STATE PROJ NO.	FEDERAL PROJ NO	FISCAL	COUNTY	SHEFT O	TOYSE
* V	7	S311 - 47 - 9. 38		1989	Gilmer	3	5



#### TRAFFIC CONTROL

- I. INSTALL SIGNING ON CO. 18 AND W.V. 47 EAST AND WEST USING CASE A 11
- 2. USE CASE A5 SIGNING AND FLAGGERS FOR DAY OPERATION.
- 3. FOR NIGHT AND NON-WORKING DAYS USE CASE A11 SIGNING.

h. L. R.J.		
TYPE III BARRICADE	Dryms on 101 Centers  173½ 4"  Br. No. 1534  50'	
	PHASE I	

	TRAFFIC CONT	ger in a tort solid einer provingenese sendes endest des relevanteilselder deller	INTITIES	· · · · · · · · · · · · · · · · · · ·		
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and provided the second of the	SIGNS ON PERMANENT POSTS (TOTAL SIGN AREA > 16 sq. ft.)	9.	The state of the s	9	100	900
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6	BARPICADES-TYPE II	L. vita establishmen (n. l.	And the state of t	A STANDARD S	50	- CANADANA SALA
7	BARRICADES - TYPE III	2		2	70	140
8	DRUMS	22	2	24	30	720
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	BARRIER OR GUARDRAIL MOUNTED DELINEATORS			To a server a	0	0
esum autor (146) en neurologie	Signatura and the second and the sec	on		S. J.	BTOTAL	2400
	1				SUBTOTAL Note 2)	340

MAINTENANCE OF TRAFFIC SUMMARY

DESCRIPTION

636-02 AGGREGATE FOR MAINTAINING TRAFFIC

636-03 LIQUID ASPHALT OIL FOR DUST PALLATIVE

636-05 TEMPORARY STRUCTURES FOR MAINTAINING TRAFFIC

636-07 ERADICATION OF PAVEMENT MARKINGS 4" SOLID LINE

636-08 TEMPORARY PAVEMENT MARKINGS - PAINT 4" SOLID LINE

636-09 TEMPORARY PAVEMENT MARKINGS - TAPE 4" SOLID LINE

636-10 TEMPORARY RAISED PAVENENT MARKERS, TYPE

636-12 | CLEANING OF PROJECT TRAFFIC CONTROL DEVICES

636-15 TEMPORARY GUARDRAIL CHANNELIZATION DEVICE

636-13 CLEANING OF INDIVIDUAL TRAFFIC CONTROL DEVICES

636-18 REMOVE AND RESET TEMPORARY CONCRETE BARRIER

G36-20 REMOVE AND RESET TEMPORARY GUARDRAIL BARRIER

636-24 TEMPORARY PIPE FOR MAINTAINING TRAFFIC

636-16 REMOVE AND RESET TEMP. GUARDRAIL CHANNELIZATION DEVICES

636-04 CALCIUM CHLORIDE FOR DUST PALLATIVE

636-06 PILOT TRUCK AND DRIVER

636-11 TRAFFIC CONTROL DEVICES

636-17 TEMPORARY CONCRETE BARRIER

636-19 TEMPORARY GUARDRAIL BARRIER

G36-22 CHANGEABLE MESSAGE SIGN

636-23 TEMPORARY TRAFFIC SIGNAL

636-21 ELECTRIC ARROW

G36-25(A) WARNING LIGHTS 636-25(B) WARNING LIGHTS

G36-25(C) WARNING LIGHTS

636-26 TEMPORARY LIGHTING

636-14 FLAGGER

ITEM NO.

QUANTITY

UNIT | TOTAL

2740

25

700

402 98

TOTAL

1608

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TON

L.S.

DAY

for the second

L.F.

L.F.

EACH

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DAY

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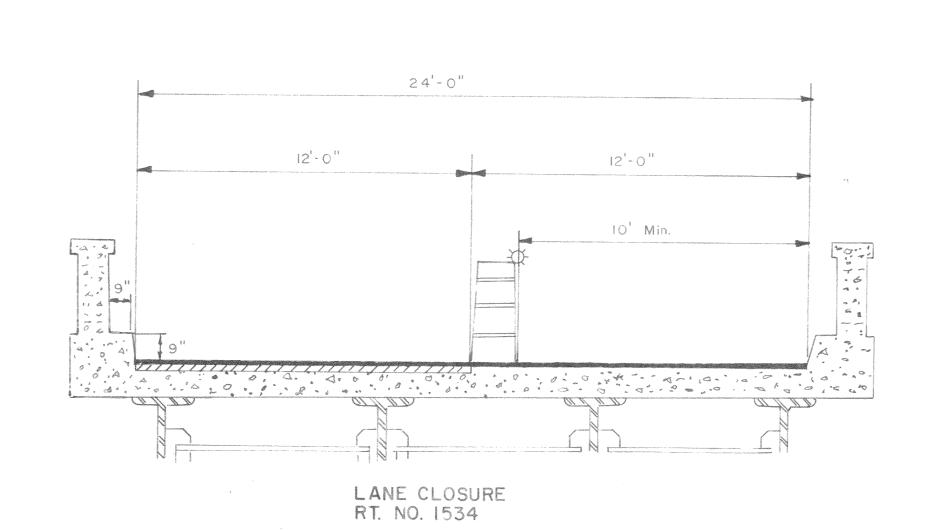
DAY

DAY

DAY

L.S.

UNIT



LAYTEX OVERLAY FOR BRIDGE 1534 FINK CREEK

> WEST VIRGINIA DEFARTMENT OF HIGHWAYS TRAFFIC ENGINEERING DIVISION

TRAFFIC CONTROL PLAN, NOTES, QUANTITIES, SEQUENCE OF CONSTRUCTION

SCALE	D'ATE	
NONE	12-20-88	MT-I

Fix Exp I'Mas.P. 7 FINK CREEK BRIDGE 3-55-0' I BEAM SPANS - 24-0' ROADWAY. STATE ROUTE 47 LINN-TROY ROAD OVER FINK CREEK

Dz Expjnt (49e0 fill) (Exp.jnt (EPres fill) (D) 19. Spaces & 619:6: 1706: 8:6: A58 to A75 A39 to A58 Bars \_ 4 Drains (See detail) -AIT TO AHI BOTS 358 W.F. @ 150° 55:7" chord 55:0° 5pan 56-2" Chord 55:0" Span 358 W.F. @ 150" Eng. to Curve @ & Rd wy / (29/46-49" I Mas. R (358 W.F.@150" ERDWY. Fix / Exp. chord \* 65° 35'-23" LERDWY. 1"Mas.R. 7/18 Mas.R. ( 358 W.F. @150" aces@6:8:6:A21.A38 19500005@6:9'6". Az to Azı 2:6° | 9 Spaces @1-12:10:12° 22 Spaces @ 6.11-0" 62 Spaces @ 6 - 31-0: Al Bars ( 358 W.F. 9150" Dz Exp. Int. (Free fill) 1:0" 5 Spaces@1-12:10:12" CEXP jnt (49rep fill) Dz / 1" opening (Export Generall) De 1:02 1:3' 9 Spaces @1:12"-10-12" 1:03" 1:03" 10:12" 1-03 - Cope Top flange PLAN SPANS 41 & 2 Slot bottom of beams for 2/2 movement where Note: Camber Beams in all spans I" expansion is indicated. Weld curb plates, in field, to Field connections to be bolted expansion devices to exclude water and the threads burred. Cape Top flange /4 bolts @ 5.0 drs to be removed Bar Zzxzwhen curtain wall is complete. 11. 7×4×2-16x4x42"-- 34 Anchors, 1'8 long @ 3:0" ctrs. Csink & Spot weld. 11.7x4x2 /11.6×6×2 11.6x6x12 -Rivets 4.01:0 ctirs. Csink & chip 11-4x4x1/2-Bar 22×2 11- AxAx2 Rivets 3 01:0" the second second second second second second ctrs Csink & Chip -Rivets 2006 ctirs Beveled Rs. Rivets 3 0 6 ctirs. Flatten heads to 4

Bent R. 3 Bent R. 8 Bent R. aBent P. · 12.0 50.4, 12"L@ 20.7" L ~12°E@ 20.7" Masonry Plates 10'x12" See Plan for thickness.

10"

SECTION AT ABUTMENTS

SECTION AT PIERS

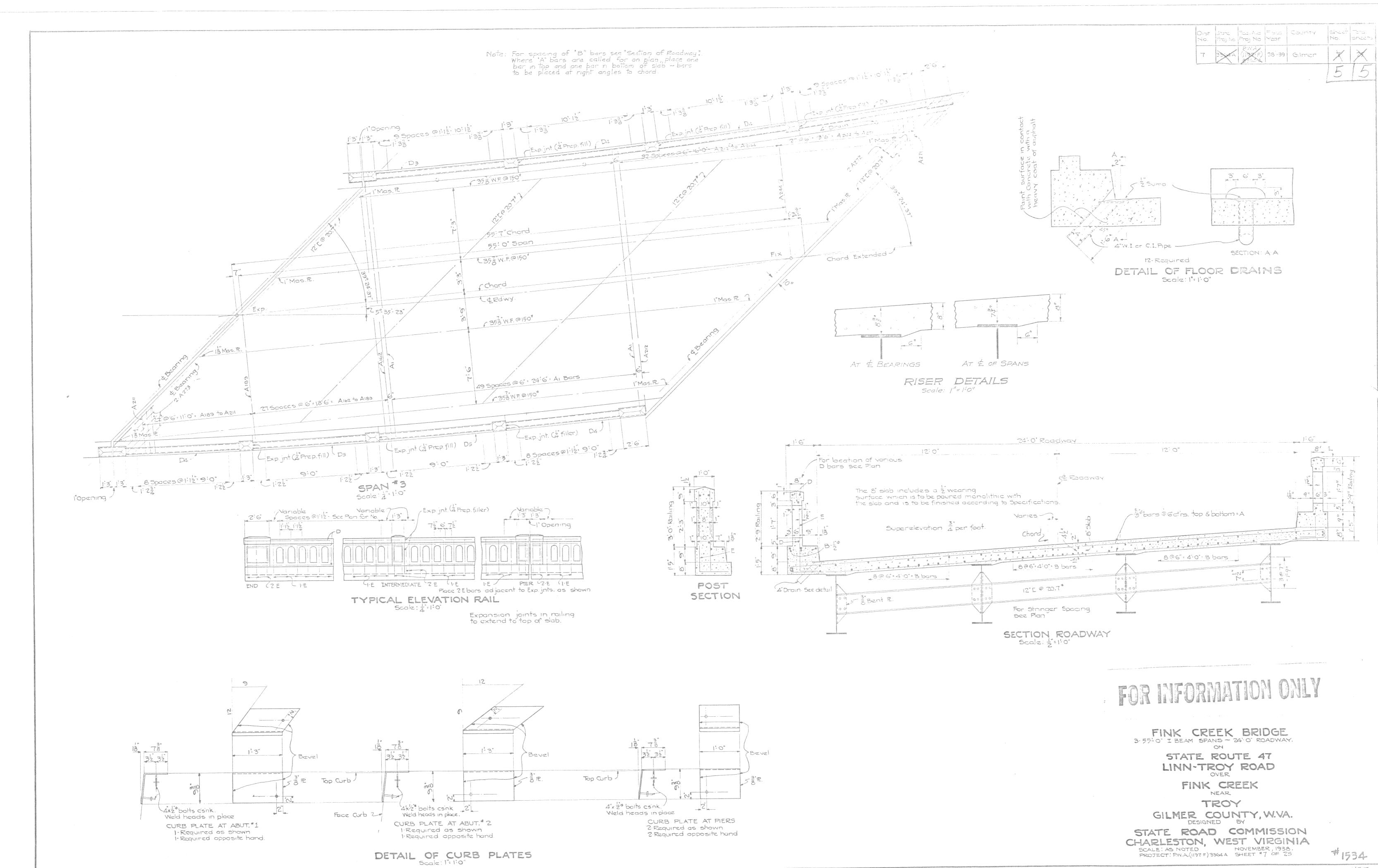
Scale: 3':1:0"

TROY

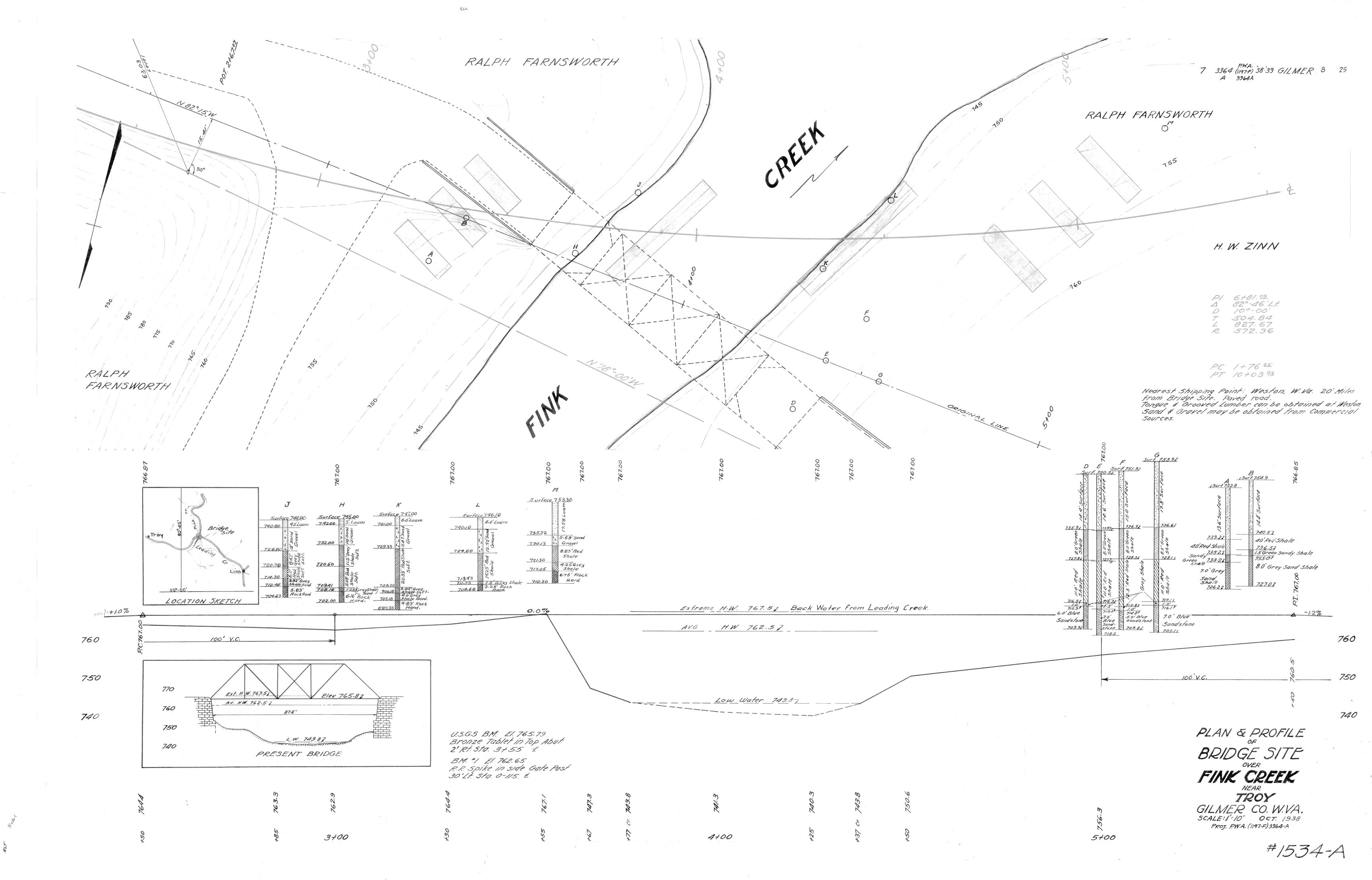
GILMER COUNTY, W.VA. DESIGNED BY STATE ROAD COMMISSION

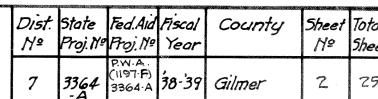
CHARLESTON, WEST VIRGINIA SCALE : AS NOTED NOVEMBER, 1938. PROJECT : PWA (1197F) 3364A SHEET "G OF 25

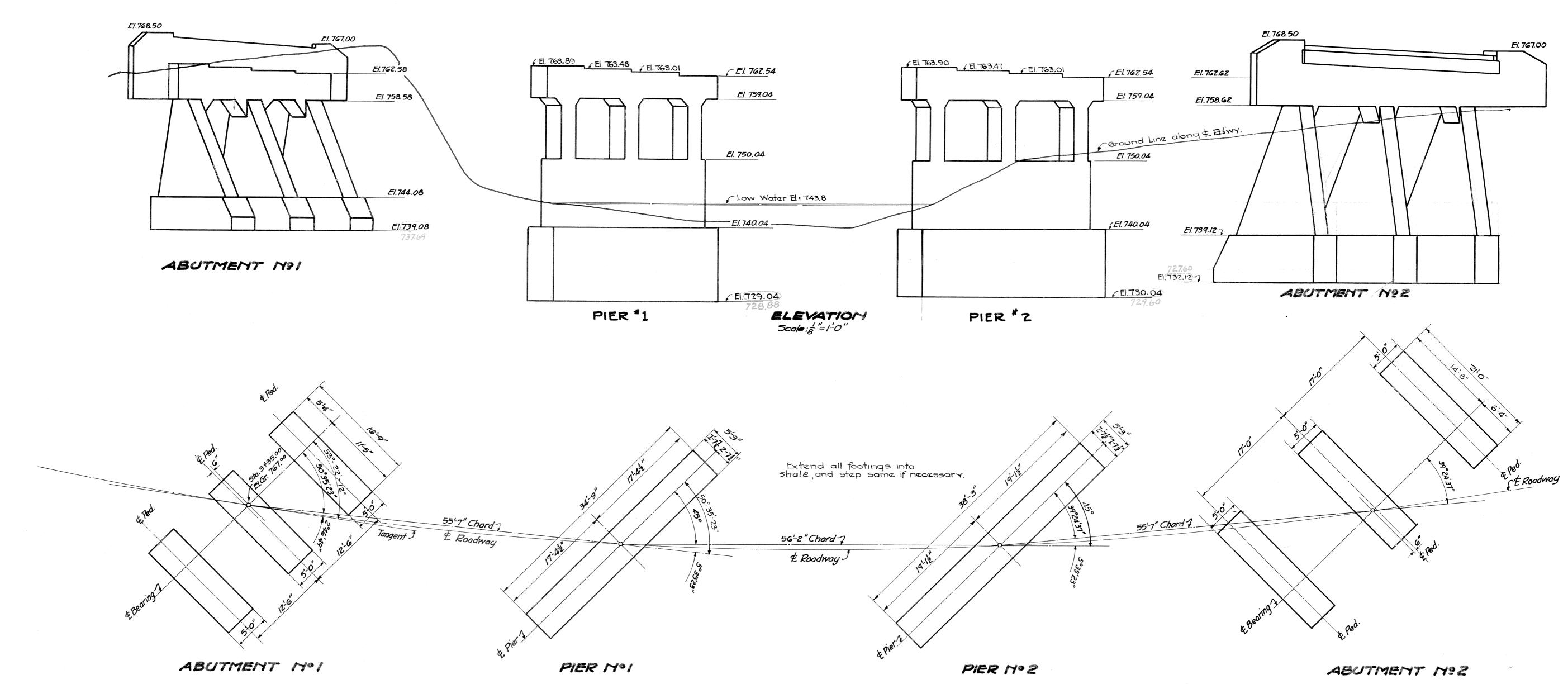
# 1534



W.F.T.







FOUNDATION PLAN Scale: 3 = 1-0"

NOTES

All concrete in the superstructure to be "Class A" except that in the railing, which shall be "Class D". Concrete in substructure to be Class A, except footers of abutments, and below El. 750.04 for Piers, which

The grading size for coarse aggregate of \*26 for "Class B concrete", \*6 for "Class A concrete, and \*10 for Class D concrete, in the Road Specifications 1935, will be accepted.

All concrete for the bridge shall be Vibratory Concrete in accordance with the Amendment to

All concrete for the bridge shall be Vibratory Concrete in accordance with the Amendment to Standard Specifications for bridges, for Vibratory Concrete dated Oct. 1936.

Reinforcing bars shall be made of new billet steel of either structural or intermediate grade.

The unit bid on concrete railing shall not include reinforcing bars.

Where a prepared filler is called for use a prepared filler similar to "Carey Elastite Rubber Expansion Joint" or Servicized Cementone Expansion Joint" to be approved by the Engineer.

Bridge designed for His live loading and an additional wearing surface of 15th per. 59. ft. of roadway. The additional wearing surface is not included in this contract.

Shop drawings shall be in ink on tracing cloth and the tracings delivered to the Commission upon completion of the contract.

completion of the contract.

All structural and rivet steel shall contain at least 0.2% copper.

Allowable unit stresses for structural and rivet steel, and cast steel, shall be increased 122% over those given in the specifications with a maximum of 15000#/sq.in in axial compression.

The final coat of field paint shall be aluminum according to the State Road Commission Specifications dated Dec. 1936.

The contractor shall submit a lump sum bid for steel superstructure complete in place excluding concrete floor & railing Item 23; a lump sum bid for "Maintaining Traffic" item 32, a lump sum bid for removing present Superstructure item 33, and a unit bid on other items shown in the estimate.

The contractor is to maintain traffic at the bridge site, item 32. He may use the present superstructure for this purpose by shifting same to clear the new structure. The contractor shall provide and maintain all weather approaches to the temporary structure, and provide all necessary lights and barricades. The alignment and grade of the approaches to the temporary structure to be approved by the engineer. The State will provide any necessary flagmen for directing traffic over the temporary structure.

The lump sum bid for "Removing Present Superstructure" item 33 shall include the following: Remove the present superstructure without damage to members, match mark and store along the right of way near the

present superstructure without damage to members, match mark and store along the right of way near the bridge site as directed by the Engineer. All materials shall remain the property of the State.

The unit bid on Class A Concrete in Superstructure shall include the 4" Drains & Prepared Filler. Rock excavation shall be made to the neat line of footings and no rock excavation will be paid for

outside of these lines. Specifications by the State Road Commission June 1928, with modifications & changes effective June 1933. Special Provisions for use on State Road Commission of West Virginia Public Works Administration Dockets Transferred to the United States Bureau of Public Roads for supervision, Approved Nov. 12, 1938, will govern this project. Bridge and Approaches are to be let in one contract.

See sheet No. 1 for title sheet.
See sheets 2 to 8 inclusive for Bridge Plans.
See sheets 9 to 25 inclusive for Approach Plans.
See sheet 9 for Specifications for Approach items.

FSTIMATE

	ESTIMATE No. 1 House													
No.	Item.	Unit	Bridge	Highway	Accessory	Total	+ AS BUILT							
1.	Dry Excavation	C.Y.	755.	PROJECTION PROPERTY OF THE PRO		755.	682.32							
2.	Wet Excavation	C.Y.	610.			610.	6/0							
3.	Rock Excavation	C.Y.	35.	4 40000 10000		35.	None							
5.	Class A Cancrete (Super)	CY.	127.6			127.6	/27.60							
6.	Class A Concrete (5ub.)	C.Y.	235.1		Accomption of Co. Committee Co.	235.1	235./0							
7.	Class B Concrete	C.Y.	352.5	Control of the Contro	Annahamma Kanancan Haran Maran Maran Maran Maran Maran	352.5	352.50							
10.	Concrete Railing	L.F.	3 <b>36</b> . <b>3</b>			336.3	336.26							
11.	Reinforcing Bars	Lbs.	60,572	Crime Envision (COC) (Colored Grade Grade Friedd San Argus area a gangan an	том при	60,572.	69,572							
23	Steel Superstructure (Structural St. 123,000)	L.Sum	Lump Sum	-	ACTION OF THE STATE OF THE STAT	Lump Sum								
32,	Maintaining Traffic	L.Sum	Lump Sum	CONTRACTOR OF CO	AND THE PARTY OF T	Lump Sum	T							
33.	Removing Present Superstructure	L.Sum	Lump Sum	CONTRACTOR OF THE PARTY OF THE	A STATE OF THE PROPERTY OF THE	Lump Sum	100%							
34	Clearing of Right of Way	L.F.	173.	1177.	360.	1710.	173							
35	Unclassified Excavation	C.Y.	andriik tritter-indepronapsi ee tepoeenstadukukukukukukukukukukukukukuk	3000.	1300.	4300.								
36.	Borrow Excavation	C.Y.		4000.		4000.								
37.	Overhaul	Sta.Yas		10,000.	The state of the s	10,000.	FIM							
	Excavation for Structures	C.Y.		50.	Opposed Charles and Associate Annual Control of the	50.	3-55 fi							
39.	Macadam Base Course(2.4"Courses)	C.Y.		575.	3.	578.	5 5511							
40.	Road Mix Aggr. Limestone 130*per.5q.Yd.	Ton		175.	1.	176.	31							
	Bitum. Material Tar Prime T.C.3 0.4 gal. S.Y.	Gal.		1100.	5.	1105	-							
42.	Bitum. Material Tar . Mix TH-1 1.2gal. S.Y.	Gal.		3200.	15.	3215	4.							
43.	18"R.C.Pipe	L.F.		70.	<del>ал Россия по у</del> у постиго подници у при подруги на продукти у подници подници подници подници подници подници под	70.								
44.	24"R.C.Pipe	L.F.		12.	NTEE MENGERS AND THE THE STANDARD OF THE STANDARD	12.								
-	Class B Concrete.	C.Y.		4.		4.	, , , , , , , , , , , , , , , , , , ,							
46	Special Rock Fill	C.Y	Will reversit MACON HUSSEN TO THE TOTAL STATE OF TH	450.	unicers of the control of the contro	450.								

Items 34 to 46 inclusive refer to items 1,2,3,5,6,11, 24.A, 24.B(1), 24.B(2), 47-C, 47-D, 53.B and 8. respectively of the Standard Road Specifications of 1935, unless otherwise noted, and are to be in accordance therewith.

Items 1,2.3,5,6,7,10,11,23,32 and 33 shown in the Estimate are to be in accordance with the Bridge Specifications.

Portion of present Abut.\*1 and wings, necessary to be removed is to be classed as Dry Excavation above El.743.8, and Wet Excavation below this elevation.

> FINK CREEK BRIDGE 3-55ft. I-BEAM SPANS - 24-0" ROADWAY

STATE ROUTE Nº 47 LIMM-TROY ROAD

FINK CREEK TROY GILMER COUNTY, W.VA.

DESIGNED BY STATE ROAD COMMISSION CHARLESTON, WEST VIRGINIA

Scole: As Noted Project: P.W.A. (1197-F) 3364-A

November, 1938 Sheet #2 of 25 <sup>#</sup>1534

- AS BUILT NOVEMBER 20 1939

Recommended for Approval: Construction Engineer Approved! Jan Durpan Commissioner Approved by official order of the State Road Commission of West Virginia.

Entered the day of 193.

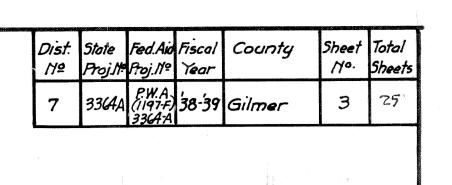
PROJECT NO: P.W.A. (1197-F) 3364-A

Prepared and Recommended:

ROUTE: Mº 47.

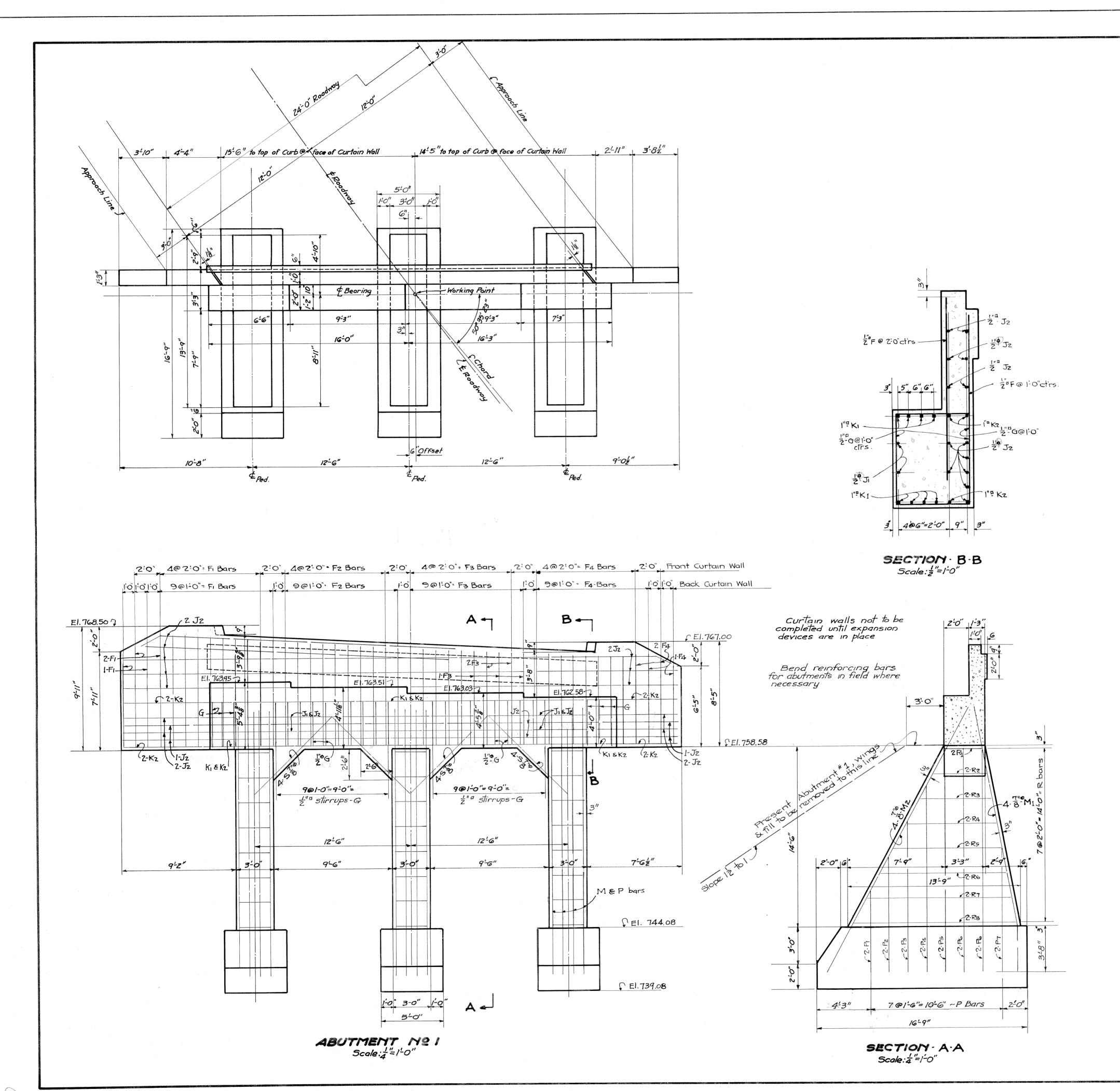
Secretory

P.C.V.



### BILL OF REINFORCING STEEL

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NO.	MARK	SIZE	LENGTH	No.	MARK	SIZE	LENGTH	No	MARK	SIZE	LENGTH	C(December 1)							LENGTH	No.	Later Management of the later o	THE PERSON NAMED IN COLUMN TWO	LENGTH
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2	Az	4	26-7"	2	A 66	•	9.6	2	A130	<b>†</b>	19'-4"	2	A194	<u></u>	12:1"	2	A298		9,0"	112	U	1/2"0	7:8"
2	Дз		75:10"	2	A 67		8'-11"	2	A 131		18'-10"	2	A199		11-8"	2	A299		8-8	55	<u> </u>	3/3"Ф	12:6"
2	A4		25'- 3"	2	A68		8'-4"	2	A132		18'-5"	2	A196		11' 3"	2	A 260		8'4"	12	Wi	34.4	29'-0" 32:6"
2	A5		74'- B"	2	A 69		7:9"	2	A133		17:11"	2	A197		10:10	2	A261		8'-0"	12	Ms	do	**************************************
2	Α6		24'-0"	2	A 70		7-2"	2	A134		17:6"	2	A196		10:4"	2	A262		マ: で"	72	×	do	12:9"
2	A7		23'-4"	2	ATI		6-8	2	A135		17:0"	2	A199		9,10,	S	A263		7:3	29	~	34"\$	10'7"
2	Аß		55, <del>2</del> ,	2	A 72		6'-1"	2	A 136		16.6	2	A200		9'4"	2	A264		6:10"	28	Q1		20:6
2	A۶		55 I.	2	Атз		5'8"	2	A137		16-0"	2	Azoı		9'0"	2	A269		6-5	78	az	do	55: 8,
2	Alo		21'-6	2	A74		4-10"	2	A138		1517"	2	Azoz		8'-7"	5	A266		6-0"	7	bı	do	CONTRACTOR OF THE PROPERTY OF
2	Aii		20,-10,	2	A 75		4'2"	2	A 139		15-1"	2	A203		8'-2"	2	A267		ラ: て"	5	pz	do	33.0,
2	AIZ		20'-3"	2	A76		25:7"	2	A 140		14'8"	2	A204		て' ラ"	2	A268		5·2"	49	dı	("B	8'.0"
2	A <sub>13</sub>		19'-8"	2	Атт		25:0"	2	A 141		14-2"	2	A 205		7 <sup>1</sup> 3"	2	<b>A</b> 769		4'10"	84	dz	1	55:0,
2	A14		19:0"	2	Атв		7448"	2	A142		13:8"	2	A 2006		6' 10"	2	<b>A</b> 270	marantara araban da albando no oto do e	4:6			and a second a second and a second a second and a second	
2	A15		18'-3"	2	A 79		74'1"	2	A143		13'2"	2	A207		6'-5"	4	Azzı		4:2"	***************************************			Surrecommon environmental la discondina del 2015/1/4 e 1000 in il inscrimina del consiste e enterna
2	A16		17-8"	2	A 80		23'.6"	2	A144		12:8"	2	A208		5 <sup>-</sup> 11"	30	A272	1	10:0"				CONTRACTOR OF THE PARTY OF THE
2	An		17'0"	2	Ası		23:1"	2	A 145		12:5.	2	A 209		5'6"	30	A273	<i>5</i> ⁄8″♥	60	-			The second secon
2	Ais		16-5"	2	A82		72:7"	2	A 146		11' 9"	2	A210		5-0"	324	В	1/2"4	29:0"		CENTRAL MANAGEMENT AND A STREET		
2	Ais	$\Box$	15-10"	2	A 83		22:1"	2	A147		11-3"	2	Azıı		4'-8"	50	Dı	1/20	14: 3"				
2	A20		15'- 2"	S	A84		21.6	2	A 148		10:10"	2	Azız		27-1"	28	Dz	1/2"	13-0"				
2	A21		14'-6"	2	A85		21:0"	2	A 149		10!4"	2	A213		26; <b>9</b> "	12	Dз	1/20	15:0		A S. Ar A. A. A. A. A. A. T.	E CONTRACTOR OF THE PARTY OF TH	e verbervaante seljaa 14 a.K. sin sensensensiska riinnaataaria 4 verpergen ja
2	Azz	f	13'-11"	2	A86		2016	2	A 150		9'-10"	2	A 214		76'-4"	28	D4	1/2" P	13:7"				
2	A23		13'- 3"	5	A87		20,0	2	A 151		9'-4"	2	A 215		25-11"	8	D5	1/20	12:3"		ABUT		
2	A24		12' 8"	2	A88	_	19:6	2	A 152		8'-11"	2.	A 216		25:6"	462	E	1/2"\$	5-4"	14	F5	1/20	7:9
2	A25		12:0"	2	A89		19:0"	2	A 153		8-5"	2	AZIT		25-1"					29	F <sub>6</sub>	do	6.6
2	A26		11-5"	2	A90		18:6"	2	A 154		8'0"	2	AZIB	'	24½8°			ecopyotania promovne a sovere		28	F7	do	7-0"
2	A 27		10'9"	2	A 51		17:11"	2	<b>A</b> 155		7:6	2	A219		24:4"	magnanto-cirigo (el proteccio		entitionimimimi in renetario	Management of the second secon	12	Fg	do	7:6
2	A28		10:1"	2	A92		17:4"	2	A156		7:0"	2	A 220		23:11"					6	F9	do	9:6
2	A29		9:5"	2	A 93		16'-10"	2	A 157		6:6	2	A221		23'-6'	A SERVATOR OF THE PERSONS	ALLEMANOPER CONCERNIA MARINE		***************************************	4	FIO	1/20	8-6"
5	A30		8'-10"	12	A94		16-4"	2	A158		6'1"	2	A 222		23' 1"					68	G	1/2"°	7:8"
2	A 31	++	8:2"	12	A95	+	15:10"	2	A159	1	<b>ラ</b> : て"	2	A223	+	55; 2.			<u> </u>		30	J3_	1/2"4	31:3"
2	A32	5/8"4		2	A%	5/8" <sup>\$</sup>	15:3"	2	A 160	5/8"4	5:2"	2	A224	5/8**	72:4"	A	3UTM	*	#1	9	J4	1/20	
2	A 33	1	6'-11"	2	A97	4	1419"	2	A161	4	4'8"	2	A225	<b>A</b>	SI:11.	19	Fi	1/2"	8-0"	16	K3	1"0	73:0"
2	A34	TT	6-4"	12	A98		14: 2"	2	A162		25-10"	2	AZZ6		21-6"	15	FZ	1/2"0	7-3"	8	K4	"0	32'-3"
2	A35	TT	5:8"	2	A99		13-8"	2	A163		25: 5"	2	A227		21-1"	15	F3	1/2"	6, 9,	6	P8	780	
2	A36		5-0"	2	A100		13:2"	2	A 164		25,0,	2	A228		20'-8"	18	F4	1/2"0	6.6	6	P9	do	11:0"
2	A37		4:4"	12	Aioi		12-8	5	A 165		24:6	2	Azzs		20!4"	52	G	120	7-8	6	Pio	do	13:9"
2	A38		3'.8"	2	A 102		12-1"	2	A 166		24: 2"	2	A230		19:11,	2	Jı	1/2"0	31; 9,	6	Pii	do	16; 9,
2	A39	<del>                                     </del>	25:2"	12	A103		111-7"	2	A167		23'-9"	2	A231		19:7"	28	Jz	1/20	23:0"	6	Piz	do	19:9"
2	A40		24: 8"	12	A 104		11:0"	2	A168		23!4"	2	A232		19:2"	8	Kı	1"0	31, 8.	18	P <sub>13</sub>	do	56.6.
2	A41	+	24:1"	2	A 105		10'8"	2	A169		22-10"	2	A233		18'-10"	8	Kz	1""	74:3"	6	P14	78"	14:9"
2	A42		23.6	2	A 106		10:1"	2	A170		22:5"	2	A234		18'-5"	12	Mı	7/8'4	2z; 6,	6	R9	1/2"	8:11"
2	A43		52,11,	2	FOIA		9:7"	2	AITI		22:0"	2	A235		17:11"	12	Mz	7/8"4	24'0"	6	Rio	do	10:3"
2	A44	+	7214"	12	A108		9'0"	2	AITZ		7117"	2	A236		1て! 5"	7	Pi	7/8"	60	6	RII	de	11-8"
2	A45		51; 9,	2	A109		8'-6"	2	A173		21:2"	2	A-237		172"	6	Pz	do	9:3"	6	RIZ	do	13'-0"
2	A46		21: 2"	12	A110		7:11"	2	A174		20'-9"	2	A 238		16'-10"	6	P3	do	15:0	6	R13	do	14-5"
2	A47	+	20'6"	2	AIII		7'4"	2	A179		70-4"	2	A239		16'-5"	6	P4	do	14:10"	6	R4	do	15:10"
2	A48	+	19:11"	2	A112		6:10"	2	A176		19:11	2	A240		16'-0"	6	P5	do	17:8"	6	RIS	do	17:5"
2	A49	1	19:4"	2	A113		6-4"	2	AITT		19:5"	2	A241		15-8"	12	P6	do	21:4"	6	R16	do	18:7"
2	A50		18-9"	2	A114	-	5-10"	2	A178		19:0"	2	A242	A CONTRACTOR OF THE CONTRACTOR	15-3"	6	P7	7/8"4	9:3"	6	RIT	do	19:11"
2	A51		18-5.	12	A119		5:3"	2	A179		18-7"	2	A243	- Annual Ripedian	14-11"	6	Ri	1/2"	8'-6"	6	RIB	1/2"	
2	A 52		17:7"	2	A116	H	4:9"	2	A180	+	18-2"	2	A244	A Property of the State of the	14-6	6	R2	do	10'-0"	16	S	7/8"\$	11:0"
2	A53		17:0"	12	A 117		25:8"	2	AIBI		17:9"	2	A245		14-1"	6	R3	do	11-5"	15	Мз	7/8"	27:6"
2	A 54		16:6"	12	Aus		75: 2"	2	A182		17:4"	2	A246		13-8"	6	R4	do	12:11"	12	M4	78"\$	29:6"
2	A 55		15-11"	12	Alla	III	74-8"	12	A183		16-11"	2	A247	T	13:4"	6	R5	do	14:4"				:
2	A56		15:4"	12	A120	ff	Z4: Z"	12	A184		16'6"	2	A248		12:11"	6	R6	do	15:9"				
			14:8"	12	A121		23:8"	12	A185		16'-0"	12	A249	+	12:7"	6	RT	do	17:3"				
5	A57		14.0	2			23.5.	12	A186		15:7"	12	A250		12:2"	6		1/2"0	18-8"	1			
-	_		13:7"	2		+	25;8.	12	A187		15-2"	1 2	A251		11: 9"		S	7/8"\$		1			COLUMN CONTRACTOR CONT
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2	-		12:5"	5		++	21:4"	2	A190		13-10"	12	A254	-	10:7"	11-	1			11	1	1	
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FINK CREEK BRIDGE
3-55'-0" I BEAM SPANS — 24'-0" ROADWAY

ON

STATE ROUTE Mº 47

LINN ~ TROY ROAD

OVER

FINK CREEK

NEAR

TROY

GILMER COUNTY W.VA.

DESIGNED BY

STATE ROAD COMMISSION

CHARLESTON WEST VIRGINIA

Scale: As Noted

November 1938

Project: P.W.A. (1197-F) 3364-A

Sheet Mº 3 of 25.

#1534

