102

FED. ROAD DIST. NO.	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	ARK.	DANR-1-(Unit4)			
STATE JOB NO. 7305					

STATE OF ARKANSAS

STATE HIGHWAY COMMISSION

PLAN OF PROPOSED BRIDGE
OVER OUACHITA RIVER
AT CAMDEN, OUACHITA COUNTY

ROUTE 79 SEC. 4

JOB Nº 7305

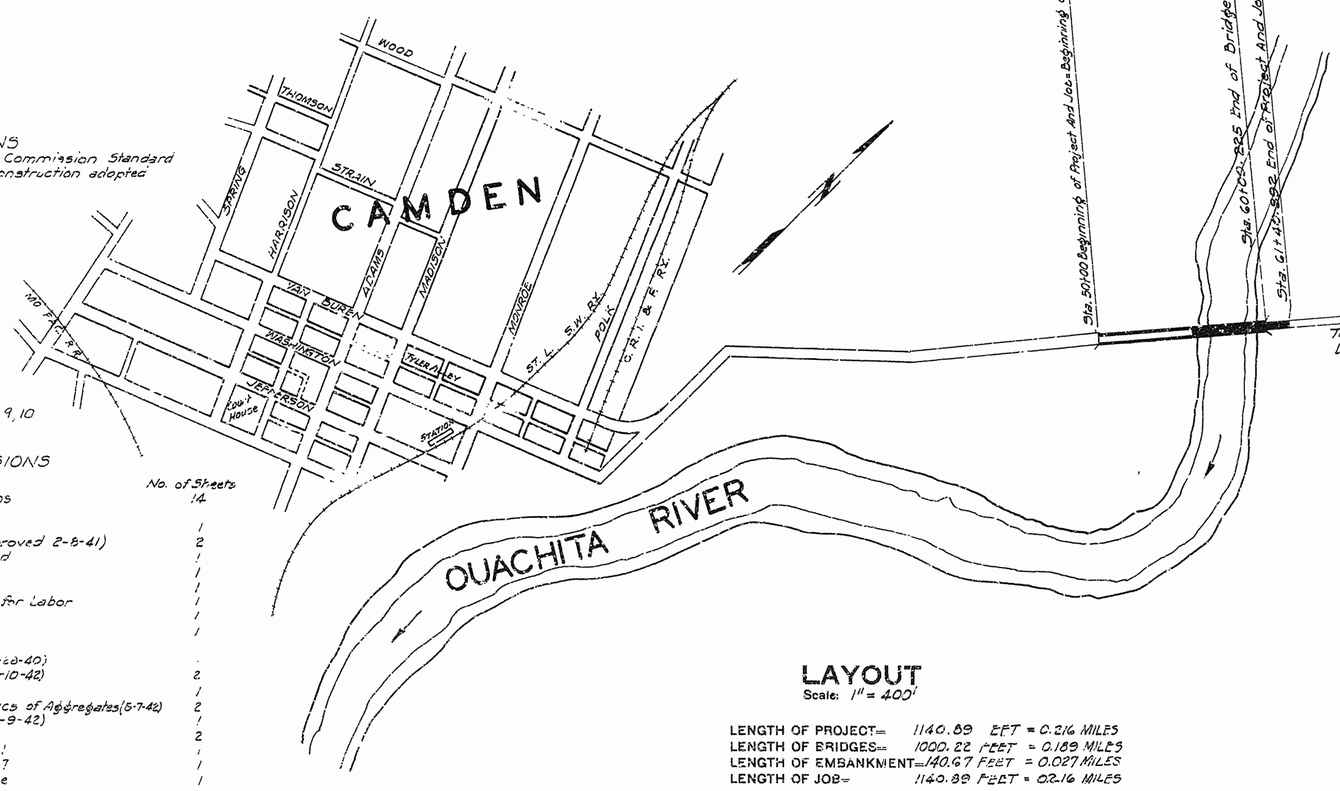
DANR-I-(UNIT 4)

INDEX OF SHEETS

SHEET No	DRWG. No	DESCRIPTION
1	6634	Title Sheet Job No. 7305
2	6635	Summary Sheet and Details of Pavement
3	6636	General Plan
4	6637	Layout of Bridge
5	6638	Details of Piers 1 & 4
6	6639	" " " 2 & 3
7	6640	" " 21' I-Beam Span
8 & 9	6641-6642	" " Truss Span
10	6643	" " Bent No. 16
11	6644	" " 46' I-Beam Span
12	6645	" " Sidewalks for Existing Beam Spans
13	6647	Cross Section
14	1888	Embankment Construction at Bridge Ends and Backfill for Structures
15	1891	Excavation for Structures
		Details of Existing Construction
16	3477-A	Layout of South Approach
17-18	3478-3479	Special Details of Spans
19-20	3481-3481-A	Details of Swing Span and North Approach
21	3483	" " Bents
22	2164	" " 40' I-Beam Spans
23-26	6665-6668	" " Detour Bridge

QUANTITIES

ITEM NO	ITEM	QUANTITY	UNIT
102	Common Excavation	270	Cu.Yd.
103	Dry Excavation for Structures	452	Cu. Yd.
103	Wet Excavation for Structures	1,026	Cu. Yd.
SP & 701	Portland Cement Concrete Pavement (9" Uniform)	337.5	Sq. Yd.
702	Reinforcing Steel for Pavement (Dars Bridge End)	1000	Lb.
SP & 802	Class 'A' Concrete for Bridges	885.00	Cu. Yd.
SP & 802	Class 'S' Concrete for Bridges	358.00	Cu. Yd.
SP & 802	Seal Concrete for Bridges	559.00	Cu. Yd.
SP & 803	Reinforcing Steel	119,000	Lb.
804	Concrete Piling (14 inch square)	1,776	Lin. Ft.
804	Concrete Piling (16 inch octagonal)	162	Lin. Ft.
SP & 807	Structural Steel In Beam Spans	112,700	Lb.
SP & 807	Structural Steel In Truss Spans	576,500	Lb.
810	Untreated Timber Piling	5,320	Lin. Ft.
1002	Removal and Disposal of Concrete Pavement	338	Sq. Yd.
SP	Removal of Existing Bridge	100% Complete	Item
SP & 805	Concrete Railing	92	Lin. Ft.
SP 925-2	Guard Fence Moved and Reconstructed	220	Lin. Ft.
SP 925-2	Guard Fence Posts	10	Each



SPECIFICATIONS

Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction adopted March 1st, 1940

PAMPHLETS

Div. I
Div. II Parts 1, 7, 8a, 8b, 8c, 9, 10
Div. III
Div. IV

SPECIAL PROVISIONS

No	Items	No. of Sheets
	Required Special Provisions	14
	Wages of Labor	1
2-1	Rev. of Article 2.11 (Approved 2-6-41)	2
2-2	Equipment List Required	1
3-2	Award of Contract	1
4-1	Rev of Art. 4.9	1
8-3	Employment Centers for Labor	1
9-5	Partial Payments	1
9-6	Common Carrier Rates	1
	Rev of Section 701 (8-28-40)	
	" " " 701 (3-10-42)	2
752-1	Curing of Concrete	1
754-1	Physicial Characteristics of Aggregates (5-7-42)	2
757-2	Central Mixing Plant (3-9-42)	1
759-1	Membrane Curing	2
803-1	Rev of Article 803.21	1
807-3	" " " 807.37	1
850-1	Engineers Field Office	1
853-1	Machine Mixing	1
Job 7305	Removal of Existing Bridge	1
Job 7305	Structural Steel In Beam Spans	1
925-2	Guard Fence Moved and Reconstructed	1
807-4	Rev of Article 807.29	1
Job 7305	Concrete Railing	1

LAYOUT

Scale: 1" = 400'

LENGTH OF PROJECT= 1140.89 FEET = 0.216 MILES
LENGTH OF BRIDGES= 1000.22 FEET = 0.189 MILES
LENGTH OF EMBANKMENT= 140.67 FEET = 0.027 MILES
LENGTH OF JOB= 1140.89 FEET = 0.216 MILES

REVISED 3-12-45

RECOMMENDED FOR APPROVAL
DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED
COMMISSIONER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED
CHAIRMAN STATE HIGHWAY COMMISSION

APPROVED
STATE HIGHWAY ENGINEER

M.D. Gamer
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

BRIDGE No. 2466

DRAWING No. 6634

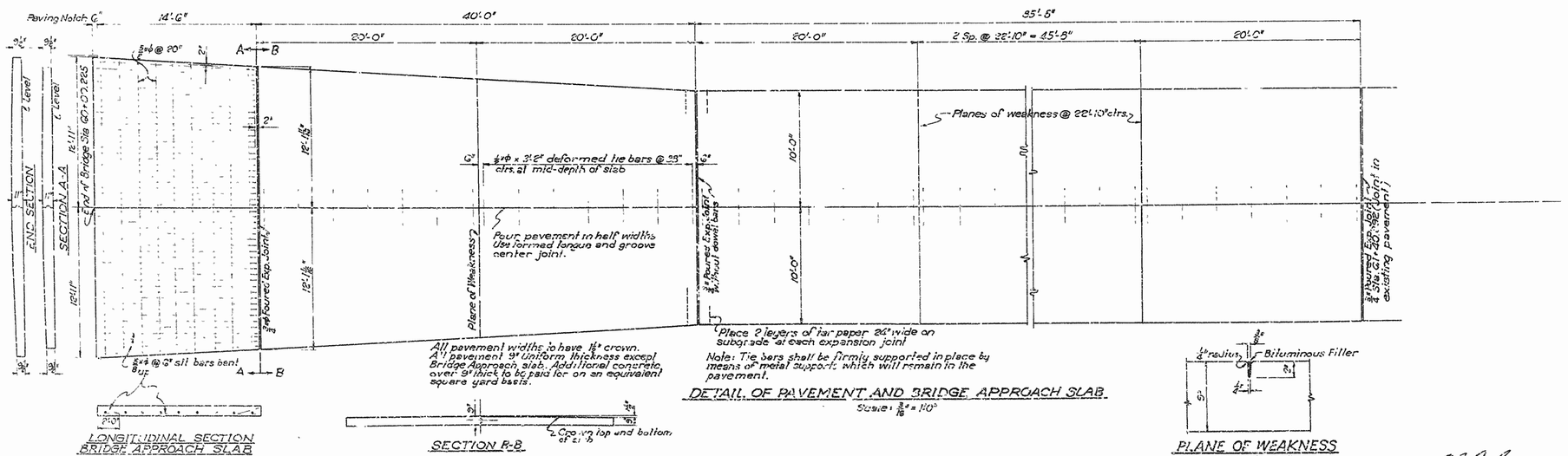
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
8	ARK.	BANK 1 Unit 2		2	33
STATE JOB NO.		7305		2	33

SUMMARY OF BRIDGE QUANTITIES (CODE NO. 970)

ITEM No	ITEM	UNIT	Pier No. 1	Piers No. 2&3	Pier No. 4	Bent No. 16	Span No. 1	Spans No. 2 to 13 Incl.	Span No. 14	Span No. 15	Spans No. 16 & 18	Span No. 17	Span No. 19			TOTAL
103	Dry Excavation for Structures	Cu.Yd	250		160	42										452
103	Wet Excavation for Structures	Cu.Yd.		1,026												1,026
SP&802	Class 'A' Concrete for Bridges	Cu.Yd.	103.45	702.13	79.42											885.00
SP&802	Class 'S' Concrete for Bridges	Cu.Yd.				14.22	3.76	38.28	1.66	15.05	165.29	84.20	35.54			358.00
SP&802	Seal Concrete for Bridges	Cu.Yd.		559.00												559.00
SP&803	Reinforcing Steel	Lb.	7,870	36,058	6,367	1,505	490	5,004	243	2,833	33,570	17,020	8,040			119.000
804	Concrete Piling (14" Square)	Lin.Ft.	768		1,008											1,776
804	Concrete Piling (14" Octagonal)	Lin.Ft.				168										168
SP&807	Structural Steel in Beam Spans	Lb.				560	5,043	51,420	2,642	11,797			41,238			112,700
SP&807	Structural Steel in Truss Spans	Lb.									382,800	193,700				576,500
810	Untreated Timber Piling	Lin.Ft.		5,320												5,320
SP&805	Concrete Railing	Lin.Ft.						52								52
SP	Removal of Existing Bridge	Complete Item														100%

ROADWAY ITEMS (20' CONCRETE PAVEMENT)
Sta. 60+00.225 Sta. 61+40.892

ITEM No	ITEM	UNIT	QUANTITY
102	Common Excavation	Cu.Yd.	270
SP&701	Portland Cement Concrete Pavement (9" Uniform)	Sq.Yd.	3375.0
702	Reinforcing Steel for Pavement (Bars Bridge Ends)	Lb.	1000
1002	Removal and Disposal of Concrete Pavement	Sq.Yd.	335
SP925-2	Guard Fence Moved and Reconstructed	Lin.Ft.	220
SP925-2	Guard Fence Posts	Each	10



LONGITUDINAL SECTION BRIDGE APPROACH SLAB

SECTION B-B

DETAIL OF PAVEMENT AND BRIDGE APPROACH SLAB
Scale: 3/8" = 1'0"

PLANE OF WEAKNESS
Scale: 1 1/2" = 1'0"

REVISED 3-12-45

SUMMARY SHEET & PAVEMENT DETAILS
BRIDGE OVER OUACHITA RIVER
CAMDEN, ARKANSAS
OUACHITA COUNTY
ROUTE 79 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: L.P.C. Date: 1-29-45
Traced By: E.A.W. Date: 2-3-45
Checked By: ____ Date: ____
Scale: in. = ft.

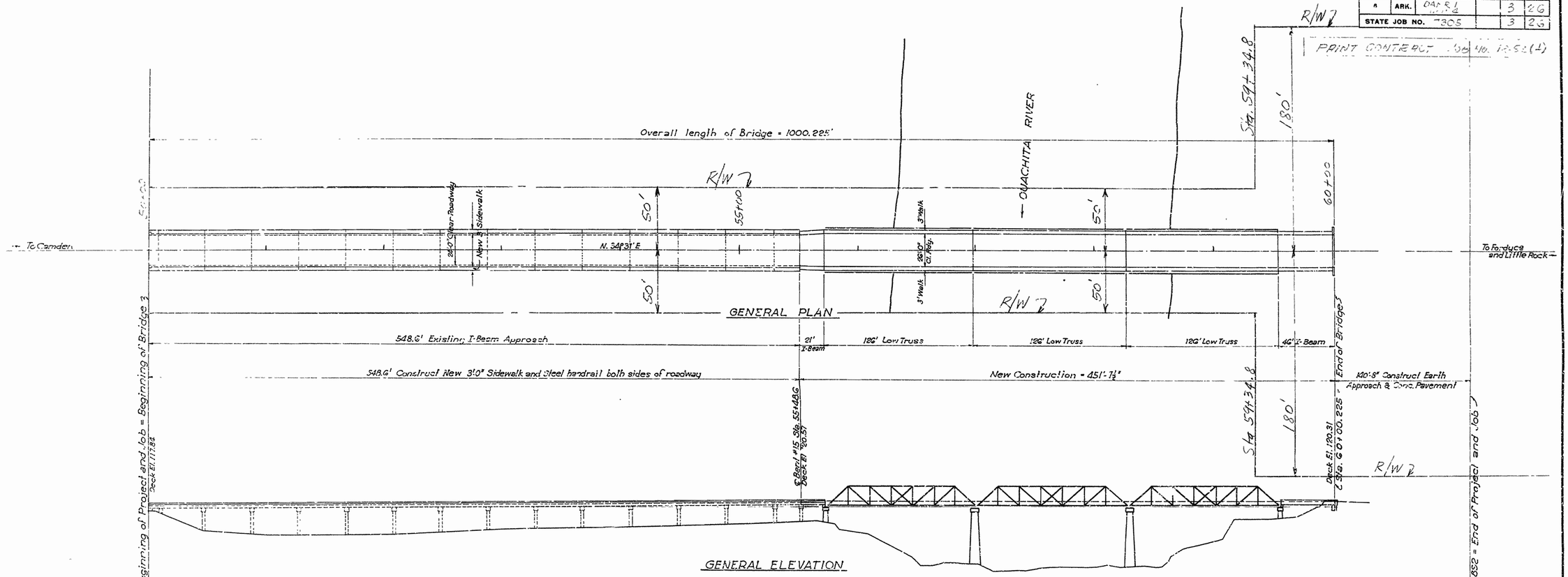
BRIDGE NO. 2466 DRAWING NO. 6635

H.B. Garver
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

104

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	ARK.	DANR 4		3	26
STATE JOB NO.		7305		3	26

PRINT CONTRACT Job No. 7305(4)



BM Elev 118.50
X on S. End of concrete curb South approach to Ouachita River bridge Lt. of Sta. 50+00.

BM Elev. 154.84 M.S.L.
In front of E. wall of L. SW station 1' South of door to white waiting room. Stamped E-12-1932.

For details of Structure See Drwgs. GG37-GG45 Incl.

For Quantity Summary and Pavement Details See Drwg. GG35

Rev. 4-28-45 R/W Lines

GENERAL PLAN, ELEVATION AND GRADE PROFILE BRIDGE OVER OUACHITA RIVER CAMDEN, ARKANSAS

OUACHITA COUNTY

ROUTE 79 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

Drawn By: E.A.W. Date: 1-23-45
Traced By: E.A.W. Date: 2-1-45
Checked By: Date:

Scale: 1 in. = 40 ft. and as noted

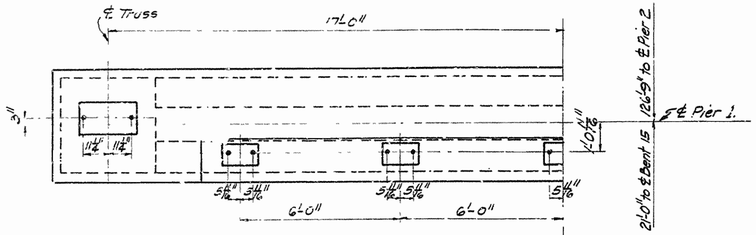
BRIDGE NO. 2466 DRAWING NO. GG36

M. B. Garver
PRINCIPAL HIGHWAY ENGINEER (BRIDGES)

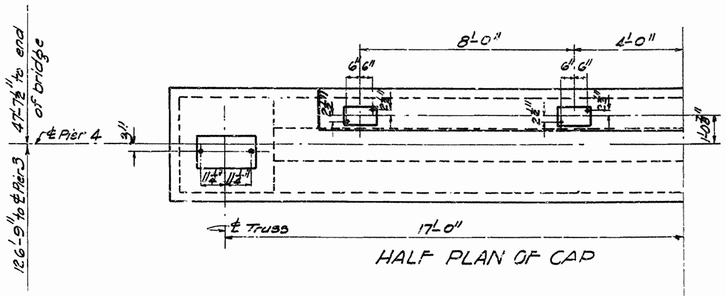
FED. ROAD DIST. NO.	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
8	ARK.	BANR-H(Unit 4)		5	26
STATE JOB NO. 7305				5	26

LIST OF BENT BARS

Mark	Size	Length	A	B	Bending Diagram
P1	¾"ϕ	10'-2"	8'-8"	6"	C, A, B — P1, P2
P2	¾"ϕ	13'-2"	11'-8"	6"	
P2A To P2U	½"ϕ	Ave 15'-2⅜"	3'-0⅜" To 3'-10⅜"	3'-0" To 4'-6⅜"	
P3	½"□	12'-7"	3'-9½"	2'-1½"	
P8	½"□	9'-10"	4'-4"	1'-2"	B, A — P8, P8A
P8A	½"□	6'-0"	2'-5"	1'-2"	P2A To P2U



HALF PLAN OF CAP



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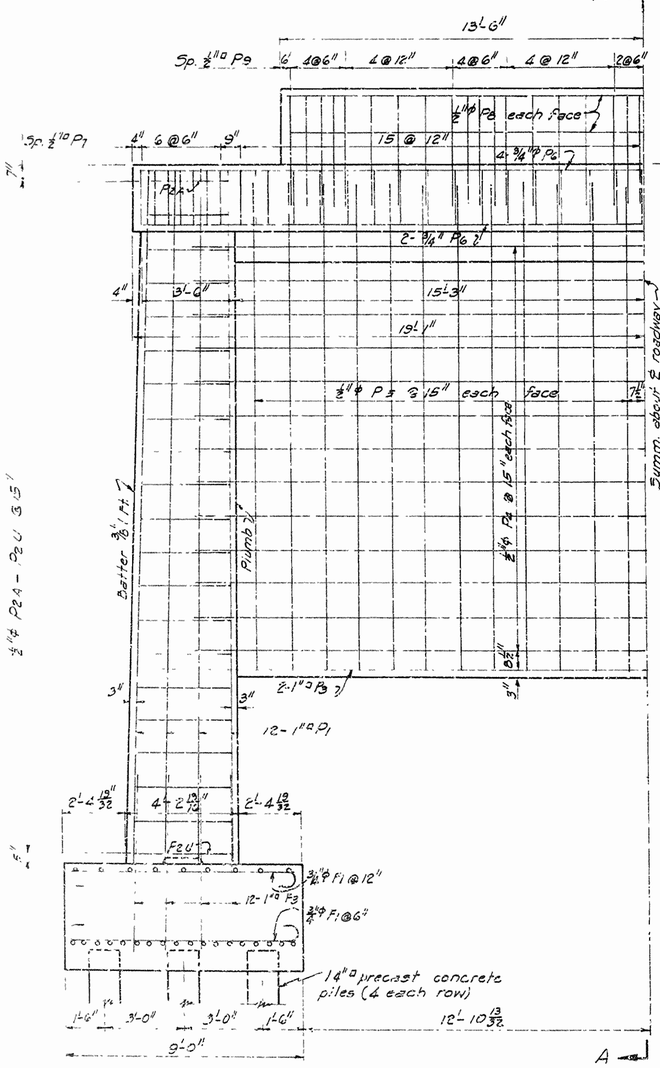
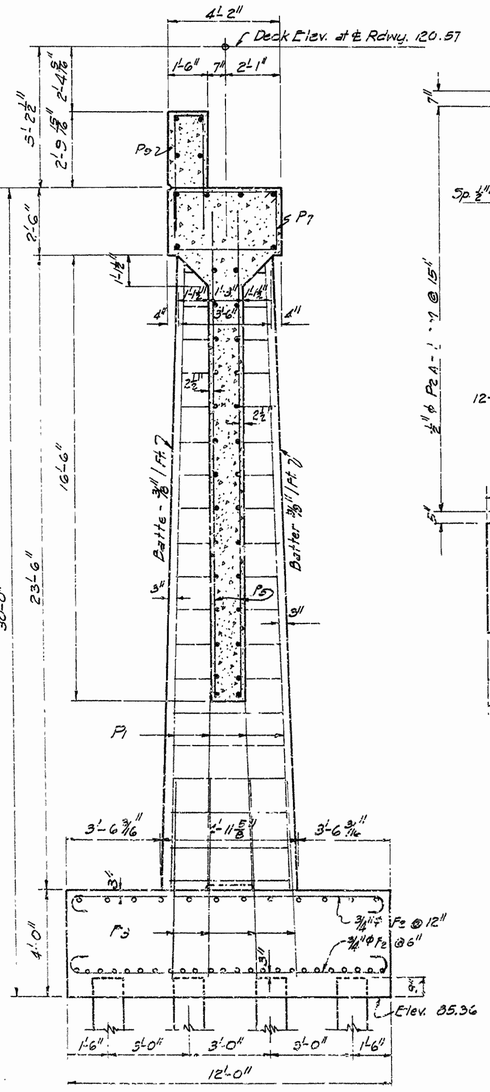
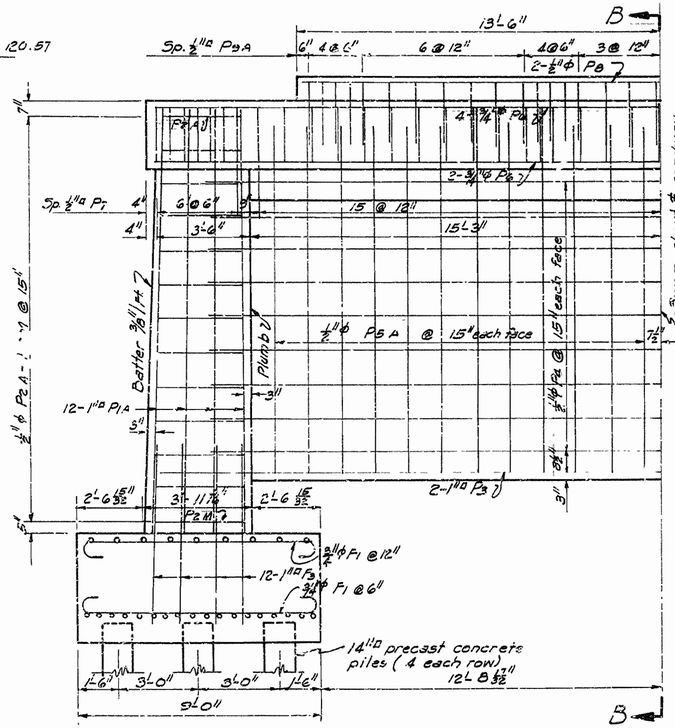


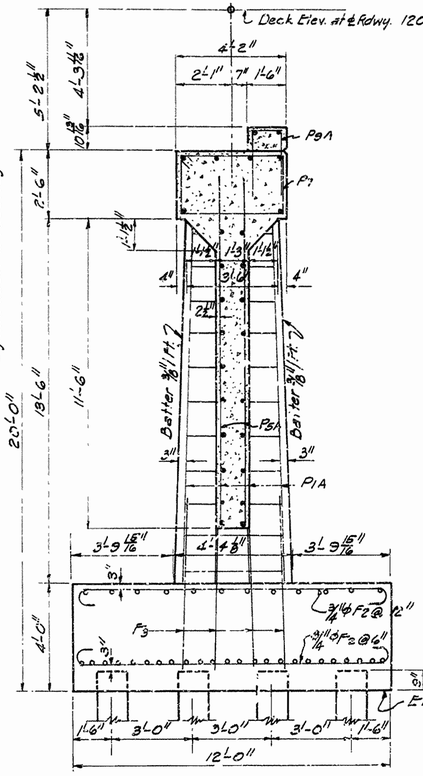
HALF ELEV. PIER NO. 1



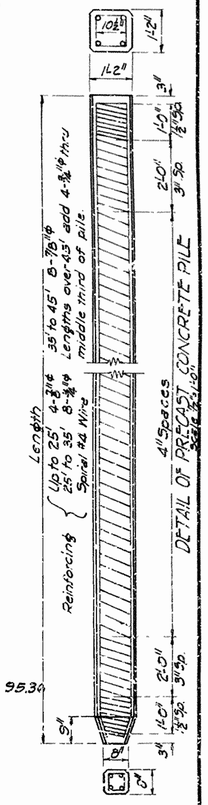
SECTION A-A



HALF ELEVATION PIER NO 4



SECTION B-B



DETAIL OF PRECAST CONCRETE PILE

GENERAL NOTES:-

All concrete to be Class "A" All exposed corners to have ¾" chamfer. All concrete to be poured in the dry. Construction joints where permitted shall be horizontal and be provided with 3" keys. Keys in walls to be continuous and occupy the middle third of the width. Keys in columns to occupy the middle third of each dimension.

Reinforcing steel to be deformed bars of structural or intermediate grade Shop lists and bending diagrams shall be submitted by contractor, and approval secured before fabrication is begun. Dimensions relating to reinforcing steel are to centers of bars.

Specifications:- Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction. Adopted March 1, 1940

Maximum bearing on foundation piling:
Without wind load 25 Tons per pile
Including " " 28 Tons per pile

M. D. Garver
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

DETAILS OF PIERS 1 & 4 BRIDGE OVER OUACHITA RIVER AT CAMDEN - OUACHITA COUNTY

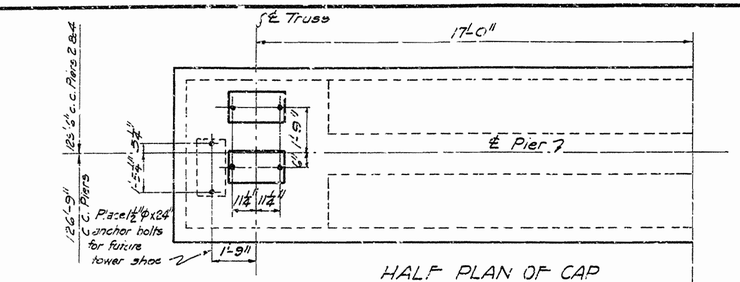
ROUTE 79 SEC. 4

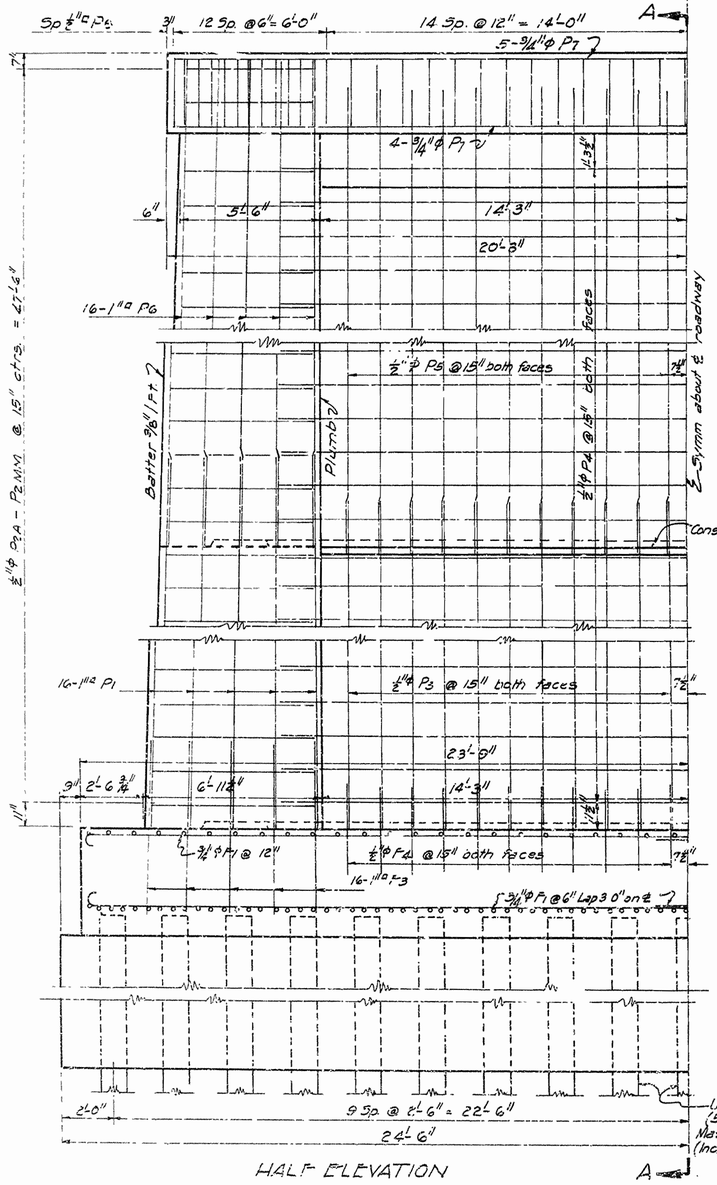
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

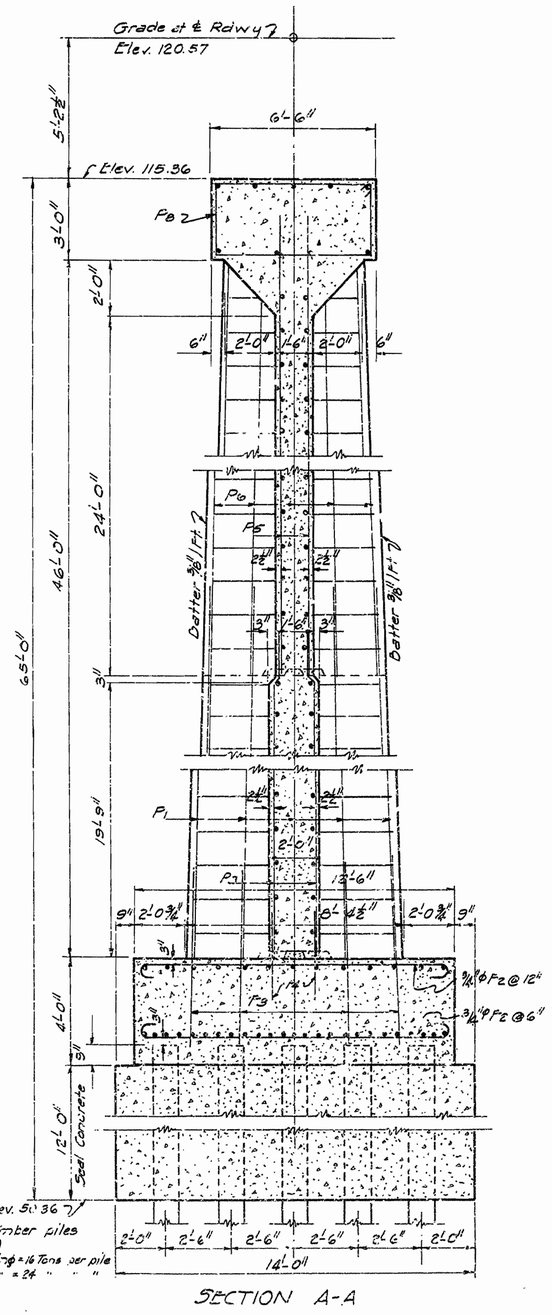
Drawn By: L.P.S. Date: 12-23-44
Traced By: L.A.M.P. Date: 2-1-45
Checked By: Date:
Scale: ⅜ in. = 1 ft.

BRIDGE NO. 2466 DRAWING NO. 6638

FED. ROAD DIV. NO.	STATE	*PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	D.A.NR.(6)nit 4)		6	26
STATE JOB NO. 7305				6	76

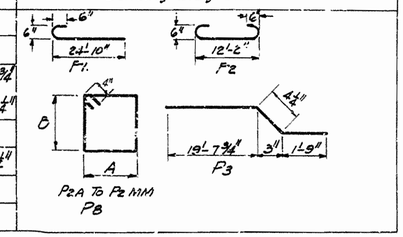






LIST OF BENT BARS

MARK	Size	Length	A	B	Bending Diagram
P1	3/4"φ	25'7"			
P2	3/4"φ	13'8"			
P2A To P2MM	1/2"φ	Ave. 25'3"	5'-0½" to 6'-6½"	4'-11 3/4" to 7'-11½"	
P3	3/4"φ	21'9"			
P8	1/2"φ	18'3"	2'-7½"	6'-1½"	



NOTE:- Maximum permissible head of water on 12' seal = 40'
For additional notes see Drwg. No. 6638

DETAILS OF PIERS 2 & 3
BRIDGE OVER OUACHITA RIVER
AT CAMDEN OUACHITA COUNTY
ROUTE 79 SEC. 4

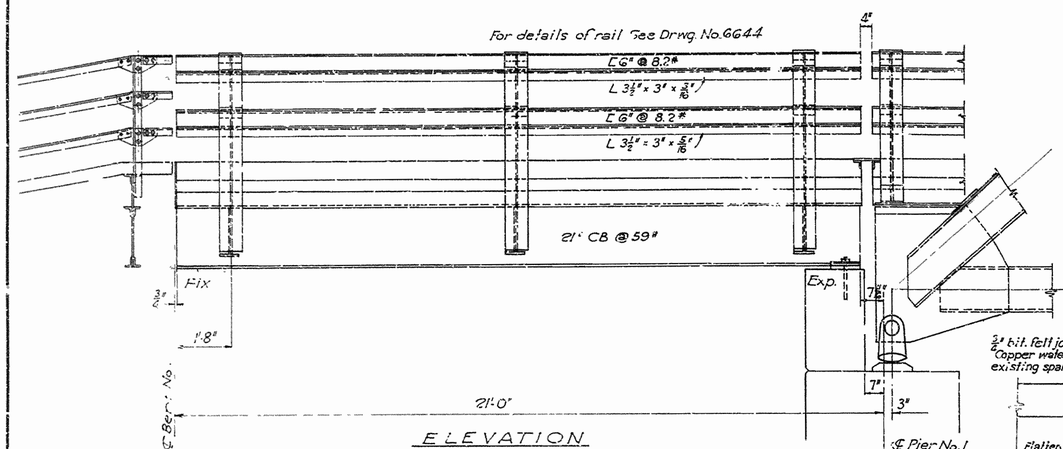
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

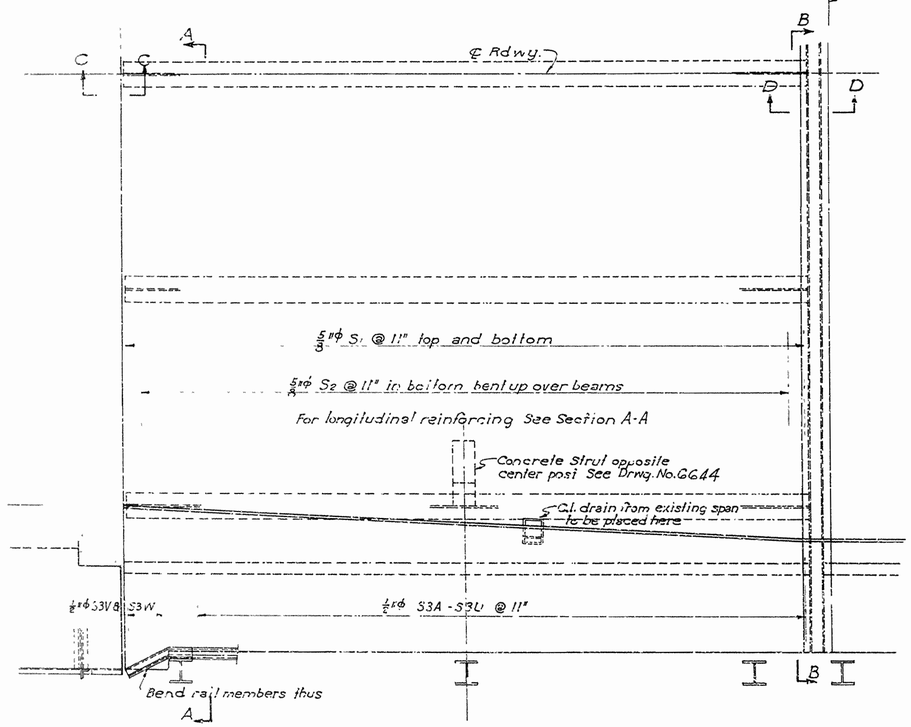
Drawn By: L.R.C. Date: 1-4-45
Traced By: L.R.M.S Date: 2-6-45
Checked By: _____ Date: _____
Scale: 3/16" in. = 1 ft.

BRIDGE NO. 2466 DRAWING NO. 6639

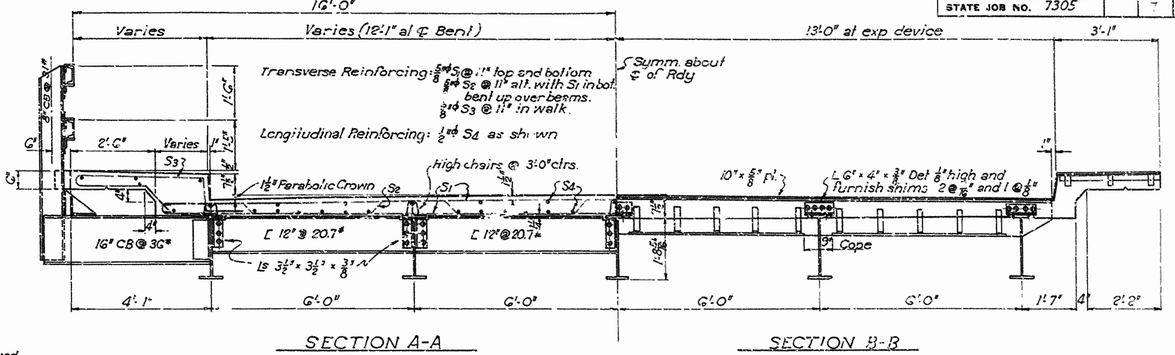
T. J. Barrow
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	ARK.	DANR 1 Unit 4			23
STATE JOB NO. 7305					23



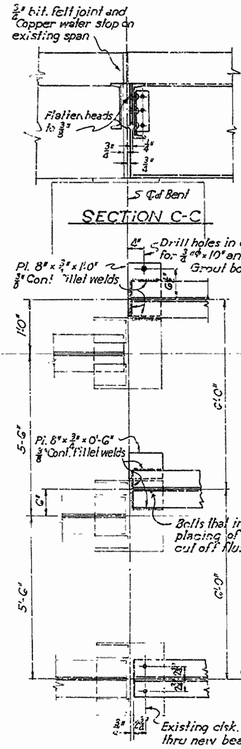


HALF PLAN

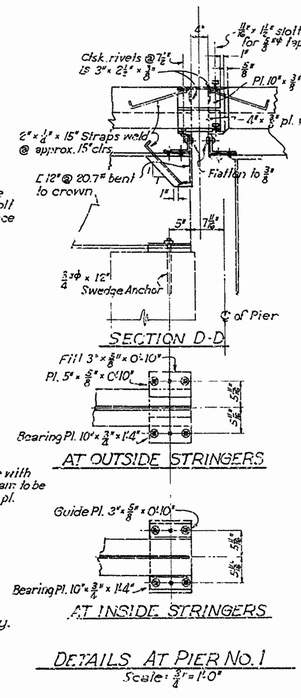


SECTION A-A

SECTION B-B



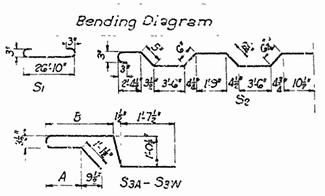
DETAILS AT BENT No. 15
Scale: ¾" = 1'-0"



DETAILS AT PIER No. 1
Scale: ¾" = 1'-0"

Mark	Size	Length	A	B
S1	⅝" ϕ	27'-7"		
S2	⅝" ϕ	28'-9"		
S3A to S3U	½" ϕ	Ave. 8'-11½"	2'-0½"	2'-3½" to 3'-8½"
S3V	½" ϕ	10'-5½"	2'-G½"	4'-3"
S3W	½" ϕ	10'-G"	2'-G½"	4'-3½"

Bending Diagram



Note: For general notes and for typical details not shown on this sheet See Drwg. No. 6644

LOAD DISTRIBUTION TO BEAMS

	Dead Load	Roadway Live Load	Sidewalk Live Load
INTERIOR BEAMS	730#	1.2 Wheels or 0.6 Lane	
OUTSIDE BEAMS	1030#	0.75 Wheels or 0.35 Lane	300#

Design Live Load H 20

UNIT STRESSES

Class 'S' Concrete	1000 #/□"	n = 10
Reinforcing Steel =	18000 #/□"	
Structural Steel =	18000 #/□"	

DETAILS OF 21' I-BEAM SPAN BRIDGE OVER OUACHITA RIVER CAMDEN, ARKANSAS

OUACHITA COUNTY

ROUTE 79 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

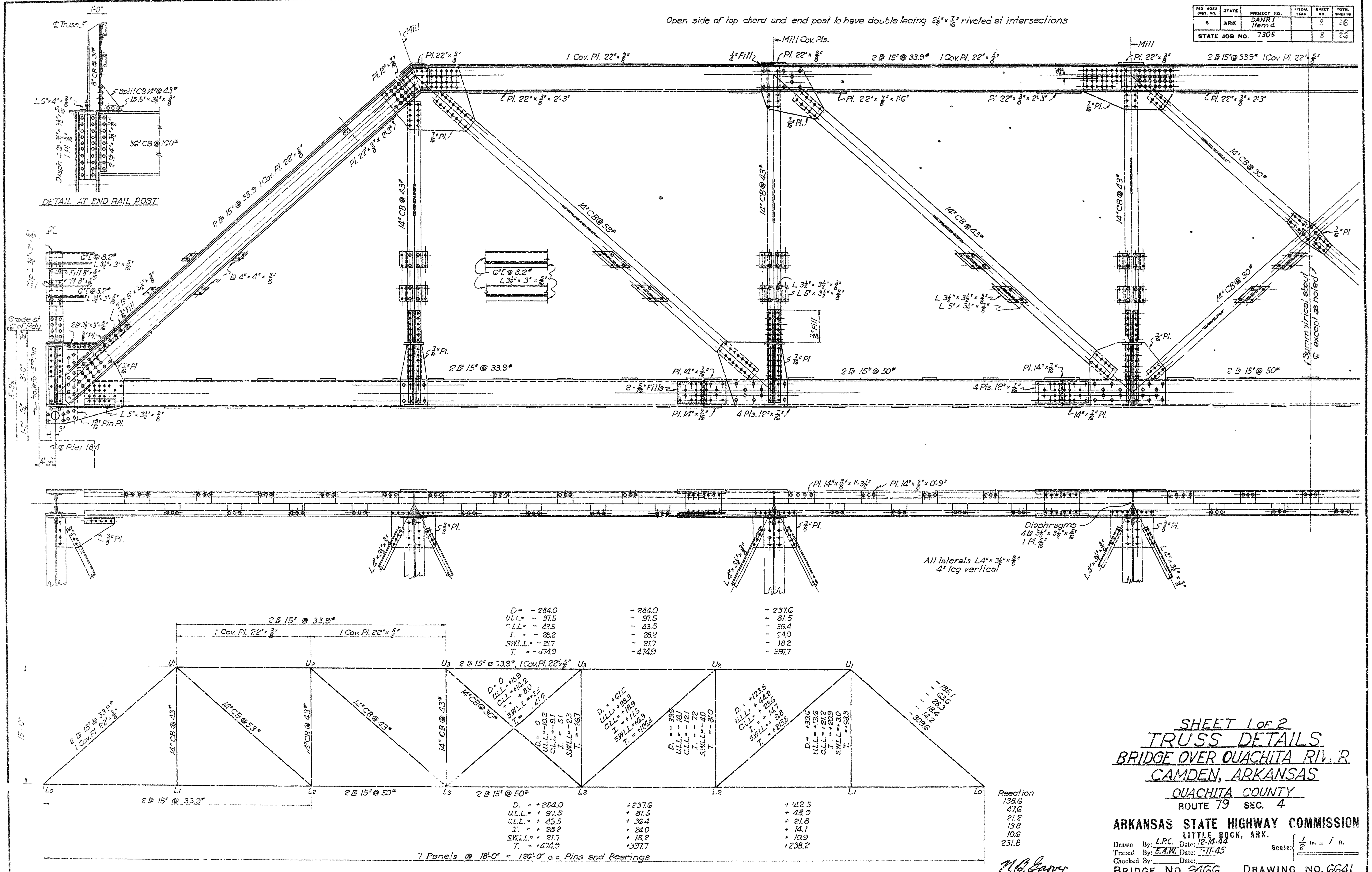
Drawn By: J.D.C. Date: 12-22-44
Traced By: E.A.W. Date: 1-22-45
Checked By: Date:

Scale: ½ in. = 1 ft. and as noted

BRIDGE No. 2466 DRAWING No. 6640

N.B. Garver
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK	DANR 1 Item 4		2	26
STATE JOB NO. 7305				8	26



SHEET 1 OF 2

TRUSS DETAILS

BRIDGE OVER OUACHITA RIVER

CAMDEN, ARKANSAS

QUACHITA COUNTY

ROUTE 79 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

Drawn By: L.P.C. Date: 12-14-44

Traced By: E.A.W. Date: 1-11-45

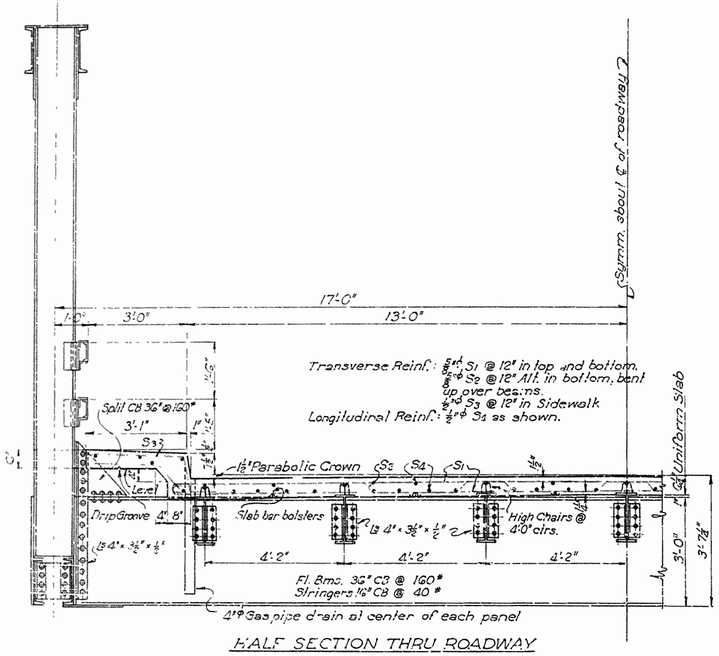
Checked By: ______ Date: ______

Scale: 1/2 in. = 1 ft.

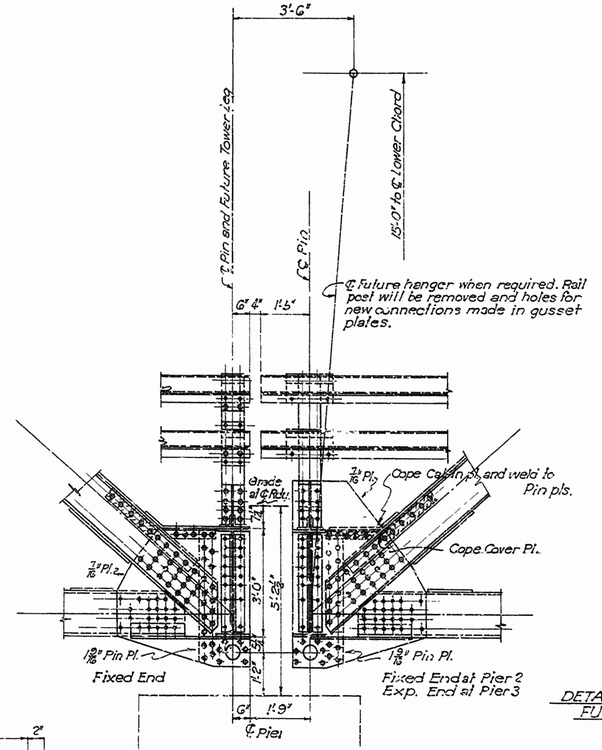
N.B. Garver
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

BRIDGE NO 2466 DRAWING NO. 6641

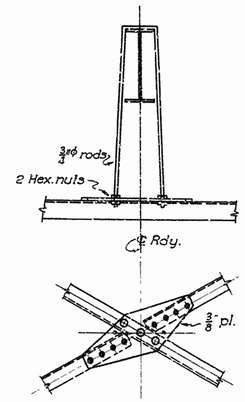
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	DANR 1 Item 4		9	26
STATE JOB NO. 7305				9	26



HALF SECTION THRU ROADWAY



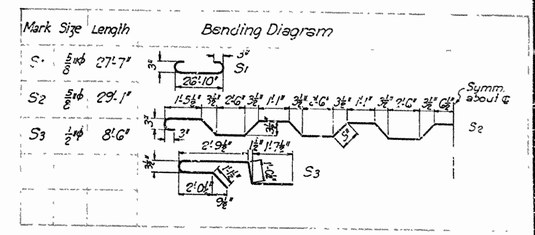
TRUSS DETAILS AT PIERS 2 & 3



DETAILS AT END RAIL POST
FUTURE LIFT SPAN

DETAIL AT LATERAL INTERSECTION
Scale: ¾" = 1'0"

Mark	Size	Length	Bending Diagram
S1	⅝"ϕ	27'-7"	
S2	⅝"ϕ	29'-1"	
S3	½"ϕ	8'-6"	



GENERAL NOTES:

Rivets ⅞"ϕ - Open holes 15/16"ϕ, except in flanges of C & B use ⅞"ϕ rivets, 11/16"ϕ holes.

All holes in truss connections to be subpunched to 11/16"ϕ and reamed to size while truss is assembled. This applies to field as well as shop rivets.

Floor beam and stringer connections shall be subpunched to 11/16"ϕ and reamed to a metal template. All field connections shall be riveted. All floor beams and stringers shall be milled to exact length after framing angles have been riveted. Minimum thickness of angle after milling shall be ⅞ inch.

Floor Slab: Concrete to be Class 'S', ¼" has been added for wear.

Shop Paint: After being completely assembled and shop work is finished, all pieces shall be given one coat of red lead and raw linseed oil before shipment.

Field Paint: First coat, White lead tinted with lamp black.
Second Coat, Aluminum Paint.

Shapes of equal or greater strength may be substituted for structural shapes shown but payment will be made in accordance with sizes shown on this plan or on the substituted section if of lesser weight.

This drawing shows general features of design only. Shop drawings shall be made in compliance with specifications, submitted and approved before fabrication is begun.

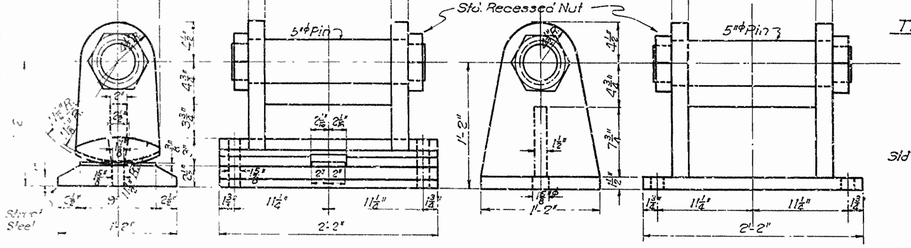
Trusses shall be cambered for dead load.

All shoe material including anchor bolts, expansion devices and gas pipe drains to be paid for as "Structural Steel in Truss Spans". Drains to be painted.

Specifications: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction adopted March 1st 1940.

UNIT STRESSES: Concrete 1000 #/□" n=10
Reinforcing Steel 18000 #/□"
Structural Steel 18000 #/□"

LOADING: H 20

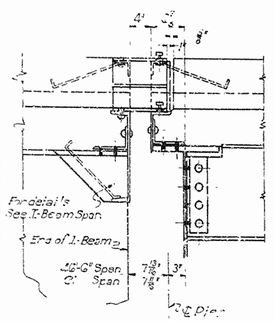


EXPANSION BEARING

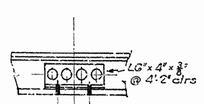
FIXED BEARING

DETAILS OF BEARING DEVICES
Scale: 1½" = 1'0"

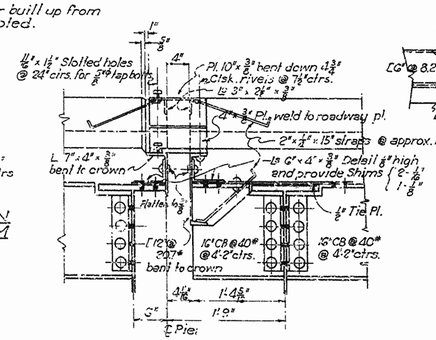
Shoes may be of cast steel or built up from structural steel except as noted.



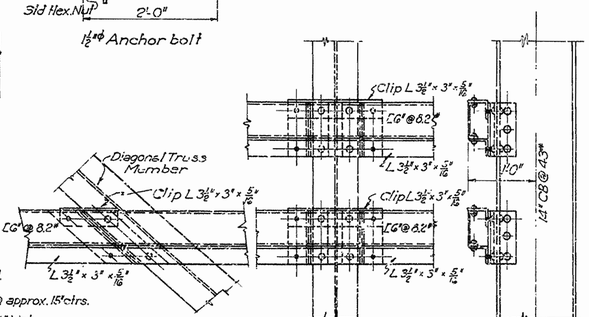
EXPANSION DEVICE AT PIERS 1 & 4
Scale: 1" = 1'0"



CONNECTION EXPANSION DEVICE TO FLOOR BEAM



EXPANSION DEVICE AT PIERS 2 & 3
Scale: 1" = 1'0"



TYPICAL HANDRAIL CONNECTIONS
Scale: 1" = 1'-0"

SHEET 2 OF 2

TRUSS DETAILS
BRIDGE OVER OUACHITA RIVER
CAMDEN ARKANSAS
OUACHITA COUNTY
ROUTE 79 SEC. 4

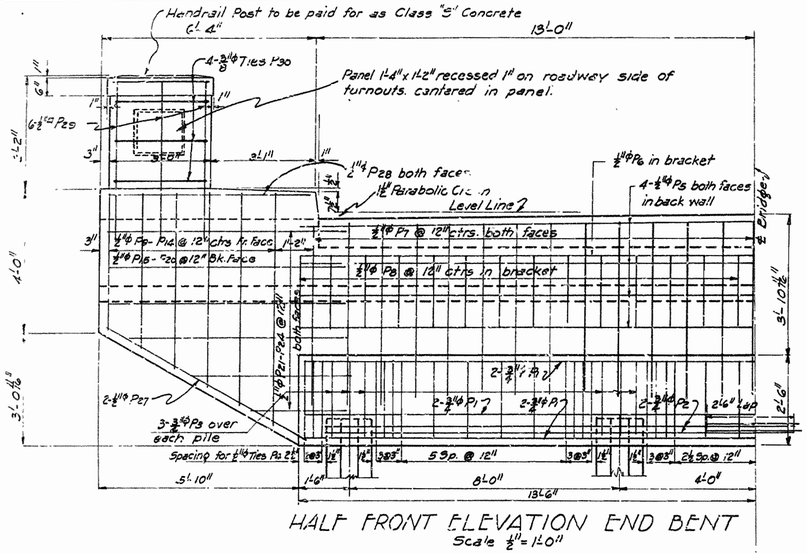
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

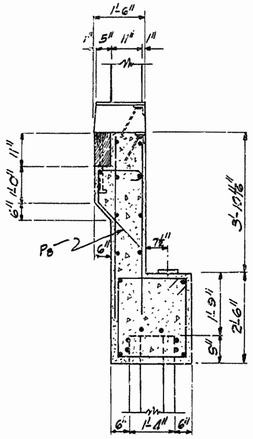
Drawn By: [illegible] Date: 12-18-44
Traced By: E.A.W. Date: 1-18-45
Checked By: Date:
Scale: ½ in = 1 in. and as noted

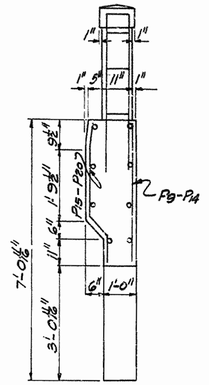
BRIDGE NO. 2466 DRAWING NO. 6642

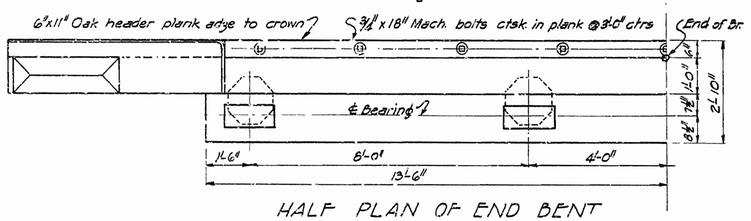
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

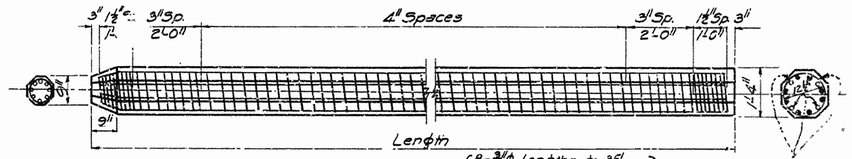
FED. ROAD DIST. NO.	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	ARK.	BRNR-1-(Unit 4)		10	26
STATE JOB NO. 1305				10	26



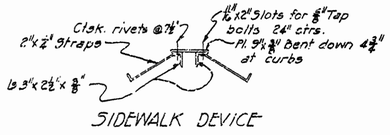




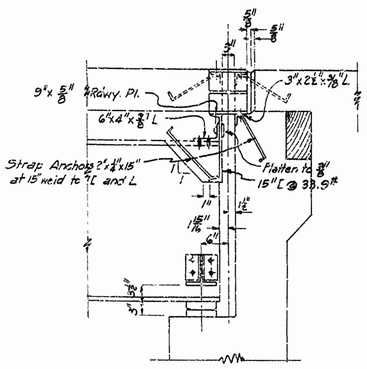


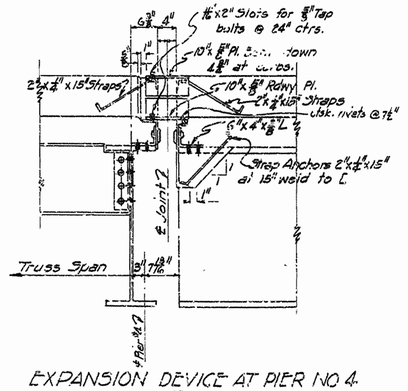


DETAILS OF 16" PRECAST CONCRETE PILE



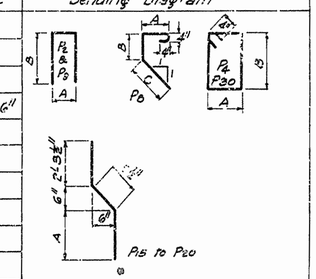
SIDEWALK DEVICE





Mark	Size	Length	A	B	C
P2	¾"ϕ	29'-5"	1'-5"	14'-0"	
P3	¾"ϕ	6'-1"	1'-11"	2'-1"	
P4	½"ϕ	6'-9"	1'-11"	2'-1"	
P8	½"ϕ	9'-9"	1'-0"	0'-9"	1'-6"
P15	½"ϕ	3'-11"	0'-11"		
P16	½"ϕ	4'-6"	1'-6"		
P17	½"ϕ	5'-0"	2'-0"		
P18	½"ϕ	5'-6"	2'-6"		
P19	½"ϕ	6'-0"	3'-0"		
P20	½"ϕ	6'-6"	3'-6"		
P30	⅜"ϕ	7'-3"	7"	2'-8"	

Bending Diagram



GENERAL NOTES

Volume occupied by Oak header plank is included in quantity of Class "S" Concrete. Bolts for Oak headers to be paid for at unit price bid for "Reinforcing Steel".
Piles to be driven to a minimum capacity of 32 Tons.
For additional general notes See Drwg. No. 6644

DETAILS OF BENT NO. 16
BRIDGE OVER OUACHITA RIVER
AT CAMDEN OUACHITA COUNTY
ROUTE 79 SEC. 4

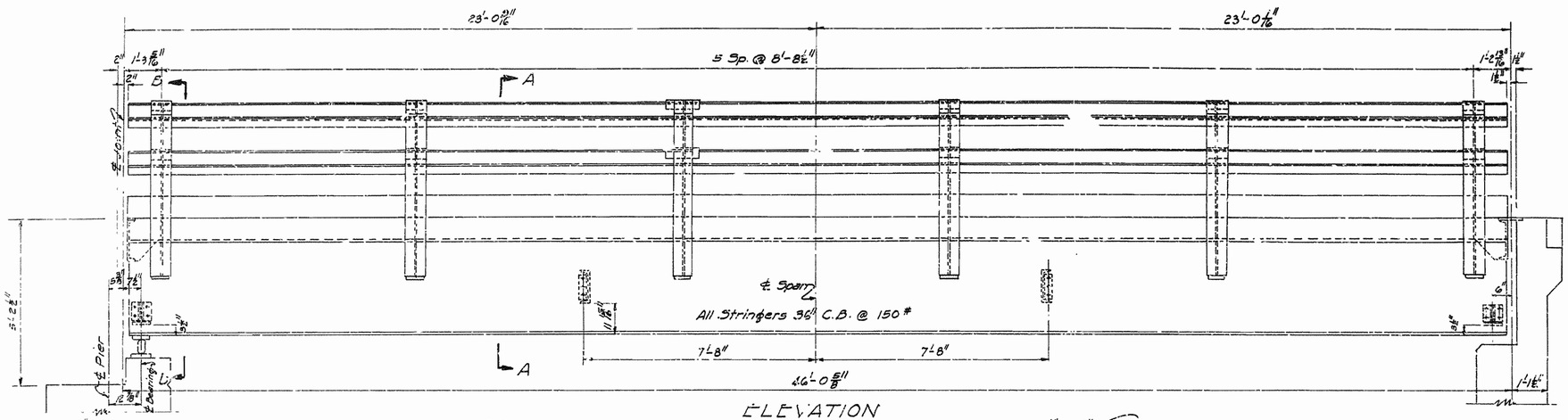
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: LAMc Date: 1-5-45
Traced By: L.A.McE Date: 1-18-45
Checked By: Date:
Scale: ½ in. = 1 ft. and as noted

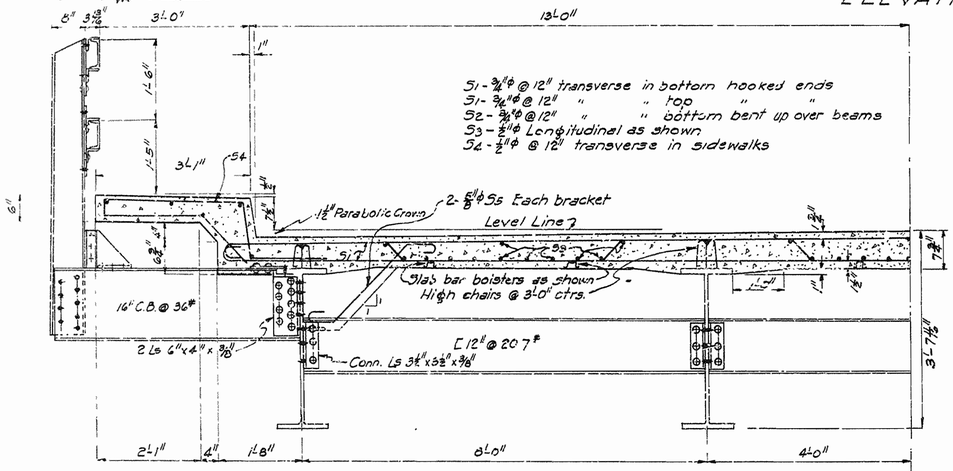
W. J. Barrow
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

BRIDGE NO. 2466 DRAWING NO. 6643

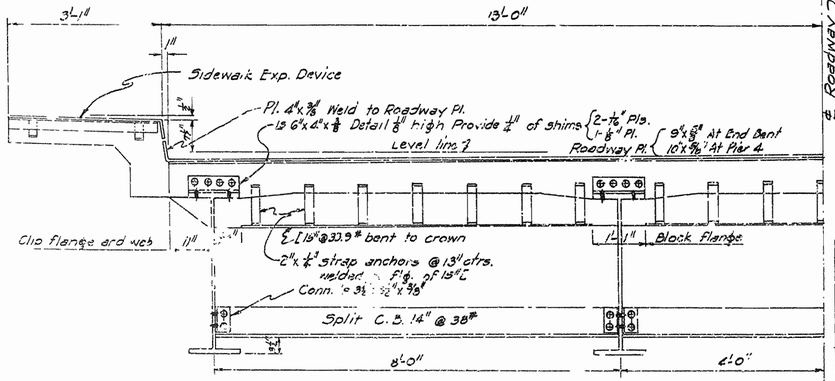
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	DANR-1(Unit 4)		11	26
STATE JOB NO. 7305				11	26



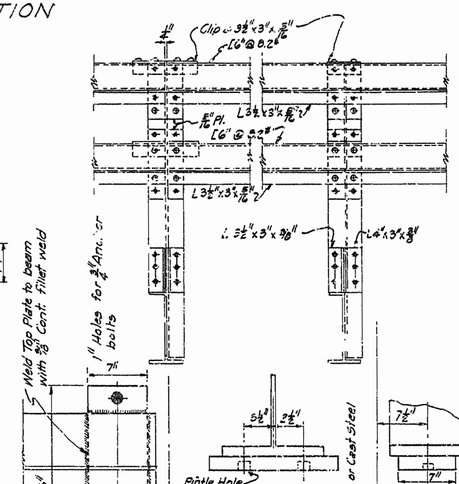
ELEVATION



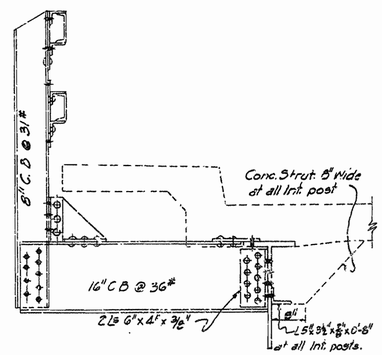
HALF SECTION A-A
Scale 3/16" = 1'-0"

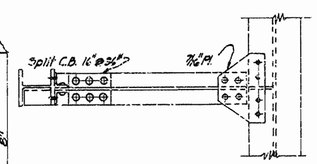


HALF SECTION B-B
Scale 3/16" = 1'-0"



DETAILS OF BEARINGS
Scale 1 1/2" = 1'-0"

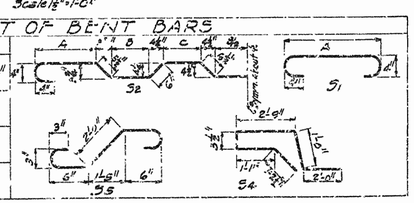




HAND RAIL DETAILS
Scale 3/16" = 1'-0"

LIST OF BENT BARS

Mark	Size	Length	A	B	C
S2	3/4ϕ	28'-10"	3'-2"	4'-0"	3'-3"
S1	3/4ϕ	28'-0"	27'-0"		
S4	1/2ϕ	3'-2"			
S3	5/8ϕ	3'-3"			



Loading H 20
Load Distribution Outside Girders
Dead Load Per Ft. = 1250#
Roadway Live Load Per Ft = 324#
Conc. Live Load { 9100 Mom. / 13200 Shear
Truck Live Load = 1.6
Side Walk Live Load = 230#
Load Distribution Inside Girders
Dead Load Per Ft. = 1080#
Roadway Live Load Per Ft = 512#
Conc. Live Load { 14,400# Mom. / 20,800# Shear
Truck Live Load = 1.60 Wheel

STRESSES
Structural Steel = 18,000#/0"
Reinforcing Steel = 18,000#/0"
Concrete = 1000#/0" n=10

GENERAL NOTES

All Concrete to be Class "S". All exposed corners to have 3/4" chamfer unless otherwise noted.

Rivets 3/4"ϕ. Open holes 13/16"ϕ. Where bolts are indicated use machine bolts.

Structural shapes of equal or greater strength may be substituted for shapes shown but payment will be made on basis of shapes shown or those actually used whichever is the lesser.

All welded connections to be 3/16" fillet shop welds except as noted.

Shop Paint: All structural steel except surfaces in contact with concrete, shall be given one coat of red lead and raw linseed oil before shipment.

Field Paint: First coat White Lead tinted with Lamp Black, Second Coat: Aluminum.

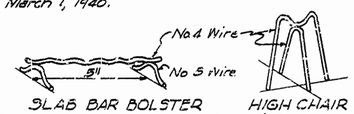
All bearing and roadway expansion devices to be paid for as "Structural Steel In Beam Spans".

Conc. shall be exercised to obtain 90° in the angle between flange and web of beams at bearing points.

This drawing shows general features of design only. Shop drawings shall be made in accordance with the specifications, submitted and approval secured before fabrication is begun.

In order to secure a good riding surface it will be required that the slab be struck off from curb to curb with a half span length longitudinal Strike off. The strike-off shall be sufficiently stiff so as to have no appreciable vertical deflection.

Specifications - Arkansas State Highway Commission Standard Specification for Road and Bridge Construction Adopted March 1, 1940.



SLAB BAR BOLSTER HIGH CHAIR

All reinforcing steel shall be accurately located in the forms and firmly held in place by means of steel wire chair supports adequate to prevent displacement during the course of construction and to keep the steel in proper distance from the forms.

Bar supports are to be sufficient in number and sufficiently heavy to properly carry the steel they support. Wire sizes shall not be less than shown.

Wire supports will not be paid for directly but will be considered subsidiary to the Item of "Reinforcing Steel". Shop lists and diagrams must be submitted for approval.

DETAILS OF 46'-0" I-BEAM SPAN 26'0" CLEAR ROADWAY BRIDGE OVER OUCHITA RIVER AT CAMDEN OUACHITA COUNTY

ROUTE 79 SEC. 4

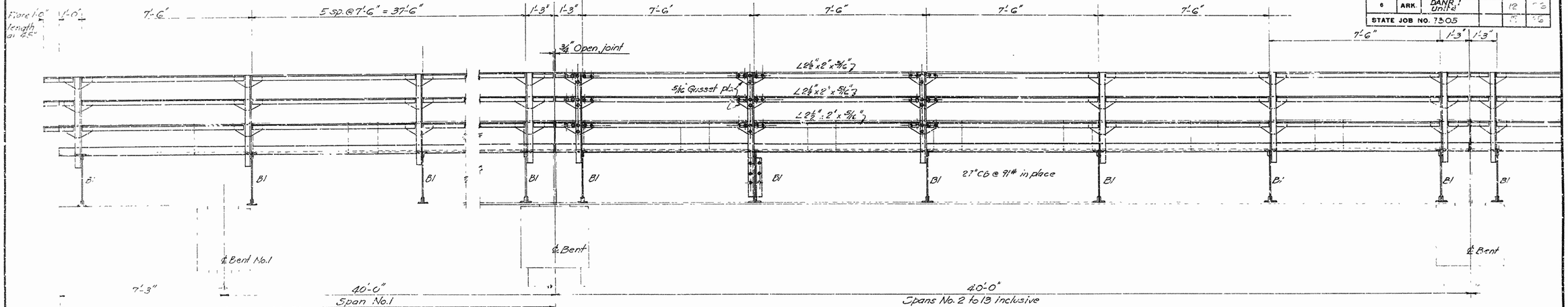
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: L.A.M.S. Date: 12-29-44
Traced By: L.A.M.S. Date: 2-26-45
Checked By: _____ Date: _____
Scale: 1/2 in. = 1 ft. And as noted.

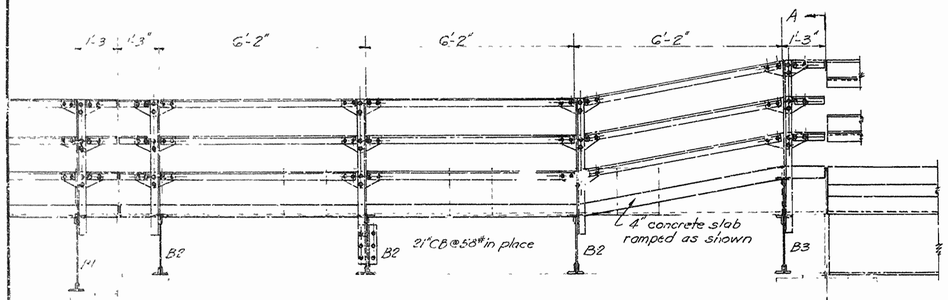
BRIDGE NO. 2466 DRAWING NO. 6644

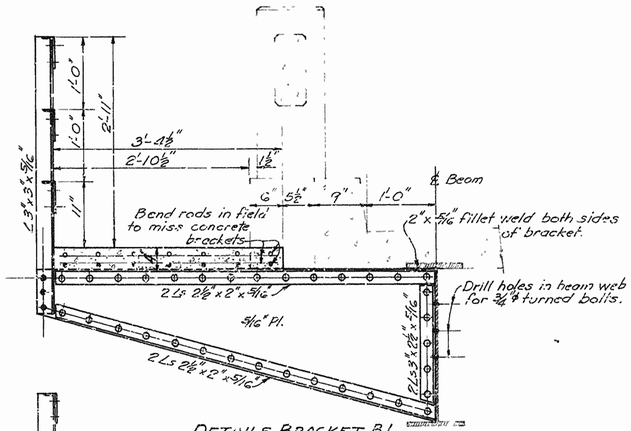
M. B. Emmett
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	F.A. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	DANR.1 Unit 2		12	13
STATE JOB NO. 7305				13	16

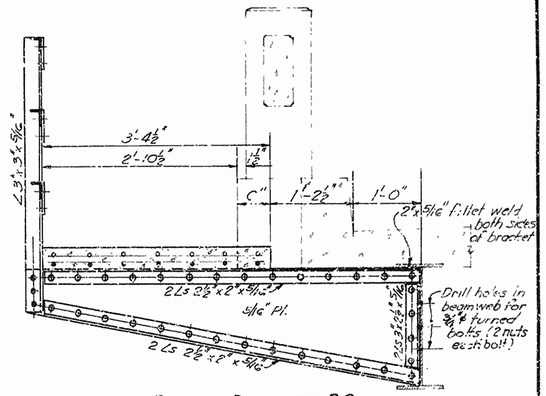


ELEVATION

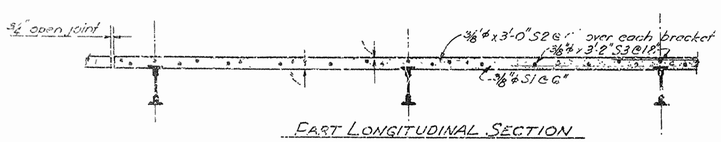




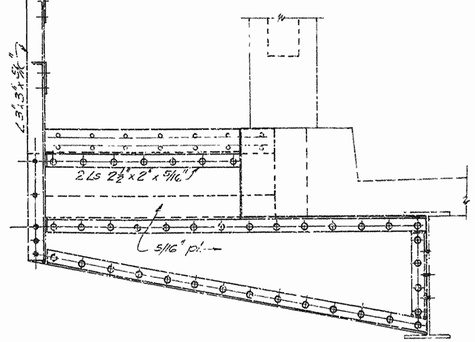
DETAILS BRACKET B1
Scale: 1"=1'-0"



DETAILS BRACKET B2
Scale: 1"=1'-0"



PART LONGITUDINAL SECTION



SECTION A-A - BRACKET B3
Details not shown same as B2
Scale: 1"=1'-0"

General Notes:
Rivets 3/4" ϕ. Open holes 13/16" ϕ except 15/16" ϕ for 3/4" ϕ bolts.
Floor slab to be Class S Concrete.
Walks to be installed on both sides of roadway.
Live load 85#/ft for slab and brackets
For additional notes see Drwg. No. C642

DETAILS OF SIDEWALKS FOR EXISTING SPANS
BRIDGE OVER OUACHITA RIVER
CAMDEN, ARKANSAS
OUACHITA COUNTY
ROUTE 79 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: L.P.C. Date: 1-16-45
Traced By: L.P.C. Date: 1-18-45
Checked By: _____ Date: _____

Scale: 1/2 in. = 1 ft. except as noted

BRIDGE No. 2466 DRAWING No. C645

H.G. Garver
PRINCIPAL HIGHWAY ENGINEER (BRIDGES)