FED. DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET No	TOTAL SHEETS
6.	ARK.	W.P.G.M.423A	1936	1.	20

STATE OF ARKANSAS

STATE HIGHWAY DEPARTMENT

PLAN OF PROPOSED BRIDGE
OVER ST. LOUIS-SANFRANCISCO RAILWAY AT MAPLE STREET-FAYETTEVILLE
WASHINGTON COUNTY

JOB Nº 9154

U.S. PUBLIC WORKS GRADE CROSSING PROJECT No. W.P.G.M. 423-A

INDEX OF SHEETS

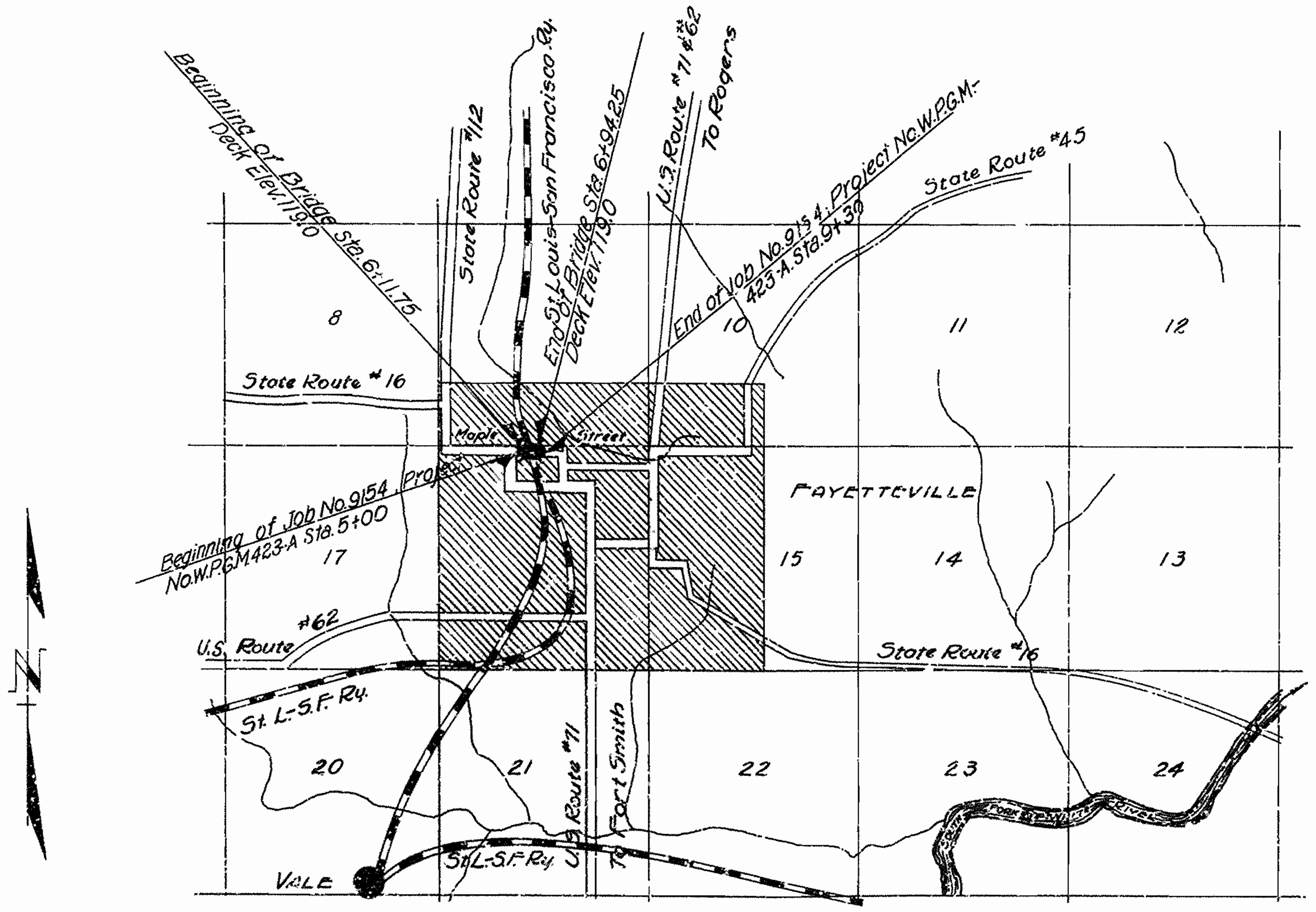
SPECIAL PROVISIONS

DATE	DESCRIPTION	NO. SHEET
	Employment Centers For Labor.	1.
	Required Special Provisions Approved 12-30-35	16.
	Beginning and Prosecution of Work.	1.
	Extra and Force Account Work.	1.
	Wages of Labor.	1.
	Drop Inlets	2
	All Material Furnished by Contractor.	1.
	Physical Characteristics of Aggregate	4
11-25-33.	Course Aggregate in Two Sizes	
11-1-34	Stock Piling Aggregate.	
	Cement	
9-20-34	Consistency of Mix	1.
11-6-33.	Volume of Material Per Batch.	1.
4-18-35	Checking Scales	1
11-10-34	Central Mixing Plant.	1.
7-19-35.	Handfinishing.	1.
3-23-35	Curing.	1.
11-19-35	Rolling Shoulders.	1.
12-9-33	Reinforcing Steel For Pavements	2
	Bronze Project Marker Plates and Bronze State Bridge Name Plates.	1.
1-7-36	Amending Section 91.62 of Pamphlet N	1.
	Paint For Traffic Stripe	1.
2-18-35	Removing Concrete Sidewalks and Driveways.	1
	Removing Existing Bridge.	1.
	Removal and Disposal of Asphalt Pavement	1.
10-31-35.	Removing Concrete Curb and Gutter.	1.
4-19-34.	Portland Cement Concrete Sidewalk.	1.
3-8-34.	Concrete Curb.	1.
3-1-34.	Adjusting Manholes to Grade.	2.
12-9-35.	Removing Cement Rubble Retaining Wall.	1.
1-31-36	Revision of Arts 58.2 and 58.3	1.
12-21-35.	Construction over Railroad (St. Louis-San Francisco Ry. Co.)	1.
	Electrical Lighting System	2.
1-9-36.	Amending Section 91.64 of Pamphlet N	2.
	Bituminous Felt and Copper.	1.
1-0-36	Amending Section 91.56(a) of Pamplet N	1

Specifications approved by Chief, Bureau of Public Roads. September 28, 1926, and adopted by State Highway Commission May 30, 1925 with revisions and Special Provisions as follows:

PAMPHLETS

A.	Revised	March 1, 1931	Approved	June 13, 1931
H	Revised	March 1, 1931	Approved	June 13, 1931
J.	Revised	Nov. 1, 1931	Approved	Nov. 21, 1932
K	Revised	Dec. 1, 1931	Approved	Nov. 21, 1932
L	Revised	July 8, 1935	Approved	—
M	Revised	March 1, 1931	Approved	June 13, 1931
N.	Revised	Oct. 1, 1933	Approved	—



LAYOUT

Scale: 1" = ½ Mile

LENGTH OF PROJECT =	430'-0" = .080 MILES
LENGTH OF BRIDGE =	82'-6" = 0.015 MILES
LENGTH OF EMBANKMENT =	347'-6" = .065 MILES
LENGTH OF JOB =	430'-0" = .081 MILES

WORK TO BE DONE BY CONTRACT

QUANTITIES

ITEM NO.	ITEM	QUANTITY	UNIT
SP & 12	Unclassified Excavation.	409	Cu.Yds.
12	Solid Rock Excavation.	435	Cu.Yds.
13	Dry Excavation For Structures.	204	Cu.Yds.
13	Solid Rock Excavation For Structures.	455	Cu.Yds.
S.P.& 47	Portland Cement Concrete Pavement (7" Uniform Thickness)	1237	Sq.Yds
S.P.& 48	Reinforcing Steel For Pavements (Type 2)	4607	Lbs.
55	Reinforcing Steel.	2510	Lbs.
S.P.& 58	Cement Rubble Masonry	18	Cu.Yds.
60	18" Reinforced Concrete Pipe	93	Lin.Ft.
65	Sodding.	16	Squares
S.P.& 91	Class "A" Concrete For Bridges.	194.7	Cu.Yds.
S.P.& 91	Class "S" Concrete For Bridges.	264.4	Cu.Yds
92	Reinforcing Steel For Bridges.	67,539	Lbs.
S.P.& 94	Concrete Railing For Bridges.	178	Lin.Ft.
S.P.	Electrical Lighting System	Complete	Lump Sum
S.P.	Removal of Existing Bridge	Complete	Lump Sum
S.P.	Bronze State Bridge Name Plates. (Type "A")	2	Each
S.P.	Bronze Project Marker Plates.	2	Each
S.P.	Concrete Curb	679	Lin.Ft.
S.P.	Removal and Disposal of Asphalt Pavement	871	Sq.Yds.
S.P.	Removing Concrete Curb and Gutter.	507	Lin.Ft.
S.P.	Removing Concrete Walk	960	Sq.Ft.
S.P.	Portland Cement Concrete Sidewalk	2949	Sq.Ft.
S.P.	Adjusting Manholes to Grade.	1	Each
S.P.	Bituminous Felt and Copper.	2700	Lbs.
S.P.	Drop Inlets	4	Each.

WORK TO BE DONE BY RAILWAY CO.

Adjust Telephone and Telegraph Lines.

Rev. Quant. Reinf. Steel. HB 2-19-36

APPROVED
[redacted]
COMMISSIONER - STATE LANDS, HIGHWAYS AND IMPROVEMENTS

APPROVED
[redacted]
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL
[redacted]
DISTRICT ENGINEER - U. S. BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL
[redacted]
CHIEF ENGINEER - U. S. BUREAU OF PUBLIC ROADS

APPROVED
[redacted]
DIRECTOR - U. S. BUREAU OF PUBLIC ROADS

N. B. Garver
BRIDGE ENGINEER

BRIDGE No.1940

DRAWING No. 4254

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	W.P.G.M.-23A	1936	2	23
STATE JOB NO. 9154					

PORTLAND CEMENT CONCRETE SIDEWALK

STATION	STATION	RIGHT OR LEFT	CONCRETE SQ. FT
5+00	5+55	Left	261.00
5+77.5	6+12.25	Left	150.375
5+00	5+74.5	Right	352.00
5+96.8	6+22.25	Right	122.625
6+83.75	8+66	Left	895.25
6+93.75	9+28	Right	1157.25
Total			2948.5
		Use	2949

SCHEDULE OF BRIDGE QUANTITIES

ITEM / UNIT OF BRIDGE	ITEM No.13 DRY EXCAVATION FOR STRUCTURES	ITEM No.13 SOLID ROCK EXCAVATION FOR STRUCTURES	ITEM SP#191 CLASS "A" CONCRETE FOR BRIDGES	ITEM SP#191 CLASS "S" CONCRETE FOR BRIDGES	ITEM No.92 REINFORCING STEEL FOR BRIDGES	ITEM SP#194 CONCRETE RAILING FOR BRIDGES	ITEM No.S.P. ELETRICAL LIGHTING SYSTEM	ITEM No.S.P. BRONZE STATE BRIDGE NAME PLATES (TYPE "A")	ITEM No.S.P. REMOVAL OF EXISTING BRIDGE	ITEM No.S.P. BITUMINOUS FELT AND COPPER
	Cu. Yds.	Cu. Yds.	Cu. Yds.	Cu. Yds.	Lbs.	Lin. Ft.	Lump Sum	Each	Lump Sum	Lbs.
69'-0" Arch Span				264.4	38889	178				2700
Abutment No.1	118	259	105.3		10131			1		
Abutment No.2	86	196	89.4		8619			1		
Total	204	455	194.7	264.4	57639	178	Complete	2	Complete	2700

REMOVING CONCRETE CURB & GUTTER

STATION	STATION	RIGHT OR LEFT	LIN. FT.
5+00	5+33	Left	33
5+00	5+73	Right	73
7+17	9+29.5	Left	227
7+34	8+63.0	Right	129
7+85	9+30	Right	45
Total			507

REMOVAL AND DISPOSAL OF ASPHALT PAVEMENT

STATION	STATION	SQ. YDS.
5+00	6+09	280
6+02	9+30	591
Total		871

PORTLAND CEMENT CONCRETE PAVEMENT

STATION	STATION	LENGTH	PORTLAND CEMENT CONCRETE PAV'T (7" Uniform Thickness) NORMAL FOR 31' PAV'T SQ. YDS.	NORMAL FOR 24' PAV'T SQ. YDS.	ADDITIONAL FOR TRANSITION SQ. YDS.	ADDITIONAL FOR INTERSECTION SQ. YDS.	ADDITIONAL FOR BRIDGE APP. SLAB SQ. YDS.	TOTAL SQ. YDS.	REINFORCING STEEL FOR PAVEMENT (Type 2) NORMAL FOR 31' PAV'T LBS.	NORMAL FOR 24' PAV'T LBS.	ADDITIONAL FOR TRANSITION LBS	ADDITIONAL FOR INTERSECTION LBS.	ADDITIONAL FOR BRIDGE APP. SLAB LBS.	TOTAL LBS.	REINFORCING STEEL (BARS) LBS.
5+00	5+50	50.00		138.89	16.67			155.56		555.33	73.51			628.84	
5+50	5+97.25	47.25	162.75			10.96		173.71	686.67			48.33		735.20	
5+97.25	6+12.25	15.00					69.63	69.63							1255.07
6+83.75	7+08.75	15.00					69.63	69.63							1255.07
7+08.75	9+30.00	221.25	762.08			6.03		768.11	3216.27			26.59		3242.86	
Total			924.83	138.89	16.67	16.99	139.25	1236.64	3903.14	555.33	73.51	74.92		4606.90	2510.14
							Use	1237					Use	4607	

SUMMARY OF ROADWAY QUANTITIES

ITEM No.	ITEM	QUANTITY	UNIT
12	Solid Rock Excavation	433	Cu. Yds.
S.P.#12	Unclassified Excavation	409	Cu. Yds.
S.P.#47	Portland Cement Conc. Pav't. 7" Uniform Thickness	12.37	Sq. Yds.
S.P.#48	Reinforcing Steel for Pavements (Type 2)	4607	Lbs.
55	Reinforcing Steel	2510	Lbs.
S.P.#58	Cement Rubble Masonry	18	Cu. Yds.
60	18" Reinforced Concrete Pipe	93	Lin. Ft.
65	Sodding	16	Squares
S.P.	Concrete Curb	679	Lin. Ft.
S.P.	Removal and Disposal of Asphalt Pavement	871	Sq. Yds.
S.P.	Removing Concrete Curb & Gutter	507	Lin. Ft.
S.P.	Removing Concrete Walk	960	Sq. Ft.
S.P.	Portland Cement Conc. Sidewalks	2949	Sq. Ft.
S.P.	Adjusting Manholes to Grade	1	Each
S.P.	Drop Inlets	4	Each
S.P.	Bronze Project Marker Plates	2	Each

REMOVING CONCRETE WALK

STATION	STATION	RIGHT OR LEFT	SQ. FT.
5+00	5+37	Left	148
5+28	5+32	Right	22
7+17	8+66	Left	730
8+23	8+27	Left	40
9+20.5	9+24.5	Left	20
Total			960

EARTHWORK

STATION	STATION	UNCLASSIFIED EXCAVATION NORMAL		BACK-SLOPING RAILROAD CUT CU. YDS.	BACK-SLOPING RAILROAD CUT SOLID ROCK EXCAVATION CU. YDS.
5+00	9+30	332		* 77	433
Total		332		* 77	433

* Waste

STRUCTURES

STATION	DESCRIPTION	REINFORCED CONCRETE 18" PIPE LIN. FT.	CORNER DROP INLET (TYPE "D")	SIDE DROP INLET (TYPE "B")	REMARKS
5+53	Const. 18" R.C. Pipe on Left	6			Connect with drop inlet
5+53	Const. (Type "D") Cor. Drop Inlet		1		
5+61	Const. 18" R.C. Pipe	36			Connect with drop inlet Lt. & Rt.
5+68	Const. (Type "D") Cor. Drop Inlet		1		
5+68	Const. 18" R.C. Pipe on Rt.	6			Connect with drop inlet
7+02	Const. (Type "B") Side Drop Inlet			1	H. dist. = 3'-4"
7+10	Const. 18" R.C. Pipe	36			Connect with drop inlet Lt. & Rt.
7+17	Const. (Type "B") Side Drop Inlet			1	H. dist. = 3'-6"
7+17	Const. 18" R.C. Pipe on Rt.	9			Connect with drop inlet
Total		93	2	2	

CONCRETE CURB

STATION	STATION	RIGHT LIN. FT.	LEFT LIN. FT.	TOTAL LIN. FT.
5+00	5+56		59.0	59.0
* 5+76	6+12.25		37.65	37.65
5+00	5+76	77.40		77.40
* 5+96	6+22.25	29.25		29.25
** 6+83.75	9+30		245.25	245.25
** 6+93.75	3+30	230.25		230.25
Total		336.90	341.90	678.80
			Use	679

Modified curb Sta 5+13 to Sta 7+33 on left and Sta 8+65 to Sta 8+87 on right.
* 9" integral curb.
** Curb to be worked from 9" integral curb at bridge to 6" integral curb 15 feet from bridge.

REMOVING CEMENT RUBBLE RETAINING WALL

STATION	STATION	DESCRIPTION
7+17	7+44	Remove 2'x1'x27' Rubble Masonry Wall on Lt.

CEMENT RUBBLE MASONRY

STATION	STATION	DESCRIPTION	CU. YDS.
7+44	8+23	Const. Cement Rubble Masonry Wall on Lt.	12.73
8+27	8+58	Const. Cement Rubble Masonry Wall on Lt.	4.99
Total			17.72
		Use	18

ADJUSTING MAN HOLES

STATION	DESCRIPTION	NUMBER
5+84	Adjust Man Hole to New Grade	1

BRONZE PROJECT MARKER PLATES

STATION	TYPE	NUMBER
5+00	AL-1	1
9+30	AR-1	1
Total		2

SODDING

STATION	STATION	SQUARES
5+55	6+11.75	3.98
6+94.75	9+30	11.94
Total		15.92
	Use	16

Quan. Reinf. Steel - 48-2-19-36

N. B. Garrett
BRIDGE ENGINEER

SCHEDULE OF QUANTITIES
VIADUCT OVER ST. LOUIS-SAN FRANCISCO RY.
WEST MAPLE STREET FAYETTEVILLE, ARK.
WASHINGTON COUNTY
[redacted]

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: B.D. Date: 1-16-36
Traced By: B.D. Date: 1-16-36
Checked By: Date:
Scale: in. = ft.

BRIDGE NO. 1940 DRAWING NO. 4255

Code No. 11

U.S.W.P.G.C.
W.P.G.M. 423-A 1936 3 20
91.54

Root 15" Maple

Sta. 5+53 Const. 18"XG" Rein. Conc. Pipe on Left (Connect Pipe with Drop Inlet)

Sta. 5+53 Const (Type "D") Corner Drop Inlet on Left

Spike in Power Pole

Sta. 5+84 Adjust Man Hole to New Grade

Miss. IRENE GALOWAY

Mr. BOYD

Driveway

Stone Boundary

Sidewalk

Curb

WEST MAPLE STREET

24" Man Hole

Rubble Wall

ARKANSAS AVENUE

T.K.N.

PAUL MARINONI

H.M.HOSFORD & C.E.PROLL

Sta. 5+00 Install F.A.P. Marker Plate A-L 1 in curb on right

EQUATION
Sta. 6+53 on Highway =
Sta. 352+71.51 Ry. Mile
(Last 352-30

Sta. 7+10 Const 18"X36" Rein. Conc. Pipe (Connect Pipe with Drop Inlets on Lt & Rt)

Sta. 7+11 Const (Type "S") Side Drop Inlet on Right

Sta. 7+17 Const 18"X9" Rein. Conc Pipe on Right (Connect Pipe with Drop Inlet)

Sta. 7+02 Const (Type "S") Side Drop Inlet on Left

BEGINNING OF BRIDGE Sta. 6+93.75

END OF BRIDGE Sta. 7+08.75

BRIDGE APPROACH SLAB To be worked "C" from 31'-4" at Sta. 6+93.75 to 31'-0" at Sta. 7+08.75

P.J. WILSON AND SON

Sta. 7+87 - Sta. 8+CC Retain 3 - 24" Maple Trees on Left

Stone Monument

Bridge Approach Slab

Sta. 7+10

WILSON AVE

Mr. WILSON

Brick Wall

Rubble

WEST MAPLE STREET

YANDES CENTER AVENUE

Sta. 9+30 Install F.A.P. Marker Plate A-R 1 in curb on right

Mr. HOWARD

OWNER UNKNOWN

OWNER UNKNOWN

M.C.KICK

NORTH WEST AVE

Spike in Power Pole

Back of Curb

Spike in Stub Pole

N

CONCRETE CURB

Sta. 5+00 - Sta. 5+56	Const. Conc. Curb on Left	55.0 Lin. Ft.
*Sta. 5+75 - Sta. 6+12.25	Const. Conc. Curb on Left	37.45 Lin. Ft.
Sta. 5+62 - Sta. 5+76	Const. Conc. Curb on Right	7.74 Lin. Ft.
*Sta. 5+96 - Sta. 6+22.25	Const. Conc. Curb on Right	28.25 Lin. Ft.
*Sta. 6+83.75 - Sta. 9+30	Const. Conc. Curb on Left	245.25 Lin. Ft.
*Sta. 6+93.75 - Sta. 9+30	Const. Conc. Curb on Right	230.25 Lin. Ft.

Modified Curb Sta. 7+13 to Sta 7+33 on Left and Sta 8+65 - Sta 8+87 on Right
* 9" Integral Curb
* Curb to be worked from 9" Integral Curb at Bridge to 6" Integral Curb 15' from Bridge.

Sta. 5+00 - Sta. 5+33 Remove Conc. Curb & Gutter on Left 33 Lin. Ft.
Sta. 5+00 - Sta. 5+73 Remove Conc. Curb & Gutter on Right 73 Lin. Ft.
Sta. 7+17 - Sta. 9+29.5 Remove Conc. Curb & Gutter on Left 227 Lin. Ft.
Sta 7+34 - Sta. 8+63 Remove Conc. Curb & Gutter on Right 129 Lin. Ft.
Sta 8+85 - Sta 9+30 Remove Conc Curb & Gutter on Right 45 Lin. Ft.

Sta. 5+00 - Sta. 5+55 Const. Conc. sidewalk on Left Conc. 261.00 Sq. Ft.
Sta 5+77.5 - Sta. 6+12.25 Const. Conc Sidewalk on Left Conc. 160.375 Sq. Ft.
Sta 5+00 - Sta. 5+74.5 Const. Conc. Sidewalk on Right Conc. 352.00 Sq. Ft.
Sta. 5+96.8 - Sta. 6+22.25 Const. Conc. Sidewalk on Right Conc. 122.625 Sq. Ft.
Sta 6+83.75 - Sta 8+66 Const. Conc. Sidewalk on Left Conc. 395.25 Sq. Ft.
Sta. 6+93.75 - Sta 9+28 Const. Conc. Sidewalk on Right Conc. 1157.25 Sq. Ft.

Sta. 5+00 - Sta. 6+03 Remove Existing Pavement 280 Sq. Yds.
Sta. 6+92 - Sta. 9+30 Remove Existing Pavement 591 Sq. Yds.

Sta. 7+44 - Sta 8+23 Remove & Replace Cement Rubble Masonry Wall on Left 12.73 Cu. Yds.
Sta 8+27 - Sta 8+58 Remove & Replace Cement Rubble Masonry Wall on Left 4.99 Cu. Yds.

Sta. 5+55 - Sta. 6+11.75 Sodding 3.98 Squares
Sta. 6+34.75 - Sta 9+30 Sodding 11.94 Squares

Sta 7+17 - Sta 7+44 Remove 2'X1'X2'7" Rubble Masonry Wall on Left

STATION 5+00 BEGINNING OF JOB No. 9154
U.S.W.P.G.C. Proj. No. W.P.G.M. 423-A

STATION 9+30 END OF JOB No. 9154
U.S.W.P.G.C. Proj. No. W.P.G.M. 423-A

PROFILE

Station 5+00 - Station 9+30
Unclassified Excav. (Nor.) = 392 Cu. Yds.
Fill 10.7 % = 39.2 " "
Backsloping Rwy. Cut (Waste)
Unclassified Excav. 77 Cu. Yds. } TOTAL 810 Cu. Yds. Waste
Solid Rock Excav. 733 " } To Be Wasted within 500'.

Sta. 5+53 Const. 18"XG" Rein. Conc. Pipe on Left (Connect Pipe with Drop Inlet)

Sta. 5+84 Adjust Man Hole to New Grade.

Sta. 5+53 Const. 18"XG" RC Pipe on Left (Connect Pipe with Drop Inlet)

Sta. 5+53 Const. (Type "D") Corner Drop Inlet on Left

Sta. 6+61 Const. 18"X36" Rein. Conc. Pipe (Connect Pipe with Drop Inlets on Lt & Rt)

Sta. 5+68 Const. (Type "D") Corner Drop Inlet on Right

Sta. 5+68 Const. 18"XG" Rein. Conc. Pipe on Right (Connect Pipe with Drop Inlet)

Sta. 7+02 Const (Type "S") Side Drop Inlet H dist = 5'-4" Left

Sta. 7+10 Const 18"X36" Rein. Conc. Pipe (Connect Pipe with Drop Inlets on Lt & Rt)

Sta. 7+11 Const. (Type "S") Side Drop Inlet on Right H dist = 3'-6"

Sta. 7+17 Const. 18"X9" Rein. Conc. Pipe on Right (Connect Pipe with Drop Inlet)

EL. 116.16

EL. 116.03

MANHOLE

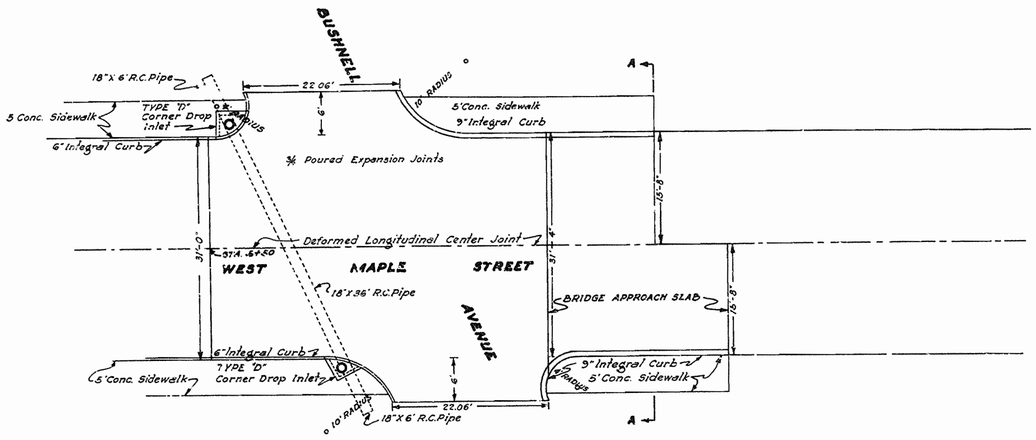
B.M. Top Concrete Mail Box Post
N.E. Corner LAFAYETTE ST. & NORTH WEST AVE.
Assumed Elevation 100.00

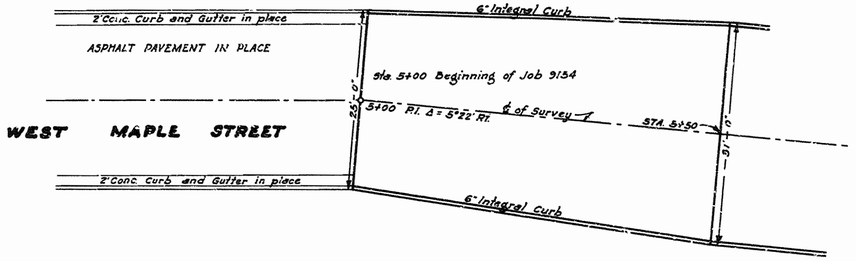
PLATE 1-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO. CHGO.-N.Y.

PRINTED IN U.S.A.

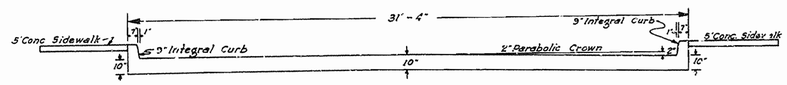
Drawing No. 4256

FED.ROAD DIST. No.	STATE	U.S.W.R.G.C. Proj. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	W.P.G.M. 423-A	1936	4	20
JOB No.		9154			



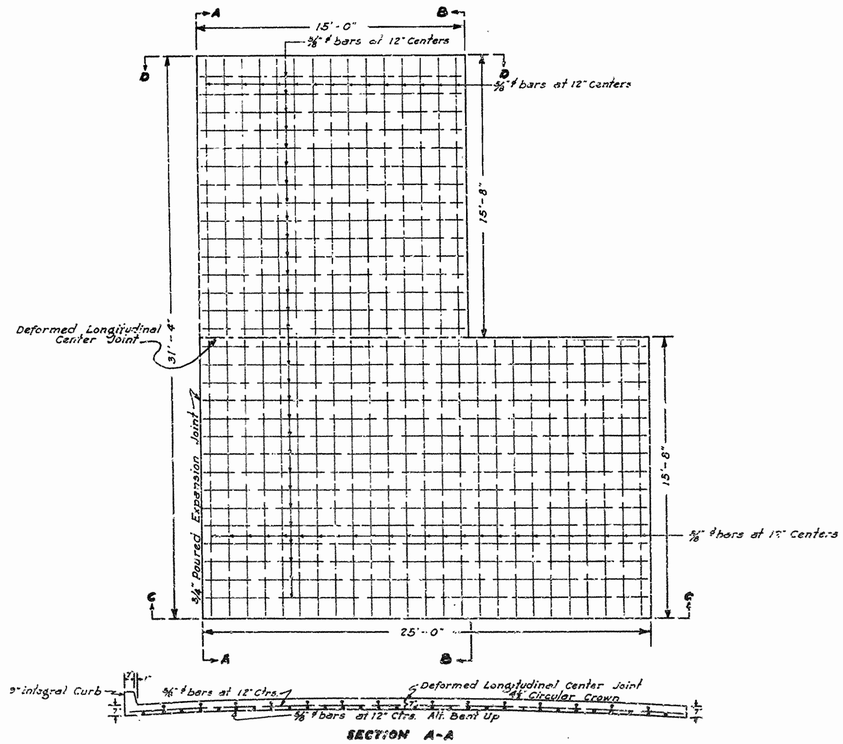


DETAILS OF TRANSITION AT BEGINNING OF JOB STA 5+00 TO STA 5+50



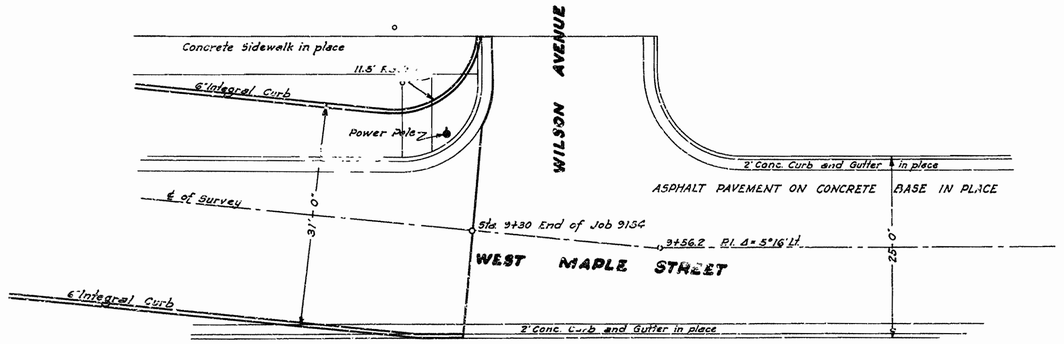
SECTION A-A

DETAILS OF BUSHNELL AVENUE INTERSECTION AND CONNECTION WITH BRIDGE APPROACH SLAB

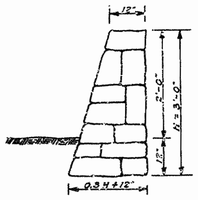


SECTION A-A

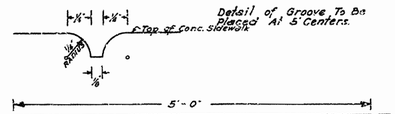
DETAILS OF BRIDGE APPROACH SLAB



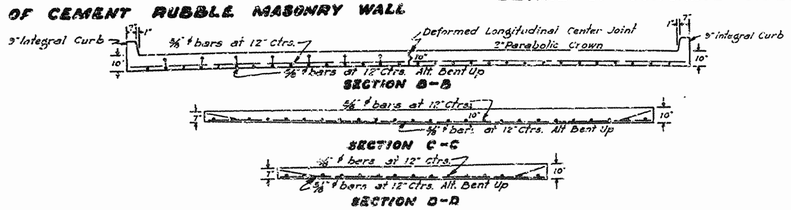
DETAILS OF INTERSECTION STA 9+30



DETAIL OF CEMENT RUBBLE MASONRY WALL



DETAIL OF CONCRETE SIDEWALK



DETAILS OF BRIDGE APPROACH SLAB

DRAWING No. 4257

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	W.P.G.M. 423.1	1936	5	20.
STATE JOB NO. 918-1					

GENERAL NOTES:

Bar lists and bending diagrams of reinforcing steel must be submitted and approved before fabrication is begun.

Copper water stops shall be completely fabricated in the shop. See Special Provision Bituminous felt and reinforcing steel in handrailing above top of curb are to be included in the contract unit price bid per lineal foot of handrailing.

Copper water stop and bituminous felt below top of curb shall be paid for at the contract unit price bid for "Bituminous Felt and Copper."

For details of "Slab and Handrail" see drawing No. 4259
For details of "69'-0" Arch Span" see drawing No. 4260
For details of "Abutments" see drawing No. 4261

SPECIAL NOTES:

Rock excavation to be done to neat lines of concrete footings Care shall be exercised to avoid shattering of rock faces by excessive blasting.

The Contractor must submit details of falsework to the Arkansas State Highway Department for approval before construction is started.

Contractor must furnish to the Railroad Company an indemnity bond in the amount of $ 15,000.00

Arch centering shall be lowered before girders and fascia walls are poured.

Accurate sloping of railroad cut as shown on the "Layout" shall be completed before construction of the bridge is begun and shall be paid for at either "Unclassified Excavation" or "Solid Rock Excavation" depending upon the material encountered.

Floor slab shall be poured in such a way as to load the arch rings symmetrically.

The Contractor shall remove the existing timber structure according to the special provision for "Removing Existing Bridge"

Removal of public utilities, where encountered, shall not be at the Contractors expense.

Detail plans of electrical fixtures, especially reflectors, shall be submitted and approved before construction of handrailing is begun. See Special Prov.

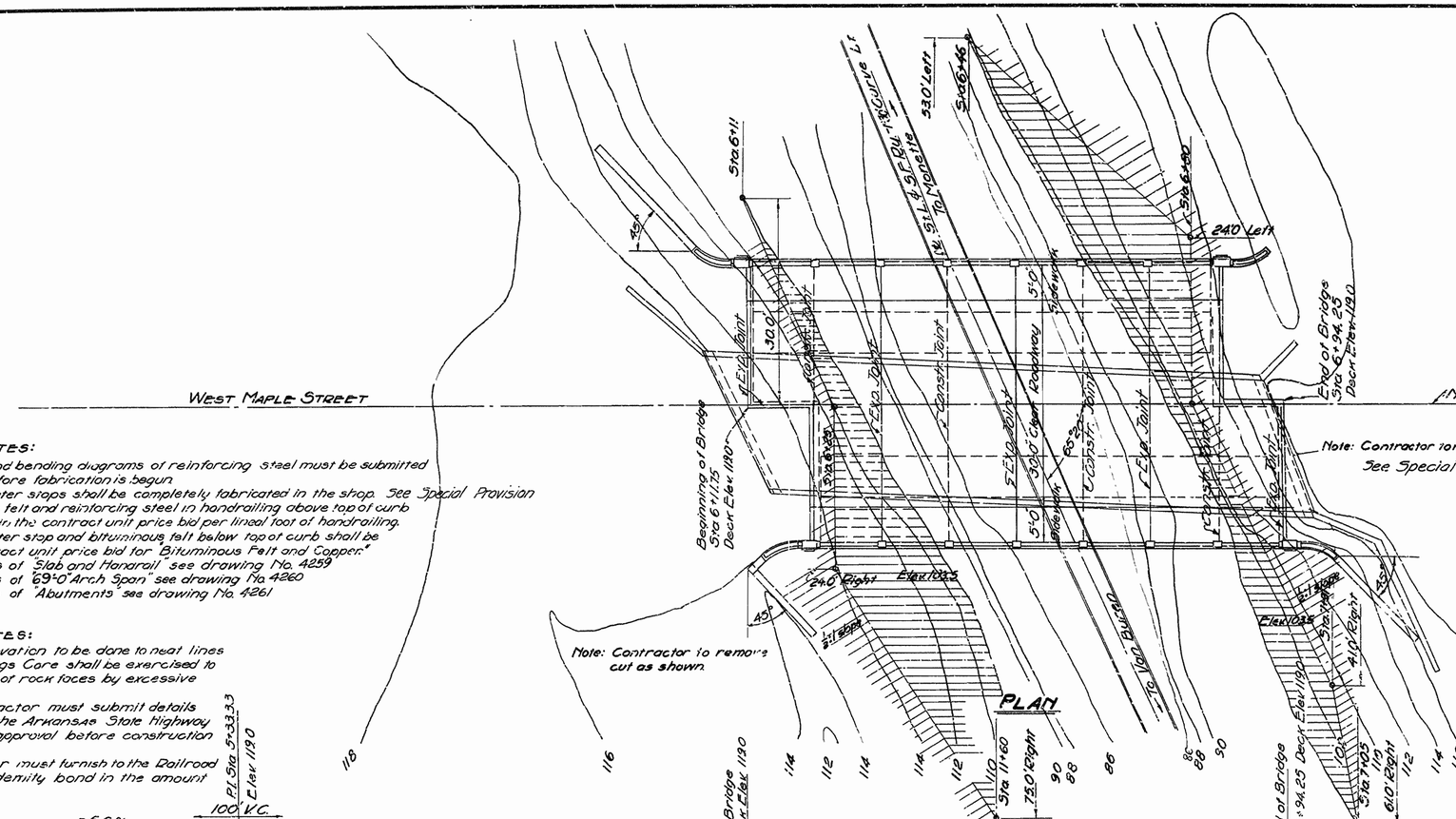
Expansion joints and construction joints are to be constructed as shown on the plans.

See Special Provision amending paragraph (a).

Machine Mixing, Section 91.56 Pamphlet "N"

See Special Provisions amending Section 91.62 Curing, and Section 91.64, Finishing:- Pamphlet "N".

Four-inch traffic stripes shall be neatly painted to divide the traffic lanes. These traffic stripes shall be applied only to dry surfaces after the curing period is over. See special Provision for "Paint For Traffic Stripe." Payment for this work will be considered subsidiary work pertaining to the Classes of Concrete on which the stripe is painted, and will not constitute a separate pay item.



QUANTITIES

ITEM No.	ITEM	QUANTITY	UNIT
13	Dry Excavation for Structures	204	Cu. Yds.
13	Solid Rock Excavation for Structures	455	Cu. Yds.
S.P.&91	Class A Concrete for Bridges	194.7	Cu. Yds.
S.P.&91	Class S Concrete for Bridges	264.4	Cu. Yds.
92	Reinforcing Steel for Bridges	57,639	Lbs.
94	Concrete Railing for Bridges	178	Lin. Ft.
S.P.	Electrical Lighting System	Complete	Lump Sum
S.P.	Bronze State Bridge Name Plates	2	Each
S.P.	Removing Existing Bridge	Complete	Lump Sum
S.P.	Bituminous Felt and Copper	2,700	Lbs.

Quant. Permit Stock No. 2-19-36

LAYOUT OF VIADUCT
OVER ST. LOUIS-SAN FRANCISCO RY.
WEST MAPLE STREET FAYETTEVILLE ARK
WASHINGTON COUNTY

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: HB Date: 12-2-35
Traced By: BD Date: 12-3-35
Checked By: Date:

Scale: 1 in. = 10 ft.

BRIDGE NO. 1940

DRAWING NO. 4258

N. B. Garver
BRIDGE ENGINEER

5 6 7

PRINTED ON HOLMES PRINTS CO. LITTLE ROCK

198

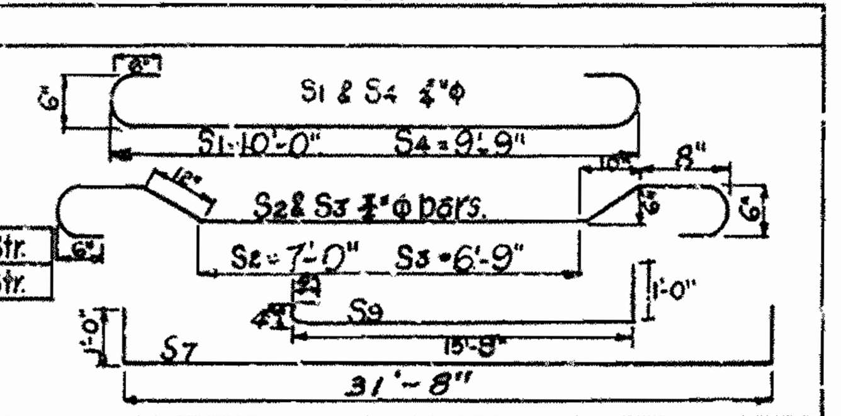
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	ARK.	WPGM 423A	1936	6	20.
STATE JOB NO. 9154					

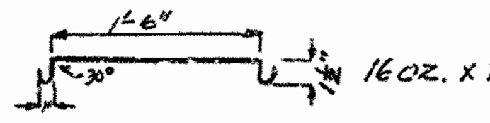
GENERAL NOTES

All concrete in handrail to be class "S", except maximum size aggregate to be 5/8".
All exposed corners to have 3/4" chamfer unless otherwise noted.
Concrete in arch ribs, beams, cols, and slab to be Class "S" concrete.
All concrete in end curtain walls and footings to be Class "A".
All dimensions relating to reinforcing steel are to center of bars.
Reinforcing steel to be deformed bars of structural or intermediate grade. Shop lists and bending diagrams must be submitted and approved before fabrication is begun.
Bituminous felt and tar paper to be paid for at unit price bid for reinforcing steel.
Specifications.-Arkansas standard Road & Bridge specification Adopted May 30th, 1925 and revised

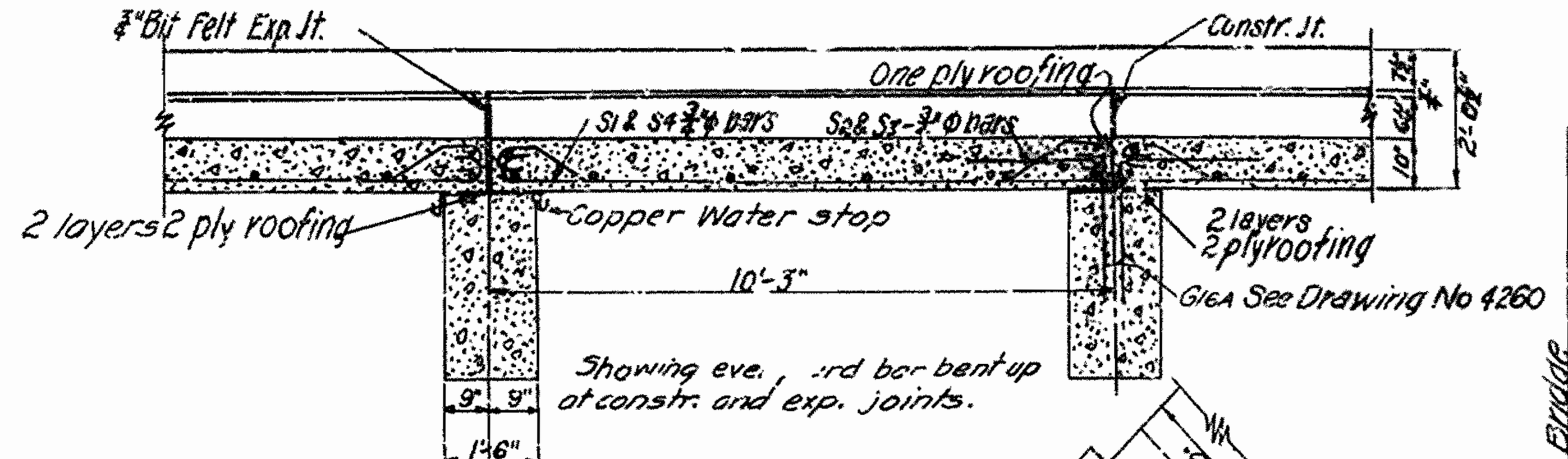
BAR LIST

MARK	SIZE	LENGTH	
S1	3/4"φ	11'-6"	
S4	3/4"φ	11'-3"	
S2	3/4"φ	11'-10"	
S3	3/4"φ	11'-7"	
S5	3/8"φ	10'-0"	Str.
S6	3/8"φ	4'-5"	Str.
S7	1/2"φ	33'-8"	
S9	1/2"φ	17'-2"	

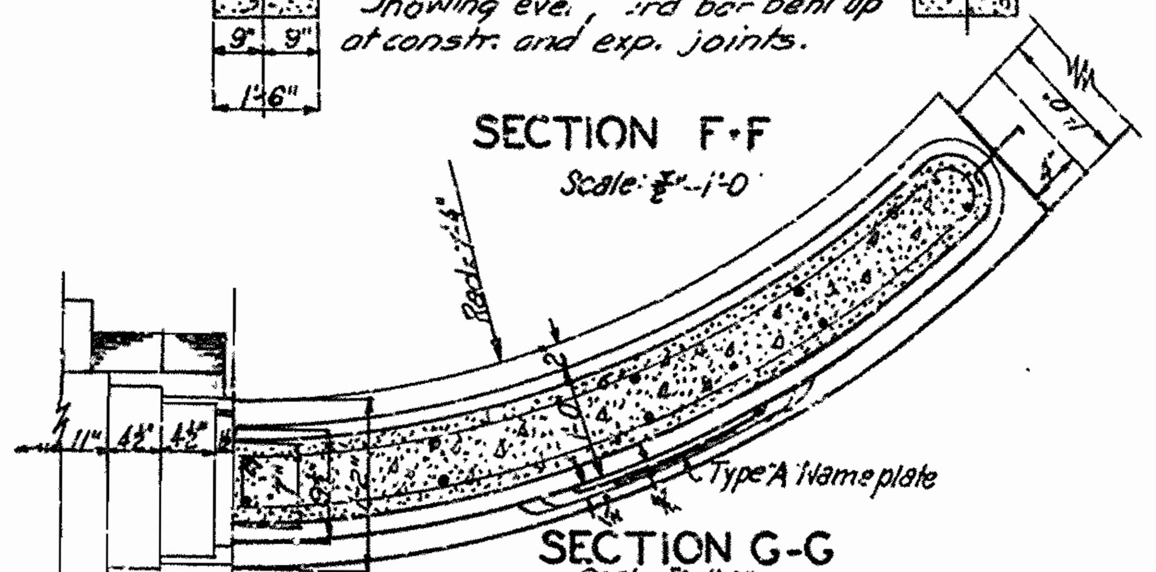




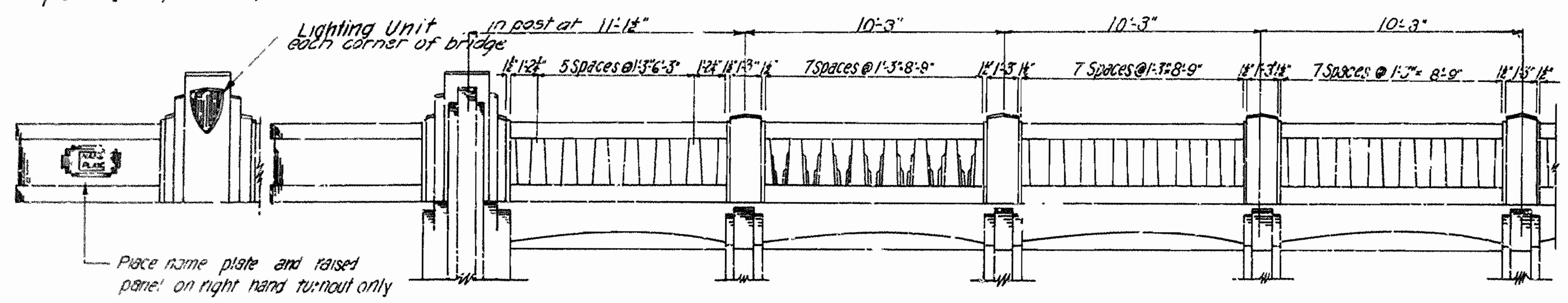
DETAIL OF COPPER WATER STOP
Scale: 3/4"=1'-0"



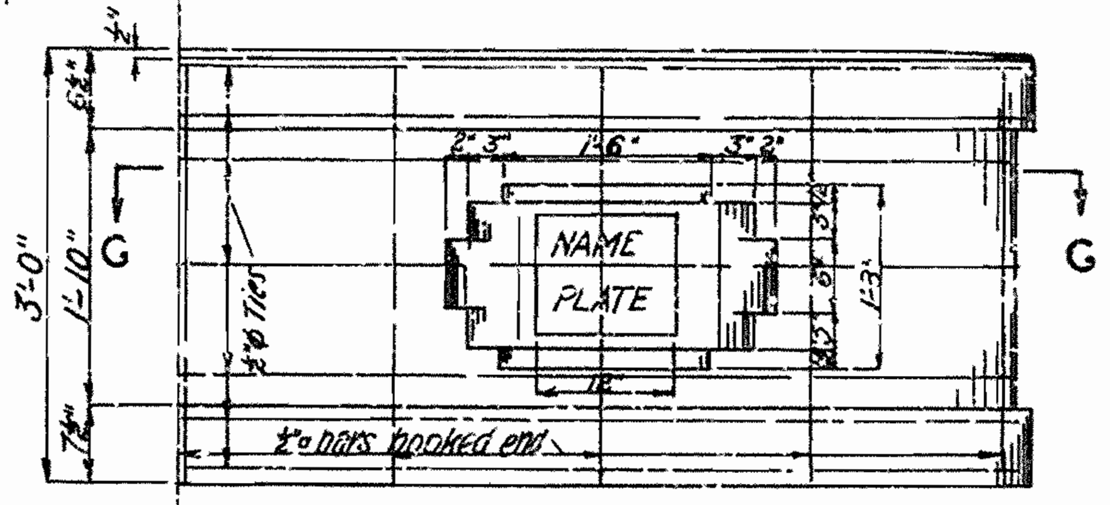
SECTION F-F
Scale: 3/4"=1'-0"



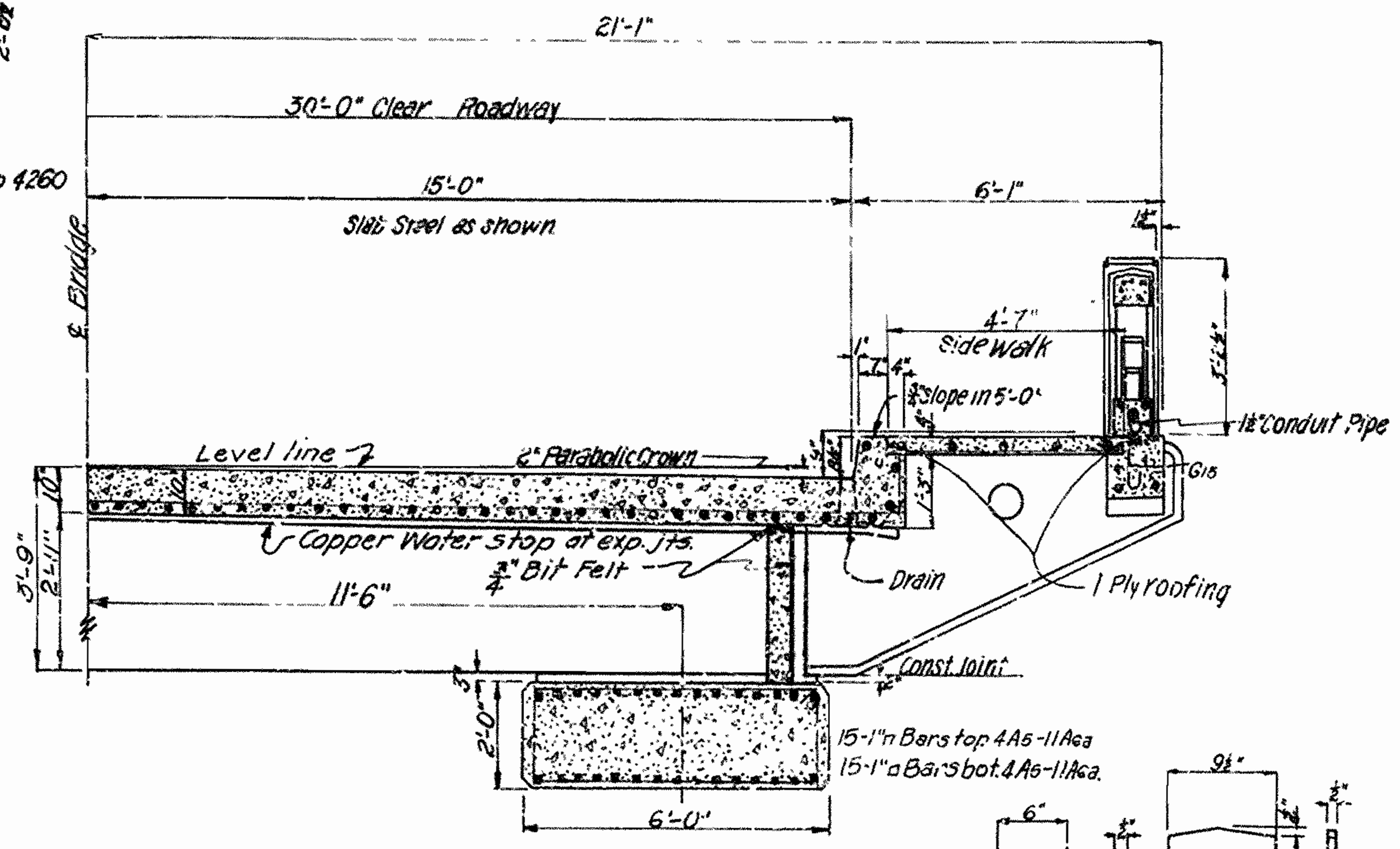
SECTION G-G
Scale: 3/4"=1'-0"



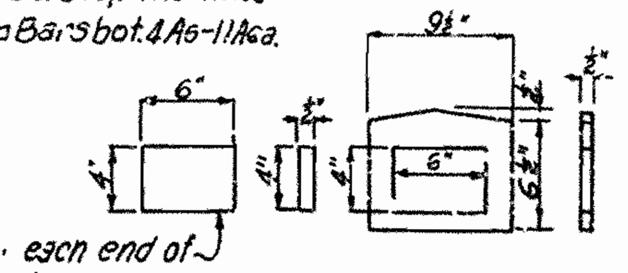
SIDE ELEVATION



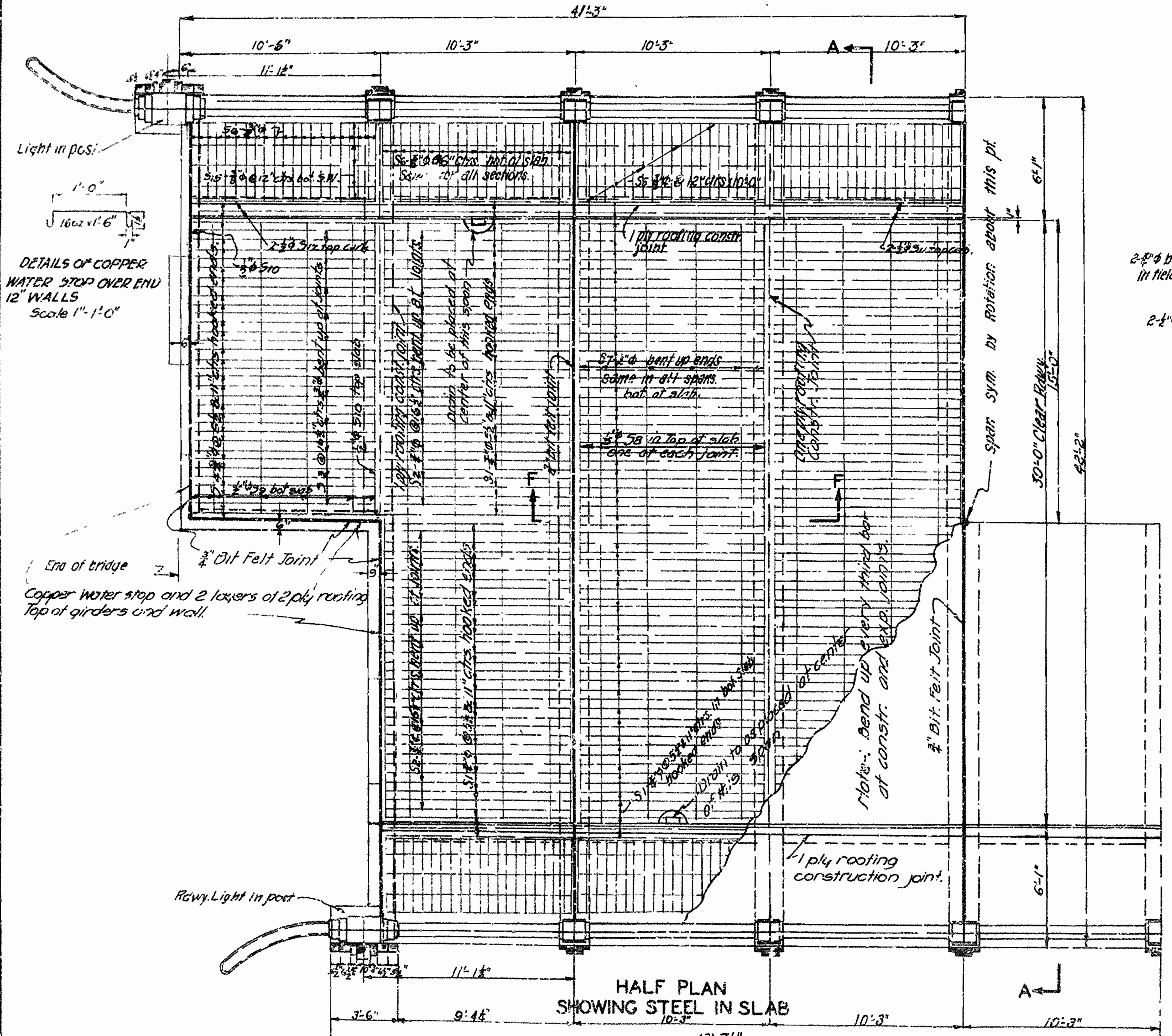
FRONT ELEVATION OF TURNOUT
Scale: 3/4"=1'-0"



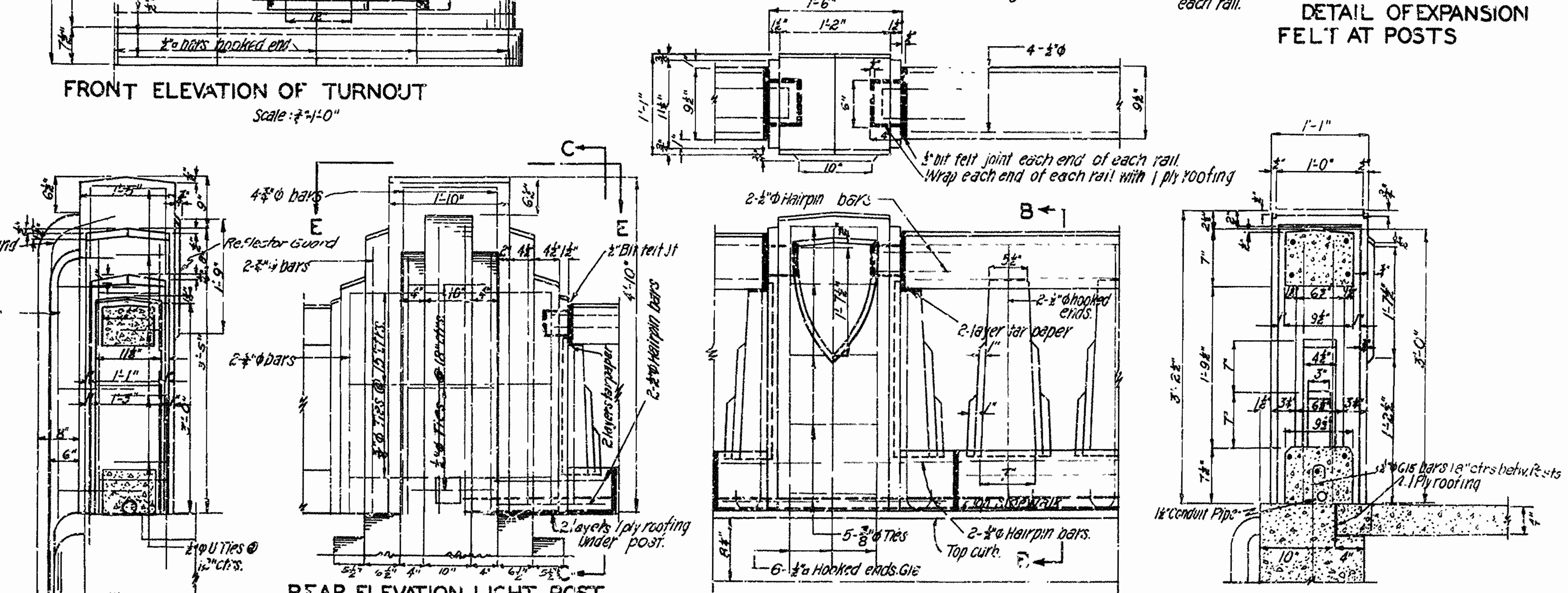
HALF SECTION A-A
Scale: 3/8"=1'-0"



DETAIL OF EXPANSION FELT AT POSTS



HALF PLAN SHOWING STEEL IN SLAB

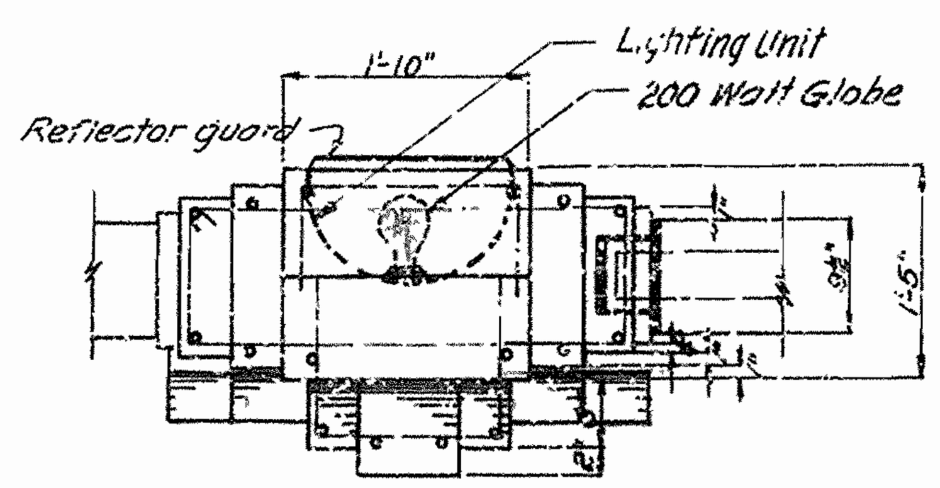


SECTION C-C
Scale: 3/4"=1'-0"

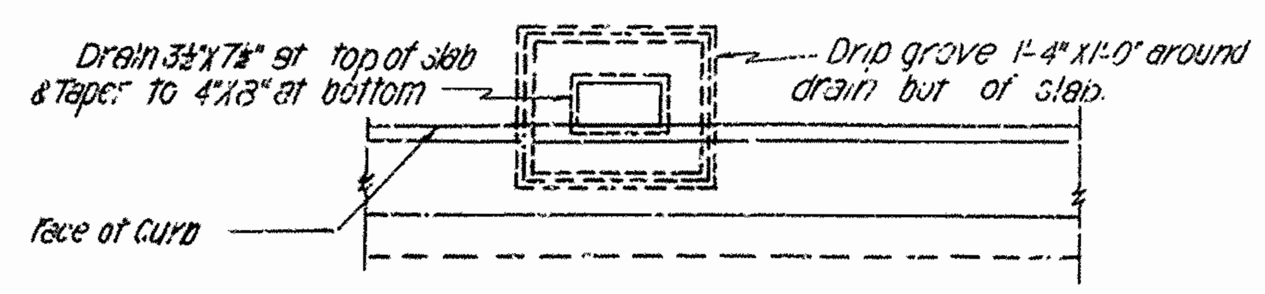
REAR ELEVATION LIGHT POST
Scale: 3/4"=1'-0"

INSIDE ELEVATION OF HANDRAIL
Scale: 1 1/2"=1'-0"

SECTION B-B
Scale: 1"=1'-0"



TOP VIEW E-E
Scale: 3/4"=1'-0"



DETAIL OF DRAIN
Scale 3/4"=1'-0"

For details of sidewalk grooves to be made at 5'-1 1/2" centers, See Drawing No. 4257

Note: Do not chamfer handrailing except as shown

Revised Added G16A Bars-4-2-19-36
Arch Rib Reinforcing Bars-1-10-36

DETAILS OF SLAB & HANDRAIL
VIADUCT OVER ST. LOUIS-SAN FRANCISCO RY.
WEST MAPLE ST. FAYETTEVILLE ARK.
WASHINGTON CO.
[redacted]

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

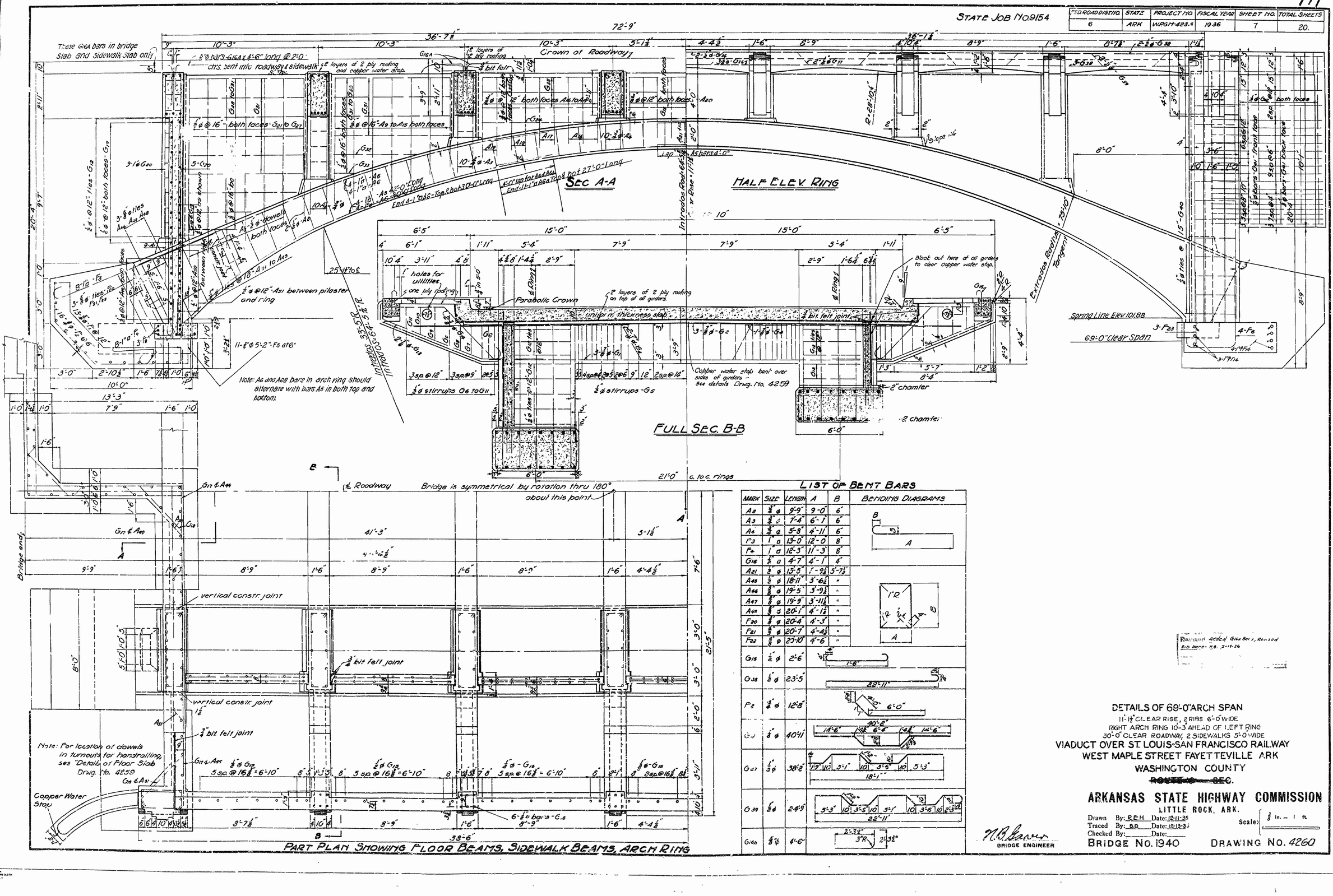
Drawn By: L.A.M.C. Date: 12-6-35
Traced By: C.B.Y. Date: 12-9-35
Checked By: Date:
Scale: 3/4 in. = 1'-0" ft.

N. B. Garver
BRIDGE ENGINEER

BRIDGE NO. 1940 DRAWING NO. 4259

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM-423.4	1936	7	20.

STATE JOB NO. 9154



LIST OF BENT BARS

MARK	SIZE	LENGTH	A	B	BENDING DIAGRAMS
A2	3/8" ø	9'-9"	9'-0"	6"	
A3	3/8" ø	7'-4"	6'-1"	6"	
A4	3/8" ø	5'-8"	4'-11"	6"	
F3	1" ø	13'-0"	12'-0"	8"	
F4	1" ø	12'-3"	11'-3"	8"	
G16	3/8" ø	4'-7"	4'-1"	4"	
A21	3/8" ø	15'-5"	1'-9 1/2"	5'-7 1/2"	
A48	1/2" ø	18'-11"	3'-6 1/2"	"	
A46	3/8" ø	19'-5"	3'-9 1/2"	"	
A47	3/8" ø	19'-9"	3'-11 1/2"	"	
A49	3/8" ø	20'-1"	4'-1 1/2"	"	
F20	3/8" ø	20'-4"	4'-3"	"	
F21	3/8" ø	20'-7"	4'-4 1/2"	"	
F22	3/8" ø	23'-10"	4'-6"	"	
G15	1/2" ø	2'-6"			
G38	1/2" ø	23'-5"			
F2	3/4" ø	12'-8"			
G2	3/8" ø	40'-11"			
G27	1" ø	38'-2"			
G39	1/2" ø	24'-9"			
G16A	3/8" ø	4'-6"			

Revision Added G16A Bars, Revised Bill Bars - H.B. 2-11-36

DETAILS OF 69'-0" ARCH SPAN
11'-1 1/2" CLEAR RISE, 2 RIBS 6'-0" WIDE
RIGHT ARCH RING 10'-3" AHEAD OF LEFT RING
30'-0" CLEAR ROADWAY, 2 SIDEWALKS 5'-0" WIDE
VIADUCT OVER ST. LOUIS-SAN FRANCISCO RAILWAY
WEST MAPLE STREET FAYETTEVILLE ARK.
WASHINGTON COUNTY
~~ROUTE 16 SEC.~~

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: R.E.H. Date: 12-11-35
Traced By: B.R. Date: 12-13-35
Checked By: Date:
Scale: 1/4 in. = 1 ft.

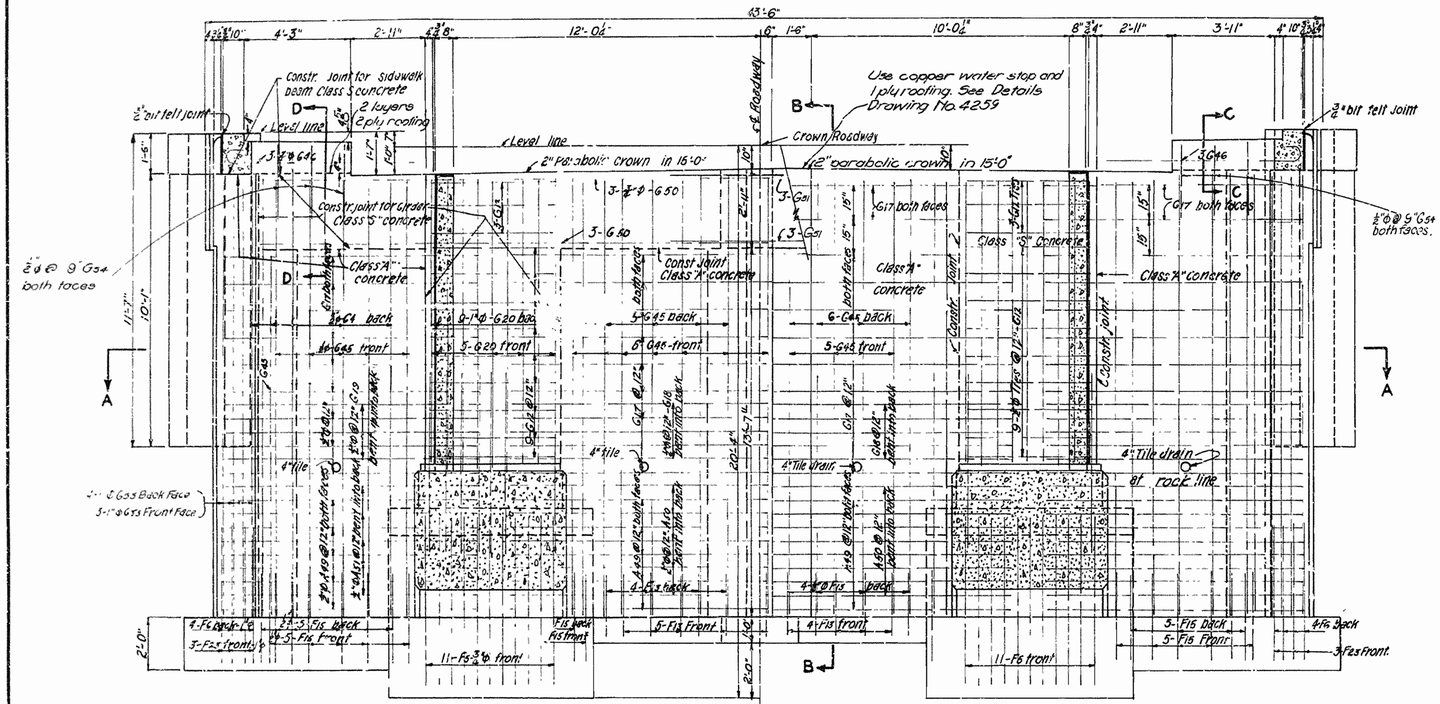
N. B. Garver
BRIDGE ENGINEER

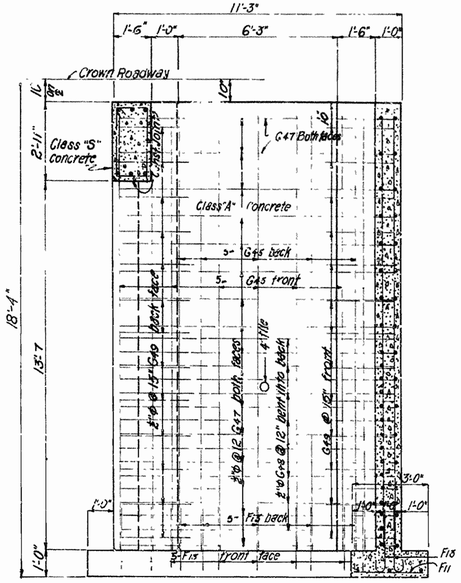
BRIDGE NO. 1940 DRAWING NO. 4260

PRINTED ON BLUEPRINT TRACING CLOTH K & E CO. N.Y.

200

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 423A	1936	8	20.
STATE JOB NO. 9154					

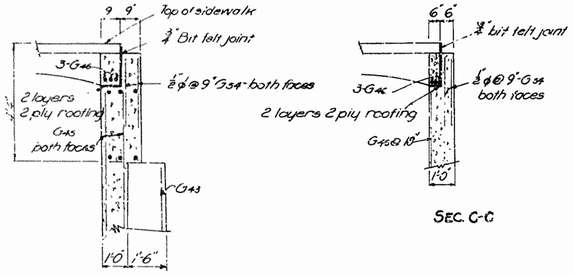


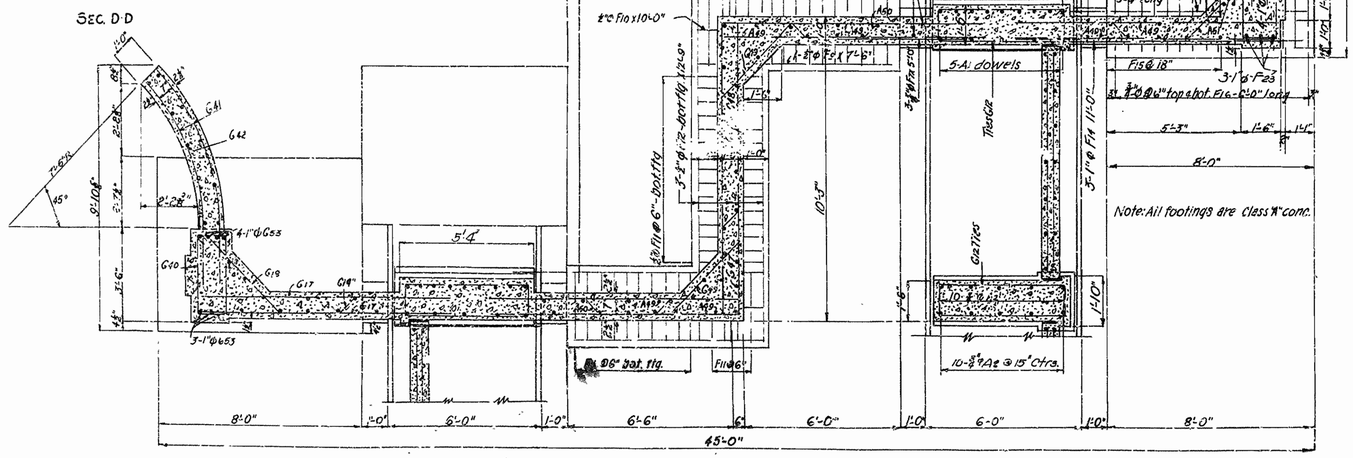


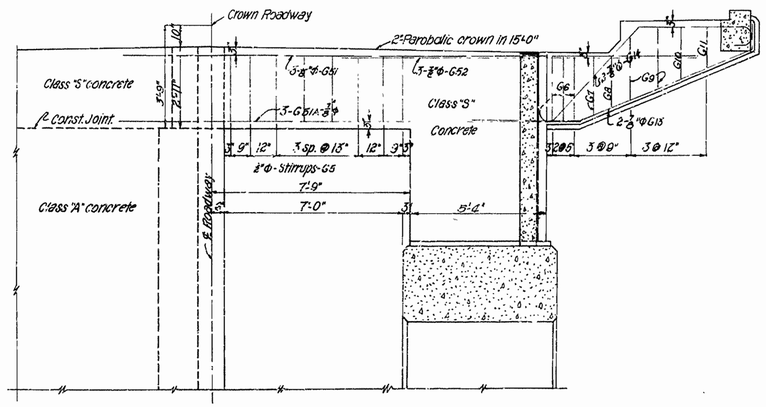
Note: Tile drains are to be included in the contract unit price bid for Class "A" concrete.

BAR LIST

MARK	SIZE	LENGTH	A	B	BENDING DIAGRAM
F6	1"Φ	9'-3"			
F13	½"Φ	2'-10"	4"	2'-4"	
F23	1"Φ	6'-0"	8"	5'-0"	
G46	⅜"Φ	8'-3"	6"	7'-6"	
G5	½"Φ	7'-1"	1'-1½"	2'-6½"	
G6	½"Φ	7'-6"	1'-1½"	2'-4"	
G7	½"Φ	7'-1"	1'-1½"	2'-1½"	
G8	½"Φ	6'-5"	1'-1½"	1'-9½"	
G9	½"Φ	7'-4"	1'-1½"	2'-3"	
G10	½"Φ	6'-8"	1'-1½"	1'-11"	
G11	½"Φ	5'-10"	1'-1½"	1'-6"	
G12	½"Φ	12'-9"	1'-1½"	4'-11½"	
G40	½"Φ	9'-3"	1'-3½"	3'-0½"	
A50	½"Φ	10'-6"			
G18	½"Φ	10'-6			
G48	½"Φ	11'-3"			
A51	½"Φ	10'-7"			
G19	½"Φ	10'-7"			
G13	⅝"Φ	12'-4"			
G14	⅝"Φ	11'-4"			
G41	½"Φ	8'-0"			







DETAILS OF ABUTMENTS
VIADUCT OVER ST. LOUIS-SAN FRANCISCO RY.
WEST MAPLE ST. FAYETTEVILLE, ARK.
WASHINGTON CO.
ROUTE 16 SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: R.E.H. Date: 12-11-35
Traced By: C.B.Y. Date: 12-14-35
Checked By: _____ Date: _____
Scale: 3/8 in. = 1'-0" ft.

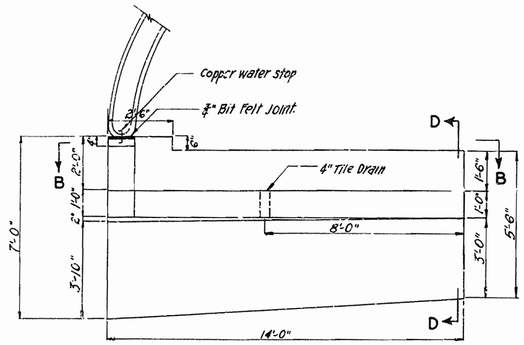
BRIDGE NO. 1940 DRAWING NO. 4261

N.B. Garver
BRIDGE ENGINEER

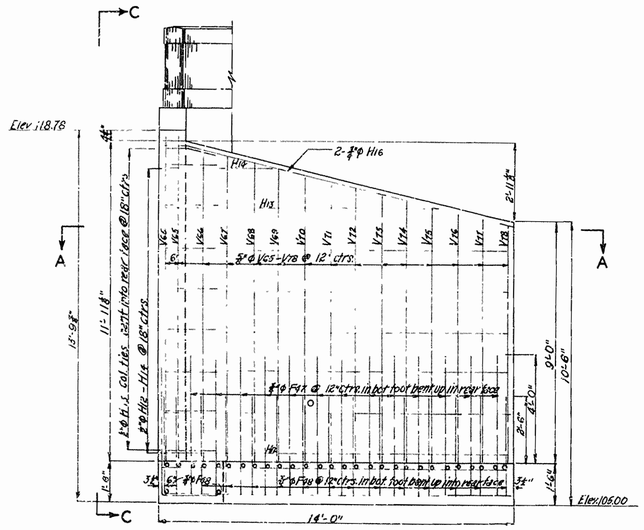
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	W.P.GM.423A	1936	9	20.
STATE JOB NO. 9154					

GENERAL NOTES

See Drawing No. 4263

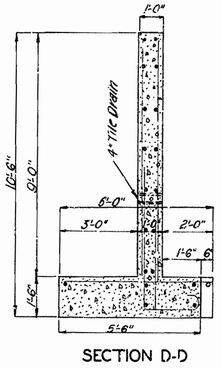


PLAN OF SOUTH WEST WALL

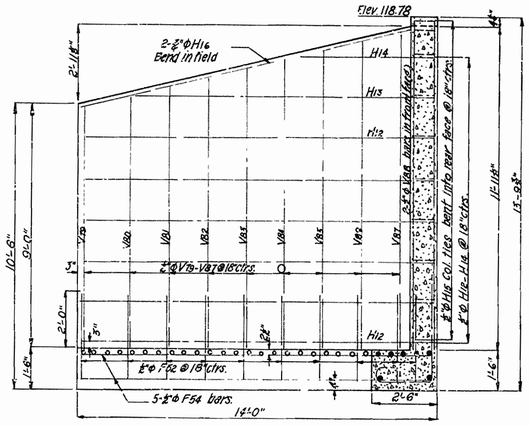


ELEVATION S.W. WALL

Showing Steel in Rear Face

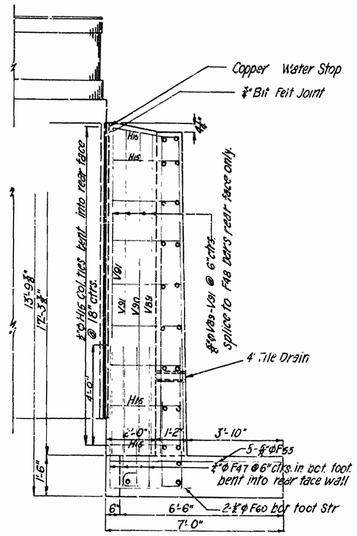


SECTION D-D



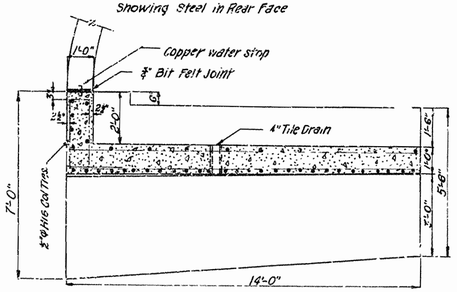
SECTION B-B

Showing Steel in Front face



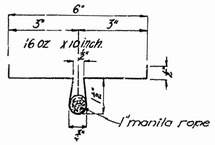
SECTION C-C

Showing Steel in End wall



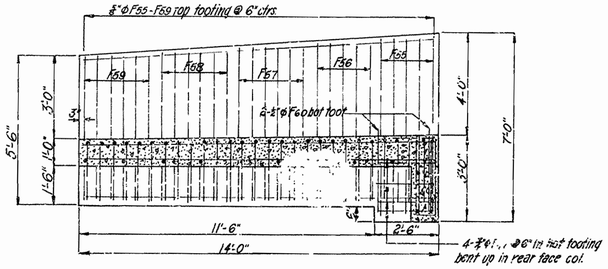
SECTION A-A

Showing Wall Steel



DETAILS OF COPPER WATER STOP

Scale: 4"= 1'-0"

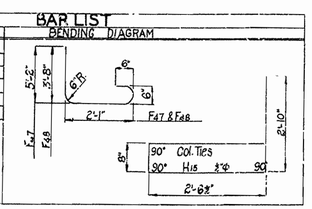


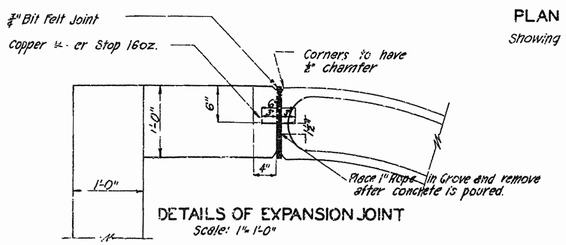
PLAN OF FOOTING

Showing steel in footing

BAR LIST

MARK	SIZE	LENGTH	BENDING DIAGRAM
F 47	¾"Φ	7'-10"	
F 48	¾"Φ	6'-4"	
H 16	¾"Φ	8'-7"	





DETAILS OF EXPANSION JOINT

Scale: 1"= 1'-0"

DETAILS OF SOUTH WEST RETAINING WALL
VIADUCT OVER ST. LOUIS-SAN FRANCISCO RWY.
WEST MAPLE ST. FAYETTEVILLE, ARK.
WASHINGTON CO.
ROUTE 16 SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: L.A.M.E. Date: 12-12-35
Traced By: C.P.Y. Date: 12-16-35
Checked By: _____ Date: _____

Scale: ⅜" in. = 1'-0" ft.

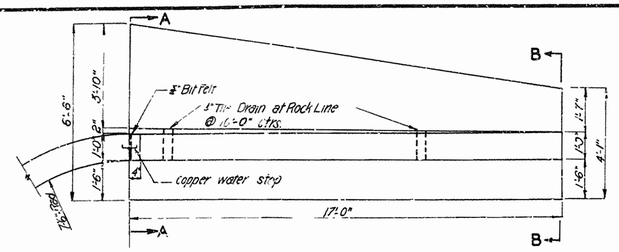
N.B. Garver
BRIDGE ENGINEER

BRIDGE NO. 1940

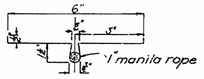
DRAWING NO. 4262

202

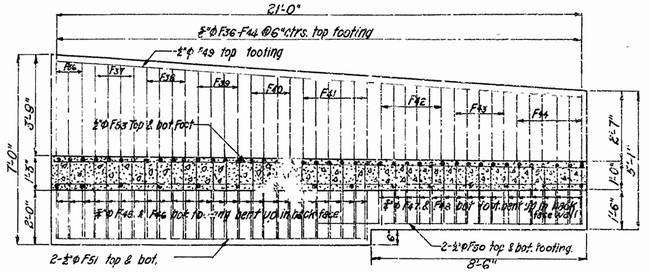
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	ARK.	WPGM423A	1936	10.	20.
STATE JOB NO. 915 A					



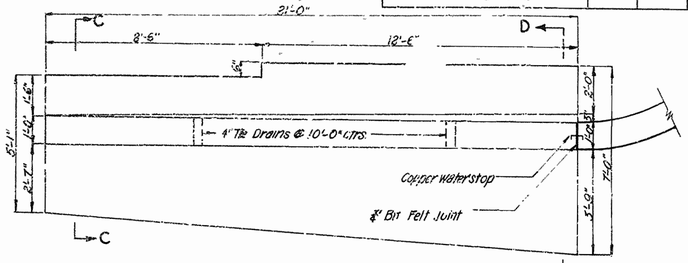
PLAN SOUTH EAST WALL



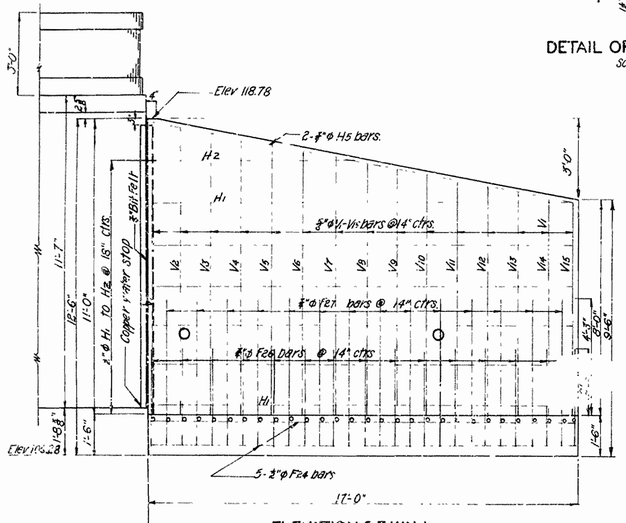
DETAIL OF COPPER WATER STOP
Scale: 4"=1'-0"



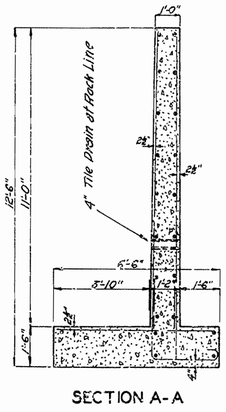
FOOTING PLAN N.W. WALL
Showing Footing Steel



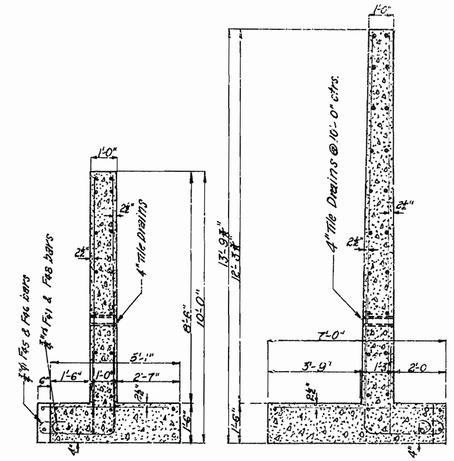
PLAN OF NORTH WEST WALL



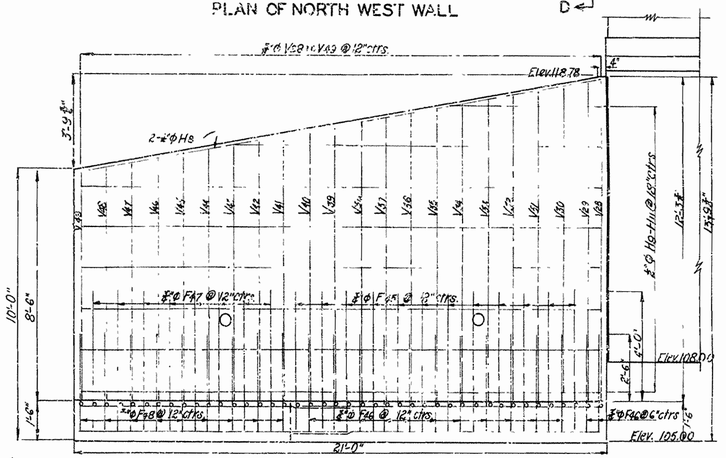
ELEVATION S.E. WALL.
Showing Steel in Rear Face



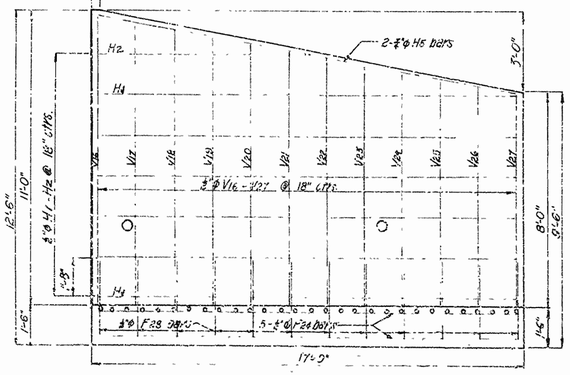
SECTION A-A



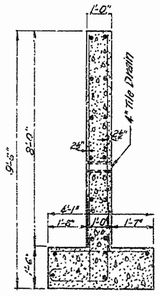
SECTION D-D
N.W. WALL



ELEVATION NORTH WEST WALL
Showing Steel in rear face



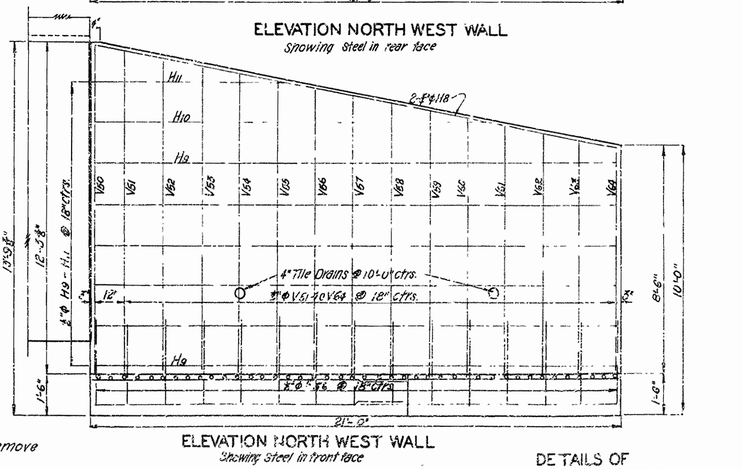
ELEVATION S.E. WALL
Showing Steel in Rear Face



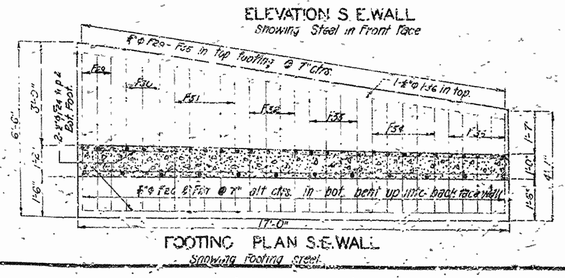
SECTION B-B

GENERAL NOTES

All exposed corners to have ¾" chamfer unless otherwise noted.
All concrete to be Class "A" and shall be poured in the dry.
All dimensions relating to reinforcing steel are to center of bars.
Bituminus expansion felt and copper water stop to be paid for at the unit price bid for reinforcing steel.
Four inch tile drain to be included in price bid for Class "A" concrete.
Reinforcing steel to be deformed bars of structural or intermediate grade. Shop lists and bending diagrams must be submitted and approved before fabrication is begun.
Specifications:--Arkansas Standard Road and Bridge Specifications. Adopted May 30th, 1925 and revised



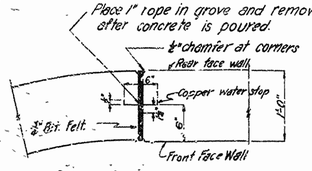
ELEVATION NORTH WEST WALL
Showing Steel in front face



FOOTING PLAN S.E. WALL
Showing footing steel

BAR LIST

MARK	SIZE	LENGTH	BENDING DIAGRAM
F26	3"ϕ	6'-4"	
F27	3"ϕ	8'-1"	
F28	3"ϕ	9'-10"	
F46	4"ϕ	6'-6"	
F47	3"ϕ	7'-10"	
F48	3"ϕ	8'-7"	



DETAILS OF EXP. JOINT
Scale: 1½"=1'-0"

W. R. Brown
BRIDGE ENGINEER

DETAILS OF
SOUTH EAST & NORTH WEST RETAINING WALL
VIADUCT OVER ST. LOUIS-SAN FRANCISCO RY.

WEST MAPLE ST., FAYETTEVILLE, ARK
WASHINGTON CO.
ROUTE 16 SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: L.A.M.S. Date: 12-21-35
Traced By: C.B.Y. Date: 12-23-35
Checked By: Date:
Scale: ⅜ in. = 1'-0" ft.

BRIDGE NO. 1940 DRAWING NO. 4263