FED. DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
G	ARK.	FAGM-1A(1)	1938	1	44
JOB NO. 9169					

STATE OF ARKANSAS

STATE HIGHWAY COMMISSION

PLAN OF PROPOSED BRIDGE OVER ST. LOUIS-SAN FRANCISCO RY. ON LAFAYETTE STREET-FAYETTEVILLE

WASHINGTON COUNTY

FEDERAL AID GRADE CROSSING PROJECT NO. FAGM-1A (1)

JOB Nº 9169

INDEX OF SHEETS

SHEET NO	DRWG NO	DESCRIPTION
1	4841	Title Sheet
2	4842	Summary of Roadway & Bridge Quantities
3&4	4843&4844	Schedule of Roadway Quantities
5	4845	Layout of Viaduct-Bridge No. 1941
6&7	4846&4847	Details of 36'-0"-45'-0"-36'-0" Cont Reinf Concrete Slab Span
8&9	4848&4849	Details of Abutment No 1
10	4850	Details of Bents No 1&2
11&12	4851&4852	Details of Abutment No. 2
13	4853	Details of Sects. No. 1&2, Retg. Wall No. 1
14	4854	Details of Sects. No 3, Retg. Wall No. 1
15	4855	General Plan & Profile of Viaduct & Approaches
16	4856	Details Relative to Constuction - Ida Ave. Approach
17	4857	Details Relative to Construction - W. Lafayette St. Approach
18	4858	Details Relative to Construction - Greeg St. Approach
19	4859	Details Relative to Construction - N. West St. Approach
20	4860	Profile of Finished Grades - Showing Method of Superelevation on Ida Ave & W. Lafayette St.
21	4861	Profile of Finished Grades - Showing Method of Superelevation on Greeg St.
22	4862	Profile of Finished Grades on N. West St.
23	4863	Details of Special 7" Concrete Pavement on Ida Ave., Sidewalks, etc.
24	4864	Details of Approach Slabs, Typical Sections of Old Pavements, Cement Rubble Masonry Walls, Driveways, etc.
25	4865	Details of Special 7" Concrete Pavements on W. Lafayette & N West Streets, Driveways and Transition
26	4866	Details of Special 7" Concrete Pavements on Greeg St
27	4867	Special Details on Greeg St.
28	C.P.-7B	Details of Dowel Bar Assembly
29	4868	Details of Special Box Culvert
30	4869	Details of Special Drop Inlets No. 1 & 2
31	F.P.C.-1 Rev.	Standard Pipe Culvert and Headwalls
32	F.P.C.-9	Drop Inlets, Catch Basins, & Manholes
33	1688	Embank. Const at Bridge Ends and Backfills for Structures
34	1691	Basis for Computing Excavation for Structures
35	2387	Details of Project Markers, R/W Markers, and Bridge No. Plates
36	1886	Special Details of Sodding
37	4870	Cross Sections on Ida Ave.
38&39	4870a-b	Cross Sections on W. Lafayette St
40-43	4870c-f	Cross Sections on Greeg St.
44	4870g	Cross Sections on N. West St.

SPECIAL PROVISIONS

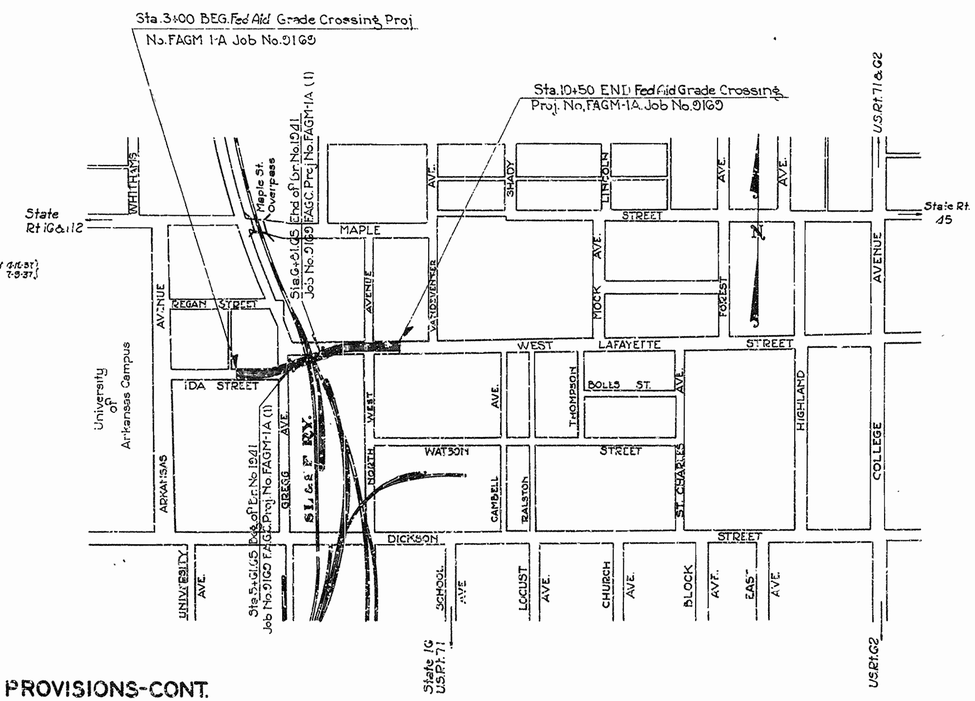
NO	ITEM	NO. SHEETS	DATE
	Required Special Provisions	12	{Sheets 1 to 9 & 12 Approved 4-16-37} {Sheets 10 & 11 Revised " 7-9-37}
8-3	Employment Centers for Labor	1	10-15-36
	Wages of Labor	1	4-10-36
	Partial Payments	1	9-15-36
7-2	Unemployment Compensation or Insurance	1	1-4-37
9-3	Special Freight Rates	1	11-18-37
104.6	Embankments Construction	1	2-15-37
	Embankment Material	3	6-8-36
	Insurance and Construction Over Railroad	3	2-10-36
701-3	Revisions of Article 701	2	11-26-37
701-2	Revisions of Articles 701.2 and 701.4	1	12-14-37
752-a	Curing	1	11-26-37
750-1	Physical Characteristics of Aggregates	4	
757-1	Central Mixing Plant	1	11-16-37
	Hand Finishing	1	5-22-36
926.2	Solid Sodding	2	8-11-37
	Removal and Disposal of Obstructions	1	5-22-36
	Removing and Relaying Cemented Flagstone Walk	1	[illegible]-36
	Removal and Stockpiling of Existing Bituminous Surface Course and Stone Base Course	1	6-8-36
	Removal and Disposal of Conc. Curb & Gutter	1	6-8-36
	Relaying Combination Concrete Curb & Gutter	1	6-8-36
1063-1	Removing and Resetting Hedge	1	6-8-36
1064-1	Removing and Resetting Shrubs	1	6-8-36
101-1	Clearing and Grubbing	1	6-10-36
	Cutting Back Building	1	6-8-36
	8" Perforated Corrugated Metal Pipe	1	6-8-36
850-1	Engineer's Field Office	1	8-22-36
805-1	Wrought Iron and Concrete Railing	2	6-8-36
701-7	Revision of Article 701-3	1	7-18-38

Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction, adopted June 30, 1936, with Special Provisions as listed, apply to this project.

Pamphlets
- Division I Part 1
- Division II Part 1
  - Part 7
  - Part 8a
  - Part 8b
  - Part 9
  - Part 10
- Division III
- Division IV

SPECIAL PROVISIONS-CONT.

NO.	ITEM	NO. SHEETS	DATE
852-1	Metal Bearing and Roadway Expansion Devices	1	9-4-36
853-1	Machine Mixing	1	9-9-36
850-2	Project Marker Plates and State Br. Name Plates	1	9-9-36
	Electrical Lighting System	2	
	Removal of Existing Bridge	1	6-8-38



LAYOUT

Scale: 1" = 300'

LENGTH OF PROJECT =	750 Feet	or	0.141 Miles
LENGTH OF BRIDGES =	120 Feet	or	0.022 Miles
LENGTH OF EMBANKMENT =	630 Feet	or	0.119 Miles
LENGTH OF JOB =	750 Feet	or	0.142 Miles

QUANTITIES

WORK TO BE DONE BY CONTRACT

ITEM NO.	ITEM	QUANTITY	UNIT
SP.101	Clearing	6	Tree
SP.101	Grubbing	6	Stump
102	Solid Rock Excavation	320	Cu. Yd
102	Unclassified Excavation	3064	" "
103	Dry Excavation for Structures	872	" "
103	Solid Rock Excavation for Structures	164	" "
107	Overhaul	48	Sta. Yd
SP.701	Portland Cement Concrete Pavement	4261.2	Sq. Yd
702	Reinforcing Steel for Pavements (Type 2)	17750	Lb
702	Reinforcing Steel for Pavements (Bars-Bridge Ends)	1400	"
SP.703	Lip Curb	933.5	Lin. Ft
SP.802	Class 'A' Concrete for Bridges	332	Cu. Yd
SP.802	Class 'S' Concrete for Bridges	263.7	" "
803	Reinforcing Steel	92660	Lb
SP.805	Concrete Railing	150	Lin. Ft
SP.805-1	Concrete and Wrought Iron Railing	236	" "
SP.852-1	Metal Bearing & Roadway Expansion Devices	3850	Lb
901	Class 'A' Concrete	554	Cu. Yd.
901	Class 'B' Concrete	2.5	" "
902	Reinforcing Steel	7750	Lb.
903	Dry Rubble Masonry	2	Cu. Yd.
904	Cement Rubble Masonry	25.5	" "
906	12" R.C. Pipe Culvert	8	Lin. Ft.
906	18" R.C. Pipe Culvert	265	" "
906	24" R.C. Pipe Culvert	156	" "
906	30" R.C. Pipe Culvert	104	" "
910	French Drains	78	" "
SP.913	Concrete Spillways	0.5	Cu. Yd
SP.916	Concrete Curb	1295	Lin. Ft
SP.917	Concrete Walks	640.4	Sq. Yd
918	Drop Inlets	8	Each
919	Manholes	1	"
920	Manhole Rings & Covers adjusted to Grade	5	"
SP.926	Solid Sodding	[illegible]	Square
S.P.950-2	State Bridge Name Plates (Type 'A')	2	Each
1002	Removal and Disposal of Concrete Pavement	168.5	Sq. Yd
1006	Removal and Disposal of Concrete Walks & Steps	545	" "
S.P.	Embankment Material	1130	Cu. Yd
S.P.	Cutting Back Building	1	Each
S.P.	8" Perforated C.M. Pipe	75	Lin. Ft
S.P.	Removing and Resetting Hedge	105	" "
S.P.	Removing and Resetting Shrubs	2	Each
S.P.	Removal and Disposal of Concrete Curb & Gutter	236.2	Lin. Ft
S.P.	Removal and Stockpiling of Existing Bituminous Surface Course and Stone Base Course	2569	Sq. Yd
S.P.	Project Marker Plates (Type AL-1)	2	Each
S.P.	Removing and Relaying Cemented Flagstone Walk	206	Sq. Yd.
S.P.	Relaying Combination Curb & Gutter	348	Lin. Ft
S.P.	Electrical Lighting System	Complete	Lump Sum
S.P.	Removal of Existing Bridge	"	" "

WORK TO BE DONE BY RAILWAY Co.
Adjust Telephone and Telegraph Lines
Install Inner Guard Rail

APPROVED
[redacted]
CHIEF ENG. U.S. BUREAU OF PUBLIC ROADS

APPROVED
[redacted]
DIST. ENG.

APPROVED
[redacted]
CHIEF

APPROVED
[redacted]
CHAIRMAN - STATE HIGHWAY COMMISSION

APPROVED
[redacted]
STATE HIGHWAY ENGINEER

U.R. Geyer
BRIDGE ENGINEER

Revised: Quant. Item 803 - W.W.S. 7-21-38.

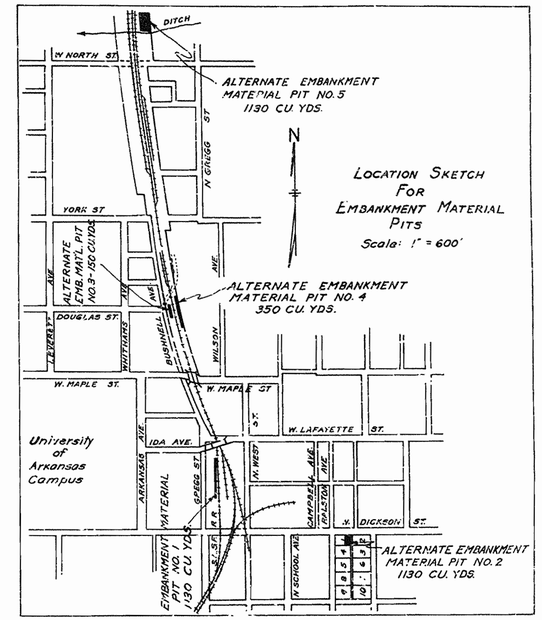
BRIDGES No. 1941

DRAWING No. 4841

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAGM 1-A(1)	1938	8	44
STATE JOB NO. 9169					

SCHEDULE OF BRIDGE QUANTITIES - CODE No. 950

ITEM No.	103	103	SP & 802	SP & 802	803	SP & 805	SP-805-1	SP-852-1	SP-950-2	SP	SP
ITEM / LOCATION	DRY EXCAVATION FOR STRUCTURES	SOLID ROCK EXCAVATION FOR STRUCTURES	CLASS "A" CONCRETE FOR BRIDGES	CLASS "S" CONCRETE FOR BRIDGES	REINFORCING STEEL	CONCRETE RAILING	CONCRETE AND WROUGHT IRON RAILING	METAL BEARING AND ROADWAY EXPANSION DEVICES	STATE BRIDGE NAME PLATES TYPE "A"	ELECTRICAL LIGHTING SYSTEM	REMOVAL OF EXISTING BRIDGE
UNIT	Cu. Yd.	Cu. Yd.	Cu Yd.	Cu. Yd.	Lb.	Lin. Ft.	Lin. Ft.	Lb.	Each	Lump Sum	Lump Sum
36'-6"-45'-0"-36'-6" CONTINUOUS R.C. SLAB SPAN				263.7	49,304		236.0	2,625			
ABUTMENT No. 1	110.0	43.0	70.7		10,110	24.0		612	1		
BENT No. 1	35.0	5.0	48.6		6,960						
BENT No. 2	5.0	26.0	47.9		6,850						
ABUTMENT No. 2	118.0	23.0	67.9		9,906	24.0		613	1		
RETAINING WALLS AND STEPS	252.0	13.0	96.9		9,530	102.0					
TOTALS	520.0	110.0	332.0	263.7	92,660	150.0	236.0	3,850	2	COMPLETE	COMPLETE



SUMMARY OF QUANTITIES (ROADWAY)

ITEM NO.	ITEM	QUANTITY	UNIT
SP & 101	CLEARING	6	TREE
SP & 101	GRUBBING	6	STUMP
102	SOLID ROCK EXCAVATION	320	CU. YD.
102	UNCLASSIFIED EXCAVATION	3,064	CU. YD.
103	DRY EXCAVATION FOR STRUCTURES	352	CU. YD.
103	SOLID ROCK EXCAVATION FOR STRUCTURES	54	CU. YD.
107	OVERHAUL	48	STA. YD.
SP & 701	PORTLAND CEMENT CONCRETE PAVEMENT	4,261.2	SQ. YD.
702	REINFORCING STEEL FOR PAVEMENTS (TYPE 2)	17,790	LB.
702	REINFORCING STEEL FOR PAVEMENTS (BARS-BRIDGE ENDS)	1,400	LB.
SP & 703	LIP CURB	333.5	LIN. FT.
901	CLASS "A" CONCRETE	55.4	CU. YD.
901	CLASS "B" CONCRETE	2.5	CU. YD.
902	REINFORCING STEEL	7,750	LB.
903	DRY RUBBLE MASONRY	2.0	CU. YD.
904	CEMENT RUBBLE MASONRY	29.5	CU. YD.
906	12" R.C. PIPE CULVERT	8	LIN. FT.
906	18" R.C. PIPE CULVERT	265	LIN. FT.
906	24" R.C. PIPE CULVERT	156	LIN. FT.
906	30" R.C. PIPE CULVERT	104	LIN. FT.
910	FRENCH DRAINS	28	LIN. FT.
SP & 913	CONCRETE SPILLWAYS	05	CU. YD.
SP & 916	CONCRETE CURB	1,295	LIN. FT.
SP & 917	CONCRETE WALKS	640.4	SQ. YD.
918	DROP INLETS	8	EACH
919	MANHOLES	1	EACH
920	MANHOLE RINGS AND COVERS ADJUSTED TO GRADE	5	EACH
SP & 926	SOLID SODDING	251	SQUARE
1002	REMOVAL AND DISPOSAL OF CONCRETE PAVEMENT	166.5	SQ. YD.
1006	REMOVAL AND DISPOSAL OF CONCRETE WALKS AND STEPS	543	SQ. YD.
SP	EMBANKMENT MATERIAL	1,130	CU. YD.
SP	* CUTTING BACK BUILDING	1	EACH
SP	8" PERFORATED C.M. PIPE	73	LIN. FT.
SP	REMOVING AND RESETTING HEDGE	105	LIN. FT.
SP	REMOVING AND RESETTING SHRUBS	2	EACH
SP	REMOVAL & STOCKPILING OF EXISTING BITUMINOUS SURFACE COURSE AND STONE BASE COURSE	2,569	SQ. YDS.
SP	REMOVAL AND DISPOSAL OF CONCRETE CURB & GUTTER	2,362	LIN. FT.
SP	PROJECT MARKER PLATES (TYPE AL-1)	2	EACH
SP	REMOVING & RELAYING CEMENTED FLAGSTONE WALK	20.6	SQ. YD.
SP	RELAYING COMBINATION CURB AND GUTTER	348	LIN. FT.

* Non-participating

Revised: Quant. Item 803 - W.V.S. 7-21-38

W. B. Lancaster
BRIDGE ENGINEER

SUMMARY OF BRIDGE AND ROADWAY QUANTITIES

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By:____ Date:____
Traced By: B.V. Date: 6-13-38
Checked By:____ Date:____

Scale: In. = ft.

BRIDGE No. 1941 DRAWING No. 4842

Concrete Walks

SECTION	STATION	STATION	QUANTITY - SQ. YDS. RIGHT	LEFT	TOTAL
IDA AVE APPROACH	3+47	3+80	14.7		14.7
	3+80	4+15	25.3		25.3
	4+15	5+00	40.5		40.5
	4+15	4+95	45.5		45.5
	3+30	3+45		6.7	6.7
	3+53	5+16		74.7	74.7
	5+42	5+58.5		10.7	10.7
	5+27	5+58.5	16.5		16.5
	Total				234.6
WEST LAFAYETTE STREET APPROACH	6+84.57	7+98	40.0		40.0
	7+98	8+74	37.0		37.0
	6+84.57	6+96		4.5	4.5
	7+05	7+43		26.7	26.7
	7+51	8+67		54.3	54.3
	8+67	8+73		6.2	6.2
	9+10	9+17	3.3		3.3
	9+17	10+22	46.7		46.7
	9+10	9+24		9.0	9.0
	9+72	9+81		4.0	4.0
	9+89	10+22		13.3	13.3
	9+79	9+81	5.0		5.0
	Total				250.0
GREGG STREET APPROACH	10+40	10+98		25.3	25.3
	11+06	11+22		7.0	7.0
	10+53	Left		22.2	22.2
		Total			54.5
NORTHWEST STREET APPROACH	8+79	9+75	42.7		42.7
	9+45	9+75		22.8	22.8
	10+25	10+35	6.0		6.0
	10+25	10+92		27.8	27.8
	Total				101.3
Grand Total					640.4

Lip Curb

SECTION	STATION	STATION	QUANTITY - LIN. FT. RIGHT	LEFT	TOTAL
GREGG STREET APPROACH	6+50	6+77.5	27.5	27.5	55.0
	6+77.5	8+02.5	124.0	126.0	250.0
	8+02.5	9+02.5	100.0		100.0
	8+02.5	8+49.0		46.5	46.5
	8+53	9+02.5		49.5	49.5
	9+02.5	9+65	63.5	61.5	125.0
	10+40	12+00	162.5		162.5
	10+40	10+98		60.0	60.0
	11+06	11+12.5		9.0	9.0
	11+17.5	11+22		7.0	7.0
	11+30	12+00		69.0	69.0
	Total				953.5

Concrete Curb

SECTION	STATION	STATION	QUANTITY - LIN. FT. RIGHT	LEFT	TOTAL
IDA AVE. APPROACH	3+00	3+37	40.0		40.0
	3+00	3+45		48.0	48.0
	3+47	4+85	146.0		146.0
	4+85	Return	29.0		29.0
	3+53	4+68		113.0	113.0
	4+73	4+94		21.0	21.0
	4+94	Return		34.5	34.5
	Return	5+61.65	56.5	32.0	88.5
	Total				520.0
WEST LAFAYETTE STREET APPROACH	6+81.65	Return		20.0	20.0
	Return	7+43		46.0	46.0
	7+51	Return		133.0	133.0
	6+81.65	Return	190.5		190.5
	Return	9+16.5 & Return		23.0	23.0
	Return	9+17	11.0		11.0
	9+29	10+12	83.0		83.0
	9+72	9+81		14.0	14.0
	9+89	9+98		11.5	11.5
	Total				532.0
NORTHWEST STREET APPROACH	8+72	8+75		8.0	8.0
	8+75	9+20		47.0	47.0
	Return	9+75		8.0	8.0
	8+79	9+75	96.0		96.0
	10+25	Return	10.0		10.0
	10+90	10+92	12.0		12.0
	10+30	10+92		62.0	62.0
	Total				243.0
Grand Total					1295

Removing & Relaying Cemented Flagstone Walk

SECTION	STATION	STATION	QUANTITY - SQ. YDS. RIGHT	LEFT	TOTAL	
GREGG STREET APPROACH	8+08			3.6	3.6	REMOVED
	11+02	11+14		5.4	5.4	
	11+21	11+47		11.6	11.6	
	Total				20.6	
	8+08			6.3	6.3	RELAID
	11+30	11+70		14.3	14.3	
	Total				20.6	

Clearing and Grubbing

SECTION	STATION	Trees Each	Stumps Each
IDA AVE. APPROACH	4+91 Lt.	1	1
GREGG ST. APPROACH	8+30-Rt	1	1
Total		2	2
WEST LAFAYETTE STREET APPROACH	7+70 Rt.	1	1
	8+19 Rt.	1	1
	10+02 Lt.	1	1
	10+27 Lt.	1	1
	Total	4	4
Grand Total		6	6

Sodding (Solid)

SECTION	STATION	STATION	QUANTITY - SQUARES RIGHT	LEFT	TOTAL
IDA AVE. APPROACH	3+47	4+05	1.4		1.4
	4+15	5+00	5.6		5.6
	3+53	5+20		24.0	24.0
	5+22	5+63	10.4		10.4
	5+47	5+65		1.6	1.6
	Total				43.0
WEST LAFAYETTE STREET APPROACH	6+75	6+90		4.2	4.2
	7+00	7+10		2.0	2.0
	7+05	7+43		7.4	7.4
	7+51	8+67		10.0	10.0
	8+07	8+65	4.8		4.8
	9+17	10+22	11.6		11.6
	Total				40.0
GREGG STREET APPROACH	6+50	9+65	63.0		63.0
	10+40	12+00	40.0		40.0
	7+25	8+06		8.0	8.0
	8+10	8+48		5.7	5.7
	8+52	9+65		15.8	15.8
	10+40	10+51		11.0	11.0
	10+55	10+98		17.5	17.5
	11+06	11+22		2.5	2.5
	11+30	11+75		3.5	3.5
	Total				167.0
NORTHWEST STREET APPROACH	10+30	10+92		1.0	1.0
	Total				1.0
Grand Total					251.0

Removing & Resetting Hedge

SECTION	STATION	STATION	QUANTITY - LIN. FT. RIGHT	LEFT	TOTAL
IDA AVE. APPROACH	3+75	4+80		105	105
Total					105

Removing and Resetting Shrubs

SECTION	STATION	QUANTITY - EACH RIGHT	LEFT	TOTAL
GREGG ST. APPROACH	10+90		1	1
	11+30		1	1
	Total			2

Cutting Back Building

SECTION	STATION	DESCRIPTION
W. LAFAYETTE STREET APPROACH	7+58	Rear of brick building. Concrete Foundation on Lt. Cut back 5 feet.

Removal and Disposal of Concrete Curb & Gutter

SECTION	STATION	STATION	QUANTITY - LIN. FT. RIGHT	LEFT	TOTAL
IDA AVE. APPROACH	3+00	4+85		182	182
	4+82			48	48
	3+00	4+80	190		190
	4+85		40		40
	5+12		50	38	88
	Total				548
WEST LAFAYETTE STREET APPROACH	6+70	8+62	195	190	385
	8+62	Return	22	22	44
	Return	9+25	27	30	57
	9+25	10+50	125		125
	9+73	10+50		77	77
	Total				688
GREGG STREET APPROACH	6+50	9+54	304	306	610
	9+54		9	16	25
	10+40	11+12		72	72
	10+40	10+73	62		62
	10+88	11+12	54		54
	11+12		9	16	25
	Total				848
NORTHWEST STREET APPROACH	8+67.5	9+75	108		108
	8+72	9+75		103	103
	10+25	10+92		67	67
	Total				278
Grand Total					2362

Removal and Disposal of Concrete Walks and Steps

SECTION	STATION	STATION	QUANTITY - SQ. YDS. RIGHT	LEFT	TOTAL
IDA AVE. APPROACH	3+30	4+87		70	70
	3+80			20	20
	3+47	4+80	61		61
	3+75		2		2
	Total				153
WEST LAFAYETTE STREET APPROACH	7+00	8+75		83	83
	8+65	8+71	7		7
	9+03	10+22		53	53
	9+10	9+14	4	4	8
	9+10	10+22	50		50
	9+77	9+81	5		5
	Total				206
GREGG STREET APPROACH	10+40	11+02		27.6	27.6
	10+52			13.4	13.4
	Total				41.0
NORTHWEST STREET APPROACH	8+79	8+95	16.4		16.4
	8+95	9+75	35.6		35.6
	9+45	9+75		20.0	20.0
	9+65	9+75		10.0	10.0
	10+25	10+90	31		31
	10+25	10+92		32	32
	Total				145.0
Grand Total					545.0

Removal and Disposal of Concrete Pavement

SECTION	STATION	STATION	QUANTITY SQ. YDS.
IDA AVE. APPROACH	3+49	Driveway Left.	4.0
	Total		4.0
WEST LAFAYETTE STREET APPROACH	7+47	Driveway Left	8.0
	8+33	Driveway Right	11.0
	9+25	9+73 Left	76.0
	Total		95.0
GREGG STREET APPROACH	10+97	Driveway Left	4.5
	Total		4.5
NORTHWEST STREET APPROACH	8+75	Driveway Left	10.0
	10+35	Entrance Left 10+90	55.0
	Total		65.0
Grand Total			168.5

Removal and Stockpiling of Existing Bituminous Surface Course and Stone Base Course

SECTION	STATION	STATION	QUANTITY SQ. YDS.
IDA AVE. APPROACH	3+00	4+85	494
	4+88	5+10.5	192
	Total		686
WEST LAFAYETTE STREET APPROACH	6+75	8+62	433
	8+62	9+25	228
	9+25	10+12	145
	Total		806
GREGG STREET APPROACH	6+50	9+54	474
	10+40	11+11	243
	Total		717
NORTHWEST STREET APPROACH	8+75	9+75	222
	10+25	10+90	138
	Total		360
Grand Total			2569

Removal and Disposal of Obstructions

SECTION	STATION	DESCRIPTION
W. LAFAYETTE ST. APPROACH	7+96	Coal chute on Rt.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	F.A.G.M. 1-A(1)	1939	3	44
STATE JOB NO. 9169					

Cement Rubble Masonry and Dry Excavation for Structures

SECTION	STATION	STATION	QUANTITY	DRY EXCAV. FOR STRUCTURES. CU. YDS.
IDA AVE. APPROACH	5+93	Rt. + Lt.	13.5	18
	Total		13.5	18
WEST LAFAYETTE STREET APPROACH	7+00	Lt. at Driveway	15.0	30
	Total		15.0	30
GREGG STREET APPROACH	8+50	on Lt.	1.0	5
	Total		1.0	5
Grand Total			29.5	53

Dry Rubble Masonry

SECTION	STATION	DESCRIPTION	QUANTITY CU. YDS.
GREGG STREET APPROACH	10+42	Tree Well 35' Lt.	1.0
	10+58	Tree Well 33' Lt.	1.0
	Total		2.0

Manhole Rings and Covers Adjusted to Grade

SECTION	STATION	LOCATION	QUANTITY EACH
IDA AVE. APPROACH	4+95	21' Rt.	1
	Total		1
WEST LAFAYETTE STREET APPROACH	8+89	5' Lt.	1
	Total		1
GREGG STREET APPROACH	10+71	8' Rt.	1
	11+80	6' Rt.	1
	Total		2
NORTHWEST STREET APPROACH	8+85	5' Lt.	1
	Total		1
Grand Total			5

French Drains

SECTION	STATION	LOCATION	QUANTITY LIN. FT.
GREGG STREET APPROACH	10+40	32' Lt.	28
	Total		28

SCHEDULE OF ROADWAY QUANTITIES

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

Drawn By:_____ Date:_____
Traced By: B.V. Date: 6-13-38
Checked By:_____ Date:_____

Scale: in. = ft.

N. B. Garner
BRIDGE ENGINEER

BRIDGE No. 1941 DRAWING No. 4843

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAGM 1-A(1)	1938	4	44
STATE JOB NO. 9169					

TABULATION OF PAVING QUANTITIES

Section	Station	Station	Length Ft.	Roadway Width	Portland Cement Concrete Pavement: Normal Sq.Yd.	Transitions	Intersection Sq.Yd.	Bridge Approach Slab Sq.Yd.	Add'l. For Turnouts, & Driveways Sq.Yd.	Total Sq.Yds.	Reinf. Steel For Pavement - Type 2: Normal Lbs.	Transitions Lbs.	Intersection Lbs.	Add'l. For Turnouts, App. Driveways, Lbs.	Total Lbs.	Reinf. Steel Bars-Dr. Approach Item 702 Lbs.
Ida Ave	3+00	4+85	185	30	644.1				16.2	660.3	2750			68	2818	
Appr.	4+85	5+51.65	66.65				375.4			375.4			1591		1591	
	5+51.65	5+61.65	10	24				28.5	9.5	38						700
									Total	1073.7				Total	4409	700
	6+91.65	6+91.65	10	24				28.5	9.5	38						700
W. Lafayette	6+91.65	8+60.6	168.95	24	475.5				41.5	517	2014			169	2183	
St.	8+60.6	9+16.6	56				277.6			277.6			1175		1175	
Appr.	9+16.6	10+12	95.4	36	395.7				40.8	436.5	1696			199	1895	
									Total	1229.1				Total	5253	700
	6+50	6+77.5	27.5			62.6				62.6		262			262	
Gregg	6+77.5	8+02.5	125	20	291.7					291.7	1225				1225	
St	8+02.5	9+02.5	100			255.6				255.6		1078			1078	
Appr.	9+02.5	9+65	62.5	24	173.6					173.6	735				735	
	10+40	12+00	160	24	444.4				13.2	457.6	1881			50	1931	
									Total	1241.1				Total	5231	
N. West	8+72	8+75	3			2.0				2.0						
St.	8+75	9+75	100	36	355.6				16.1	371.7	1528			66	1594	
Appr.	10+25	10+90	65	36	269.4	3.6			30.6	303.6	1156			150	1306	
									Total	677.3				Total	2900	
									Grand Total	4261.2	12985	1340	2766	702	17793	1400
														Say	17790	

EARTHWORK

Section	Station	Station	Uncl. Excavation Cu.Yd.	Solid Rock Excav. Cu.Yd.	Overhaul Sta.Yds.	Embankment Material Cu.Yds.
Ida Ave. Appr.	3+00	5+62	16	0	0	0
W. Lafayette Appr.	6+81	10+50	76	0	0	1130
Gregg Appr.	6+00	9+75	2914	320	48	
"	10+40	12+25				
N. West Appr.	8+70	9+75	58			
"	10+25	10+92				
Total			3064	320	48	1130

RELAYING COMBINATION CURB & GUTTER

Section	Station	Station	Side	Total Quan. Lin. Feet
W. Lafayette St. Approach	7+51	8+63	Lt.	115
	8+10	8+63	Rt.	53
	10+12	10+50	Rt. & Lt.	80
		Total		248
Gregg St. Approach	8+53	9+53	Lt.	100
		Total		100
	Grand	Total		348

STRUCTURES

Section	Station	Description	12" R.C. Pipe Culv. Lin. Ft.	18" R.C. Pipe Culv. Lin. Ft.	24" R.C. Pipe Culv. Lin. Ft.	30" R.C. Pipe Culv. Lin. Ft.	8" Perf. C.M. Pipe Lin. Ft.	Concrete: Class 'A' Cu.Yd	Concrete: Class 'B' Cu.Yd	Reinf. Steel Lb.	Excavation: Dry Cu.Yd.	Excavation: S. Rock Cu.Yd.
Ida Ave Approach	4+70	Const. 18" R.C. Pipe on Lt.		30							3	
	5+00	" 24" " " Rt & Lt			110						4	
	5+60	" 8" Perf. C.M. Pipe Rt & Lt.					75					
		Total		30	110		75				7	
W. Lafayette St. Approach	8+64	Const. 12" R.C. Pipe on Rt	8								3	
	8+63	" 18" " " Rt & Lt		40							13	
	8+63	" 18" " " Lt.		15							4	
	8+73	" 24" " " Rt.			34						20	
	9+07	" 18" " " Rt. & Lt		52							17	
	9+09	" 24" " " Rt.			12						5	
	9+09	" 30" " " Rt. & Lt.				104					67	
	9+17	" Special Side Drop Inlet Rt.						3.9		904	6	3
	9+98	" " " " " Lt.						6.0		1122	17	8
		Total	8	107	46	104		9.9		2026	172	11
Gregg St. Approach	8+50	Const. 18" R.C. Pipe Culv. & Headwall		46					1.2	46	14	7
	9+50	" Type 'L' Headwall on Rt.							1.3	42	3	
	10+28	" 18" R.C. Pipe on Lt.		82							14	
		Total		128					2.5	88	31	7
N. West St. Approach	8+75	Const. 4'x3' R.C. Culv. on Rt.						45.5		5636	89	36
		Total								5636	89	36
		Grand Total	8	265	156	104	75	55.4	2.5	7750	299	54

Section	Station	Description	Drop Inlets Each	Concrete Spillways Class 'A' Cu.Yd.	Type A-1 Bronze Proj. Marker Pls. Each
Ida Ave. Approach	3+00	Insert Proj. Marker Pl. in Face Curb			1
	4+70	Const. Type 'C' Drop Inlet on Lt.	1		
	5+00	" " 'E' " " " "	1		
		Total	2		1
W. Lafayette St. Approach	8+63	Const. Type 'E' Drop Inlet on Lt.	1		
	8+71	" " 'C' " " " Rt.	1		
	9+12	" " 'D' Cov. Drop Inlet on Lt.	1		
	9+82	Insert Proj. Marker Pl. in Face Curb			1
		Total	3		1
Gregg St. Approach	8+50	Const. Special Conc. Spillway on Lt.		0.5	
	11+14	" Type 'E' Drop Inlet on Lt.	1		
		Total	1		
N. West St. Approach	10+25	Cons. Type 'C' Drop Inlet on Rt. & Lt.	2		
		Total	2		
		Grand Total	8	0.5	2

W. B. Garver
BRIDGE ENGINEER

SCHEDULE OF ROADWAY QUANTITIES

ROUTE SEC.

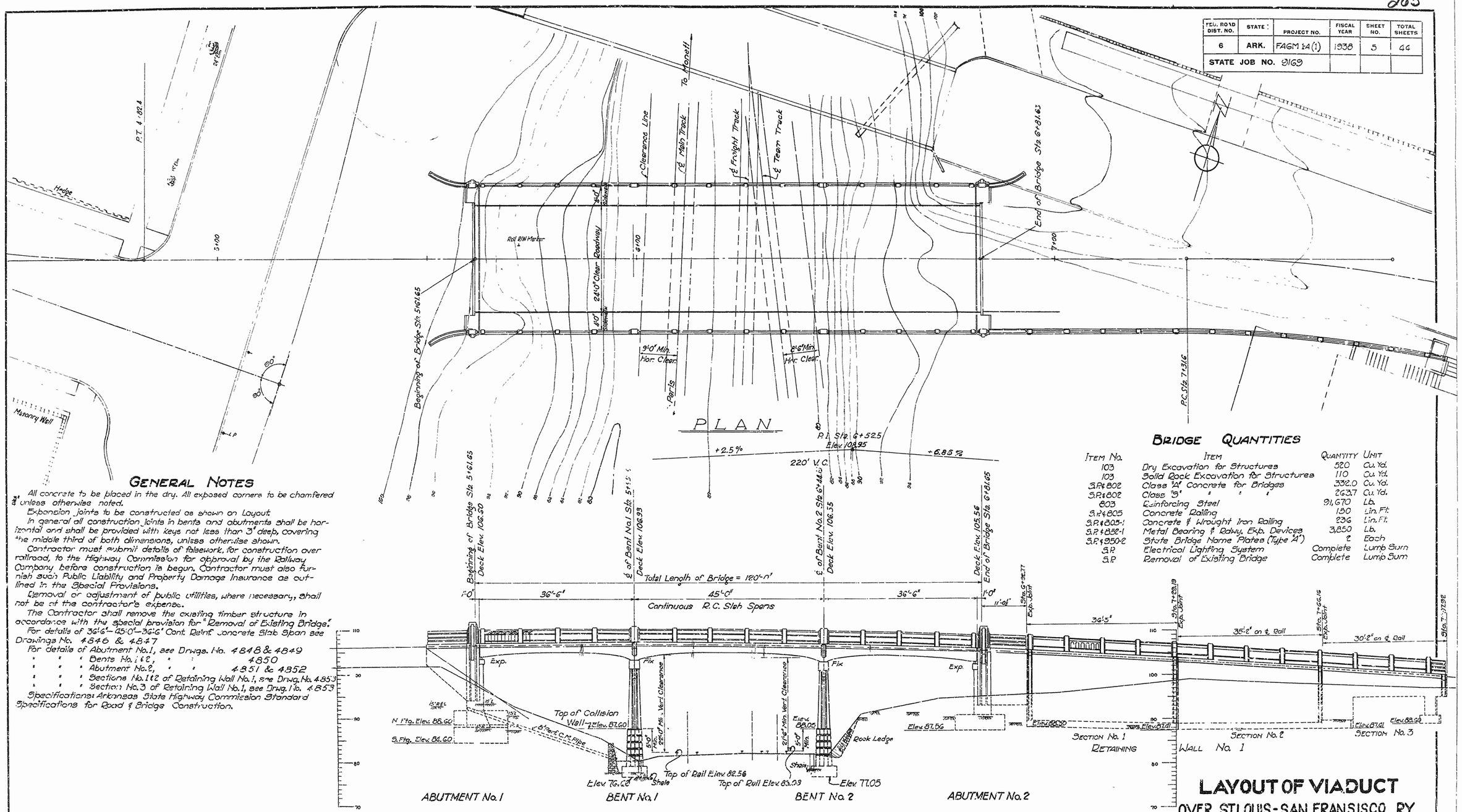
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: W.C.H. Date: 6-2-38
Traced By: [illegible] Date: 6-14-38
Checked By: [illegible] Date:

Scale: in. = ft.

BRIDGE No. 1941 DRAWING No. 4844

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAGM 1A(1)	1938	5	44
STATE JOB NO. 9169					



General Notes

All concrete to be placed in the dry. All exposed corners to be chamfered 3/4" unless otherwise noted.

Expansion joints to be constructed as shown on Layout.

In general all construction joints in bents and abutments shall be horizontal and shall be provided with keys not less than 3" deep, covering the middle third of both dimensions, unless otherwise shown.

Contractor must submit details of falsework, for construction over railroad, to the Highway Commission for approval by the Railway Company before construction is begun. Contractor must also furnish such Public Liability and Property Damage Insurance as outlined in the Special Provisions.

Removal or adjustment of public utilities, where necessary, shall not be at the contractor's expense.

The Contractor shall remove the existing timber structure in accordance with the special provision for "Removal of Existing Bridge."

For details of 36'-6"–45'-0"–36'-6" Cont. Reinf. Concrete Slab Span see Drawings No. 4846 & 4847

For details of Abutment No. 1, see Drwgs. No. 4848 & 4849
" " " Bents No. 1 & 2, " " 4850
" " " Abutment No. 2, " " 4851 & 4852
" " " Sections No. 1 & 2 of Retaining Wall No. 1, see Drwg. No. 4853
" " " Section No. 3 of Retaining Wall No. 1, see Drwg. No. 4853

Specifications: Arkansas State Highway Commission Standard Specifications for Road & Bridge Construction.

Bridge Quantities

Item No.	Item	Quantity	Unit
103	Dry Excavation for Structures	520	Cu. Yd.
103	Solid Rock Excavation for Structures	110	Cu. Yd.
S.P. #802	Class "A" Concrete for Bridges	332.0	Cu. Yd.
S.P. #802	Class "S" " " "	263.7	Cu. Yd.
803	Reinforcing Steel	91,670	Lb.
S.P. #805	Concrete Railing	150	Lin. Ft.
S.P. #805-1	Concrete & Wrought Iron Railing	236	Lin. Ft.
S.P. #852-1	Metal Bearing & Rdwy. Exp. Devices	3,850	Lb.
S.P. #950-2	State Bridge Name Plates (Type "A")	2	Each
S.P.	Electrical Lighting System	Complete	Lump Sum
S.P.	Removal of Existing Bridge	Complete	Lump Sum

Special Notes

Rock excavation below top of concrete footings to be made to neat lines of footings. Care shall be exercised to avoid shattering of rock faces by excessive blasting. Allowance for excavation for collision walls will not exceed 18" outside of bottom dimensions of collision wall at Bents No. 1 & 2, except above bottom of side ditches the excavation shall be sloped up on 1/2:1 slope on East and West sides and 1/4:1 on North and South sides. No backfilling is to be made within the excavated area above bottom of side ditches. Payment for the excavation shall be made at the unit price bid for the various items of "Structural Excavation."

Excavation adjacent to the tracks shall be tightly sheeted and well braced so as to avoid the possibility of caving. Sheeting on other obstructions shall not be allowed to extend above top of rail when closer than 8'-0" from ℄ of tracks.

Minimum falsework clearance shall be maintained as follows: Vertical, above top of rail, 19'-6"; Horizontal, 8'-0" from ℄ of tracks.

Foundation Pressures

Abutments	4.5 Tons per Sq. Ft.
Bents	4.0 " " " "
Ret'g. Walls	2.0 " " " "

LAYOUT OF VIADUCT

OVER ST. LOUIS-SAN FRANSISCO RY.

LAFAYETTE STREET

FAYETTEVILLE, ARK.

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: Beslien Date: 2-28-38 & 6-3-38
Traced By: Dees Date: 3-2-38 & 6-15-38
Checked By: _____ Date: _____

Scale: 1 in. 10 ft.

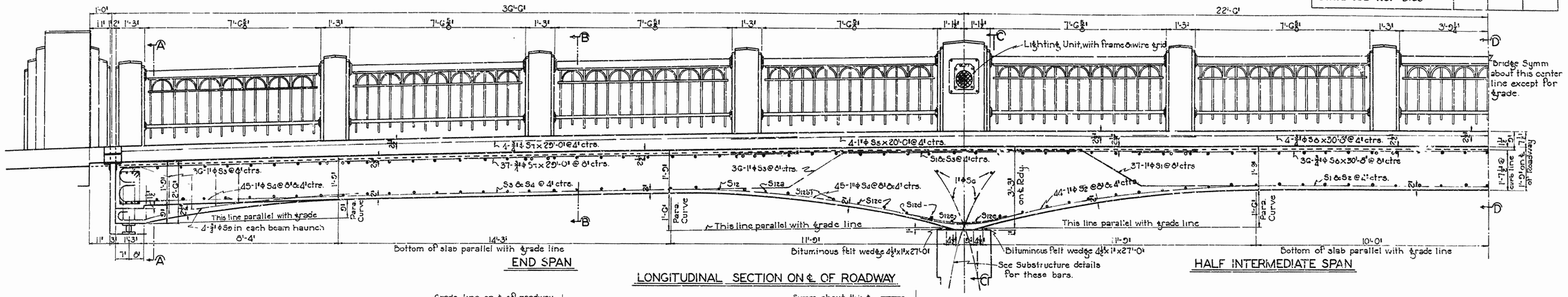
BRIDGE NO. 1941
CODE NO. 950

DRAWING NO. 4845

N. W. Garver
BRIDGE ENGINEER

266

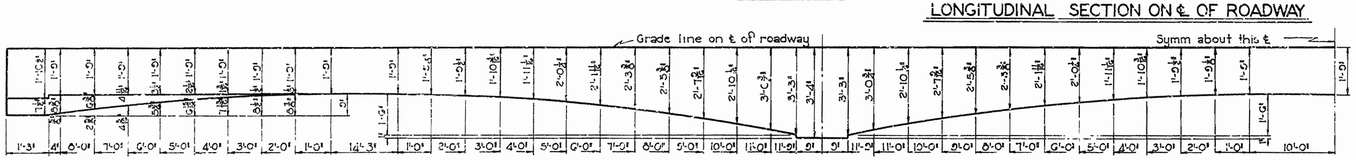
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAGM 1A(1)	1938	6	44
STATE JOB NO. 9169					



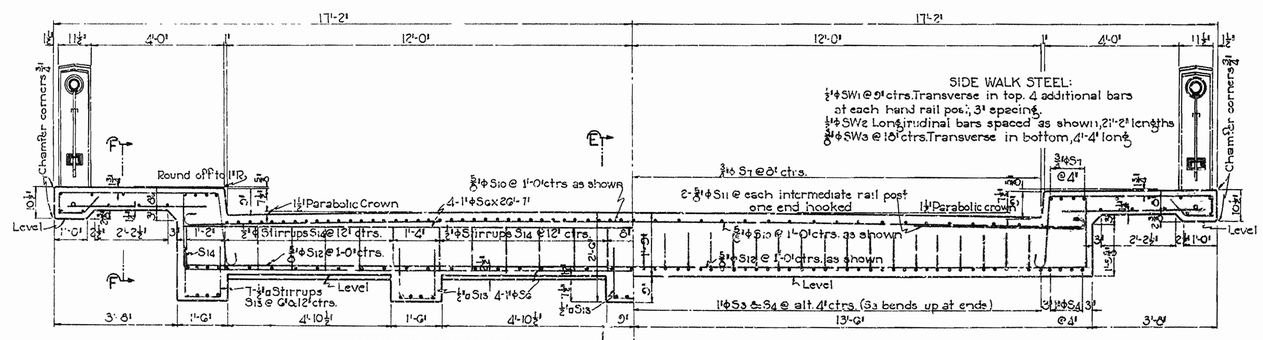
END SPAN

LONGITUDINAL SECTION ON ℄ OF ROADWAY

HALF INTERMEDIATE SPAN

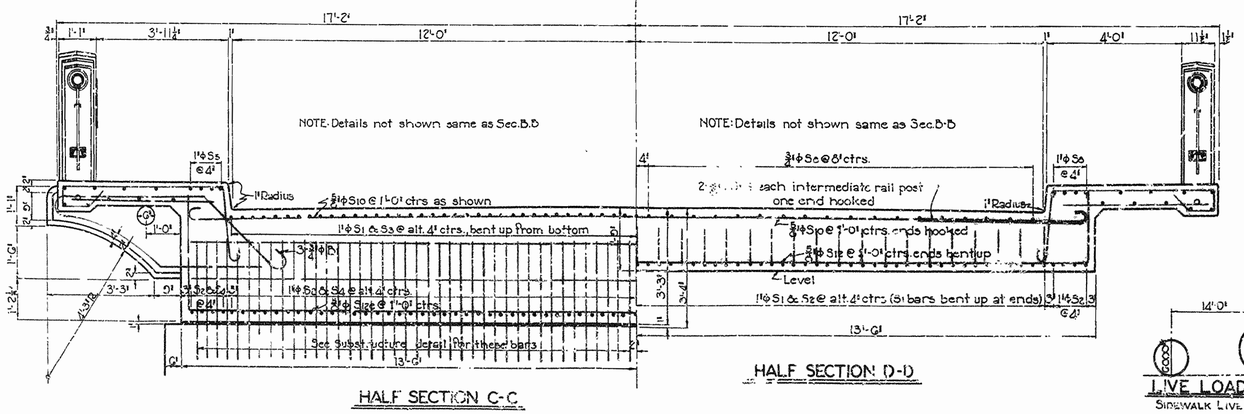


SLAB DEPTHS ON ℄ OF ROADWAY-MEASURED FROM GRADE LINE



HALF SECTION A-A

HALF SECTION B-B

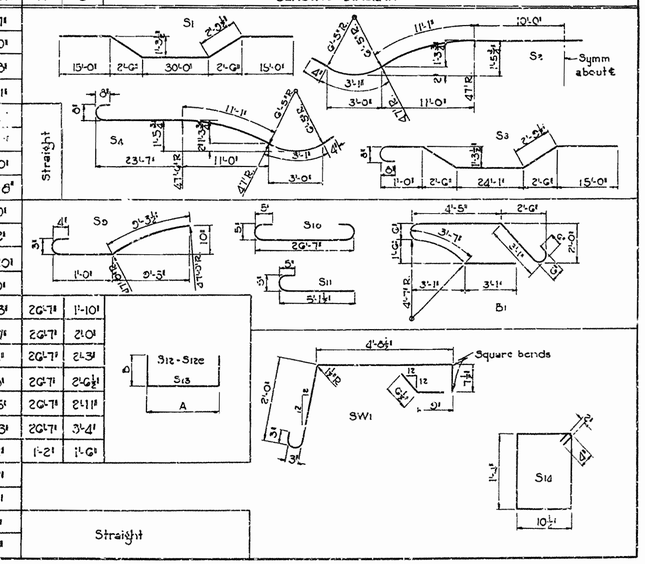


HALF SECTION C-C

HALF SECTION D-D

SLAB BAR LIST

MARK	SIZE	NO. REQ'D	LENGTH	A	B	BENDING DIAGRAM
S1	1"φ	37	95'-7"			
S2	1"φ	44	49'-0"			
S3	1"φ	72	46'-8"			
S4	1"φ	90	39'-11"			
S5	1"φ	16	[illegible]			
S6	1"φ	6[illegible]	[illegible]			
S7	¾"φ	90	29'-0"			
S8	¾"φ	44	30'-8"			
S9	¾"φ	40	10'-0"			
S10	¾"φ	12	15'-2"			
S10	⅝"φ	117	27'-10"			
S11	⅝"φ	40	5'-0"			
S12	⅝"φ	73	30'-3"	26'-7"	1'-10"	
S12a	⅝"φ	8	30'-7"	26'-7"	2'-0"	
S12b	⅝"φ	8	31'-1"	26'-7"	2'-3"	
S12c	⅝"φ	8	31'-8"	26'-7"	2'-6½"	
S12d	⅝"φ	8	32'-5"	26'-7"	2'-11"	
S12e	⅝"φ	4	32'-3"	26'-7"	3'-4"	
S13	½"φ	10	4'-2"	1'-2"	1'-6"	
S14	½"φ	52	5'-2"			
SW1	½"φ	428	9'-0"			
SW2	½"φ	108	21'-2"			
SW3	⅜"φ	160	4'-4"			



GENERAL NOTES

All concrete to be Class "S". All exposed corners to be chamfered ¾" unless otherwise noted.

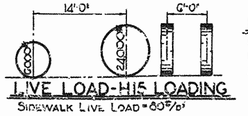
Reinforcing steel to be deformed bars of structural or intermediate grade. Shop lists and bending diagrams must be submitted and approval secured before fabrication is begun. Dimensions relating to reinforcing steel are to centers of bars.

For detail of concrete and wrought iron Railing, see Drwg. No. 4847

For detail of bearing and expansion devices, see Drwg. No. 4847

Bituminous felt to be paid for at the unit price bid for "Reinforcing Steel"

Specifications: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction, Adopted June 30, 1936



LIVE LOAD-H15 LOADING

SIDEWALK LIVE LOAD = 80#/□'

DESIGN UNIT STRESSES

Class "S" Concrete (n=12)	= 800#/□"
Reinforcing Steel	= 18000#/□"
Structural Steel	= 18000#/□"

SLAB LIVE LOAD DISTRIBUTION

Conc. Live Load	1750 lbs. per foot of width
Unif. " "	50 " " square foot
Sidewalk "	80 " " " "

SHEET NO. 1 OF 2

DETAIL OF 36'-6"-45'-0"-36'-6"
CONTINUOUS REINF. CONCRETE SLAB SPAN
24'-0" CLEAR ROADWAY-2-4'-0" SIDEWALKS
VIADUCT OVER SLOUGH
LAFAYETTE ST.-FAYETTEVILLE
WASHINGTON COUNTY

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: W.C.H. Date: 5-31-38
Traced By: C.B.L.J. Date: 6-4-38
Checked By: O. Date:
Scale: ½" in. = 1'-0" ft. except as noted

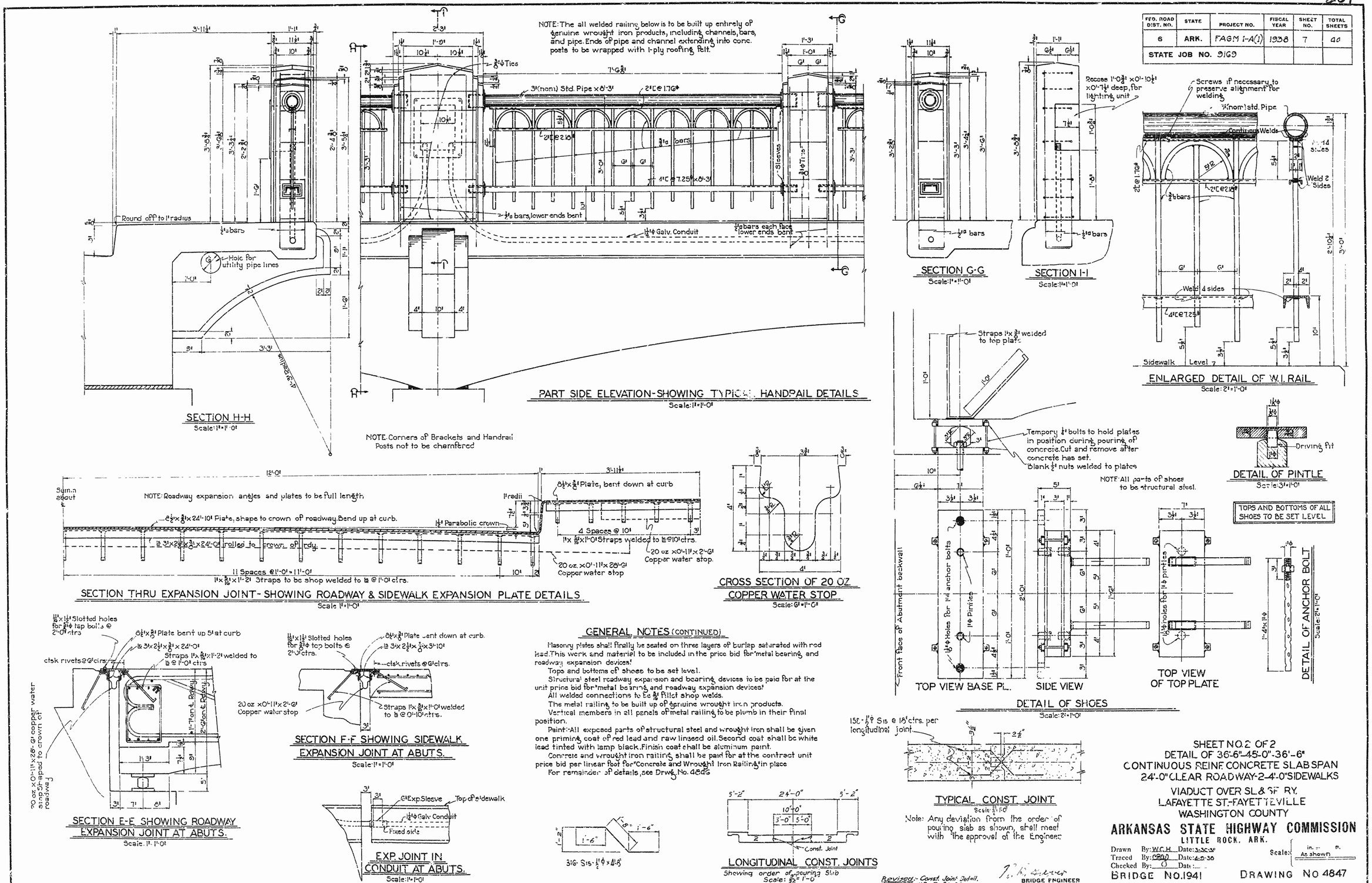
BRIDGE NO. 1941

DRAWING NO. 4846

R. B. Jarvis
BRIDGE ENGINEER

Revised: Bars S3, S10 & S12 W.C.H. 8-20-38

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAGM 1-A(1)	1938	7	40
STATE JOB NO. 9169					



GENERAL NOTES (CONTINUED)

Masonry plates shall finally be seated on three layers of burlap saturated with red lead. This work and material to be included in the price bid for "metal bearing and roadway expansion devices."

Tops and bottoms of shoes to be set level.

Structural steel roadway expansion and bearing devices to be paid for at the unit price bid for "metal bearing and roadway expansion devices."

All welded connections to be ⅜" fillet shop welds.

The metal railing to be built up of genuine wrought iron products.

Vertical members in all panels of metal railing to be plumb in their final position.

Paint:- All exposed parts of structural steel and wrought iron shall be given one priming coat of red lead and raw linseed oil. Second coat shall be white lead tinted with lamp black. Finish coat shall be aluminum paint.

Concrete and wrought iron railing shall be paid for at the contract unit price bid per linear foot for "Concrete and Wrought Iron Railing" in place

For remainder of details, see Drwg. No. 4846

SHEET NO. 2 OF 2
DETAIL OF 36'-6"-45'-0"-36'-6"
CONTINUOUS REINF. CONCRETE SLAB SPAN
24'-0" CLEAR ROADWAY-2-4'-0" SIDEWALKS
VIADUCT OVER SL. & SF. RY.
LAFAYETTE ST.-FAYETTEVILLE
WASHINGTON COUNTY

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

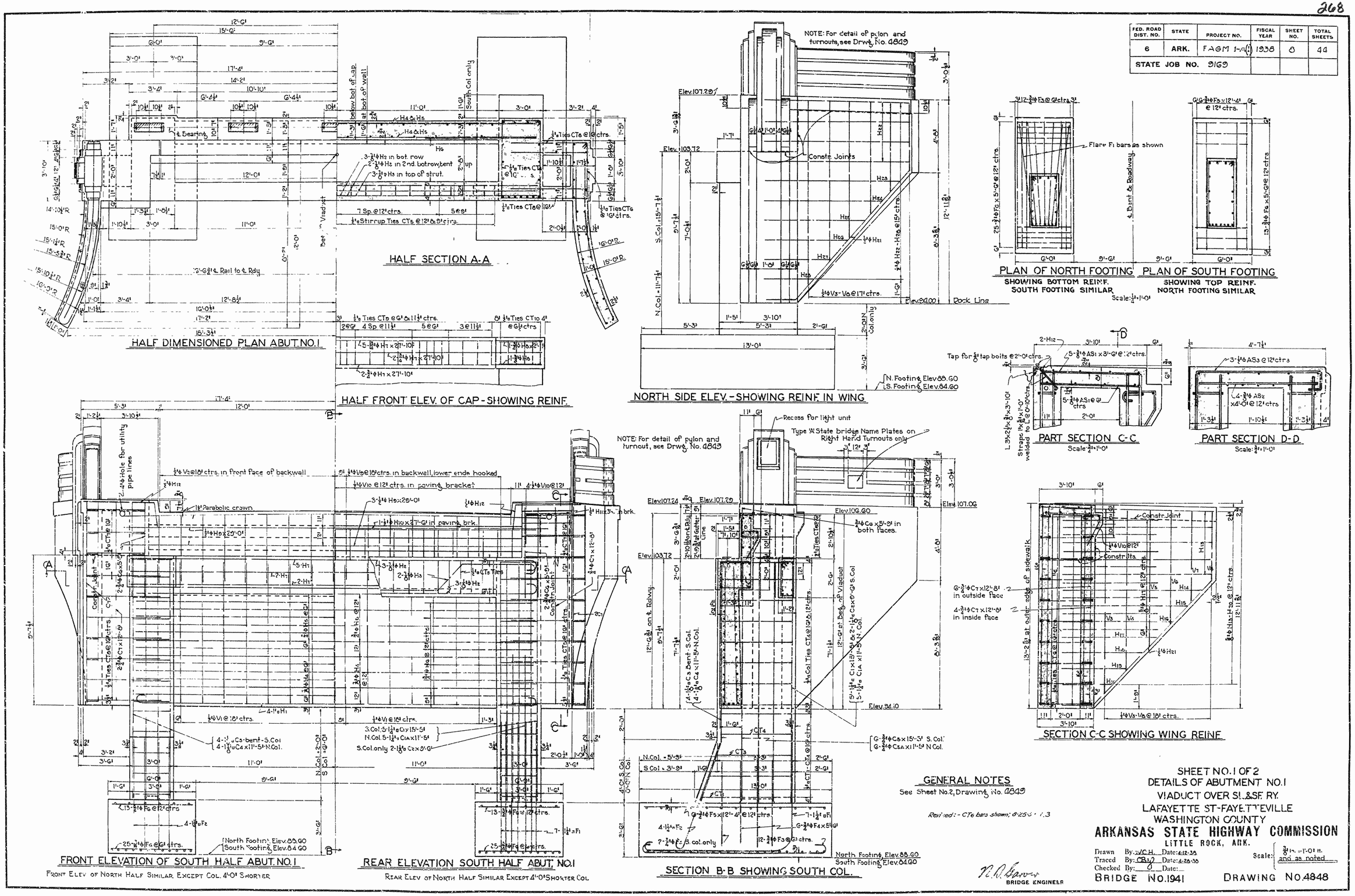
Drawn By: W.C.H. Date: 3-30-38
Traced By: C.B.D. Date: 4-8-38
Checked By: O Date:
Scale: in. = ft. As shown

BRIDGE NO. 1941 DRAWING NO 4847

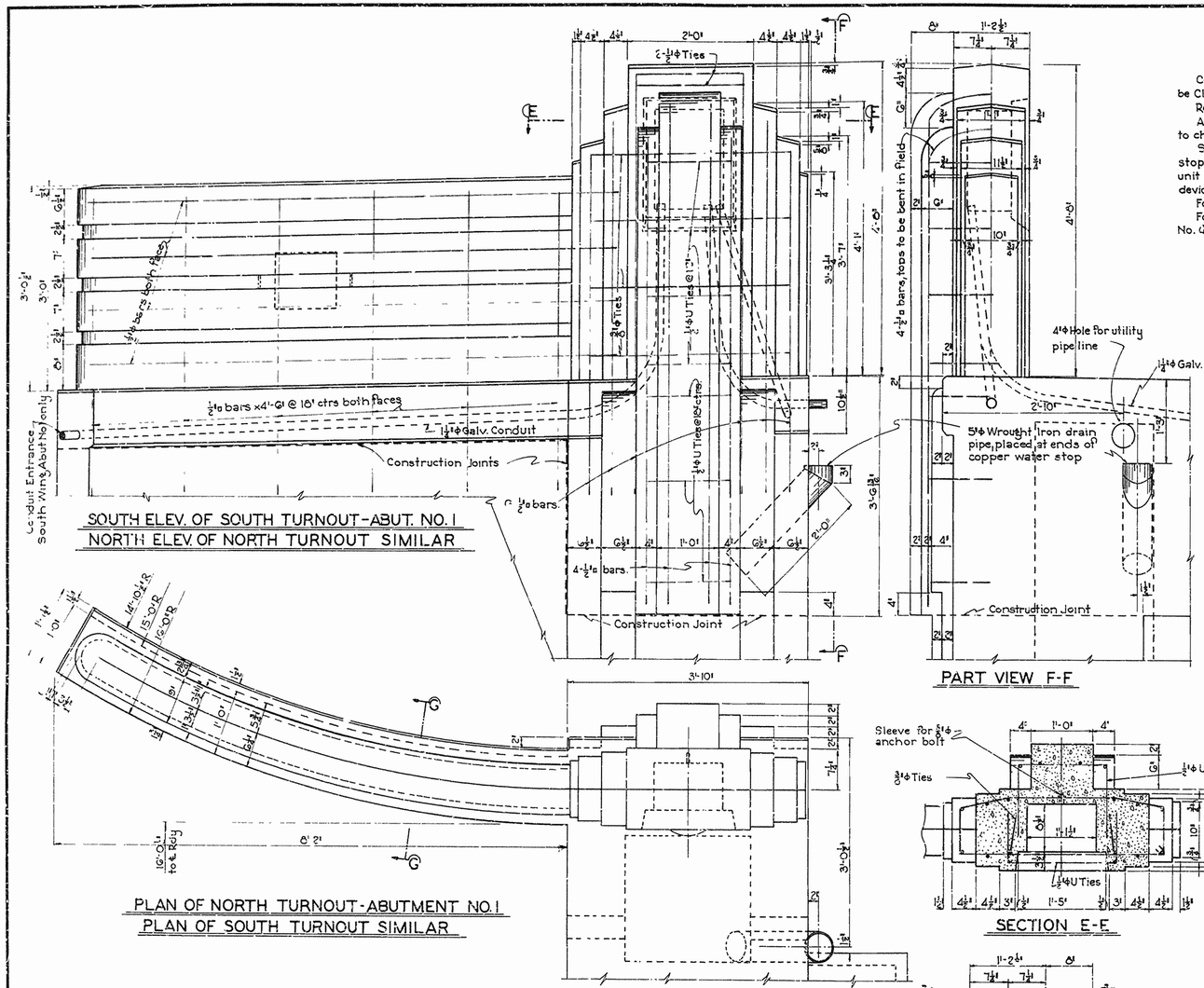
Revised:- Const. Joint Detail. H.B. 7-20-38

BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAGM 1-A(1)	1938	8	44
STATE JOB NO. 9169					



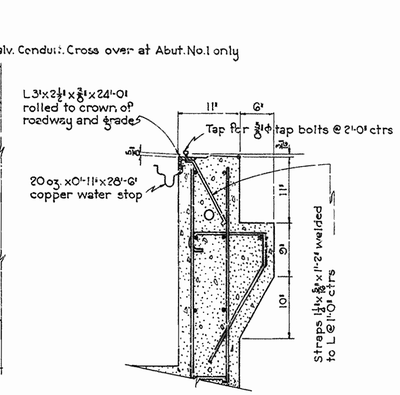
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAGM 1-A(1)	1938	9	44
STATE JOB NO. 9169					



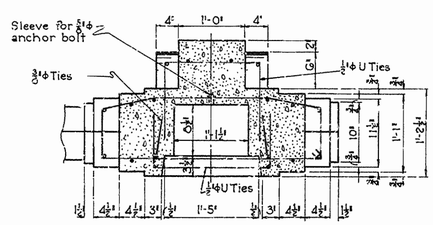
SOUTH ELEV. OF SOUTH TURNOUT-ABUT. NO. 1
NORTH ELEV. OF NORTH TURNOUT SIMILAR

GENERAL NOTES

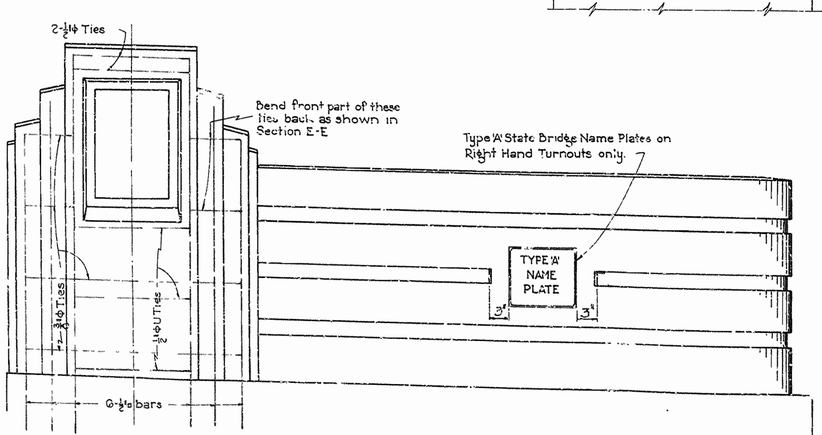
Concrete in Turnouts and Pylons above top of sidewalk to be Class 'S', maximum size aggregate to be ¾".
Remainder of Abutment No. 1 to be Class 'A'.
All exposed corners, except corners of Turnouts and Pylons, to chamfered ¾" unless otherwise noted.
Structural steel roadway expansion devices, copper water stop, and wrought iron drain pipes to be paid for at the unit price bid for "metal bearing and roadway expansion devices."
For detail of superstructure, see Drwg. Nos. 4846 & 4847
For remainder of details of Abutment No. 1, see Drwg. No. 4848



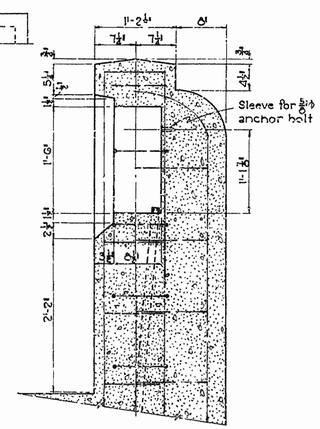
PART SECTION B-B



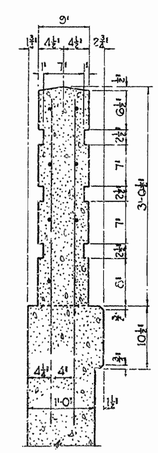
SECTION E-E



ROADWAY ELEVATION OF SOUTH TURNOUT OF ABUT. NO. 1-NORTH TURNOUT SIMILAR



SECTION ON ℄ OF POST



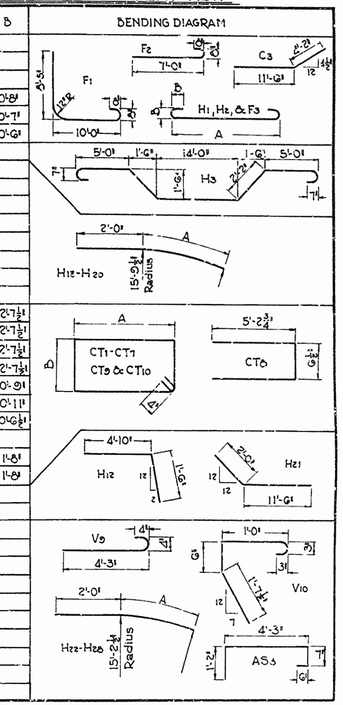
SECTION G-G

LIST OF BENT BARS-ABUTMENT NO. 1

NOTE: Dimensions relating to reinforcing steel are to centers of bars.

MARK	SIZE	NO. REQ'D.	LENGTH	A	B
F1	1 1/16"ø	14	19'-0"		
F2	1 1/16"ø	8	8'-0"		
C3	1 1/16"ø	4	15'-8"		
H1	1"ø	4	29'-3"	27'-3"	0'-8"
H2	3/4"ø	6	29'-0"	27'-3"	0'-7"
F3	3/4"ø	24	13'-10"	12'-4"	0'-6"
H3	3/4"ø	2	30'-1"		
H13	3/4"ø	10	10'-4"	8'-4"	
H14	" "	2	9'-8"	7'-8"	
H15	" "	2	8'-8"	6'-8"	
H16	" "	2	7'-7"	5'-7"	
H17	" "	18	6'-6"	4'-6"	
H18	" "	2	5'-5"	3'-5"	
H19	" "	2	4'-4"	2'-4"	
H20	3/4"ø	2	3'-4"	1'-4"	
CT1	1"ø	1	18'-6"	6'-3"	2'-7½"
CT2	" "	1	17'-0"	5'-9"	2'-7½"
CT3	" "	1	16'-6"	5'-3"	2'-7½"
CT4	" "	20	15'-9"	4'-10½"	2'-7½"
CT5	" "	25	6'-6"	2'-1½"	0'-9"
CT6	" "	26	9'-6"	3'-5½"	0'-11"
CT7	" "	12	10'-0"	4'-1"	0'-6½"
CT8	" "	26	11'-0"		
CT9	" "	30	8'-1"	2'-0"	1'-8"
CT10	1"ø	12	8'-5"	2'-2"	1'-8"
H12	3/4"ø	4	6'-4"		
H21	" "	4	13'-6"		
V9	" "	16	4'-9"		
V10	" "	33	3'-6"		
H22	" "	8	10'-0"	8'-0"	
H23	" "	2	9'-6"	7'-6"	
H24	" "	2	8'-3"	6'-3"	
H25	" "	2	7'-0"	5'-0"	
H26	" "	2	5'-9"	3'-9"	
H27	" "	2	4'-6"	2'-6"	
H28	3/4"ø	2	3'-3"	1'-3"	
AS3	3/4"ø	6	6'-6"		

BENDING DIAGRAM



LIST OF STRAIGHT BARS-ABUTMENT NO. 1

MARK	SIZE	NO. REQ'D.	LENGTH	MARK	SIZE	NO. REQ'D.	LENGTH	MARK	SIZE	NO. REQ'D.	LENGTH
C1	1 1/16"ø	5	15'-5"	C5	3/4"ø	6	15'-5"	H11	1/2"ø	2	3'-0"
C1A	1 1/16"ø	5	11'-5"	C5A	3/4"ø	6	11'-5"	V1	1/2"ø	20	5'-0"
				C6	3/4"ø	16	5'-9"	V2	1/2"ø	17	4'-4"
C2	1 1/16"ø	2	9'-6"	C7	3/4"ø	28	12'-8"	V3	1/2"ø	4	11'-10"
C4	1 1/16"ø	4	11'-5"	H5	3/4"ø	11	27'-6"	V4	1/2"ø	4	10'-4"
				H6	3/4"ø	14	7'-6"	V5	1/2"ø	4	8'-10"
H4	3/4"ø	10	27'-6"	H7	3/4"ø	9	27'-10"	V6	1/2"ø	4	7'-4"
				H8	3/4"ø	4	2'-11"	V7	1/2"ø	4	5'-10"
F4	3/4"ø	14	5'-6"					V8	1/2"ø	4	4'-4"
F5	3/4"ø	12	12'-4"	H9	1/2"ø	6	29'-0"	AS1	3/8"ø	20	3'-6"
F6	3/4"ø	16	5'-6"	H10	1/2"ø	1	27'-6"	AS2	3/8"ø	8	4'-0"

SHEET NO. 2 OF 2
DETAILS OF ABUTMENT NO. 1
VIADUCT OVER SL. & SF. RY.
LAFAYETTE ST-FAYETTEVILLE
WASHINGTON COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

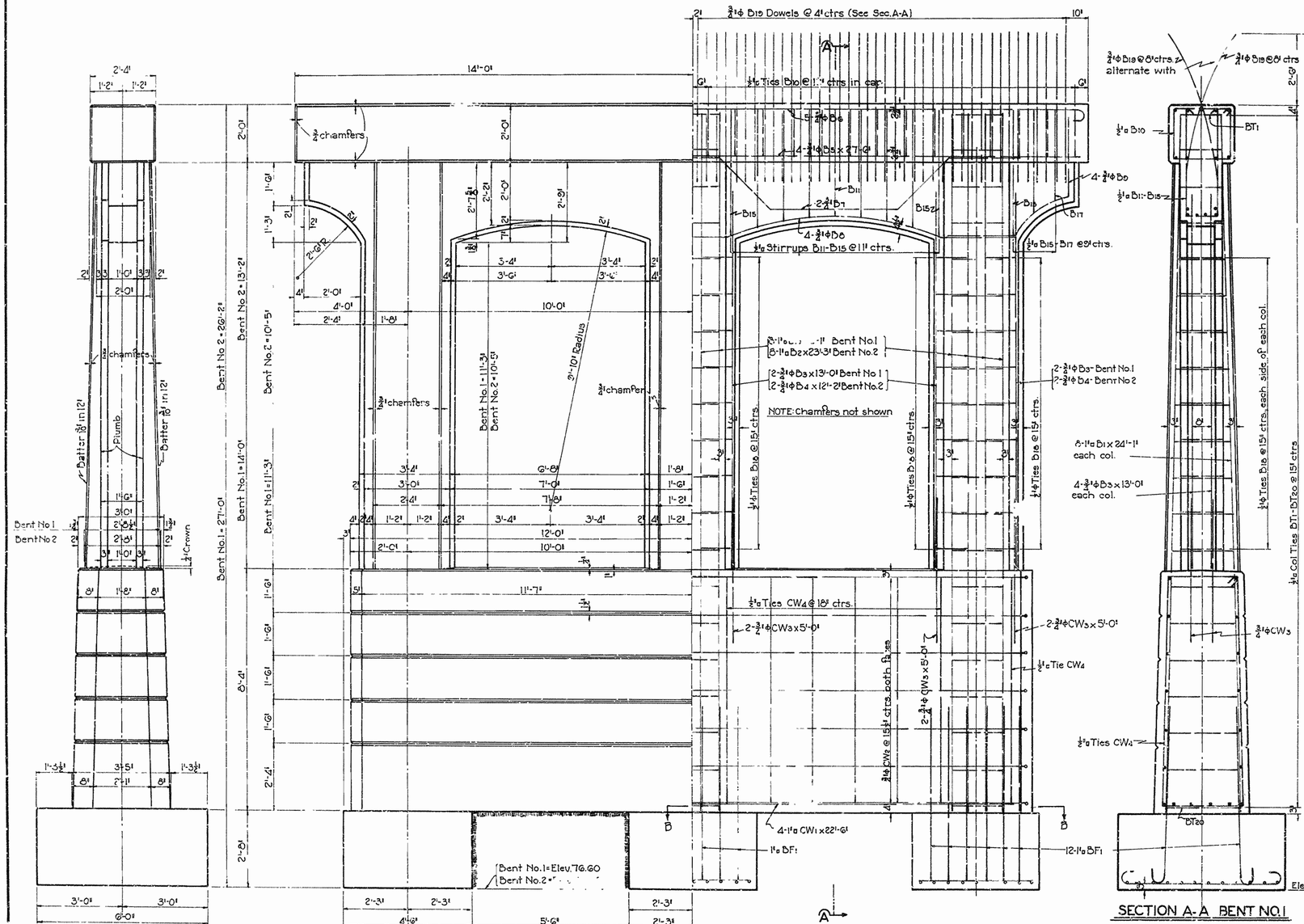
Drawn By: W. H. Date: 12-14-38
Traced By: C.W.J. Date: Jan. 20-39
Checked By: Date:
Scale: 1 in. = 1'-0" ft.

BRIDGE NO. 19-.1
DRAWING NO. 4849

M. R. Sawyer
BRIDGE ENGINEER

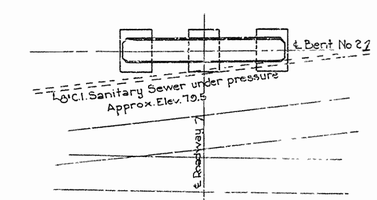
PRINTED ON IMPERIAL TRACING CLOTH K & E CO., N. Y.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAGM 1-A(1)	1938	10	44
STATE JOB NO. 9163					



BAR LISTS - BENT NO. 1 AND 2

MARK	SIZE	NO. REQD. BENT #1	NO. REQD. BENT #2	LENGTH	A	BENDING DIAGRAM
BF1	1" ▫	36	36	7'-0"		BF1 6'-0"
CW1	1" ▫	4	4	22'-6"		
B1	1" ▫	24		24'-1"		
B2	1" ▫		24	23'-3"		
B3	3/4" ϕ	12		13'-0"		Straight CW2 23'-0"
B4	3/4" ϕ		12	12'-2"		
B5	3/4" ϕ	4	4	27'-6"		
CW3	3/4" ϕ	12	12	5'-0"		
CW2	3/4" ϕ	14	14	27'-0"		
B19	3/4" ϕ	80	80	5'-6"		B19 10" R
B8	3/4" ϕ	8	8	7'-8"		
B6	3/4" ϕ	4	4	23'-0"		B6 7'-10" 2'-6" 7'-8" 2'-4" 7'-8" 2'-6" 7'-10" 10" R
B7	3/4" ϕ	2	2	26'-0"		B7 2'-6" 1'-6" 4'-6" 1'-6" 2'-0" 4'-2" 1'-6" 2'-6"
B9	3/4" ϕ	5	5	28'-8"		
BF2	3/4" ϕ	27	27	6'-8"		B9 & BF2 B9 = 27'-6" BF2 = 5'-6"
BF3	3/4" ϕ	36	36	4'-0"		Straight
CW4	1/2" ▫	14	14	22'-0"		
BT1 to BT18	1/2" ▫	3 Each	3 Each	Varies 7'-10" to 10'-1"	Varies 1'-6 3/4" to 2'-8 3/4"	A BT1-BT20 B10 2'-6" 7'-11" CW4 2'-11"
BT20	1/2" ▫	3		10'-3"	2'-8"	
B10	1/2" ▫	28	28	8'-0"	1'-8"	
B11	1/2" ▫	2	2	8'-2"	3'-8"	
B12	1/2" ▫	4	4	8'-3"	3'-8 1/2"	
B13	1/2" ▫	4	4	8'-6"	3'-10"	
B14	1/2" ▫	4	4	8'-11"	4'-0 1/2"	
B15	1/2" ▫	6	6	10'-7"	4'-4 1/2"	
B16	1/2" ▫	2	2	8'-0"	3'-1"	
B17	1/2" ▫	2	2	8'-2"	3'-2"	
B18	1/2" ϕ	54	54	3'-0"		



PLAN OF FOOTINGS FOR BENT NO. 2 - SHOWING LOCATION OF SANITARY SEWER
Scale 1" = 10'-0"

GENERAL NOTES

All concrete to be Class 'A' Exposed corners to be chamfered as shown.

Dimensions relating to reinforcing steel are to centers of bars

For detail of superstructure, see Drwg. Nos. 4846 & 4847

DETAILS OF BENTS NO. 1 & 2
VIADUCT OVER SL & SF RY.
LAFAYETTE STREET
FAYETTEVILLE ARK.
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: W.L.H. Date: 4-5-36
Traced By: C.B.D. Date: 4-6-36
Checked By: J. Date:

Scale: 1/2" in. = 1'-0" ft.

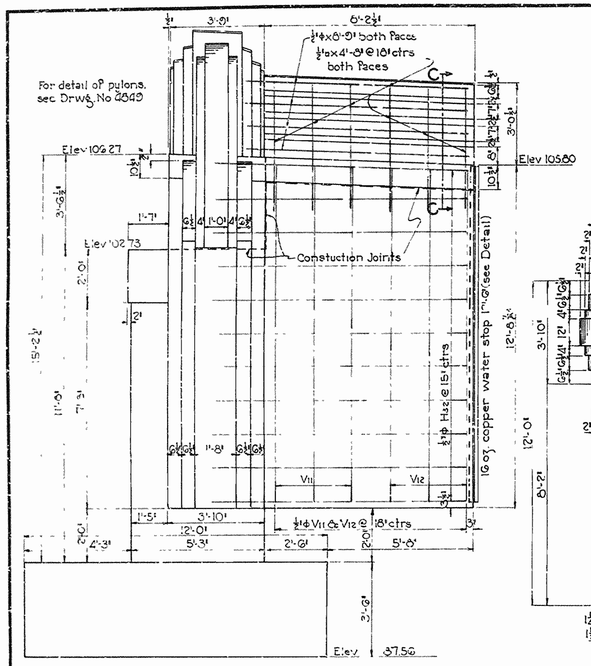
N. B. Garver
BRIDGE ENGINEER

BRIDGE No. 1941 DRAWING No. 4850

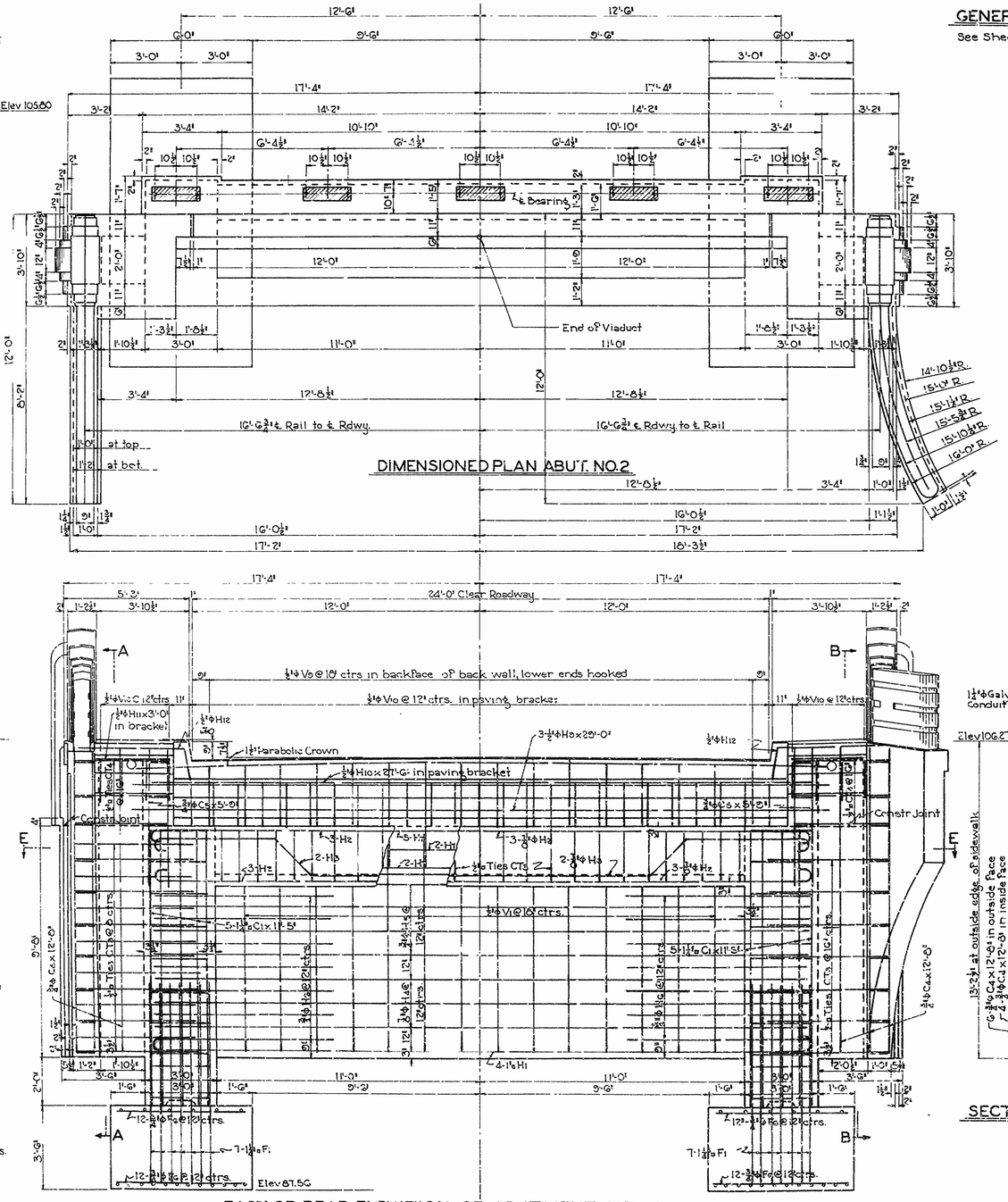
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAGM 1-A(1)	1938	11	44
STATE JOB NO. 9169					

GENERAL NOTES

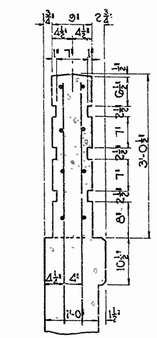
See Sheet No. 2, Drwg. No. 4852



SOUTH ELEV. ABUT. NO. 2 - SHOWING WING REINF.

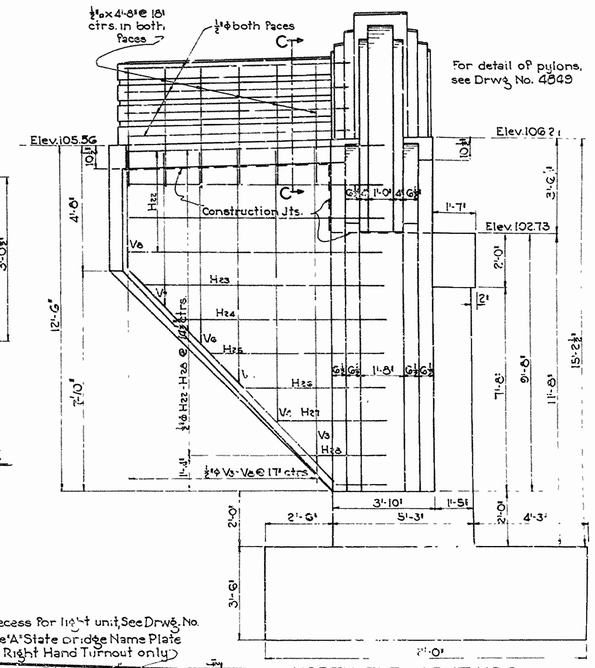


DIMENSIONED PLAN ABUT. NO. 2

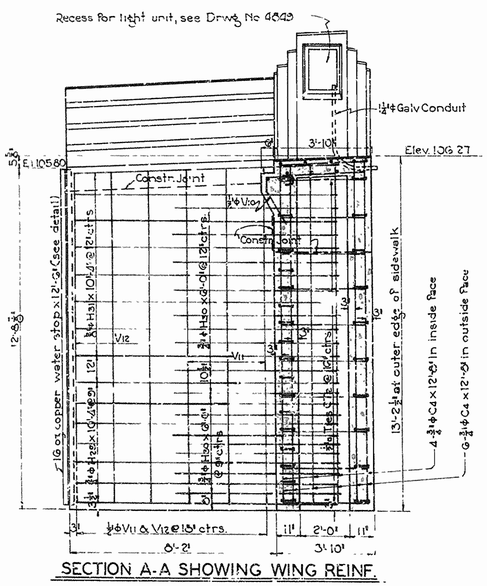


SECTION C-C

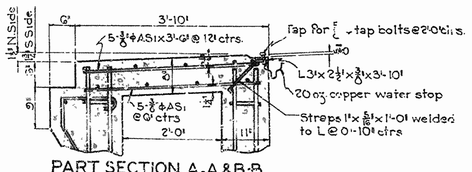
Scale: ¾" = 1'-0"



NORTH ELEV. ABUT. NO. 2

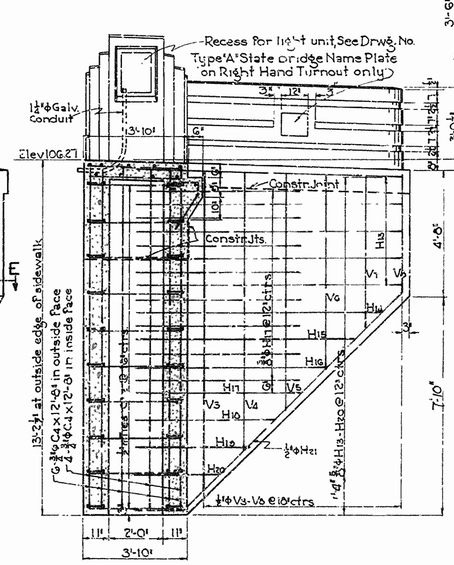


SECTION A-A SHOWING WING REINF.

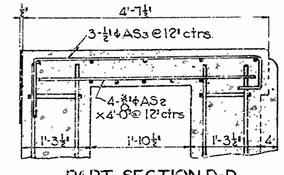


PART SECTION A-A & B-B

Scale ¾" = 1'-0"



SECTION B-B SHOWING REINF. IN WING



PART SECTION D-D

Scale: ¾" = 1'-0"

EAST OR REAR ELEVATION OF ABUTMENT NO. 2

Showing back face reinforcing steel

SHEET NO. 1 OF 2
DETAILS OF ABUTMENT NO. 2
VIADUCT OVER SL&SF RY.
LAFAYETTE ST., FAYETTEVILLE
WASHINGTON COUNTY
ROUTE SEC.

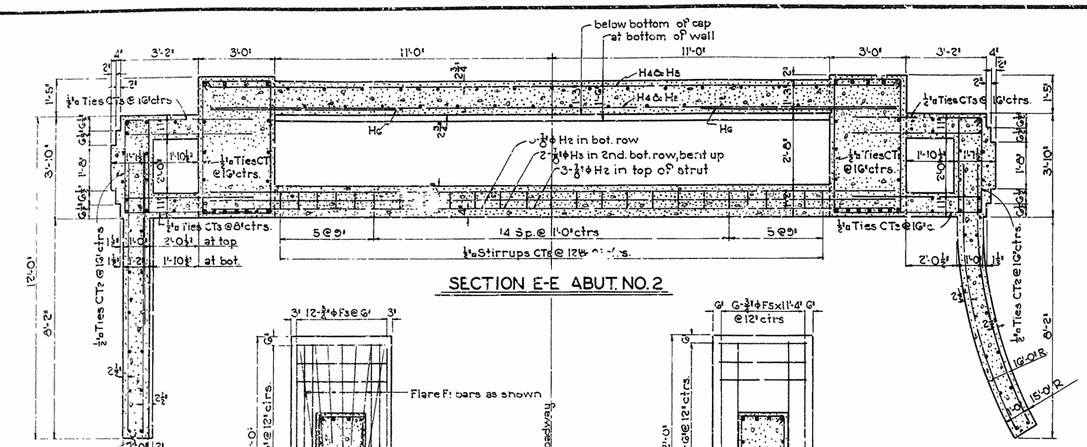
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: W.C.H. Date: 4-22-38
Traced By: C.B.J.P. Date: 5-4-38
Checked By: ___ Date: ___
Scale: ⅜" in. = 1'-0" ft. and as noted

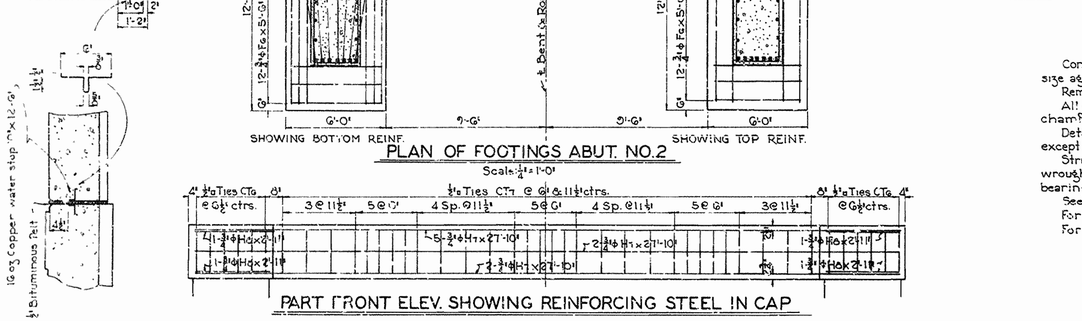
BRIDGE NO. 1941 DRAWING NO. 4851

H. B. Garner
BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAGM 1-A(1)	1938	12	44
STATE JOB NO. 9169					

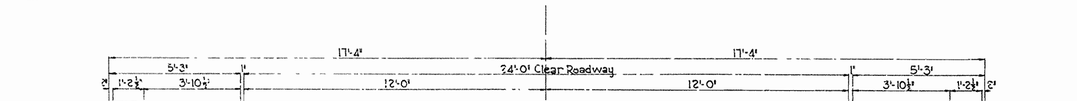


SECTION E-E ABUT. NO. 2

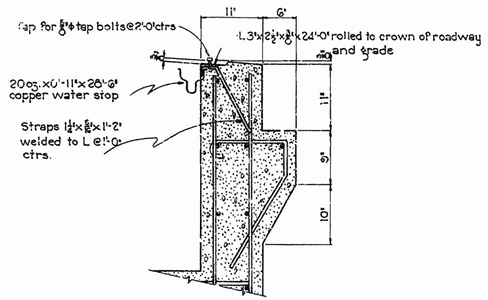


PLAN OF FOOTINGS ABUT. NO. 2

Scale: 1/4" = 1'-0"



PART FRONT ELEV. SHOWING REINFORCING STEEL IN CAP



PART SECTION F-F

Scale: 1" = 1'-0"

GENERAL NOTES

Concrete in Turnouts and Pylons above top of sidewalk to be Class 'S', maximum size aggregate to be 3/4".

Remainder of Abutment No. 2, to be Class 'A'.

All exposed corners, except corners of Turnouts and Pylons, to be chamfered 3/4" unless otherwise noted.

Details of Turnouts and Pylons are similar to those for Abutment No. 1 except as noted.

Structural steel roadway expansion devices, 20 oz. copper water stop, and wrought iron drain pipes to be paid for at the unit price bid for "metal bearing and roadway expansion devices".

See Drawing No. 4849 for detail of wrought iron drain.

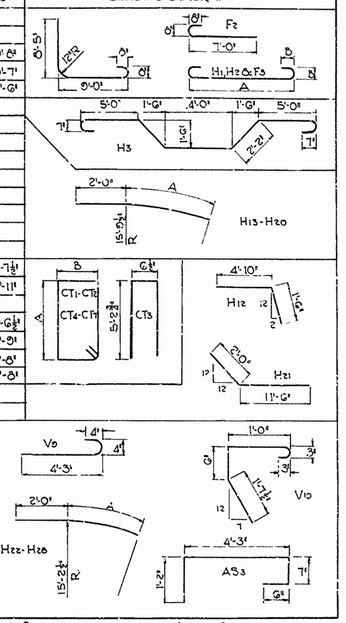
For detail of superstructure, see Drwg. Nos. 4846 & 4847

For remainder of details of Abut. No. 2, see Drwg. No. 4851

LIST OF BENT BARS-ABUTMENT NO. 2

MARK	SIZE	NO REQ'D	LENGTH	A	B
F1	1 1/4"φ	14	18'-0"		
F2	1 1/4"φ	6	8'-0"		
H1	1"φ	4	29'-3"	27'-3"	0'-8"
H2	3/4"φ	6	29'-0"	27'-3"	0'-7"
F3	3/4"φ	24	12'-10"	11'-4"	0'-6"
H3	3/4"φ	2	30'-1"		
H13	3/4"φ	5	10'-4"	8'-4"	
H14	" "	1	9'-8"	7'-8"	
H15	" "	1	8'-8"	6'-8"	
H16	" "	1	7'-7"	5'-7"	
H17	" "	9	6'-6"	4'-6"	
H18	" "	1	5'-5"	3'-5"	
H19	" "	1	4'-4"	2'-4"	
H20	3/4"φ	1	3'-3"	1'-3"	
CT1	1/2"φ	20	15'-0"	4'-10 1/2"	2'-7 1/2"
CT2	" "	26	9'-6"	3'-5 1/2"	0'-11"
CT3	" "	35	11'-0"		
CT4	" "	12	10'-0"	4'-1"	0'-6 1/2"
CT5	" "	25	6'-6"	2'-1 1/2"	0'-9"
CT6	" "	12	8'-5"	2'-2"	1'-8"
CT7	1/2"φ	30	8'-1"	2'-0"	1'-8"
H12	1/2"φ	4	6'-4"		
H21	" "	4	13'-6"		
V6	" "	16	4'-9"		
V10	" "	33	3'-6"		
H22	" "	4	10'-0"	8'-0"	
H23	" "	1	9'-6"	7'-6"	
H24	" "	1	8'-2"	6'-2"	
H25	" "	1	6'-11"	4'-11"	
H26	" "	1	5'-7"	3'-7"	
H27	" "	1	4'-4"	2'-4"	
H28	1/2"φ	1	3'-0"	1'-0"	
AS3	3/4"φ	6	6'-6"		

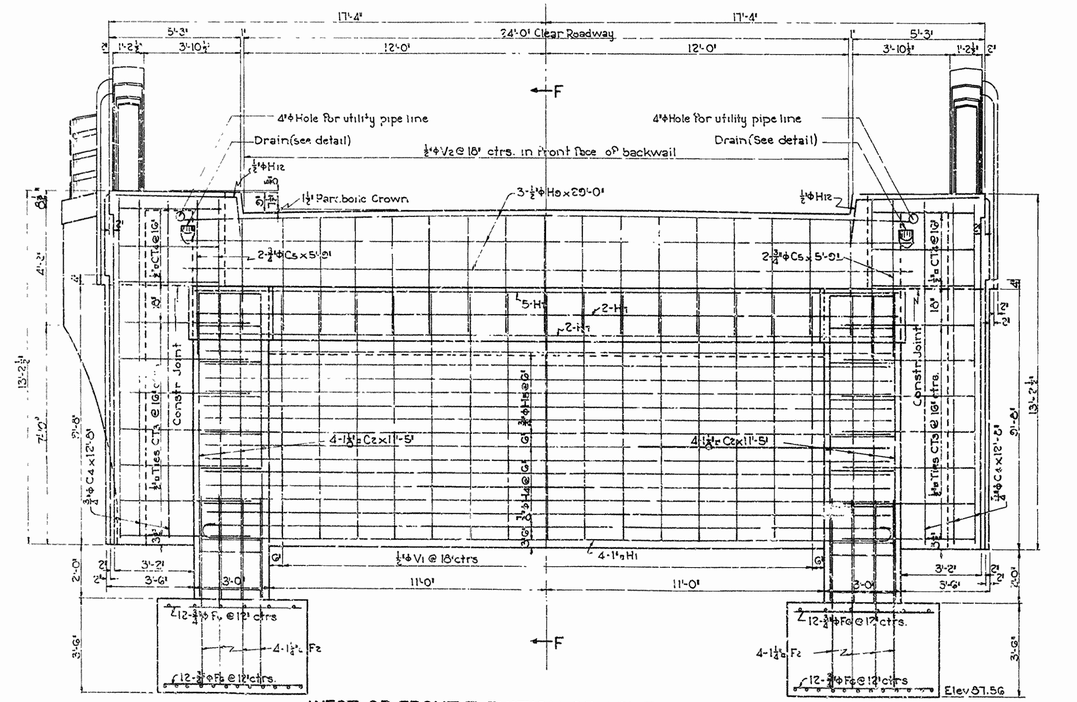
BENDING DIAGRAM



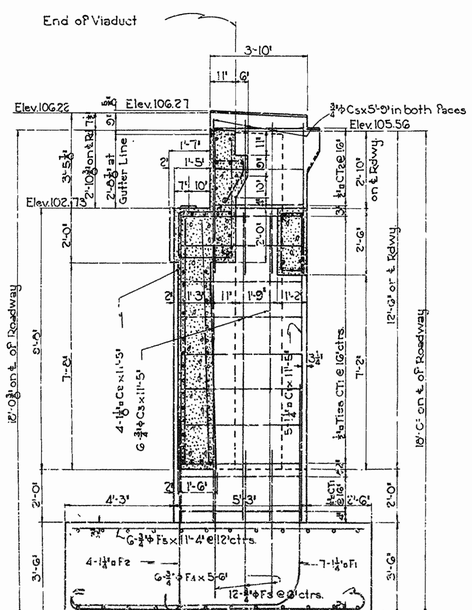
NOTE: Dimensions relating to reinforcing steel are to centers of bars.

LIST OF STRAIGHT BARS-ABUT. NO. 2

MARK	SIZE	NO. REQ'D	LENGTH	MARK	SIZE	NO. REQ'D	LENGTH	MARK	SIZE	NO. REQ'D	LENGTH
C1	1 1/4"φ	10	11'-5"	H7	3/4"φ	9	27'-10"	V4	1/2"φ	2	10'-4"
				H8	3/4"φ	4	2'-11"	V5	1/2"φ	2	8'-10"
C2	1 1/4"φ	6	11'-5"	H28	3/4"φ	7	10'-4"	V6	1/2"φ	2	7'-4"
				H30	3/4"φ	13	6'-0"	V7	1/2"φ	2	5'-10"
H4	3/4"φ	10	27'-6"					V8	1/2"φ	2	4'-4"
				H31	3/4"φ	6	10'-4"	V11	1/2"φ	6	12'-6"
F4	3/4"φ	12	5'-6"					V12	1/2"φ	6	12'-6"
F5	3/4"φ	12	11'-4"	H32	3/4"φ	11	10'-0"				
F6	3/4"φ	48	5'-6"	H5	1/2"φ	6	29'-0"				
				H10	1/2"φ	1	27'-6"	AS1	3/4"φ	20	3'-6"
C3	3/4"φ	12	11'-5"	H11	1/2"φ	2	3'-0"	AS2	3/4"φ	6	4'-0"
C4	3/4"φ	26	12'-6"								
C5	3/4"φ	16	5'-6"	V1	1/2"φ	25	5'-0"				
H9	3/4"φ	11	27'-6"	V2	1/2"φ	17	4'-4"				
H6	3/4"φ	14	7'-6"	V3	1/2"φ	2	11'-10"				



WEST OR FRONT ELEVATION OF ABUTMENT NO. 2



SECTION F-F SHOWING COL. & FOOTING REINF.

Revised:- F3 & F5 bars 8-25-38 L.B.

SHEET NO. 2 OF 2
DETAILS OF ABUTMENT NO. 2
VIADUCT OVER SL&SF RY.

LAFAYETTE ST.- FAYETTEVILLE
WASHINGTON COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: W.C.H. Date: 4-25-38
Traced By: C.W. Date: 5-4-38
Checked By: C. Date: ____

Scale: 3/8" = 1'-0" ft. and as noted

N. B. Garver
BRIDGE ENGINEER

BRIDGE No. 1941

DRAWING No. 4852