

FED. ROAD DIST. NO.	STATE	F.A.G.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
G	ARK.	SN-F.A.G.H. 150(5)		1	17
STATE JOB NO. 6271					7

STATE OF ARKANSAS
STATE HIGHWAY COMMISSION

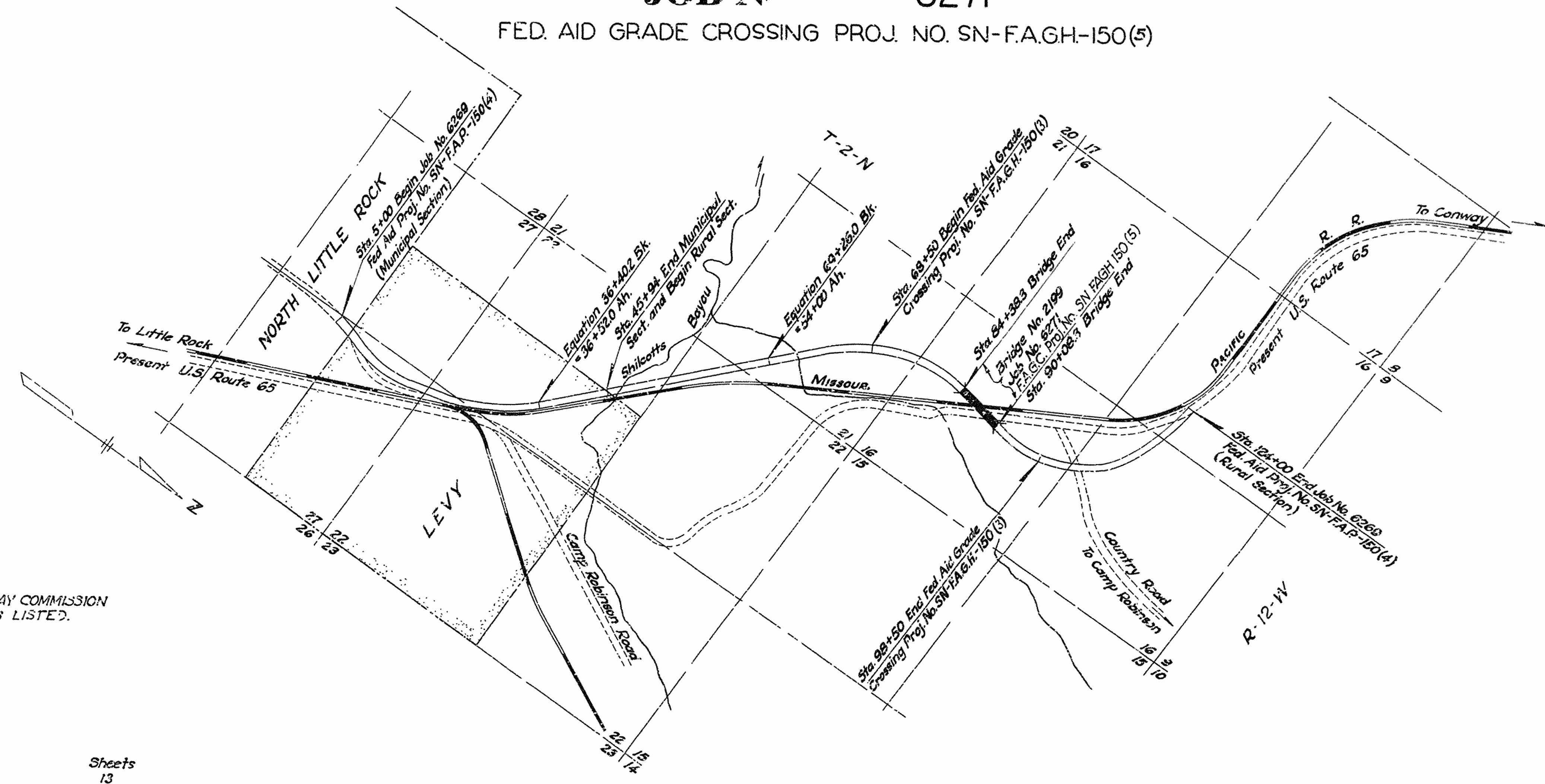
INDEX OF SHEETS

Sheet No.	Drwg. No.	Title Sheet
1	6071	Title Sheet
2	6072	Quantity Sheet
3	6073	Layout
4-6	6074-6076 Incl.	Details Abutments No. 1 & No. 2
7	6077	" Bents 1, 2, 3, 9, 10 & i.
8	6078	" " 4 & 7
9	6079	" " 5 & 6
10	6080	" Bent 8
11	5240	" Std. 45' I-Beam Span
12	6081	" 25' & 46' " "
13-14	6082-6083	" 6' 80'-61' Cont. I-Beam Span
15	2387	" Bridge Name Plates
16	1888	" Backfill for Structures
17	1891	Basis for Computing Excavation for Structures

QUANTITIES

PLAN OF PROPOSED BRIDGE
MISSOURI PACIFIC RAILROAD OVERPASS
LEVY - NORTH
PULASKI COUNTY
ROUTE 65 SEC. 11
JOB No 6271

FED. AID GRADE CROSSING PROJ. NO. SN-F.A.G.H-150(5)



SPECIFICATIONS ADOPTED BY STATE HIGHWAY COMMISSION
MARCH 1ST, 1940, WITH SPECIAL PROVISIONS LISTED.
PAMPHLETS
Division I
Division II Parts 1, 8a, 9
Division III
Division IV

No.	SPECIAL PROVISIONS	Sheets
	Required Special Provisions	13
	Wages of Labor	1
	Coordination of Work (Job 6269 & 6271)	2
7-2	Unemployment Compensation or Insurance	1
7-6	Insurance and Construction over Railroad (2-16-38)	3
	Railroad Flagging Protection (1-17-41)	1
8-3	Employment Centers for Labor	1
850-1	Engineer's Field Office	1
853-1	Machine Mixing	1
858-2	Metal Blast Plates	2

LAYOUT
Scale: 1" = 1000'

LENGTH OF PROJECT = 570' = 0.107 MI.
LENGTH OF BRIDGES = 570' = 0.107 MI.
LENGTH OF EMBANKMENT = 0
LENGTH OF JOB = 570' = 0.107 MI.

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER
FEDERAL WORKS AGENCY
PUBLIC ROADS ADMINISTRATION

APPROVED

COMMISSIONER
FEDERAL WORKS AGENCY
PUBLIC ROADS ADMINISTRATION

APPROVED

CHAIRMAN, STATE HIGHWAY COMMISSION

APPROVED

STATE HIGHWAY ENGINEER

W.C. Brown
PRINCIPAL HIGHWAY ENGINEER (BR. 382)

BRIDGE No. 2199

DRAWING No. 6071

FED. RC. DIST. NO.	STATE	F.A.S.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK	SN-F.A.G.H. 15015		2	7
STATE JOB NO. 6271				2	7

QUANTITIES CODE NO 982

Item	Unit	Abutment #1	Abutment #2	Bent #1	Bent #2	Bent #3	Bent #4	Bent #5	Bent #6	Bent #7	Bent #8	Bent #9	Bent #10	Bent #11	Spans 1 to 3 incl. and 10 to 12 incl.	Transition Spans 4 & 9	46'-0" I-Beam Span #8	Continuous I-Beam Span 5-6-7	Total
103 Dry Excavation for Structures	Cu. Yds.	50	42	52	63	64	66	16	64	22	44	22	22	22					549
103 Wet Excavation for Structures	Cu. Yds.		42					32	32	44	44	56	33	30					313
103 Solid Rock Excavation for Structures	Cu. Yds.	17	19	12	10	16	13	21	21	13	13	10	13	13					191
SP&800 Class 'A' Concrete for Bridges	Cu. Yds.	71.53	83.43	41.61	41.41	44.43	62.64	100.00	97.75	64.84	60.67	48.04	46.81	46.41					809.00
SP&800 Class 'S' Concrete for Bridges	Cu. Yds.														251.58	46.68	43.20	189.54	531.00
803 Reinforcing Steel	Lbs.	7600	10300	5329	5386	5716	8298	10990	10795	8496	7969	6107	5959	5927	48135	10462	9738	40810	208,000
805 Concrete Railing	Linear Ft.	14.5	14.5												540	100	92	404	1,165
807 Structural Steel in Beam Spans	Lbs.	620	620												201510	43450	38500	209770	494,500
SP&800 Metal Bles' Plates	Lbs.																	16400	16,400
929 Bridge Name Plates Type 'A'	Each		1																2

QUANTITY SHEET
 VIADUCT OVER MISSOURI PACIFIC R. R.
 LEVY-NORTH ROAD
 PULASKI COUNTY
 ROUTE 65 SEC. 11

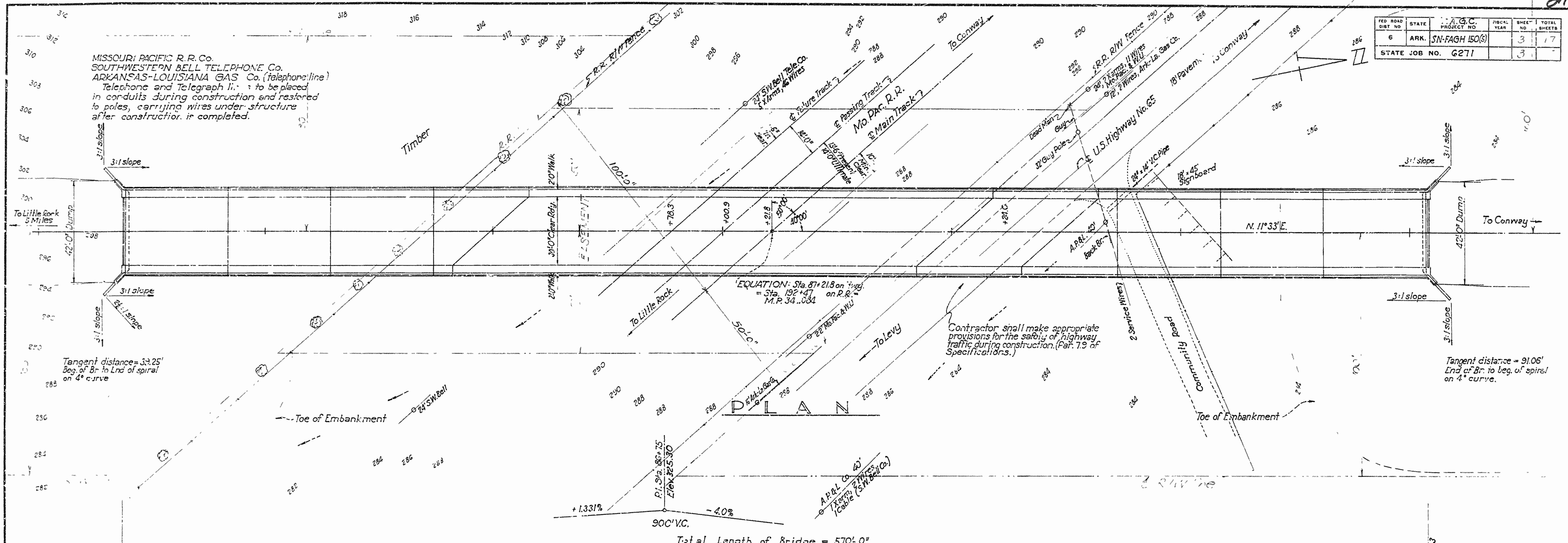
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: L.P.C. Date: 1-15-41
 Traced By: E.R.B. Date: 1-15-41
 Checked By: _____ Date: _____
 BRIDGE NO. 2199 DRAWING NO. 6072

N. O. Banner
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

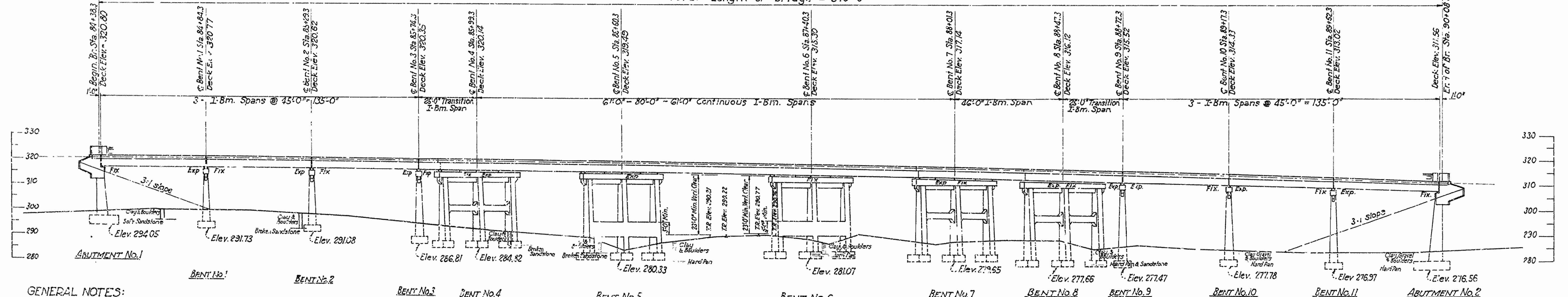
Scale: _____ in. = _____ ft.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	SN-FAGH 150(5)		3	17
STATE JOB NO. 6271				3	

MISSOURI PACIFIC R.R. Co.
SOUTHWESTERN BELL TELEPHONE Co.
ARKANSAS-LOUISIANA GAS Co. (telephone line)
Telephone and Telegraph lines to be placed in conduits during construction and restored to poles, carrying wires under structure after construction is completed.



Total Length of Bridge = 570'-0"



ELEVATION

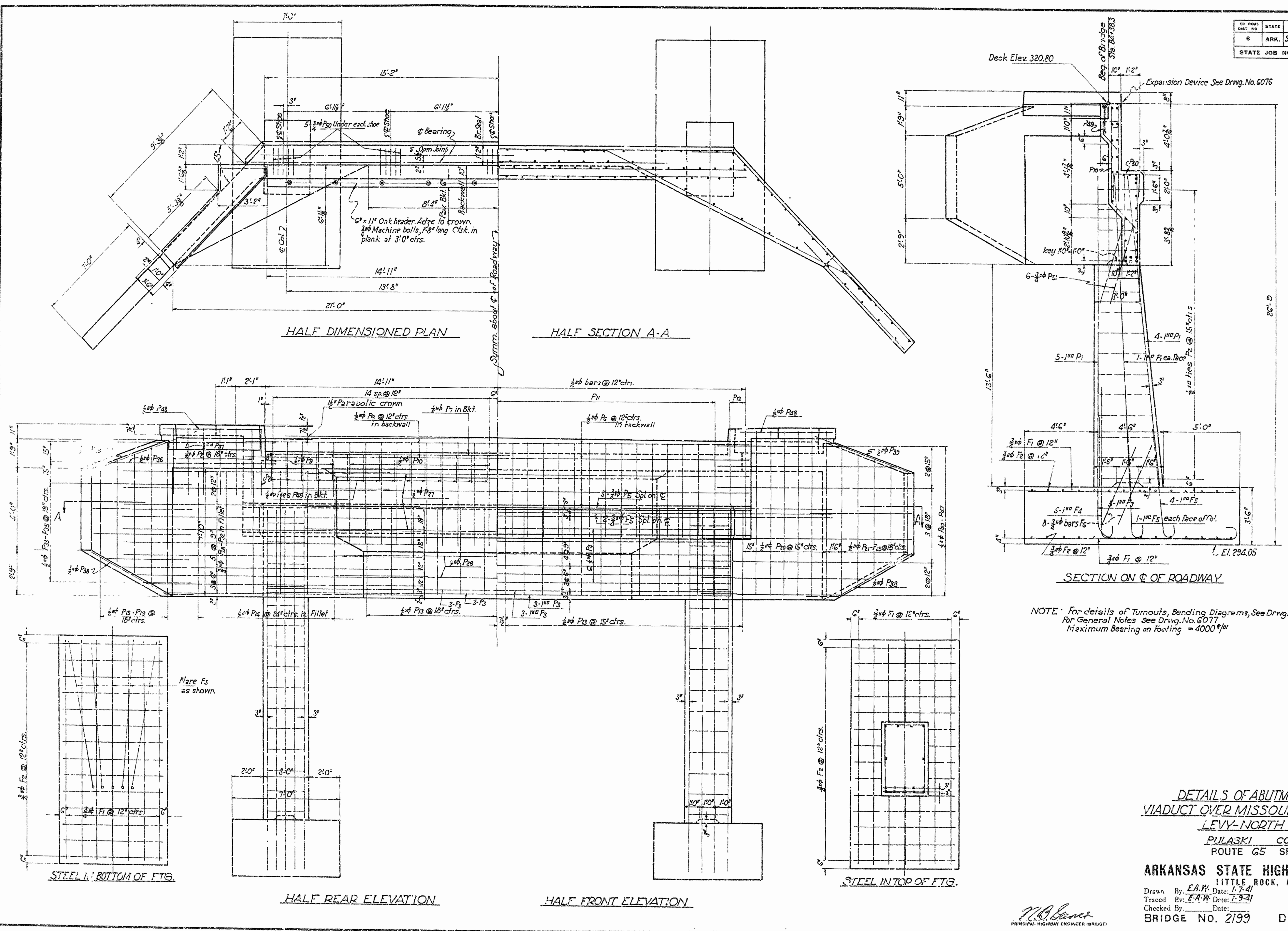
GENERAL NOTES:
 All concrete to be poured in the dry.
 Rock excavation shall be done to neat lines of footings. Care shall be exercised to avoid shattering of rock faces by excessive blasting.
 Excavation shall be adequately sheeted and braced to prevent danger to adjacent tracks. Sheeting or other obstruction shall not be allowed to extend above top of rail when closer than 8'-0" from E of track.
 Contractor shall submit to the Highway Commission, details of falsework over track area for approval by the Railroad Company, before construction is begun.
 Contractor shall provide 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.
 For details of Abutments, See Drawgs. 6074-6076 Incl.
 For details of Bents, See Drawgs. 6077-6080 Incl.
 For details of Superstructure, See Drawgs. 5240 & 6081-6083 Incl.

LAYOUT OF VIADUCT OVER MISSOURI PACIFIC R.R. LEVY - NORTH ROAD PULASKI COUNTY

ROUTE 65 SEC. 11
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: H.B. Date: 12-28-40
 Traced By: E.A.W. Date: 12-22-40
 Checked By: _____ Date: _____
 BRIDGE NO. 2159 DRAWING NO. 6073
 Code No. 382

H. B. Kerner
 PRINCIPAL HIGHWAY ENGINEER (IBSIDE)

ROAD DIST. NO.	STATE	F.A.G.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	S-N FAGH 150(3)		4	15
STATE JOB NO. 6271				4	15



NOTE: For details of Turnouts, Bending Diagrams, See Drwg. No. 6076
 For General Notes see Drwg. No. 6077
 Maximum Bearing on Footing = 4000#/ft

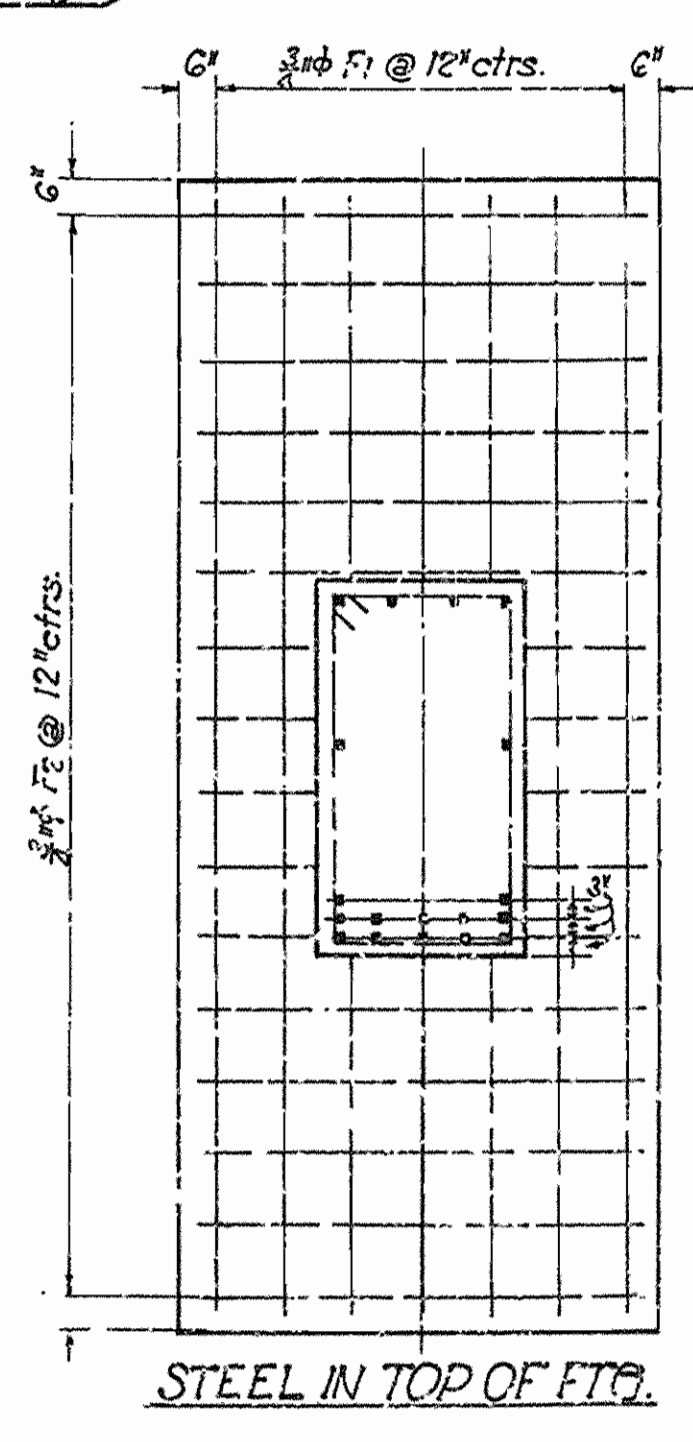
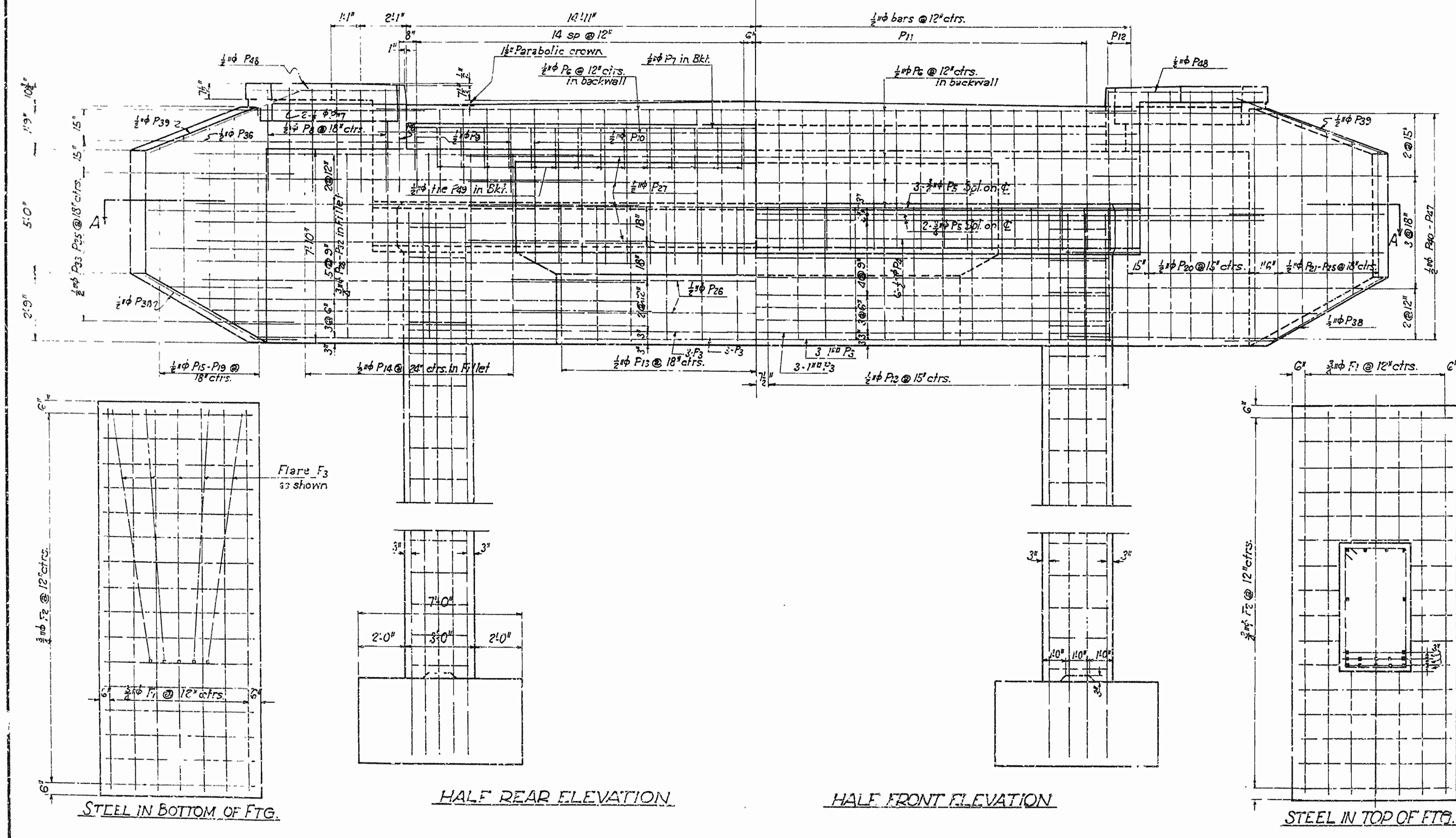
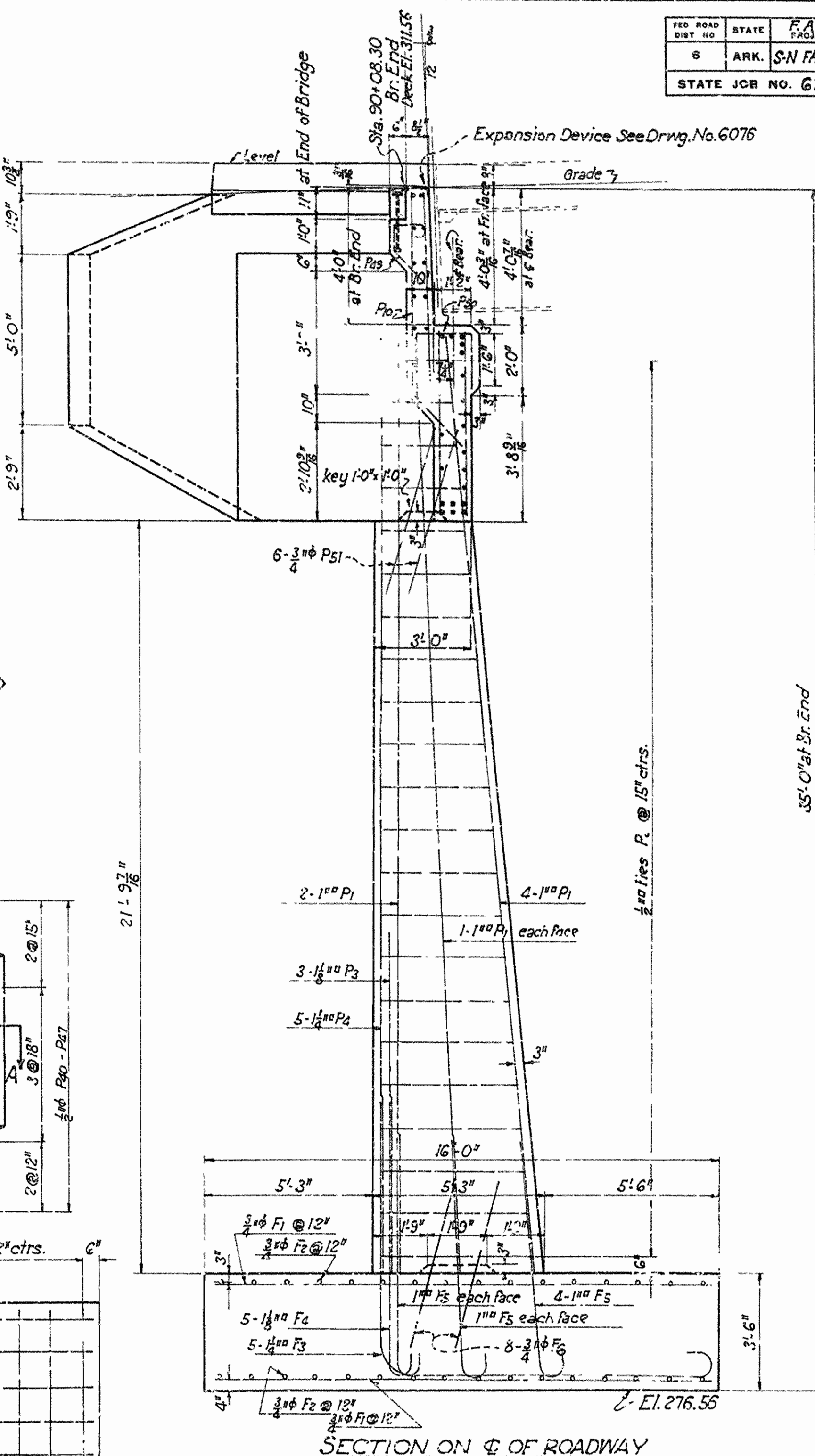
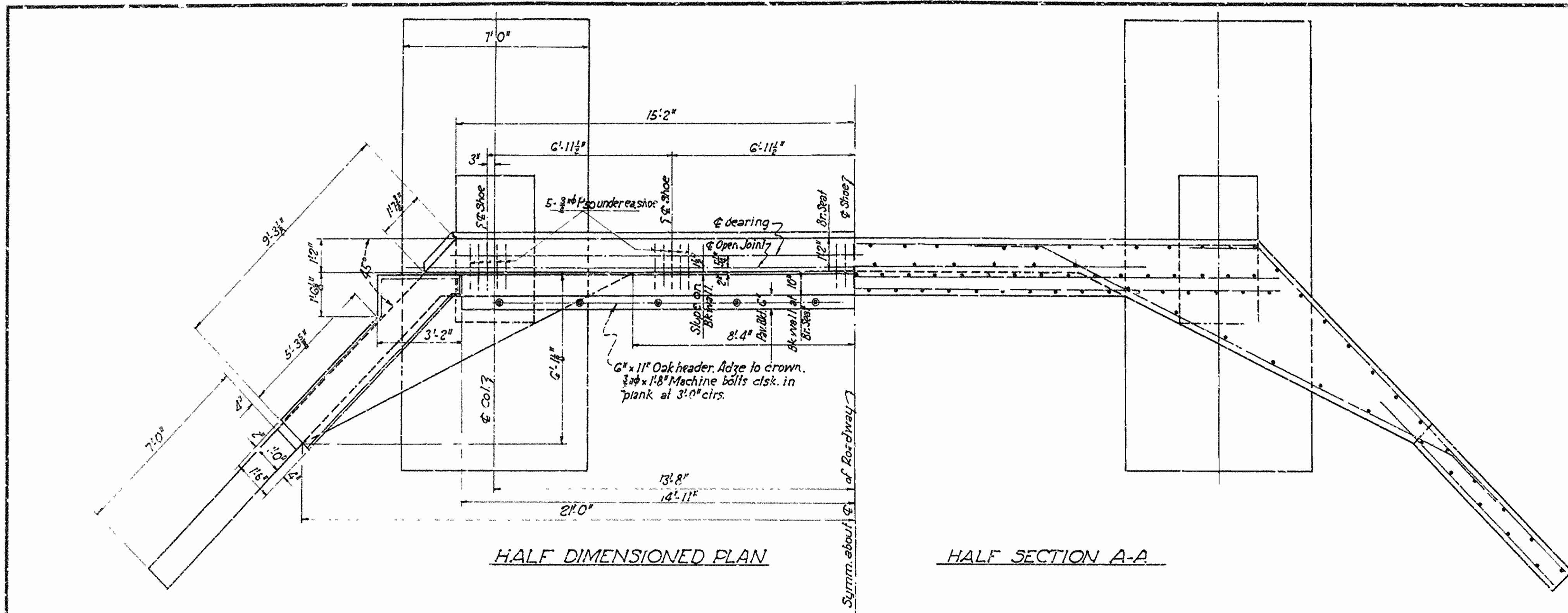
DETAILS OF ABUTMENT NO. 1
 VIADUCT OVER MISSOURI PACIFIC R.R.
 LEVY-NORTH ROAD
 PULASKI COUNTY
 ROUTE 65 SEC. 11

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: E.A.W. Date: 1-7-41
 Traced By: E.A.W. Date: 1-9-41
 Checked By: _____ Date: _____
 BRIDGE NO. 2199 DRAWING NO. 3074
 Scale: 3/8" = 1'

M.B. Baker
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	F.A.C.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
G	ARK.	S.N. FAGH 1503		5	

STATE JOB NO. 6271



DETAILS OF ABUTMENT No. 2
VIADUCT OVER MISSOURI PACIFIC R.R.
LEVY-NORTH ROAD
PULASKI COUNTY
ROUTE 65 SEC. 11

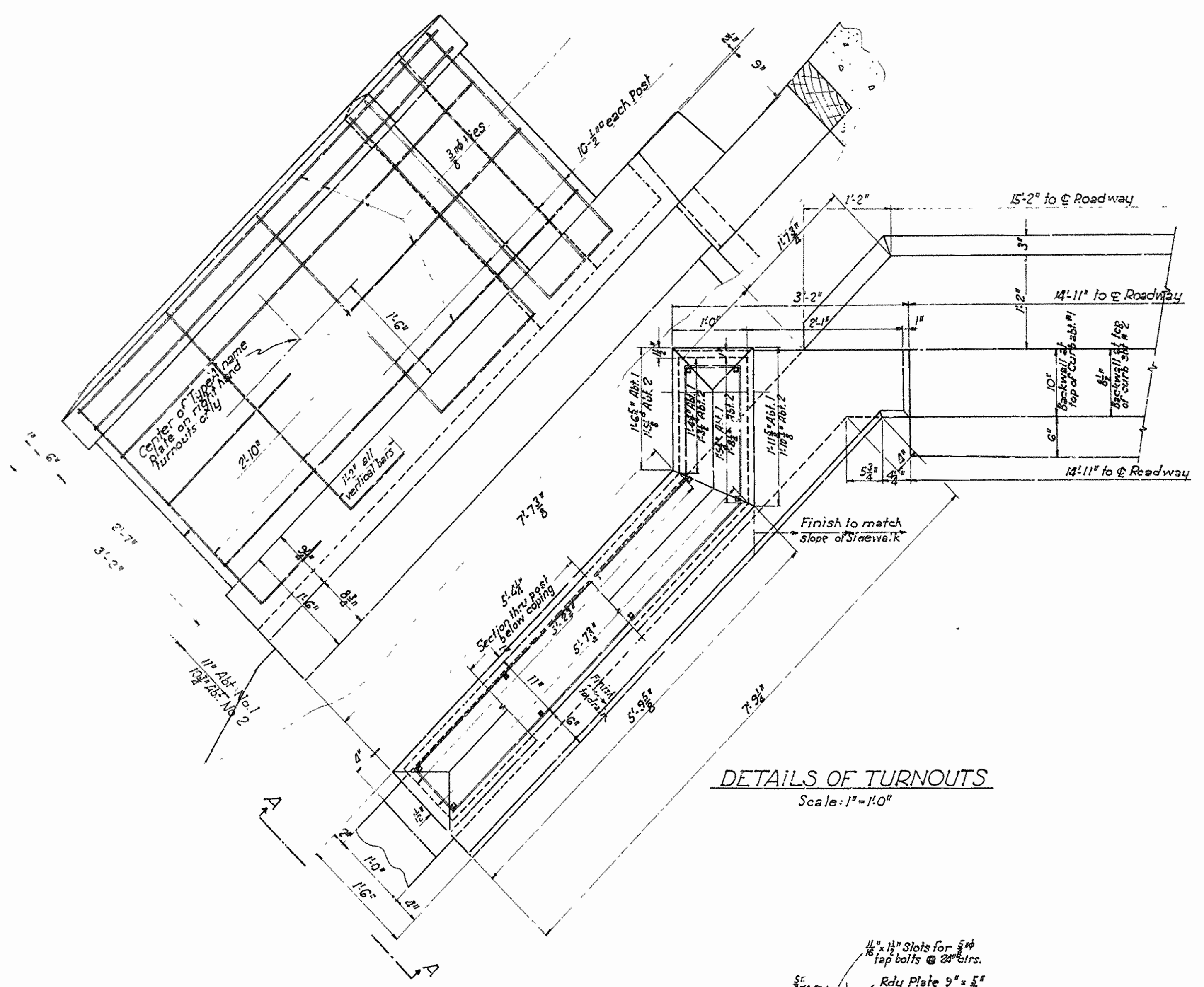
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: E.A.W. Date: 1-9-41
Traced By: E.A.W. Date: 1-9-41
Checked By: Date:
BRIDGE NO. 2199 DRAWING NO. 6075

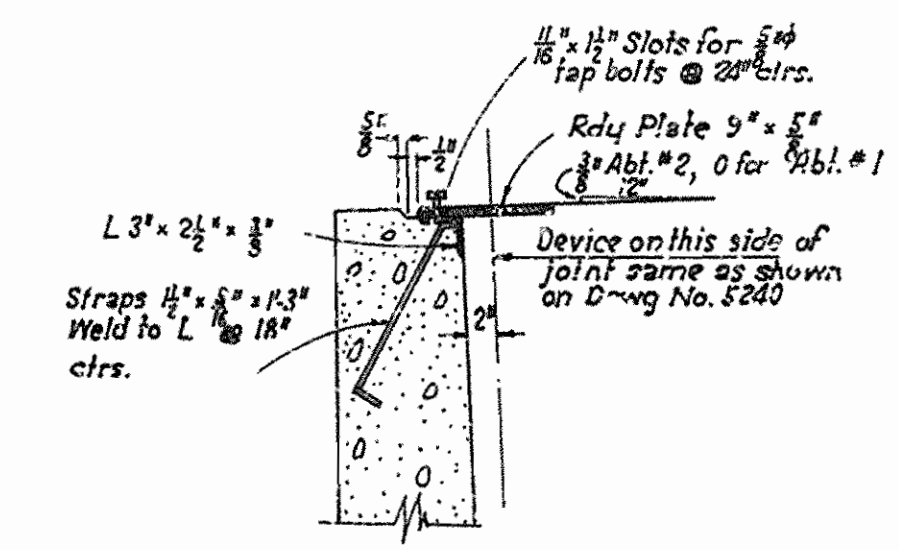
Scale: $\frac{3}{8}$ in. = 1 ft.

E.A.W.
STATE HIGHWAY ENGINEER (BRIDGE)

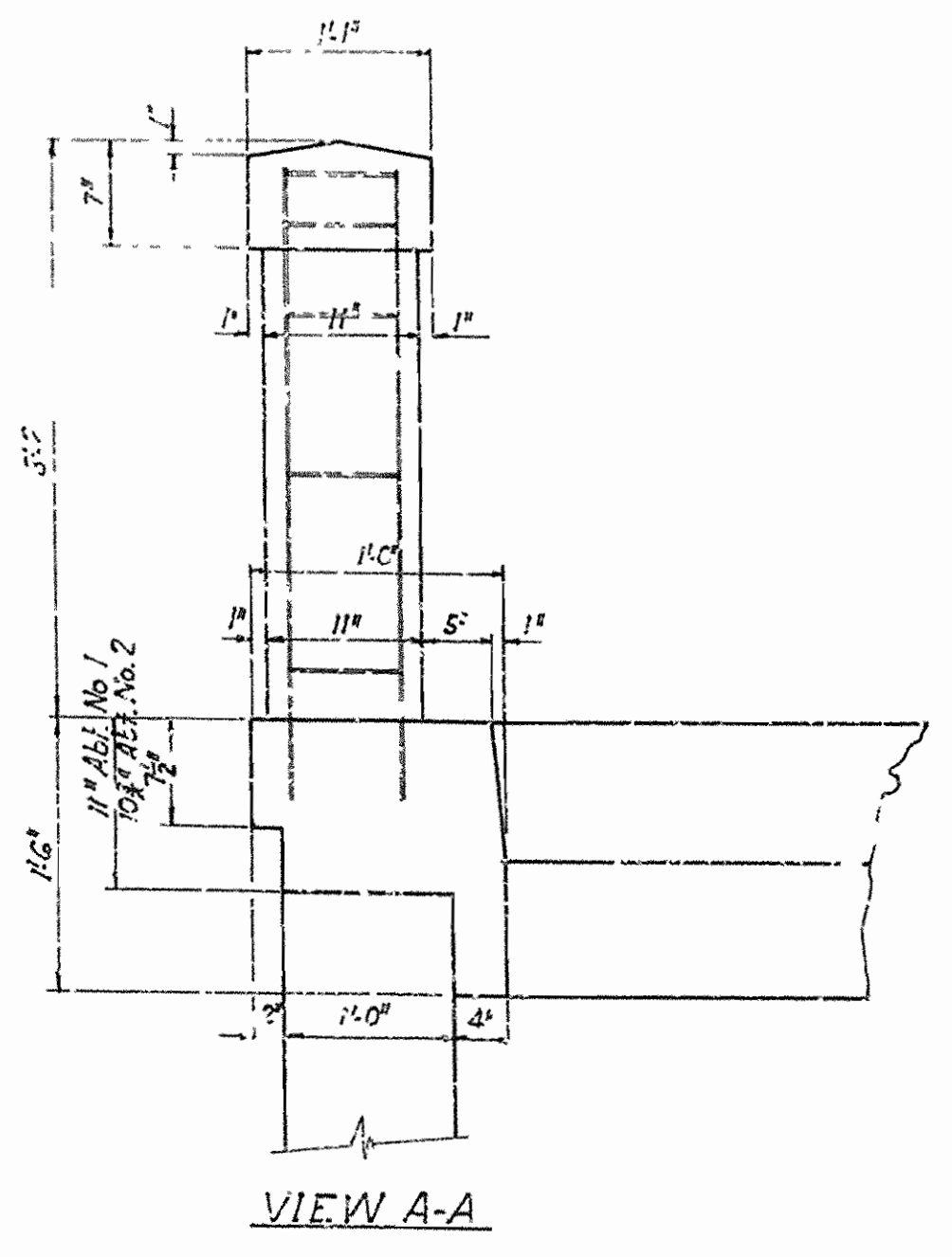
FED. ROAD DIST. NO.	STATE	F.A.C.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	S-N FACH 150(S)		6	17
STATE JOB NO. G271				6	17



DETAILS OF TURNOUTS
Scale: 1"=10'



DETAIL OF EXPANSION DEVICE ON ABUTMENT BACKWALL
Scale: 1"=10'
Sidewalk device same as on 45' Span, See Drwg. #5220



VIEW A-A

LIST OF BENT BARS ABUTMENT NO. 1

Mark	Size	Length	A	B	C	D	Diagram
F3	1"	16'-9"	7'-3"	9'-0"			
F4	1"	10'-3"	9'-3"				
F5	1"	7'-6"	6'-6"				
P2	1/2"	12'-11" Av	Varies 2'-0" to 4'-3"	2'-7"			
P29	1/2"	4'-3"	1'-9"	1'-6"			
P5	1/2"	3'-9"	1'-1"	9"	1'-5"		
P10	1/2"	24'-9"	15'-3"	2'-6"	12"		
P36	1/2"	2'-0"	5'-9"	2'-3"	12"		
P37	1/2"	15'-0"	13'-0"	2'-0"	12"		
P38	1/2"	10'-0"	8'-0"	2'-0"	12"		
P40	1/2"	10'-0"	7'-7"	2'-5"	4 1/2"		
P41	1/2"	11'-0"	9'-0"	2'-0"	12"		
P42	1/2"	13'-6"	11'-6"	2'-0"	12"		
P43	1/2"	16'-3"	14'-3"	2'-0"	12"		
P45	1/2"	18'-0"	16'-0"	2'-0"	12"		
P47	1/2"	16'-9"	14'-9"	2'-0"	12"		
P48	1/2"	15'-0"	13'-0"	2'-0"	12"		
P47	1/2"	9'-9"	7'-9"	2'-0"	12"		
P48	1/2"	9'-9"	5'-2"	1'-6"	2'-9"	4"	
P28	3/8"	17'-11"	17'-7"	2'-0"	0		
P29	3/8"	19'-7"	17'-7"	2'-0"	0		
P30	3/8"	20'-7"	17'-7"	2'-0"	10"		
P31	3/8"	21'-7"	17'-7"	2'-0"	2'-0"		
P32	3/8"	19'-0"	15'-0"	2'-0"	2'-0"		

LIST OF BENT BARS ABUTMENT NO. 2

Mark	Size	Length	A	B	Diagrams
F3	1 1/2"	15'-0"	8'-3"	10'-3"	All diagrams same as for Abutment #1
F4	1 1/2"	9'-3"	8'-3"		
F5	1"	7'-6"	6'-6"		
P2	1/2"	12'-11" Av	Varies 2'-0" to 4'-3"	2'-7"	

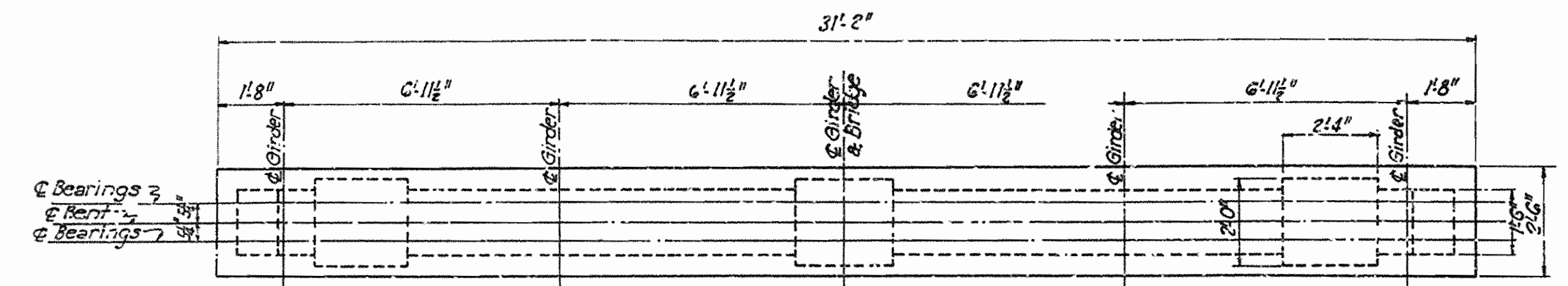
Balance of List same as Abutment #1

DETAILS OF ABUTMENTS 1 & 2
VIADUCT OVER MISSOURI PACIFIC R.R.
LEVY-NORTH ROAD
PULASKI COUNTY
ROUTE G5 SEC. 11

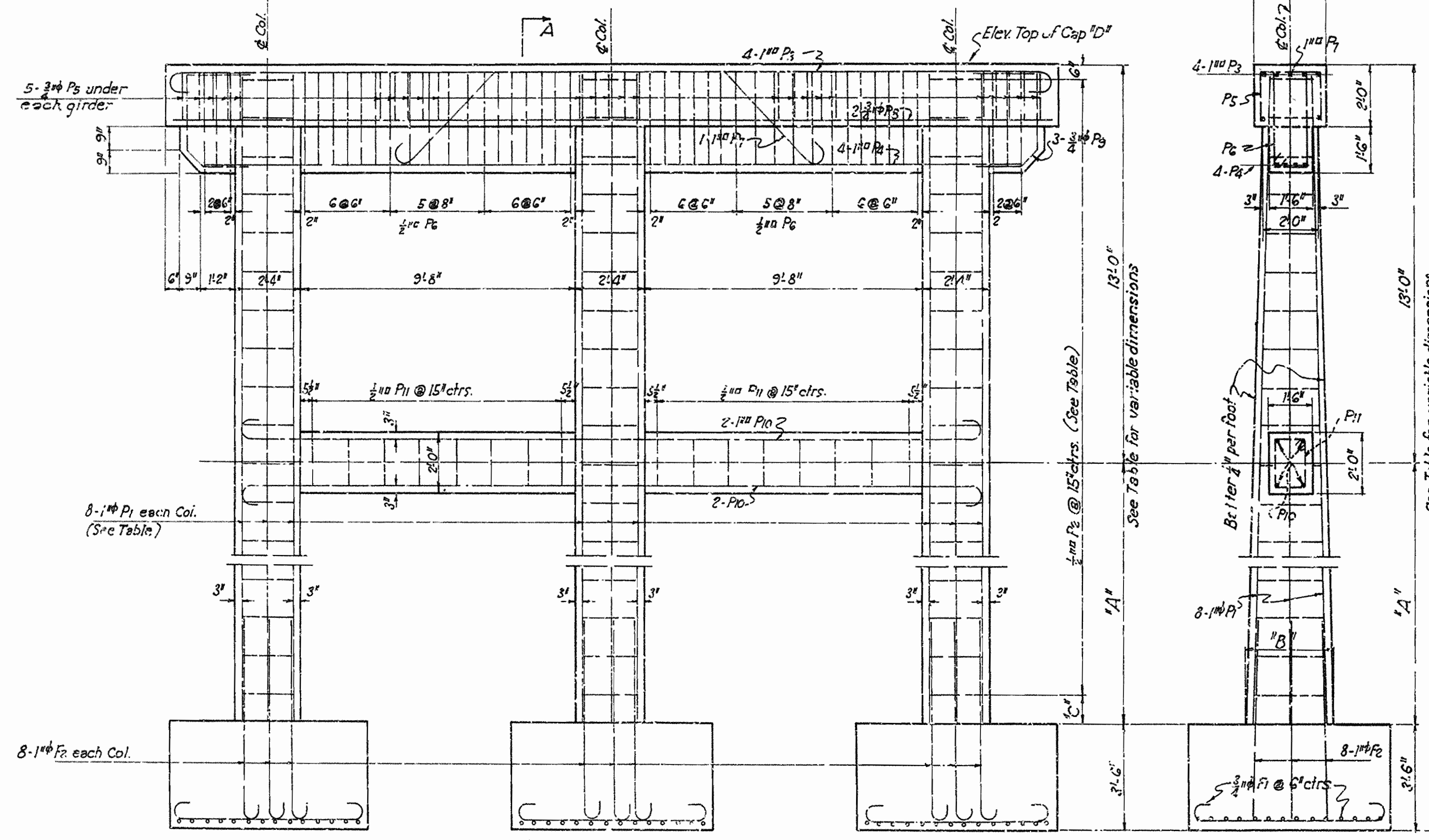
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: E.A.W. Date: 7-9-21
Traced By: E.A.W. Date: 7-10-21
Checked By: _____ Date: _____
Scale: As noted
BRIDGE NO. 2799 DRAWING NO. 607C

E.A.W.
REGISTERED CIVIL ENGINEER (EXPIRES)

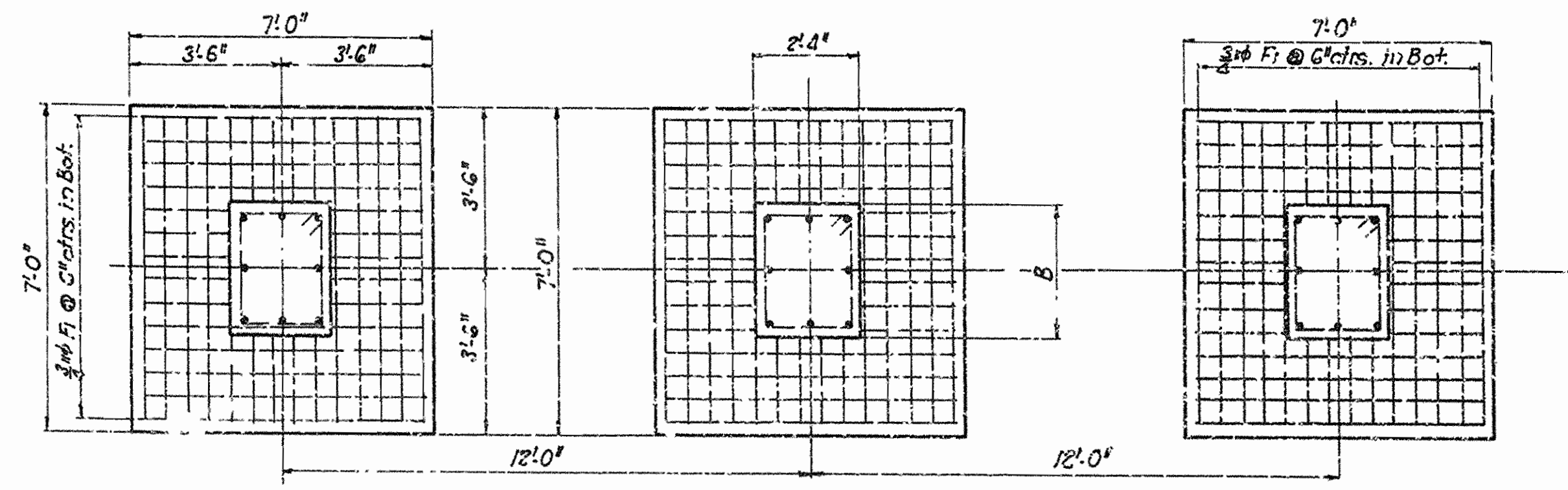
FED. ROAD DIST. NO.	STATE	F.A.G.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	SN-FRQH 15C(5)		7	17
STATE JOB NO. C271				7	17



CAP PLAN



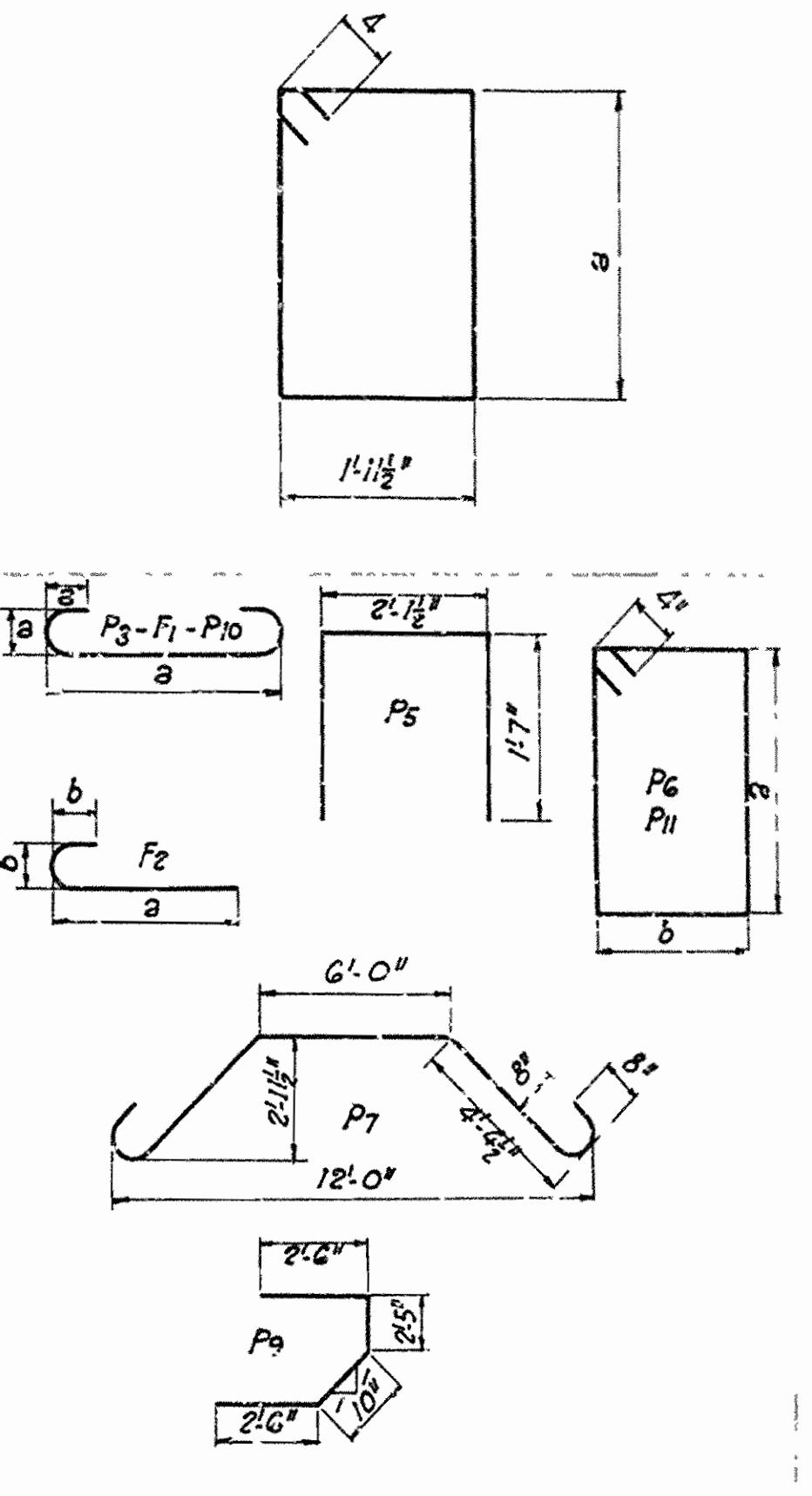
ELEVATION



FOOTING PLAN

TABLE OF SHIMS AND DIMENSIONS BENDING DIAGRAM

BENT	C	D	Elev. of Footing	A	B	Size of Shims	MARK SIZE	LENGTH	a	b
1	12"	316.73	291.73	8'-6"	2'-9 3/4"	0"	1P1 1P2	7# 1/2# Av. 8'-7 1/2"	Str. 1'-6 3/4" to 2'-4 1/2"	
2	3"	316.58	291.08	9'-0"	2'-10"	0"	2P1 2P2	7# 1/2# Av. 8'-8 1/2"	Str. 1'-6 3/4" to 2'-5 1/2"	
3	6"	316.31	286.81	13'-0"	3'-0"	0"	3P1 3P2	7# 1/2# Av. 8'-10"	Str. 1'-6 3/4" to 2'-7 1/2"	
9	1"	311.47	277.47	17'-6"	3'-2 1/2"	1/4"	9P1 9P2	1# 1/2# Av. 9'-0 1/2"	Str. 1'-6 3/4" to 2'-9 3/4"	
10	12"	310.28	277.78	16'-0"	3'-1 1/2"	1/2"	10P1 10P2	1# 1/2# Av. 8'-11 1/2"	Str. 1'-6 3/4" to 2'-8 1/2"	
11	6"	308.97	276.97	15'-6"	3'-1 1/2"	5/8"	11P1 11P2	1# 1/2# Av. 8'-11 1/2"	Str. 1'-6 3/4" to 2'-8 1/2"	



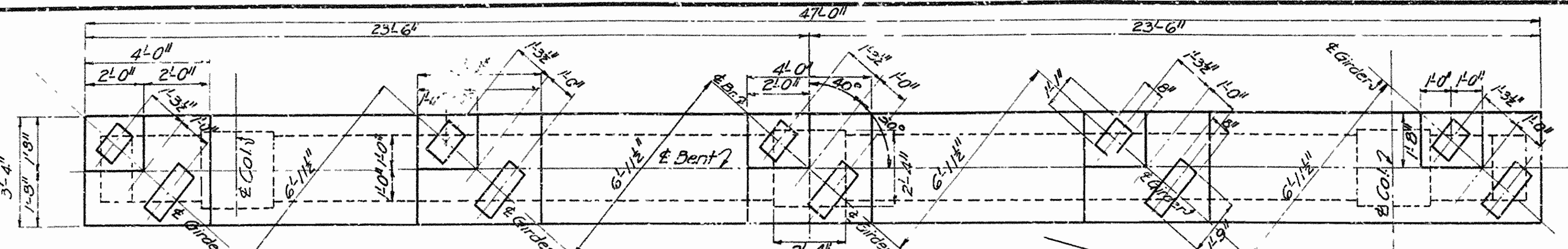
GENERAL NOTES:
 Shims listed above to be placed under bearing shoes on up grade side only of cap.
 All concrete to be Class 'A'. All exposed corners to have 3/4" chamfer unless otherwise noted.
 Construction joints, where permitted in concrete substructure units, shall be horizontal unless otherwise directed and shall be provided with keys of not less than 3" depth, covering the middle third of both dimensions.
 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.
 All 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
 Unit Stresses: Reinforcing Steel = 18000#/sq in. Class 'A' concrete = 500#/sq in. n = 15
 Maximum Bearing on Footings 4200#/sq in.

DETAILS OF BENTS 1, 2, 3, 9, 10 & 11
 VIADUCT OVER MISSOURI PACIFIC R.R.
 LEVY-NORTH ROAD
 PULASKI COUNTY
 ROUTE 65 SEC. 11

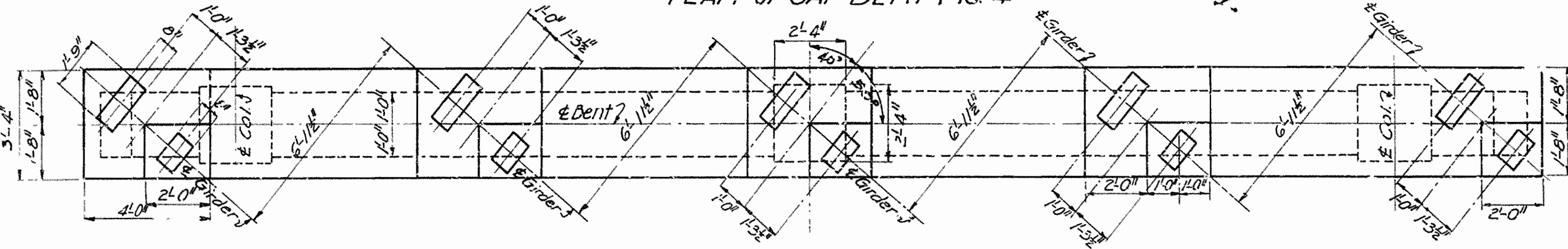
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: L.A.M. Date: 7-6-41
 Traced By: E.A.W. Date: 7-12-41
 Checked By: _____ Date: _____
 BRIDGE NO. 2199 DRAWING NO. 6077
 Scale: 3/8" = 1'

W.B. Gann
 PRINCIPAL HIGHWAY ENGINEER-BRIDGE

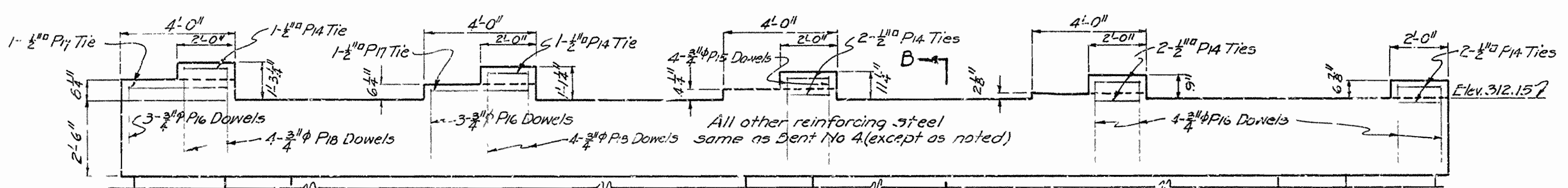
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	EN-PASH 150 (5)		8	17
STATE JOB NO. 6271				8	17



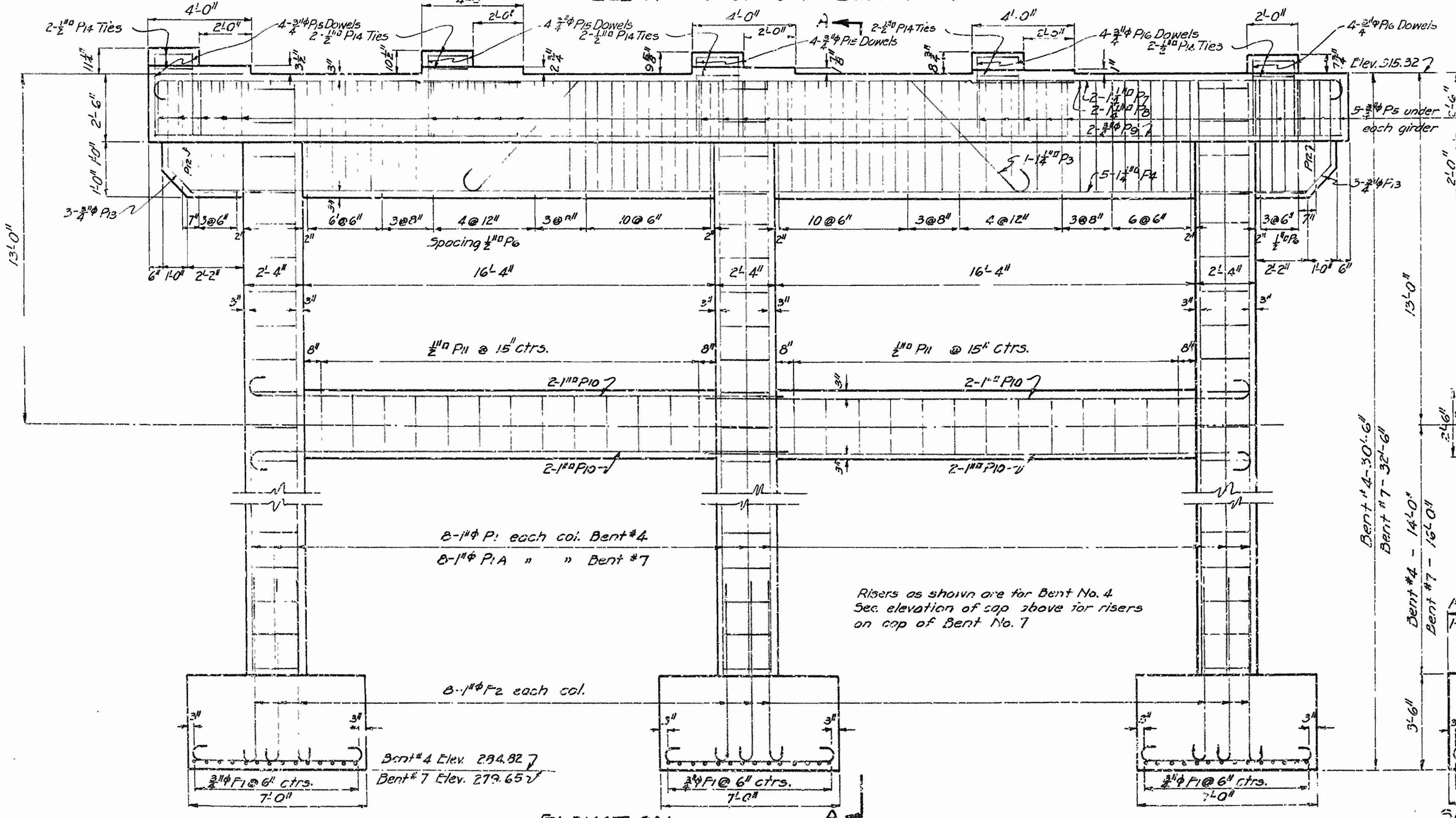
PLAN OF CAP BENT No. 4



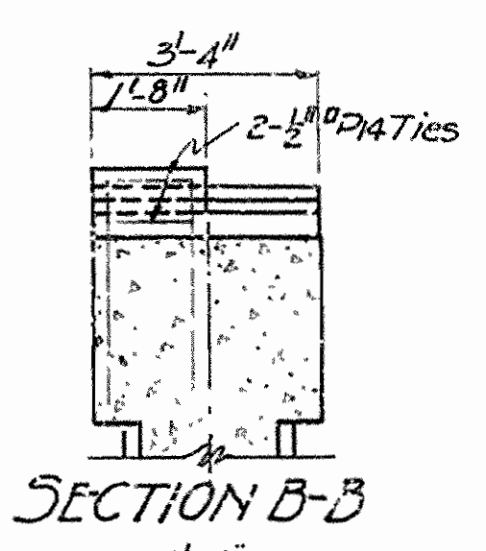
PLAN OF CAP BENT No. 7



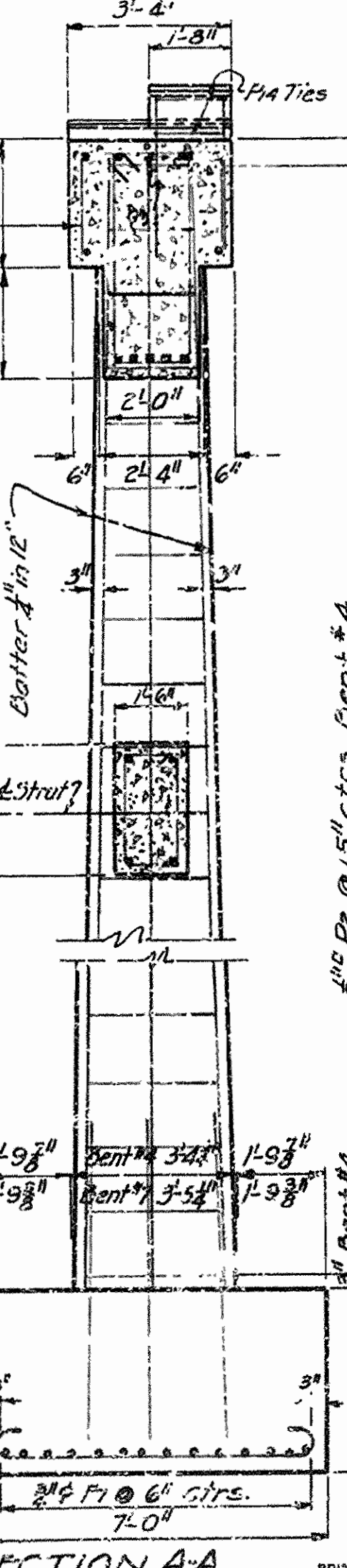
ELEVATION OF CAP BENT No. 7



ELEVATION



SECTION B-B



SECTION A-A

BAR LIST					
MARK	SIZE	LENGTH	A	B	BENDING DIAGRAM
F1	3/4"	8'-0"	6'-6"	6"	
F2	1"	8'-4"	7'-4"	8"	
P0	1/2"	22'-3"	21'-3"	8"	
P7	1 1/2"	15'-6"	14'-6"	6"	
P8	1 1/2"	37'-0"	36'-0"	8"	
P3	1 1/2"	26'-8"	13'-0"	5'-10"	
P2	1/2"	11'-10 1/2"	1'-5 3/4"	3'-11"	
P11	1/2"	7'-3"	1'-1 1/4"	2'-1 1/2"	
P14	1/2"	6'-6"	1'-3 3/4"	1'-7 1/4"	
P17	1/2"	13'-10"	2'-11 1/2"	3'-7 1/4"	
P2	1/2"	9'-6"	1'-11 1/2"	1'-10 3/4"	
P2A	1/2"	9'-7 1/4"	1'-11 1/2"	1'-10 3/4"	
P6	1/2"	12'-4"	1'-7 3/4"	4'-1 3/4"	
P5	3/4"	7'-2"	3'-0"	2'-1 1/4"	
P13	3/4"	9'-4"			
P9	3/4"	24'-9"			
P15	3/4"	2'-11"			
P16	3/4"	2'-9"			
P18	3/4"	3'-3"			
P1	1"	26'-9"			
P1A	1"	28'-9"			
P4	1 1/2"	43'-9"			

Bearing on Footings 4500#10"

For General Notes See Drawing No. 6077

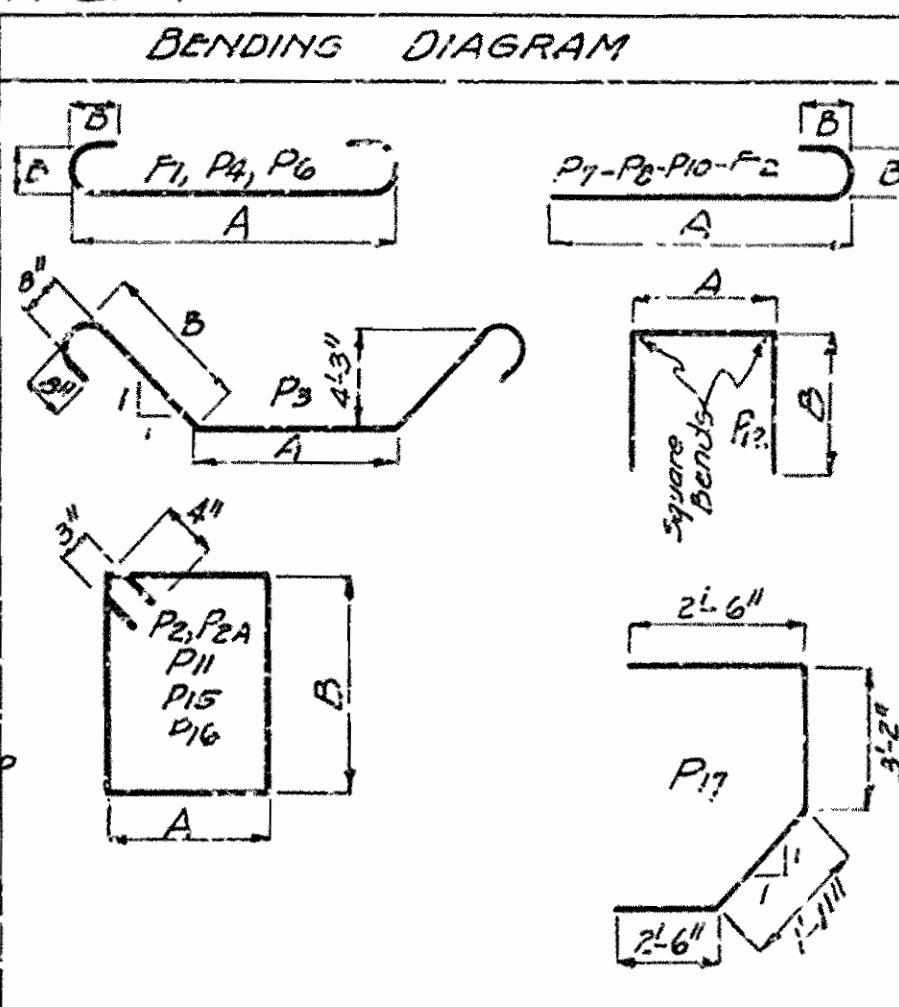
DETAILS OF BENTS No. 4 & 7
VIADUCT OVER MISSOURI PACIFIC R.R.
LEVY-NORTH ROAD
PULASKI COUNTY
ROUTE 65 SEC. 11

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: L.A.M.S. Date: 1/13-21
Traced By: L.A.M.S. Date: 1-16-21
Checked By: Date:
Scale: 3/8" = 1' ft.
BRIDGE NO. 2199 DRAWING NO. 6078

FED. ROAD DIST. NO.	STATE	F.A.G.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	5N-FAGH 150(5)		7	17
STATE JOB NO. 6271					7

LOCATION	BENT #5	BENT #6
a	0	0
b	17 1/8"	17 3/8"
c	27 3/8"	31"
d	37 1/8"	54"
e	5"	6 7/8"
Elev. A	314.33	315.07
Elev. B	314.44	313.22
Elev. C	314.55	313.36
Elev. D	314.65	313.50
Elev. E	314.75	313.64

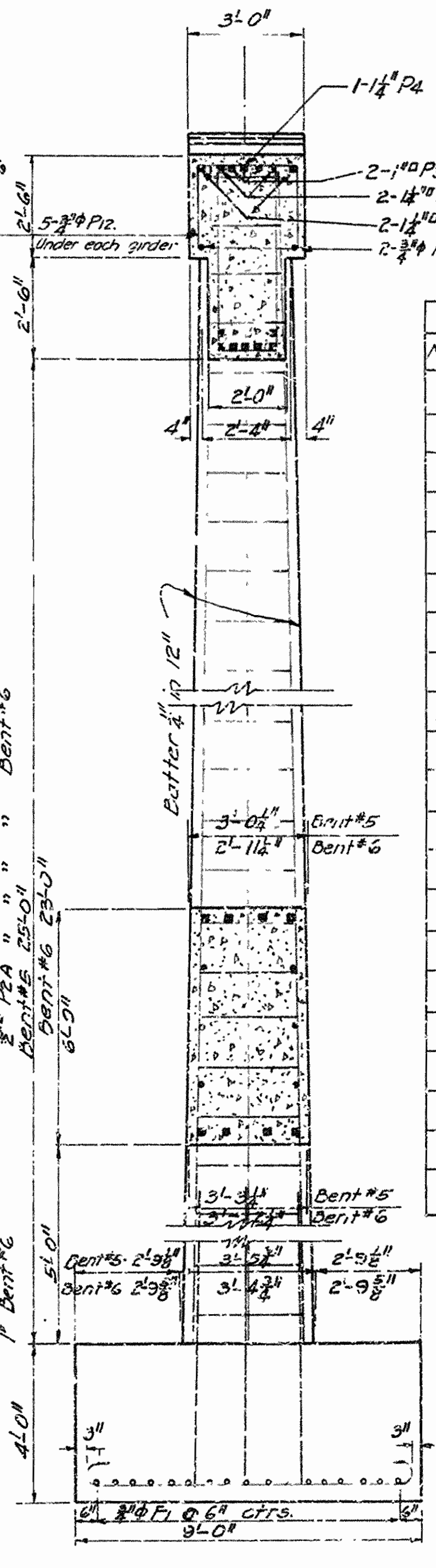
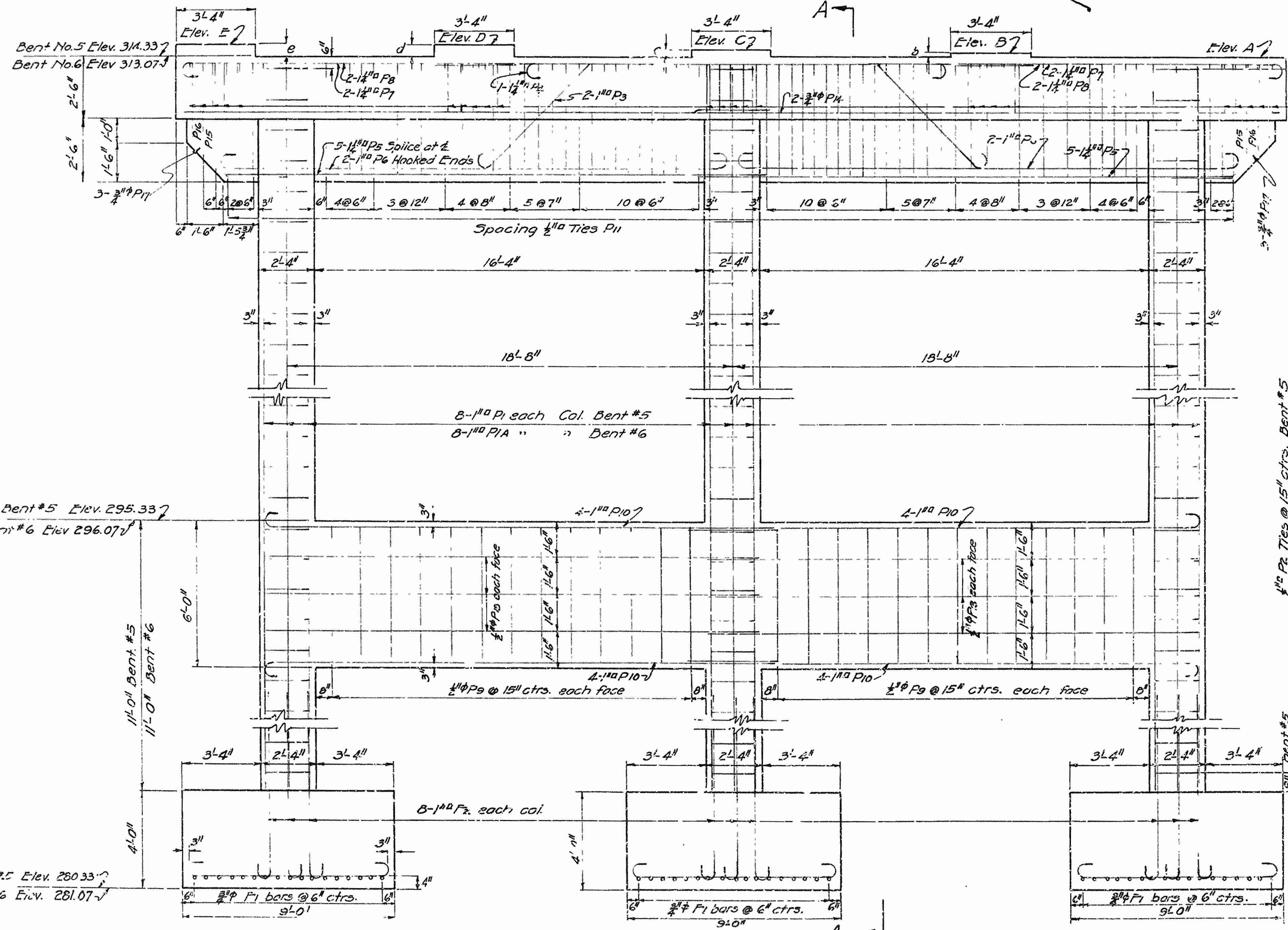
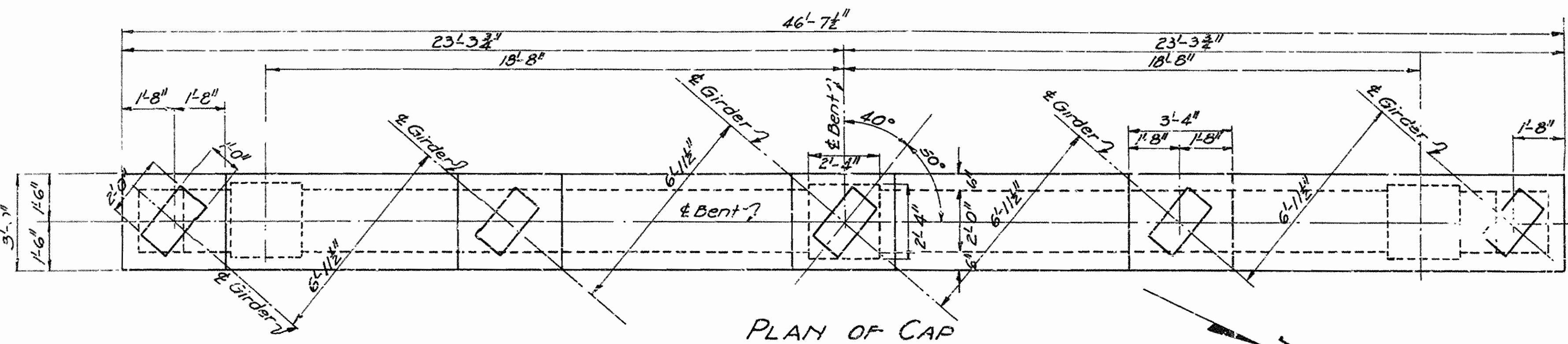
BAR LIST				
MARK	SIZE	LENGTH	A	B
F1	3/8"	10'-0"	8'-6"	6"
F2	1/2"	19'-0"	17'-0"	8"
F3	1/2"	23'-0"	21'-0"	8"
F4	1/2"	15'-0"		6"
F5	1/2"	37'-6"	36'-6"	8"
F6	1/2"	22'-1"	21'-11"	8"
F7	1/2"	8'-10"	7'-10"	8"
F8	1/2"	26'-5"	12'-0"	6'-2 1/2"
F9	3/8"	6'-10"	7'-6"	2'-1 1/2"
F10	1/2"	9'-8 1/2"	11'-2 1/2"	4'-10 3/4"
F11	1/2"	9'-7 3/4"	14'-1 1/2"	10'-0 3/4"
F12	1/2"	13'-3 1/2"	14'-7 1/2"	4'-7 3/4"
F13	1/2"	12'-6 1/2"	14'-7 1/2"	4'-3 3/4"
F14	1/2"	11'-6 1/2"	14'-7 1/2"	3'-9 3/4"
F15	3/8"	10'-11"		
F16	1/2"	5'-6"		
F17	1/2"	20'-6"		
F18	1/2"	24'-7"		
F19	1/2"	20'-9"		
F20	1/2"	27'-5"		
F21	1/2"	23'-3"		



For General Notes See Drwg. No. 6077.

DETAILS OF BENTS 5 & 6
VIADUCT OVER MISSOURI PACIFIC R.R.
LEVY-NORTH ROAD
PULASKI COUNTY
ROUTE 65 SEC. 11

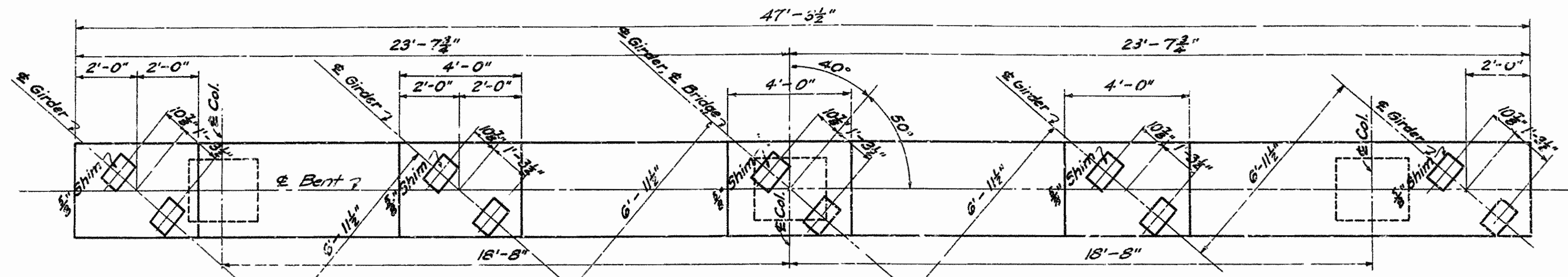
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Scale: 3/8" = 1'
Drawn By: L.A.M. Date: 1-8-41
Traced By: L.A.M. Date: 1-14-41
Checked By: _____ Date: _____
BRIDGE NO. 2199 DRAWING NO. 6079



SECTION A-A
Maximum Bearing on Footings 4600 lb

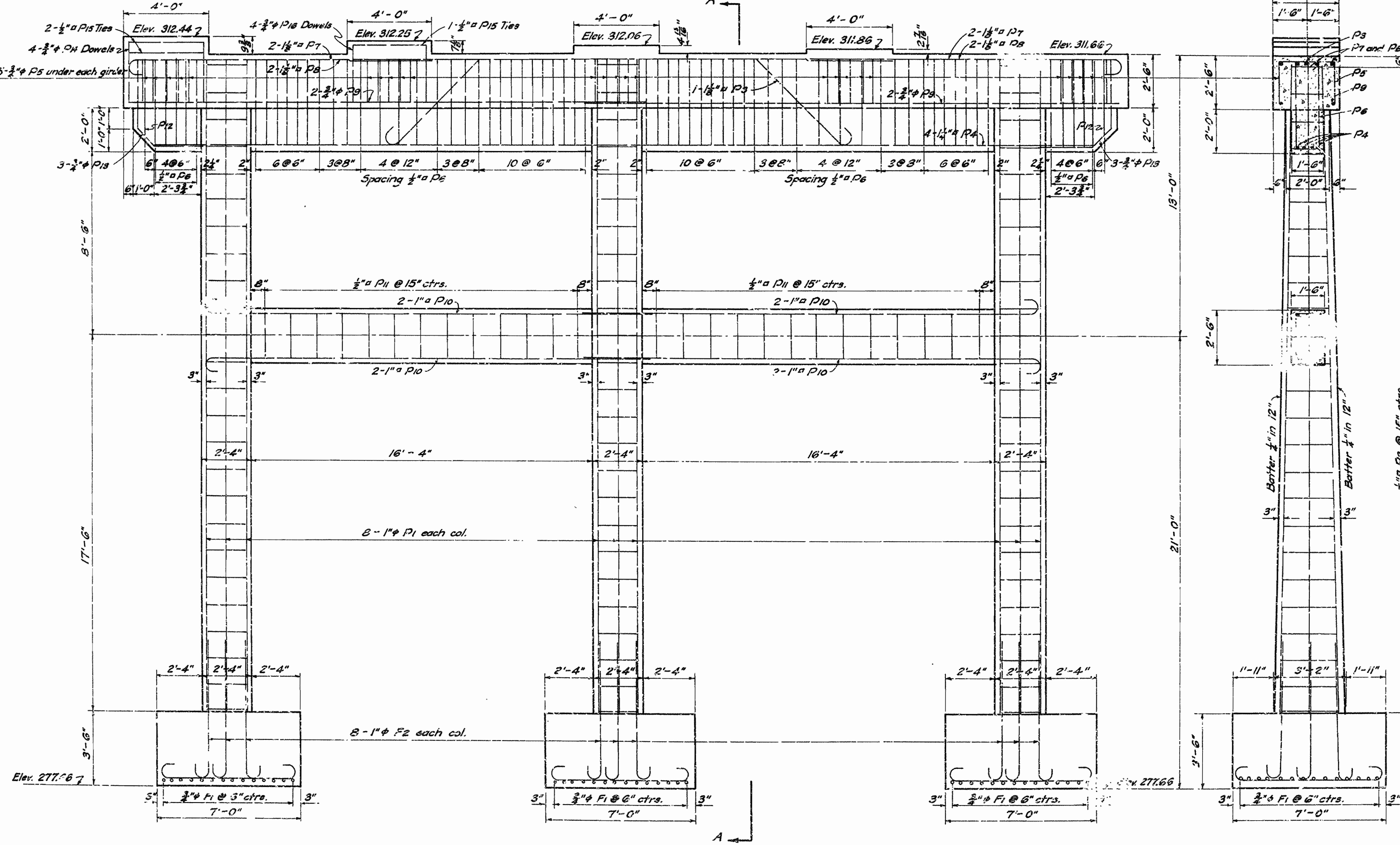
N.C. Semler
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	F.A.C.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	5N-K.A.S.H. 150(6)		10	17
STATE JOB NO. 3271				10	17



NOTE:
All risers to be poured monolithic with cap.

PLAN OF CAP



ELEVATION

SECTION A-A

Maximum Bearing on Footing 4200 #/sq ft

BAR LIST

Mark	Size	Length	A	B	Bending Diagram
F1	3/8"	8'-0"	6'-6"	6"	[Bending Diagram for F1]
F2	1"	8'-4"	7'-4"	8"	
P10	1"	22'-3"	21'-5"	8"	[Bending Diagram for P10]
P7	1 1/2"	15'-6"	14'-6"	8"	
P9	1 1/2"	37'-3"	36'-3"	8"	[Bending Diagram for P9]
P5	1 1/2"	26'-8"	13'-0"	5'-10"	
P2	1/2"	Ave. 9'-0"	1'-11 1/2"	7'-8 1/2"	[Bending Diagram for P2]
P11	1/2"	7'-3"	1'-1 1/2"	2'-1 1/2"	
P12	1/2"	10'-4"	1'-1 1/2"	3'-7 1/2"	[Bending Diagram for P12]
P15	1/2"	13'-2"	2'-7 1/2"	3'-7 1/2"	
P6	1/2"	11'-4"	1'-1 1/2"	4'-1 1/2"	[Bending Diagram for P6]
P13	3/4"	9'-4"			
P5	3/8"	6'-10"	2'-5"	2'-1"	[Bending Diagram for P5]
P1	1"	30'-3"			
P4	1 1/2"	44'-0"			[Bending Diagram for P4]
P9	3/8"	24'-10"			
P14	3/8"	2'-10"			[Bending Diagram for P14]
P16	3/8"	2'-8"			

Straight Bars

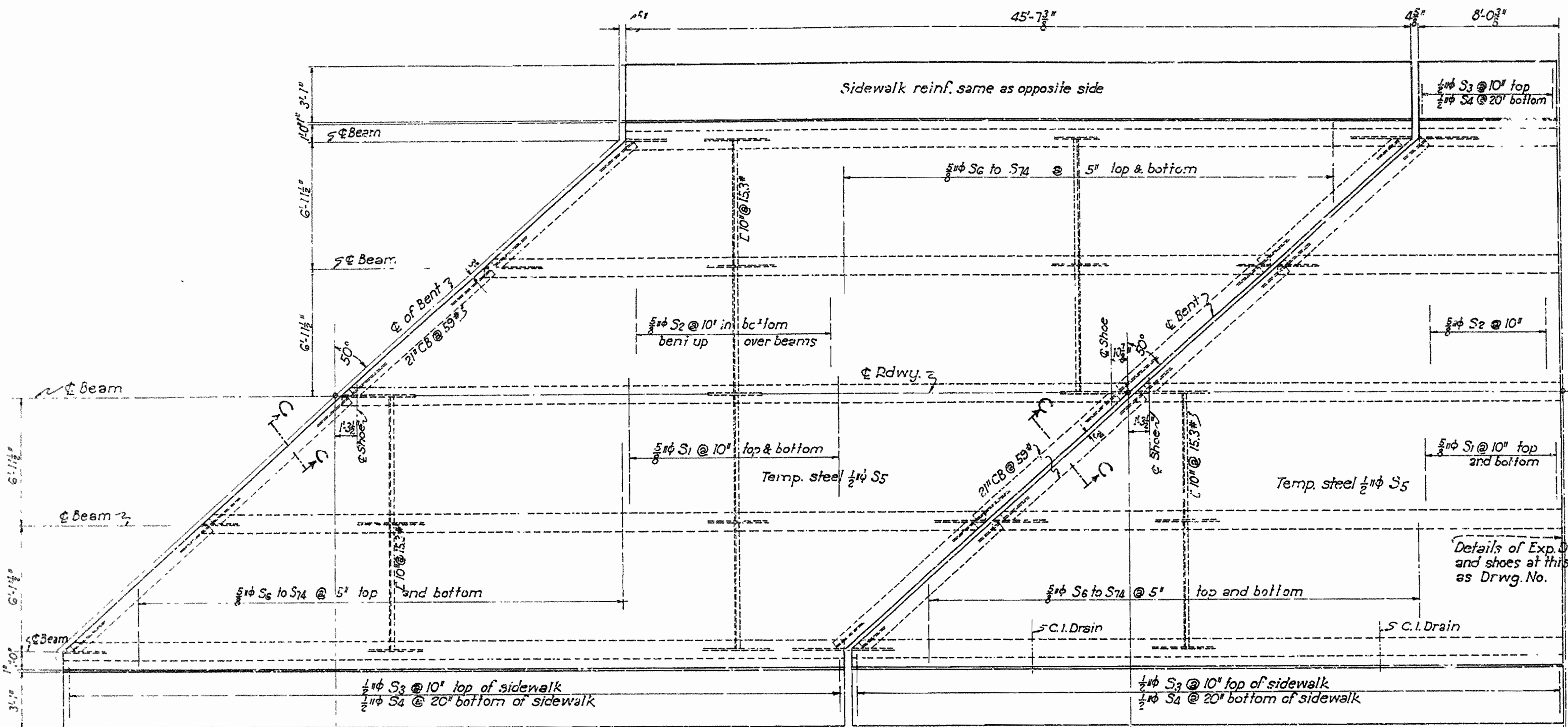
For General Notes see Drwg. No. 5077

DETAILS OF BENT NO. 8
VIADUCT OVER MISSOURI PACIFIC R.R.
LEVY-NORTH ROAD
PULASKI COUNTY
ROUTE 65 SEC. 11

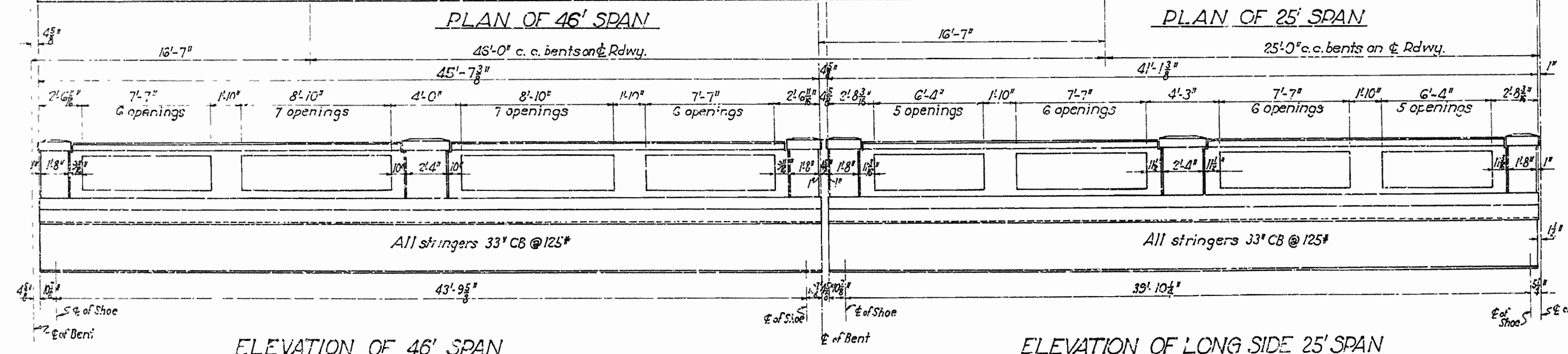
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: L.A.M. Date: 1-11-31
Traced By: E.R.B. Date: 1-12-31
Checked By: _____ Date: _____
BRIDGE NO. 2199 DRAWING NO. 6080

H.O. Lanier
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. DIST. NO.	STATE	F.A.O.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	S-N-FASH 150(S)		12	17
STATE JOB NO. 6271				12	17



NOTE:
 For details of shoes, E struts, T struts and expansion device at square end of 25' span, rail and C.I. drain See Drwg. No. 5240
 For details of skewed C.B. struts, Sec. C-C, skewed expansion device and reinforcing steel See Drwg. No. 6082 and Drwg. No. 6083.



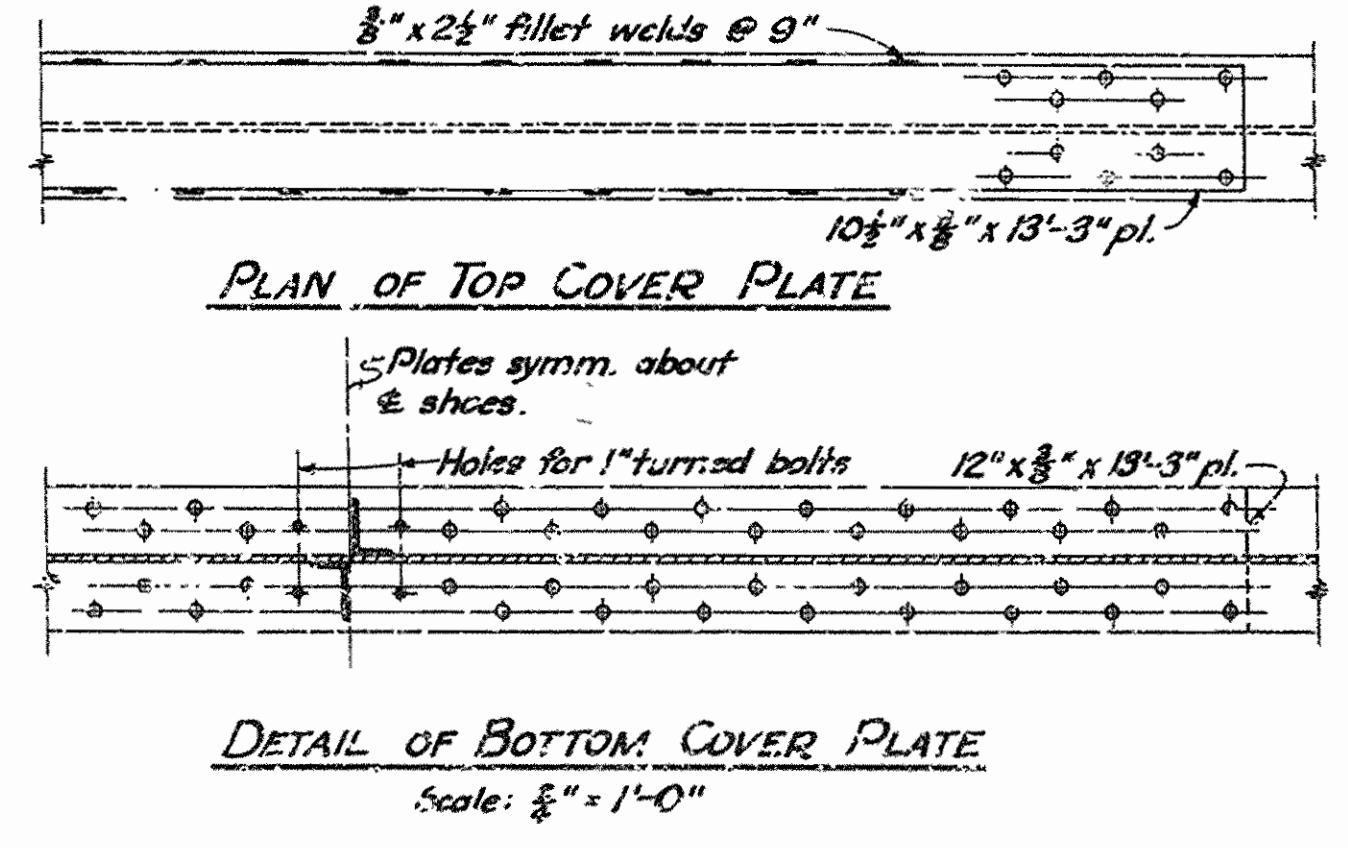
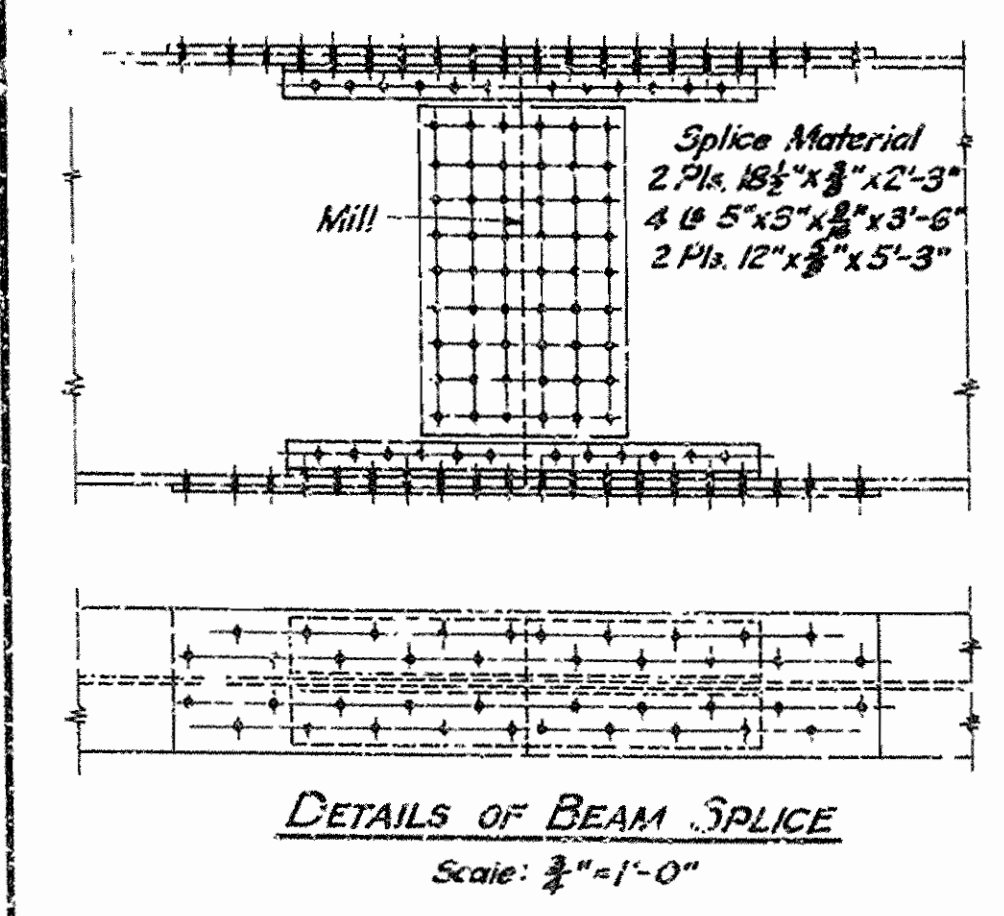
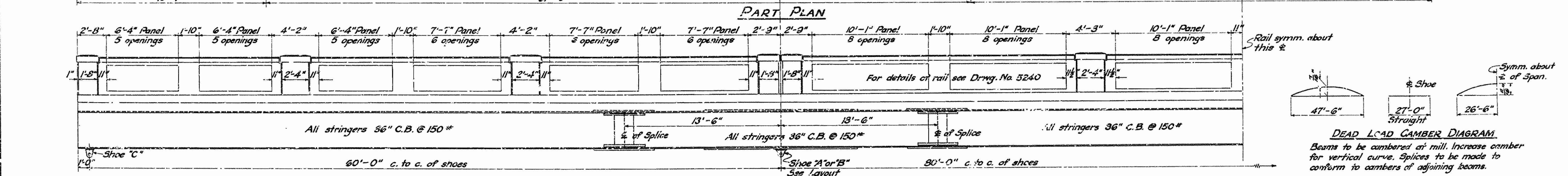
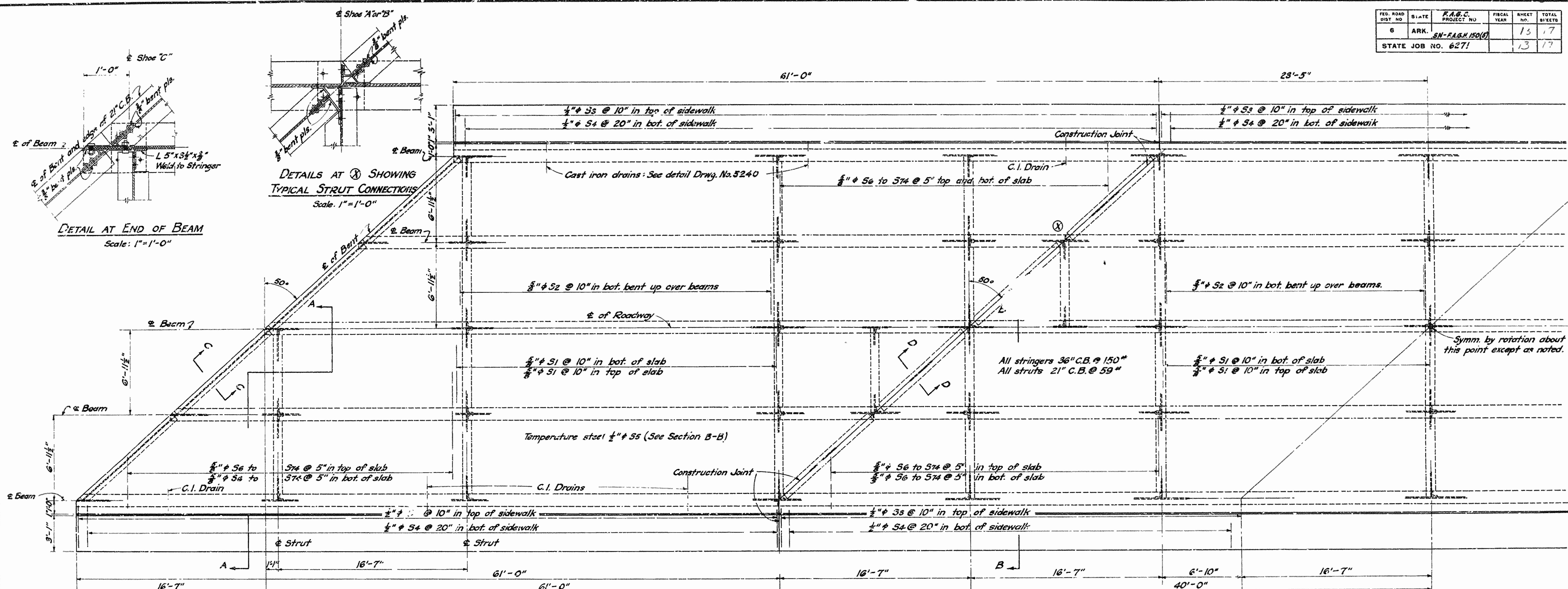
See Layout for location of fixed and expansion shoes.

**DETAILS OF 25' & 46' SPANS
 OVERPASS AT MISSOURI PACIFIC RR.
 LEVY-NORTH ROAD
 PULASKI COUNTY
 ROUTE 65 SEC. 11**

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: L.P.C. Date: 1/15-41
 Traced By: E.A.W. Date: 1/15-41
 Checked By: _____ Date: _____
 Scale: $\frac{1}{4}$ in. = 1 ft.
BRIDGE NO. 2199 DRAWING NO. 6081

W.C. Lane
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	F.A.S.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	51-FAH 150(6)		13	17
STATE JOB NO. 6271				13	17

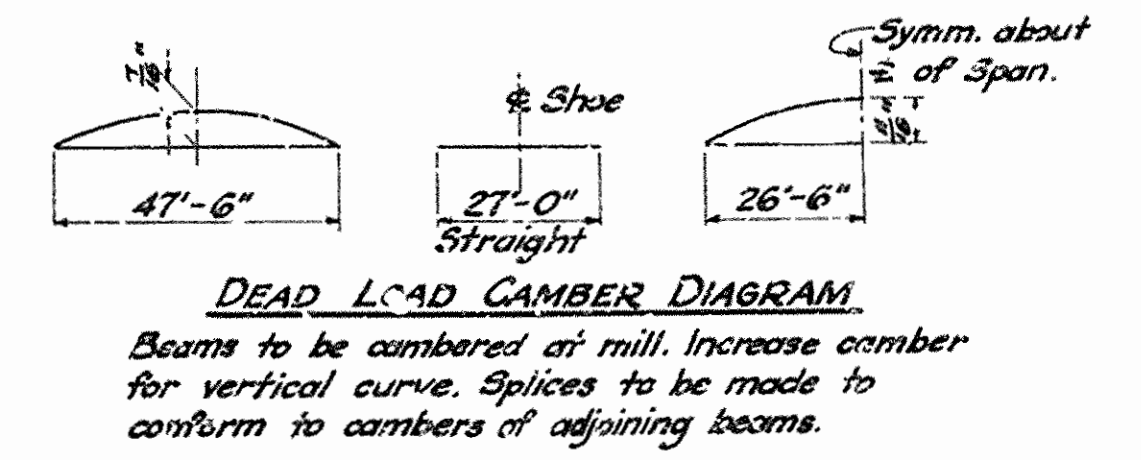


LIST OF STEEL

Mark	Size	Length	A	B	C
S1	3/8"	32'-0"			
S2	3/8"	38'-2"			
S3	1/2"	5'-10"			
S4	1/2"	4'-8"			
S6 to S74	Ave. 5'-6" to 29'-11"				
S75	1/2"	3'-11"	6"		
S76	1/2"	4'-9"	10"		

Bending Diagram: Shows the structural profile and reinforcement layout for the steel members.

Dimensions relating to reinforcing steel are to centers of bar.



SHEET NO. 1 OF 2
 DETAILS OF 61'-80'-61' CONT. I-BEAM SPAN
 OVERPASS AT MISSOURI PACIFIC R.R.
 LEVY - NORTH ROAD
 PULASKI COUNTY
 ROUTE 65 SEC. 11

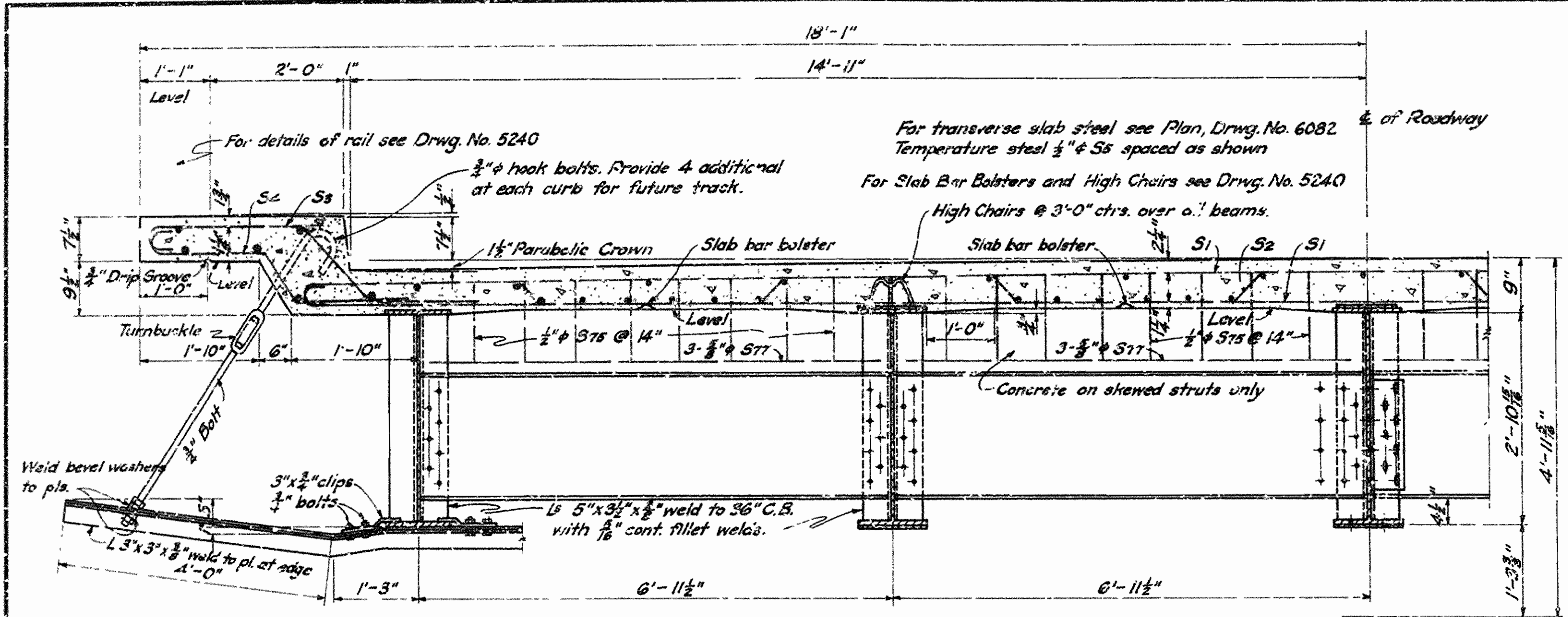
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

Drawn By: *L.R.C.* Date: 1-3-21
 Traced By: *E.R.B.* Date: 1-7-21
 Checked By: _____ Date: _____

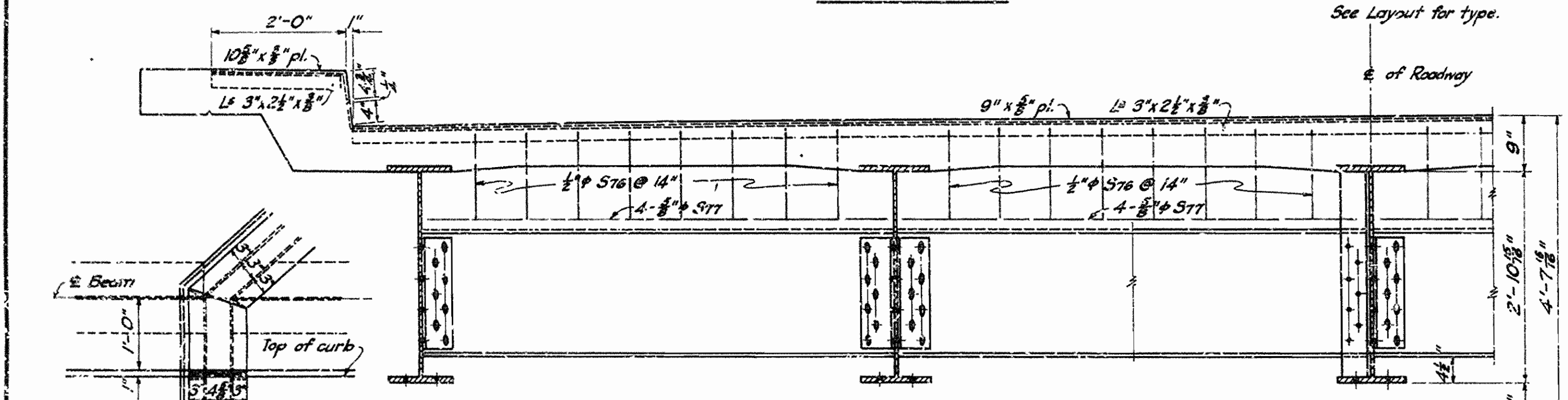
BRIDGE NO. 2199 DRAWING NO. 6082

Scale: 1/2"=1'-0" and as noted

FED. ROAD DIST. NO.	STATE	F.A.S.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	SN-F.A.G.H. 150(6)		4	17
STATE JOB NO. 6271				14	17

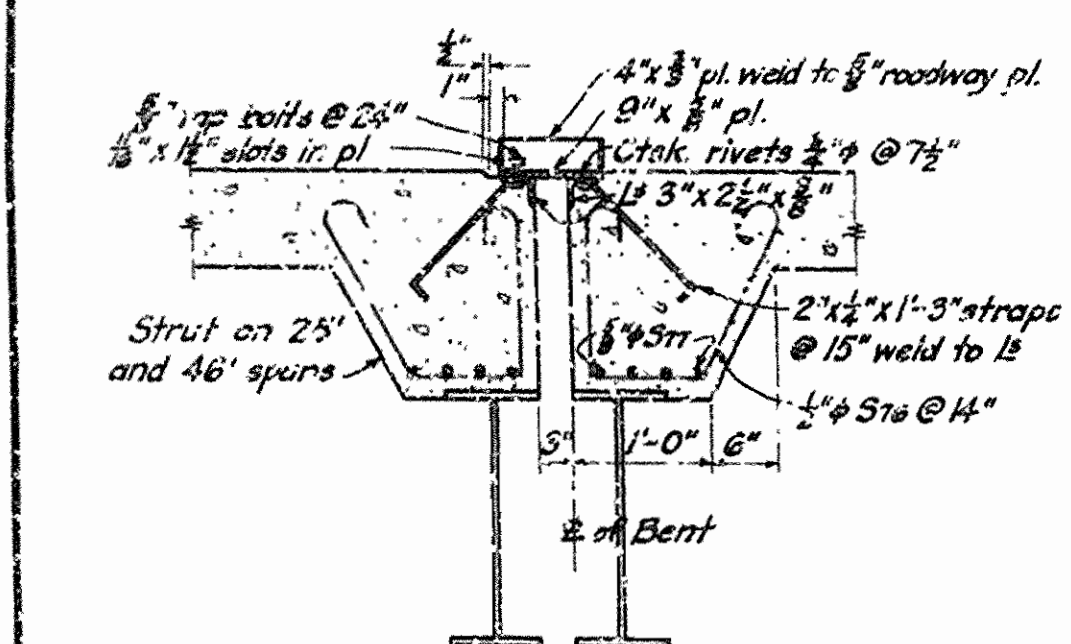


SECTION B-B

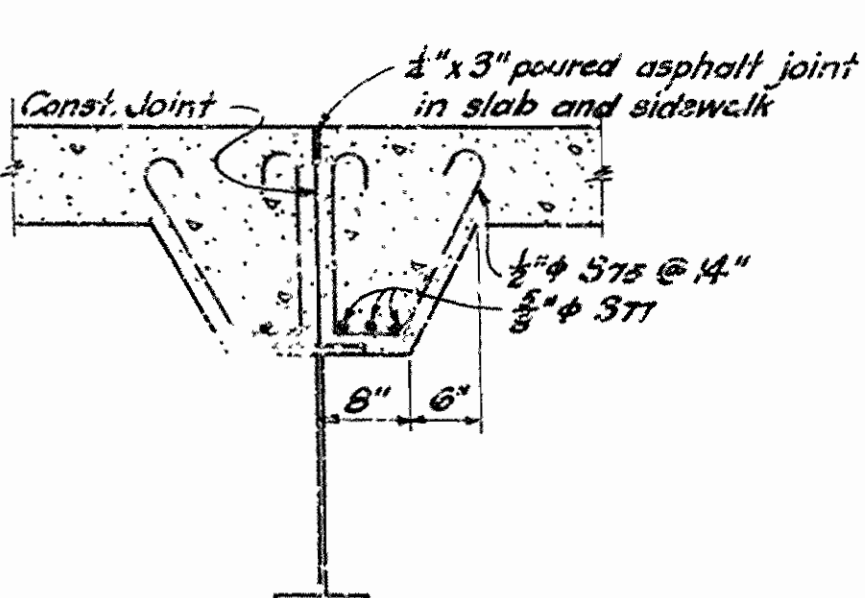


SECTION A-A

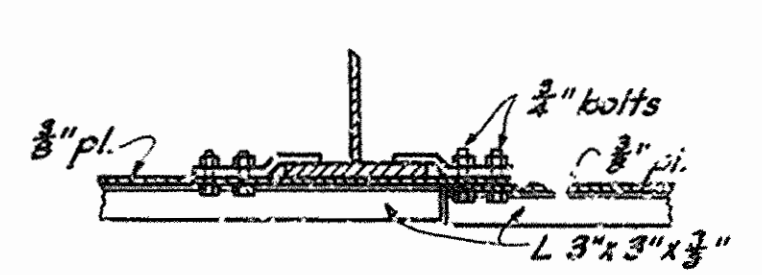
EXP. DEVICE AT CURB
Details of sidewalk expansion device not shown, same as Drwg. No. 5240



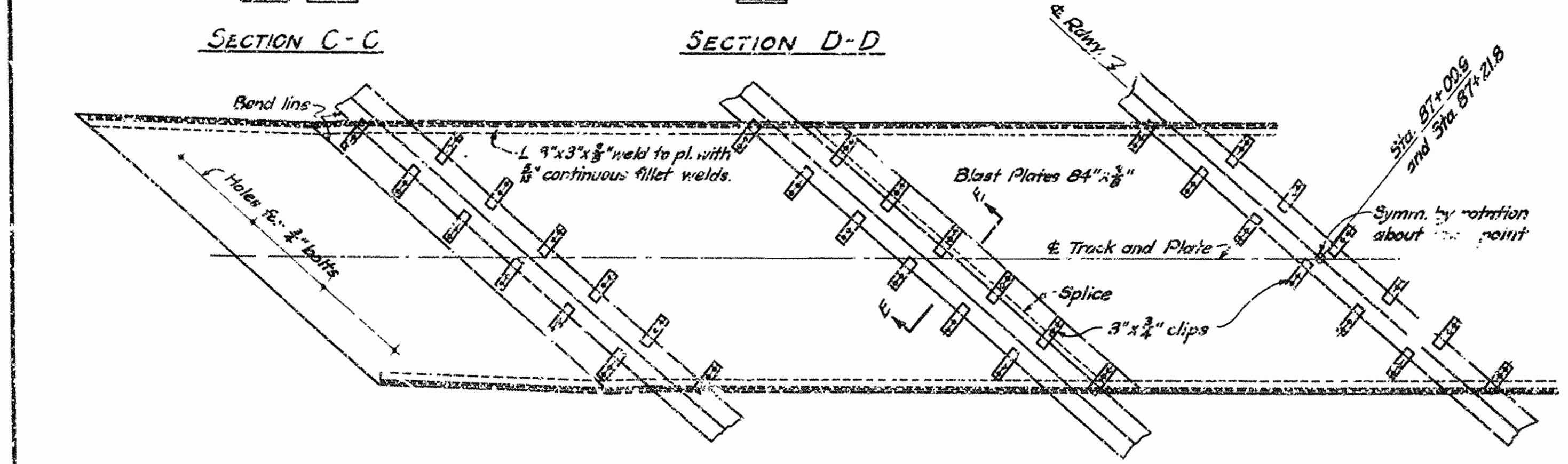
SECTION C-C



SECTION D-D

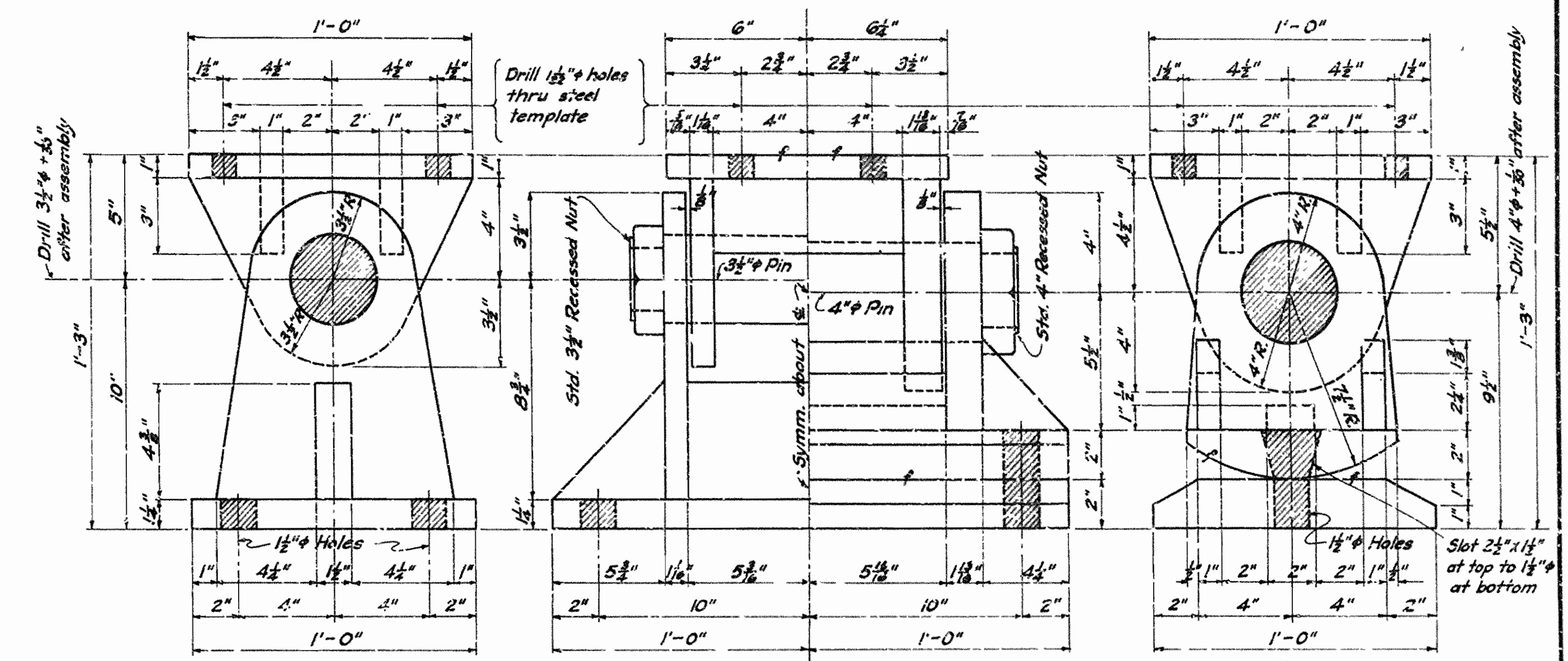


SECTION E-E



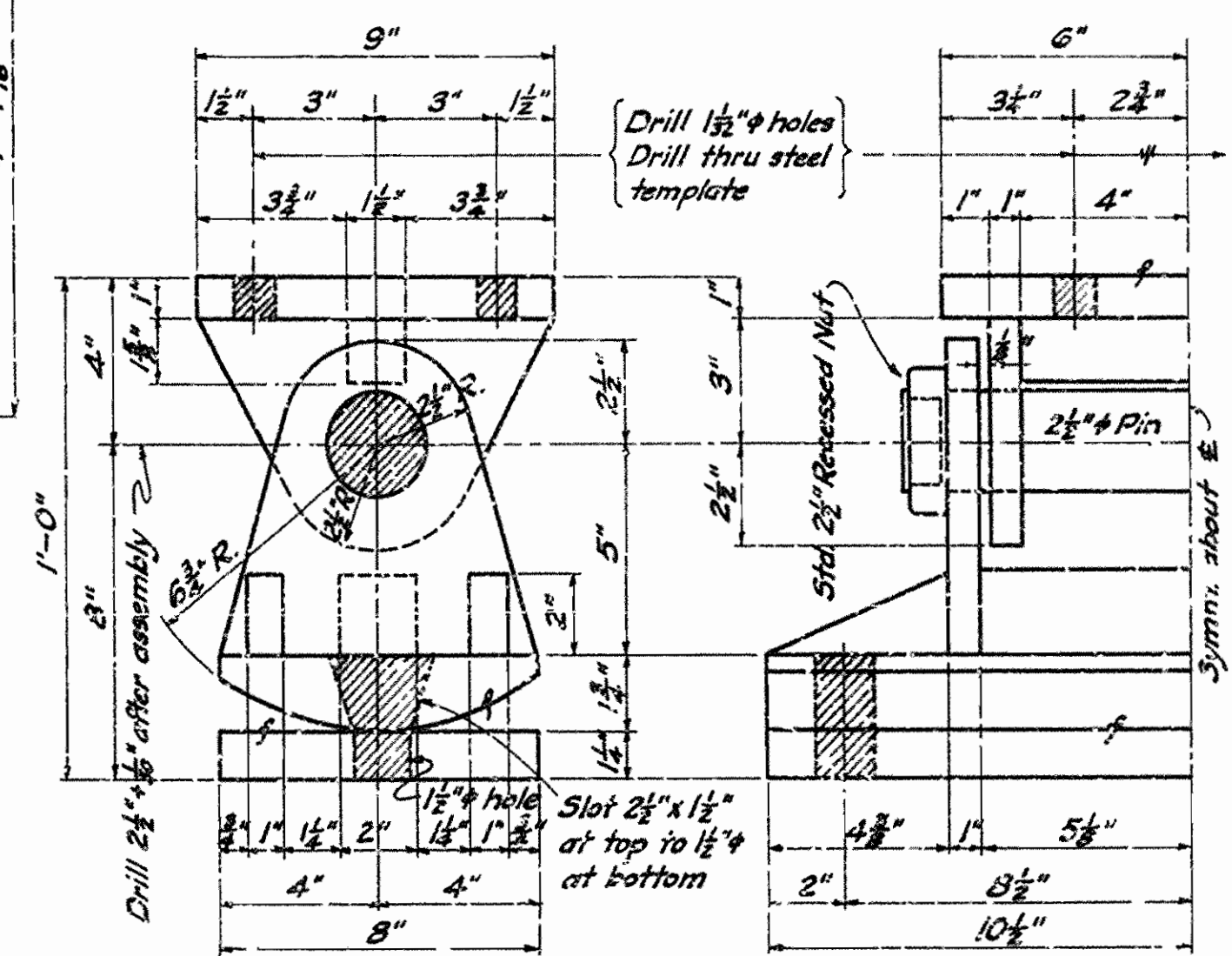
PLAN SHOWING TOP OF BLAST PLATES

Scale: 3/8" = 1'-0"
Place over two existing tracks (See also Section B-B)



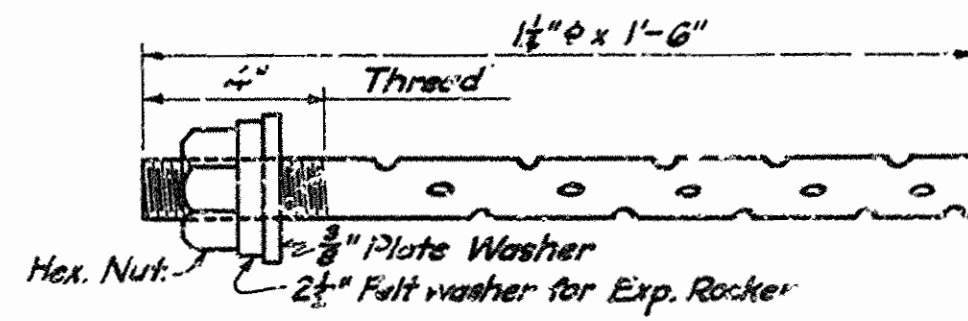
END ELEVATION HALF SIDE ELEV. HALF SIDE ELEV. END ELEVATION
DETAILS OF FIXED SHOE 'A' DETAILS OF EXPANSION SHOE 'B'

Scale: 3" = 1'-0"



END ELEVATION HALF SIDE ELEVATION
DETAILS OF EXPANSION SHOE 'C'

Scale: 3" = 1'-0"



DETAILS OF ANCHOR BOLT

Scale: 3" = 1'-0"

LOAD DISTRIBUTION (H20)

	Outside Stringers	Inside Stringers
Dead load per ft.	1450"	955"
Truck live load	6.85 Wheel	1.39 Wheel
Unif. Rlvly. Lane Live Load per ft.	287"	445"
Conc. Rlvly. Lane Live Load (Moment)	8050"	12500"
Conc. Rlvly. Lane Live Load (Shear)	11630"	18100"
Sidewalk Live load per ft.	120"	

GENERAL NOTES

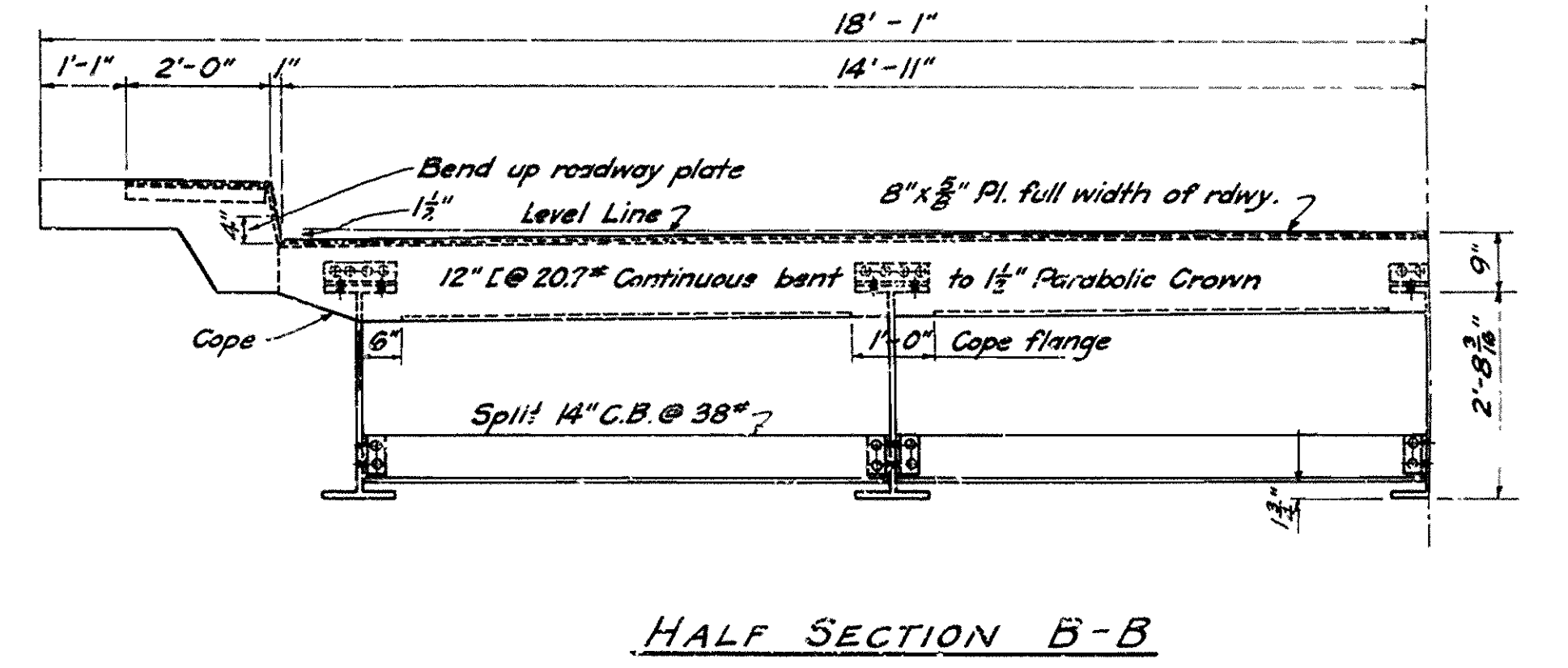
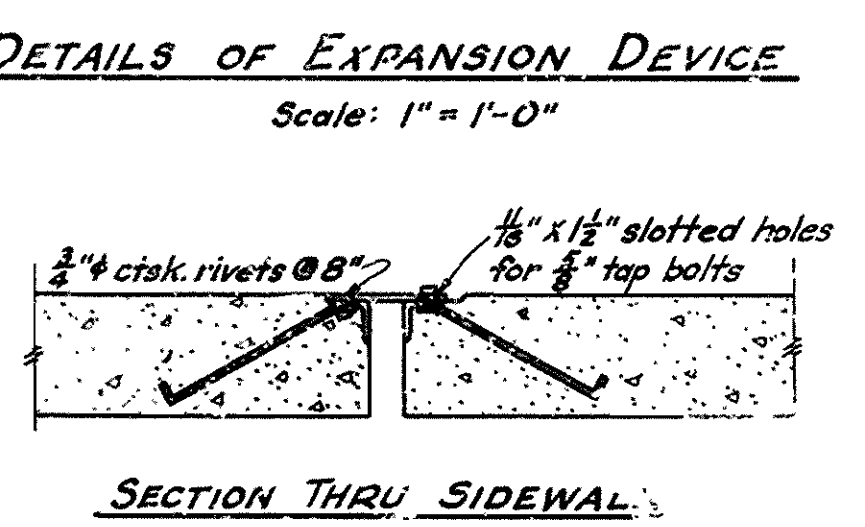
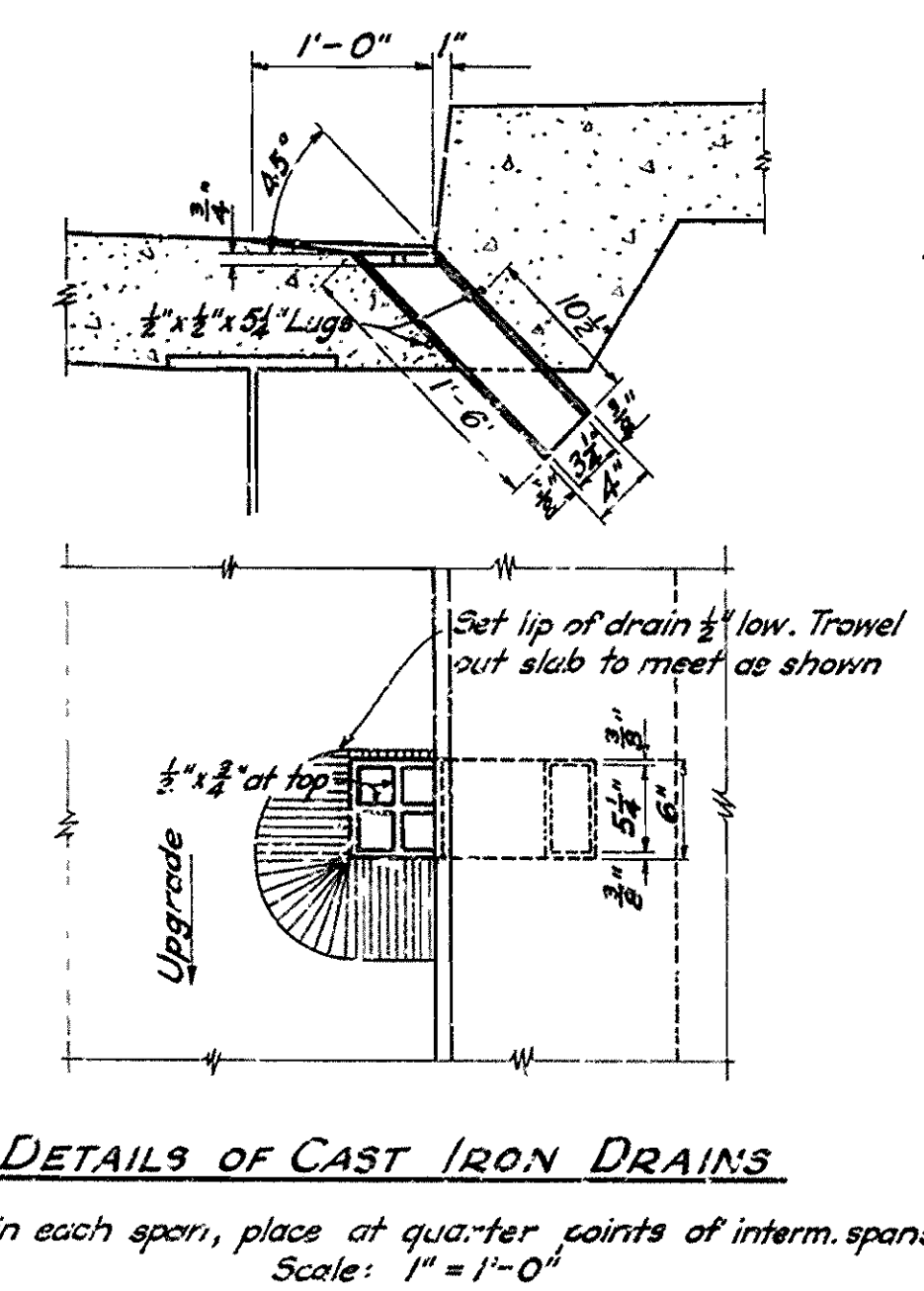
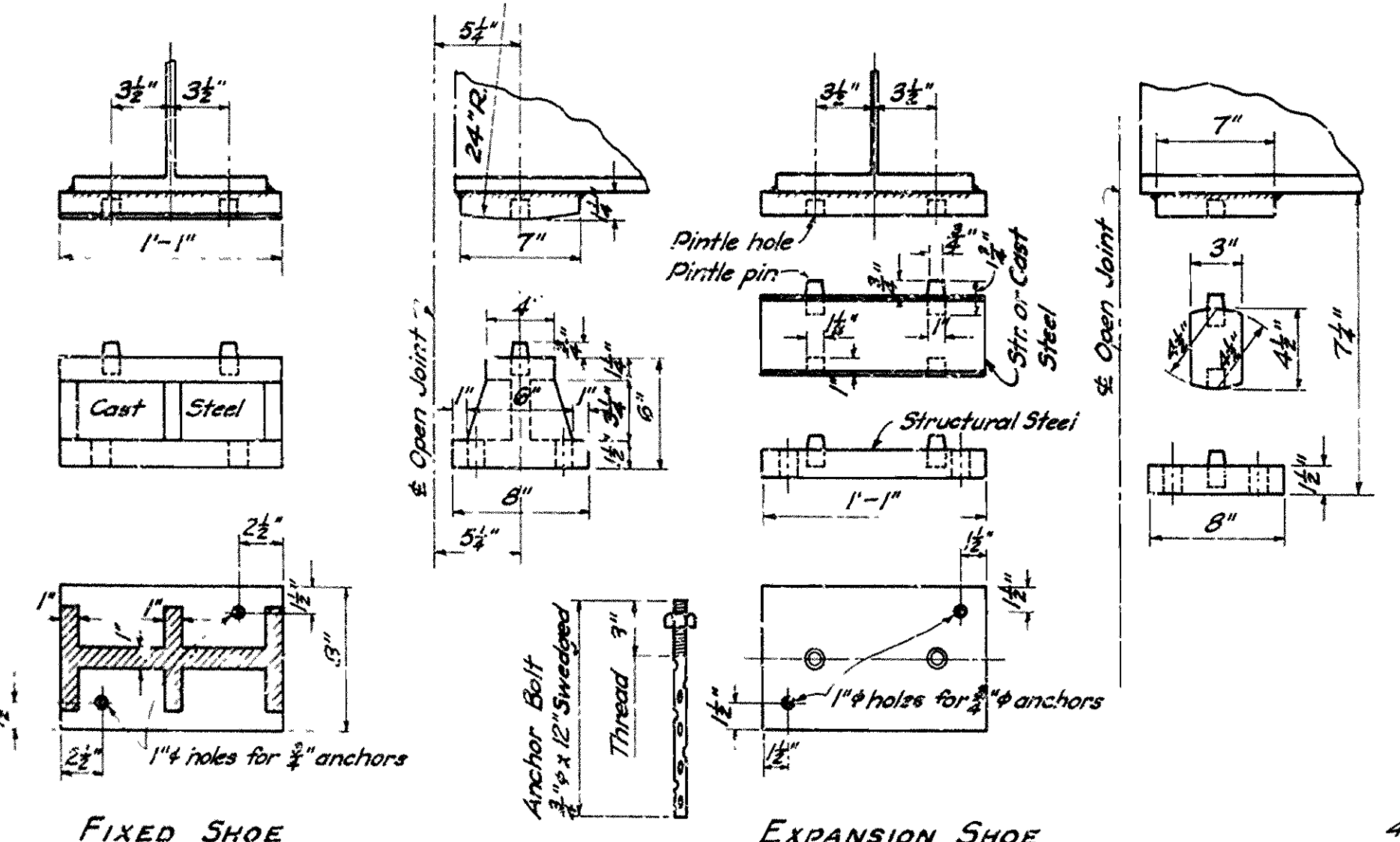
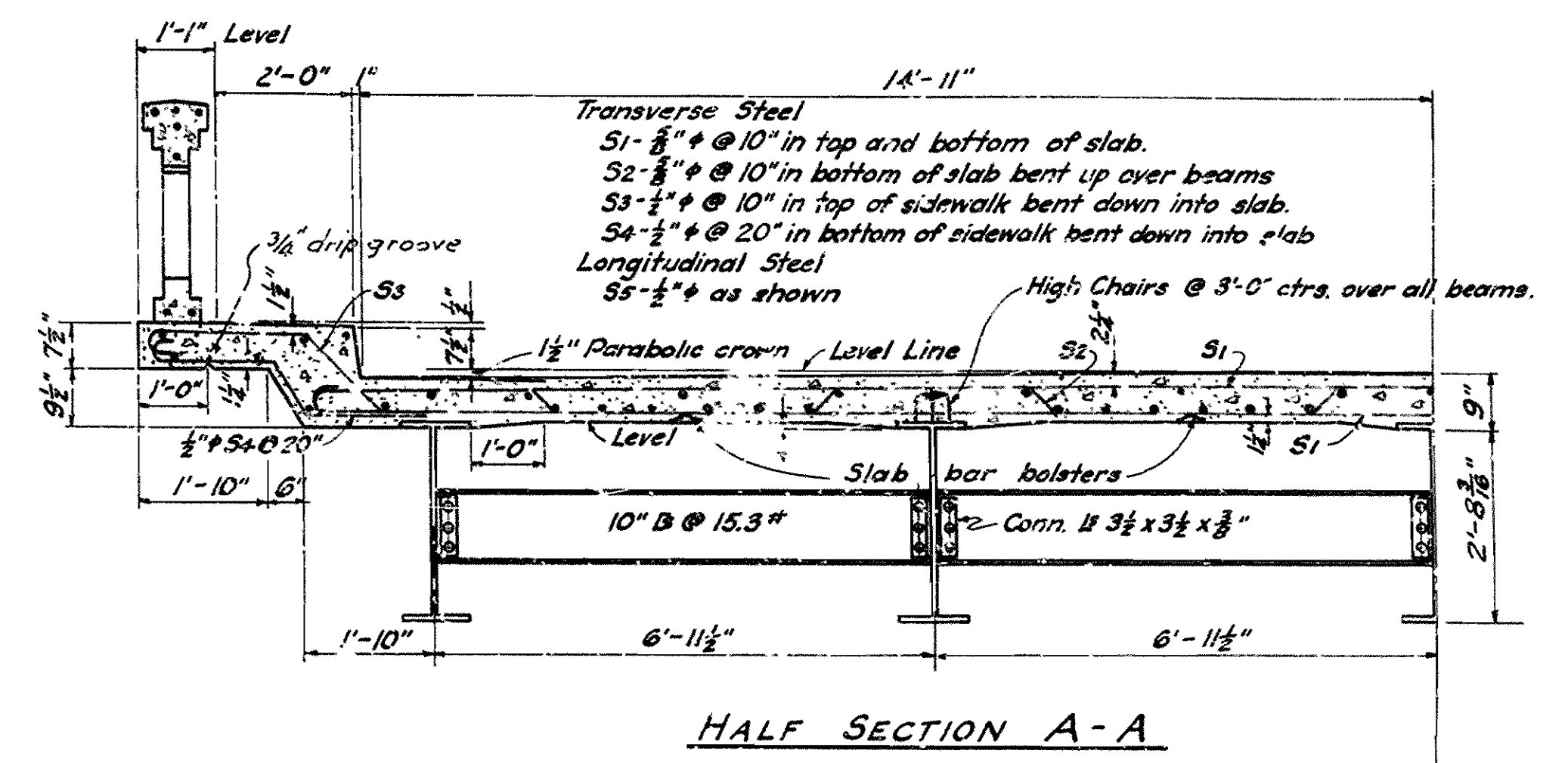
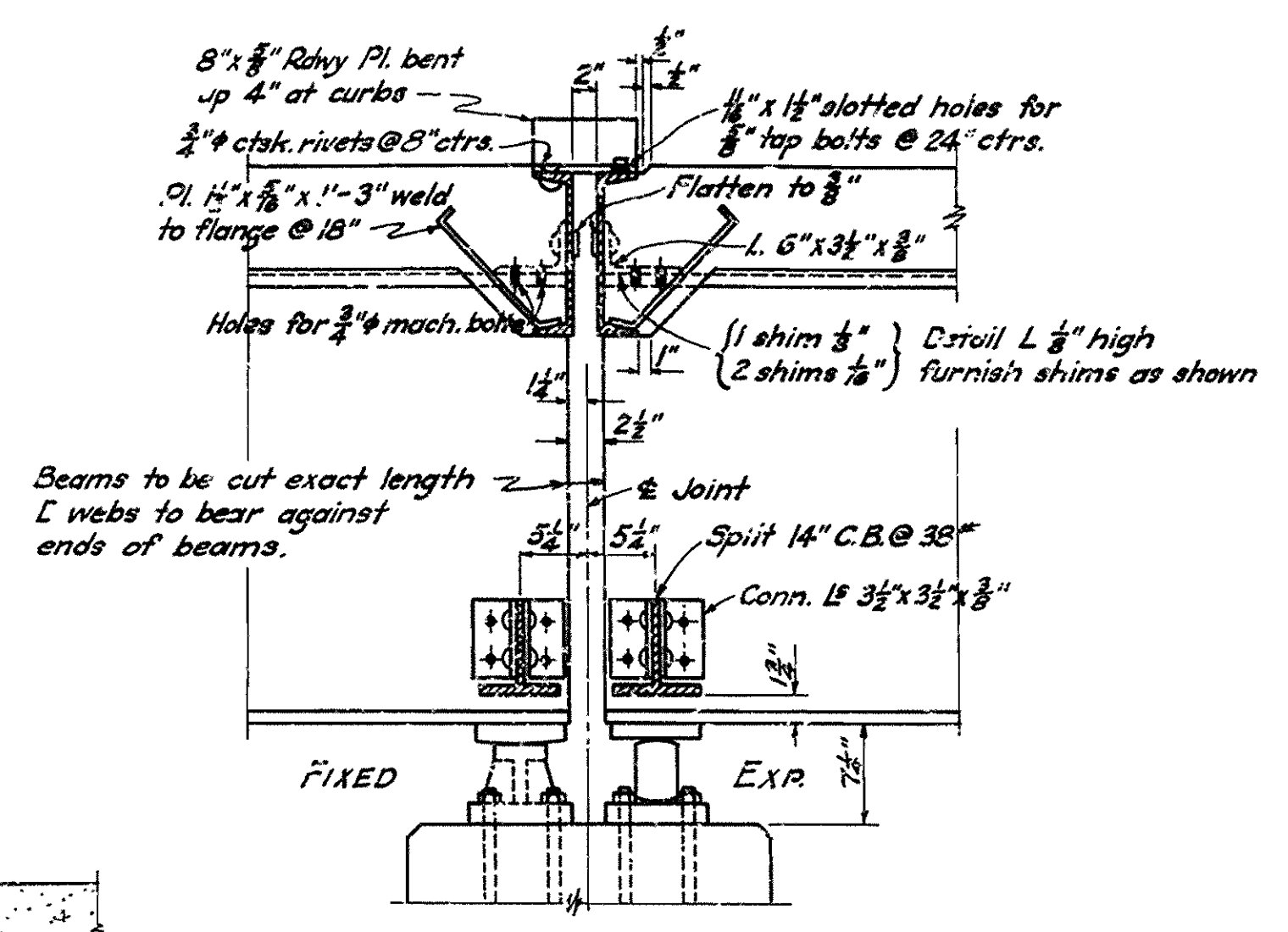
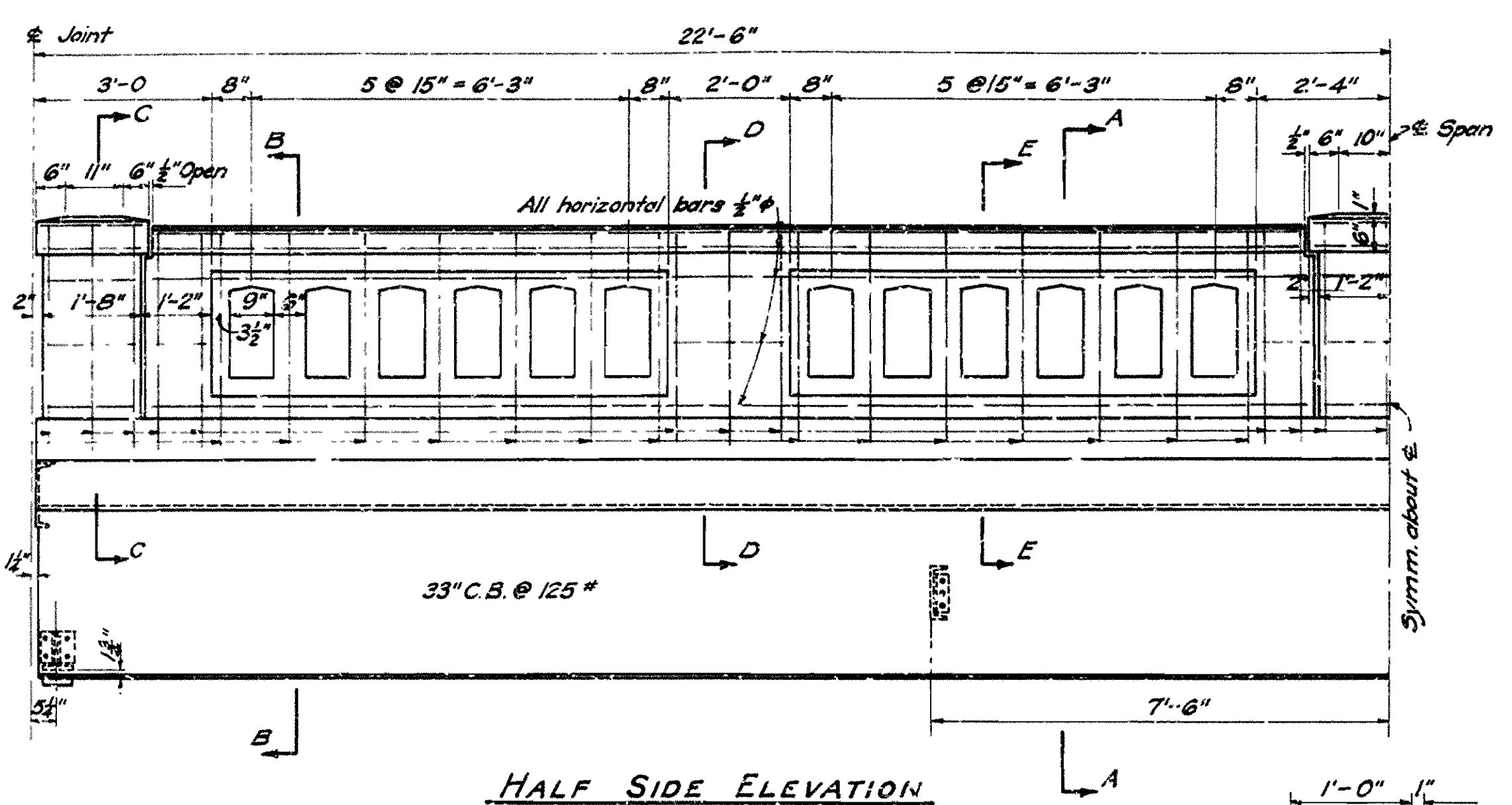
All concrete to be Class S'. All exposed corners to have 3/4" chamfers, unless otherwise noted. Rivets 3/4". Open holes 1/2". Machine or turned bolts to be used where indicated. Cross beam and strut connections are to be sub-punched 1/8" and reamed to a metal template. Ends of all stiffener angles shall be ground to bear against beam flanges. All longitudinal beams are to be cambered in accordance with plans. The ends of the beams at the splices shall be milled so as to conform to the cambers of the adjoining beams. The holes for all beam splices shall be sub-punched or drilled to 1/8" and reamed to size while beams are assembled in the shop. While assembled for reaming, all parts are to be match-marked. A match marking system shall be such as to prevent interchange or reversal of splice material. Reinforcing steel to be deformed bars of S1, S2 or intermediate grade. Shop lists and bending diagrams must be submitted and approved before fabrication is begun. Structural shapes of equal or greater strength may be substituted for shapes shown, but payment will be made on weight of shapes shown or those actually used whichever is lesser. Shop Paint: All structural steel shall be given one coat of red lead and raw linseed oil before shipment, (except surfaces in contact with concrete). Field Paint: First coat, white lead tinted with lamp black. Second coat, aluminum paint. This drawing shows general features of design only. Shop drawings for structural steel shall be made in accordance with specifications, and shall be submitted and approved before fabrication is begun. To control beam deflections provide supports at the middle of each end span before the slab is poured to permit a deflection of only 1/2". Slab in all spans to be poured before any supports are removed. Each span to be loaded symmetrically about its center, pouring end spans first. In shipment, all 36" beams are to be supported at points approximately one sixth of the length of the beams from each end. Both points of support are to be on the same car. All shoes to be built from structural steel plates. All material to be welded together with 3/8" fillet welds extending entire length of all edges and surfaces in contact. Surfaces in contact to be milled to bear before welding. All welded connections shall be welded by the electric arc process. All design, material and workmanship shall be made in accordance with specifications for "Fusion Welding." For remainder of details, See Drwg. No. 6082. Specifications: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction, adopted March 1, 1940. Loading H20

SHEET NO. 2 OF 2
DETAILS OF 61'-90'-61" CONT. I-BEAM SPAN
OVERPASS AT MISSOURI PACIFIC R.R.
LEVY - NORTH ROAD
PULASKI COUNTY
ROUTE 65 SEC. 11

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: L.B.C. Date: 1-2-41
Traced By: E.R.B. Date: 1-2-41
Checked By: _____ Date: _____
BRIDGE NO. 2199 DRAWING NO. 6083

H.S. James
PRINCIPAL HIGHWAY ENGINEER - BRIDGE

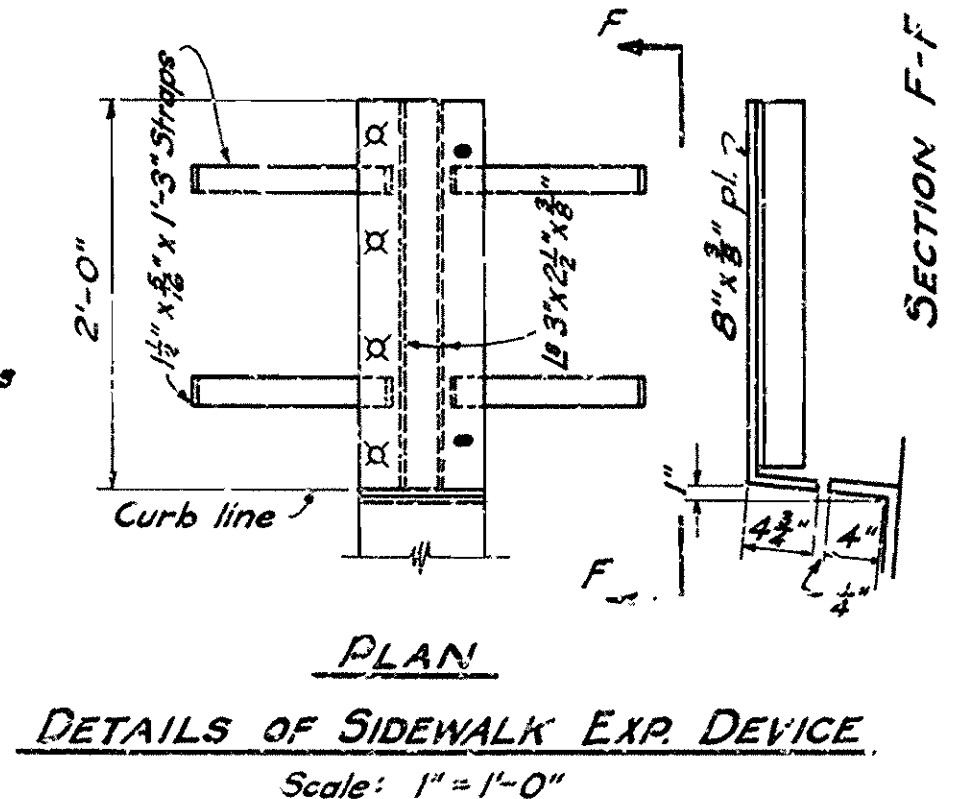
FED. ROAD DIST. NO.	STATE	F.A.C. P. CT. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARR.	SN-F.A.G.H. 150(8)		11	17
STATE JOB NO. 327				1	7



DETAILS OF BEARINGS

Scale: 1 1/2" = 1'-0"

Mark	Size	Length	Bending Diagram
S1	5/8" #	32'-0"	
S2	5/8" #	33'-2"	
S3	1/2" #	5'-10"	
S4	1/2" #	4'-8"	



General Notes:

All concrete to be class 'S'. All exposed corners to have 5/8" chamfer unless otherwise noted.

Shop lists and bending diagrams of reinforcing steel must be submitted and approval secured before fabrication is begun.

* Rivets 3/4" #. Open holes 1/2" #. All field connections to be riveted except as noted.

Shop Paint: All Structural Steel (except surfaces in contact with concrete) to 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.

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

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

Cast steel to be paid for at the unit price bid for "Structural Steel in Beam Spans."

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

Cast iron drains are to be paid for at the unit price bid for "Reinforcing Steel."

* Contractor may substitute structural ribbed bolts for field rivets.

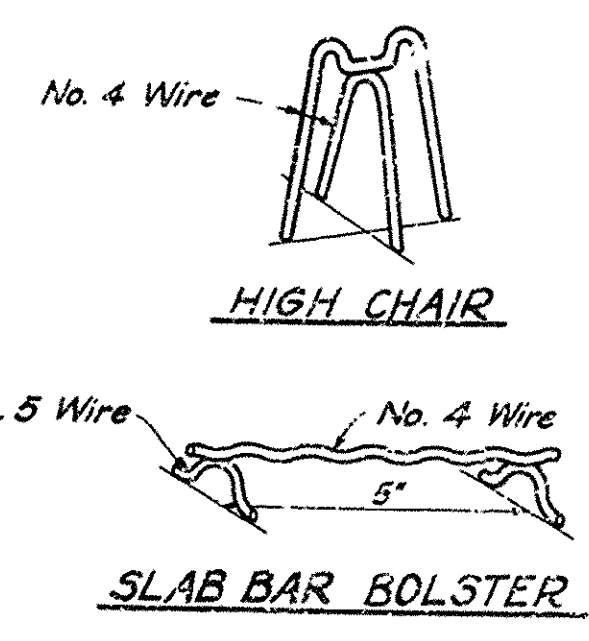
LOAD DISTRIBUTION (H20)

Dead Load per ft:	Outside Stringers	Inside Stringers
Truck Live Load	1425 #	930 #
Unit Roadway Lane Live Load per ft:	0.85 Wheel	1.39 Wheel
Conc. Roadway Lane Live Load (Moment)	287 #	445 #
Conc. Roadway Lane Live Load (Shear)	11650 #	18100 #
Sidewalk Live Load per ft:	120 #	

Stresses:

Structural Steel	18000 Lbs. per sq. in.
Reinforcing Steel	18000 Lbs. per sq. in.
"S" Concrete	1000 Lbs. per sq. in.
n	10

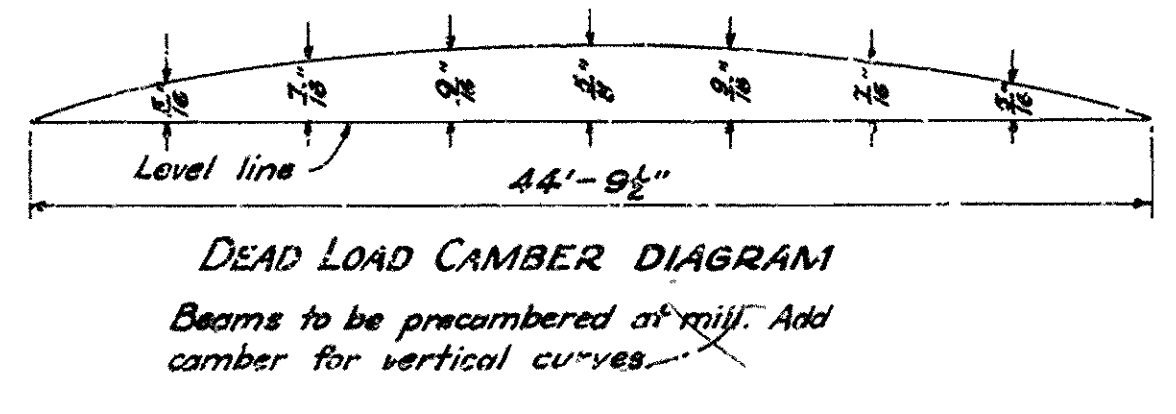
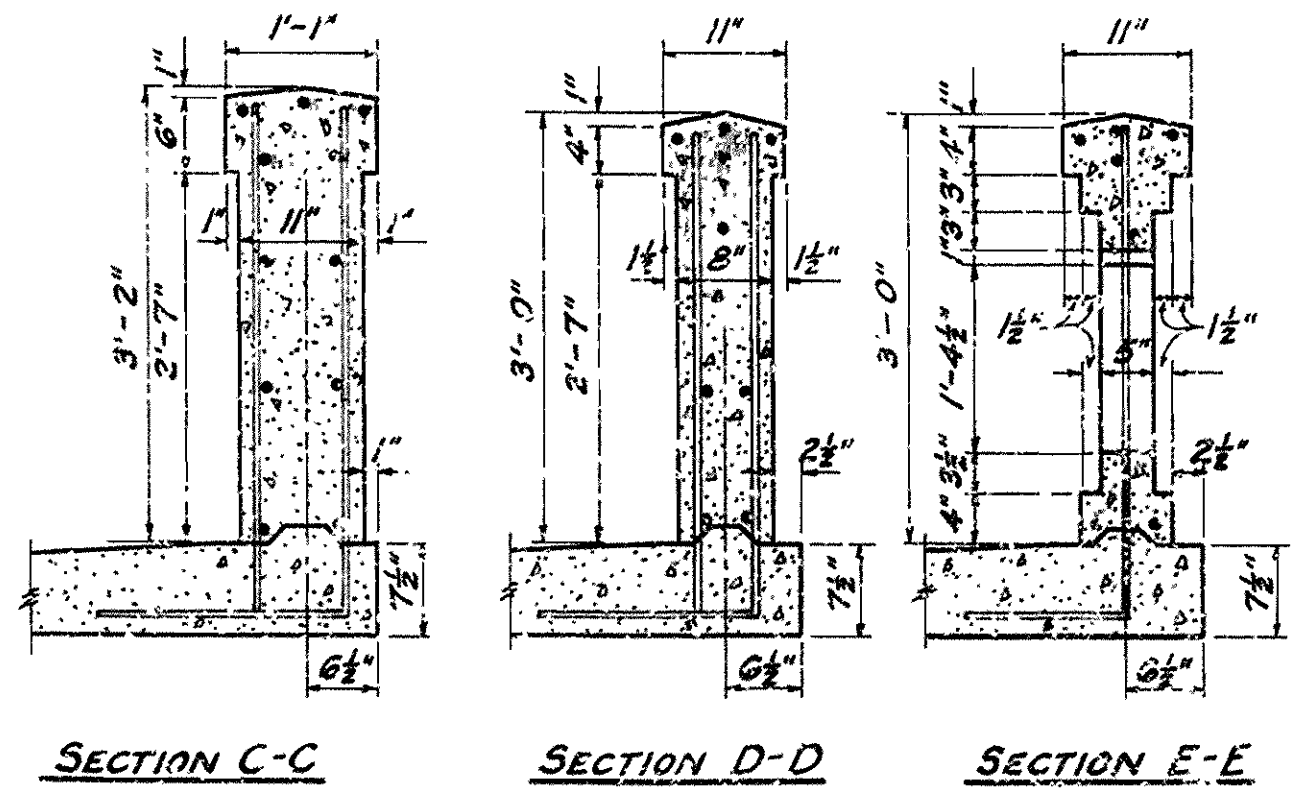
Rev. 4-5-47 Ribbed Bolts



All reinforcing steel shall be accurately placed 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 at a 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: "Reinforcing Steel." Shop lists and diagrams must be submitted for approval.



DETAILS OF STANDARD 45'-0" I-BEAM SPAN CONCRETE DECK 30'-0" CLEAR ROADWAY 2'-2'-0" SIDEWALKS ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

Scale: 1/2" = 1'-0" (road as noted)

Drawn By: L.A.M. Date: 1-4-41

Traced By: E.R.B. Date: 1-13-41

Checked By: Date:

DGE NO. DRAWING NO. 5240

PRINCIPAL HIGHWAY ENGINEER (BRIDGE)