

FED. ROAD NO.	STATE	FED AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	USG- 37213		3	26
JOB No.		6678		14	205

### SCHEDULE OF BRIDGE QUANTITIES

NAME & TITLE	PAGE NO.	CODE NO.	ITEM NUMBER.		801	801	802	802	803	804	S.P.#805	806	812	S.P.	813	
			ITEM	UNIT OF STRUCTURE	COMMON EXCAVATION FOR STRUCTURES	ROCK EXCAVATION FOR STRUCTURES	CLASS A CONCRETE	CLASS S CONCRETE	REINFORCING STEEL	STEEL BEARING PILING (12 BP 53)	ALUMINUM BRIDGE RAILING	STRUCTURAL STEEL IN BEAM SPANS	BRIDGE NAME PLATES (TYPE G)	REMODELING EXISTING BRIDGE STRUCTURES	DAY PROTECTING	
					UNITS	CU. YD.	CU. YD.	CU. YD.	CU. YD.	LB.	LIN. FT.	LIN. FT.	LB.	PLATE		COMPLETE ITEM
LINCOLN AVENUE BRIDGE 15-28-A X-231			RETAINING WALL - SECTIONS 1 AND 2		88		27.59	6.37	2,204		41.52				8.4	
			RETAINING WALL - SECTIONS 3 AND 4		47		31.58	4.88	3,173		41.87				0.4	
			RETAINING WALL - SECTIONS 5 AND 6		39		37.42	4.44	4,633		40.54				12.3	
			RETAINING WALL - SECTIONS 7 AND 8		46		47.01	4.44	5,775		41.46				14.6	
			ABUTMENT NO. 1		48		41.73	-	4,379			674				
			BENT NO. 8		386		162.77	78.08	18,302							
			BENT NO. 9		122		35.38	9.76	4,018	400						
			BENT NO. 10		120		23.66	35.95	7,318	796						
			BENT NO. 11		265	27	84.54	9.76	3,497							
			BENT NO. 12		46	27	44.44	9.76	4,787							
			BENT NO. 15 THRU 16		12	69	61.82	39.04	8,050							
			BENT NO. 17 THRU 18		16	58	163.04	70.46	25,774							
			BENT NO. 20 THRU 22		61	21	43.76	29.28	5,030							
			ABUTMENT NO. 2		73	21	29.48	-	2,435			674				
			RETAINING WALL - SECTIONS 9 AND 10		86	20	34.76	4.70	3,614		43.92				11.6	
			RETAINING WALL - SECTIONS 11 AND 12		83	10	26.60	4.74	2,222		41.33				9.1	
			RETAINING WALL - SECTIONS 13 AND 14		68	20	24.42	4.74	1,632		41.17				6.6	
			ELEVEN - 38'-6" SPAN					253.89	51,764		365.75	184,081				
			FIVE - 36'-0" SPAN					125.15	25,372		177.00	90,394				
			ONE - 35'-0" SPAN					54.65	12,185		85.07	37,145				
			ONE - 37'-9" SPAN					37.84	8,312		57.80	43,737				
			ONE - 61'-0" SPAN					43.61	3,695		67.00	57,454				
			ONE - 30'-0" SPAN					23.55	5,302		57.73	21,760				
			ONE - 51'-6" SPAN					35.38	8,716		52.94	37,987				
			ONE - 56'-0" SPAN					38.23	9,425		58.66	45,384				
			ONE - 39'-3 1/2" SPAN					23.58	6,089		5.60	28,166				
			NEW PILING, ROVER, MEDIAN & EXPR. BS. ON EXIST. STR.					98.17	11,937		982.84	1,174	1			
			</													

SCHEDULE OF BRIDGE QUANTITIES  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD-LITTLE ROCK WEST CITY LIMITS  
PULASKI COUNTY

ROUTE 10 SEC. 8  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

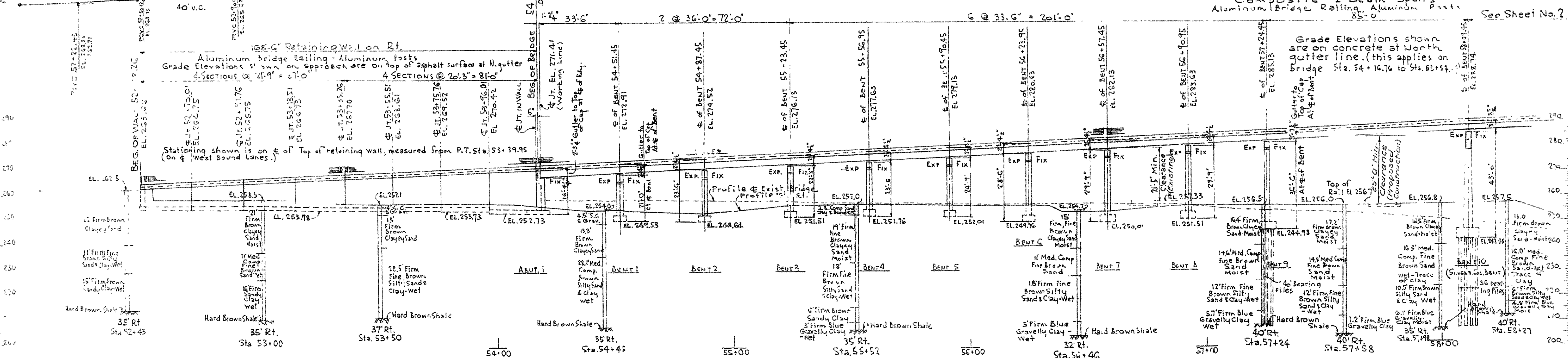
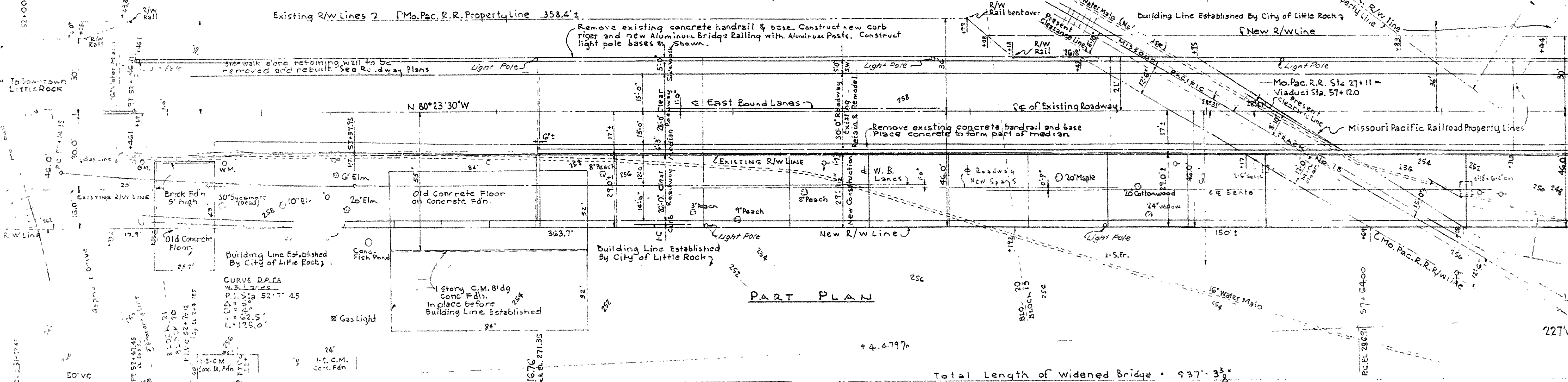
DRAWN BY *77* DATE *8-5-60*  
 TRACED BY: DATE: SCALE  
 CHECKED BY: *A. L. H.* DATE *8-5-60*  
 BRIDGE NO. 1538-A DRAWING NO. 11098

L.P. Carlson  
BRIDGE DESIGN ENGINEER



**RIGHT OF WAY DATA**  
 New Highway R/W Line  
 Existing " R/W Line on South - Mo. Pac. R.R. Property Line.  
 C.R. & Pac. R.R. R/W Line - Mo. Pac. R.R. Property Line.  
 Mo. Pac. R.R. R/W Line  
 Existing Highway R/W on North & South  
 Block Lines.  
 Private Property Line where shown.

**CURVE DATA**  
 R1 STA. 52+04.41  
 R2 STA. 52+04.41  
 R3 STA. 52+04.41  
 R4 STA. 52+04.41  
 R5 STA. 52+04.41  
 R6 STA. 52+04.41  
 R7 STA. 52+04.41  
 R8 STA. 52+04.41  
 R9 STA. 52+04.41  
 R10 STA. 52+04.41  
 R11 STA. 52+04.41  
 R12 STA. 52+04.41  
 R13 STA. 52+04.41  
 R14 STA. 52+04.41  
 R15 STA. 52+04.41  
 R16 STA. 52+04.41  
 R17 STA. 52+04.41  
 R18 STA. 52+04.41  
 R19 STA. 52+04.41  
 R20 STA. 52+04.41  
 R21 STA. 52+04.41  
 R22 STA. 52+04.41  
 R23 STA. 52+04.41  
 R24 STA. 52+04.41  
 R25 STA. 52+04.41  
 R26 STA. 52+04.41  
 R27 STA. 52+04.41  
 R28 STA. 52+04.41  
 R29 STA. 52+04.41  
 R30 STA. 52+04.41  
 R31 STA. 52+04.41  
 R32 STA. 52+04.41  
 R33 STA. 52+04.41  
 R34 STA. 52+04.41  
 R35 STA. 52+04.41  
 R36 STA. 52+04.41  
 R37 STA. 52+04.41  
 R38 STA. 52+04.41  
 R39 STA. 52+04.41  
 R40 STA. 52+04.41  
 R41 STA. 52+04.41  
 R42 STA. 52+04.41  
 R43 STA. 52+04.41  
 R44 STA. 52+04.41  
 R45 STA. 52+04.41  
 R46 STA. 52+04.41  
 R47 STA. 52+04.41  
 R48 STA. 52+04.41  
 R49 STA. 52+04.41  
 R50 STA. 52+04.41  
 R51 STA. 52+04.41  
 R52 STA. 52+04.41  
 R53 STA. 52+04.41  
 R54 STA. 52+04.41  
 R55 STA. 52+04.41  
 R56 STA. 52+04.41  
 R57 STA. 52+04.41  
 R58 STA. 52+04.41  
 R59 STA. 52+04.41  
 R60 STA. 52+04.41  
 R61 STA. 52+04.41  
 R62 STA. 52+04.41  
 R63 STA. 52+04.41  
 R64 STA. 52+04.41  
 R65 STA. 52+04.41  
 R66 STA. 52+04.41  
 R67 STA. 52+04.41  
 R68 STA. 52+04.41  
 R69 STA. 52+04.41  
 R70 STA. 52+04.41  
 R71 STA. 52+04.41  
 R72 STA. 52+04.41  
 R73 STA. 52+04.41  
 R74 STA. 52+04.41  
 R75 STA. 52+04.41  
 R76 STA. 52+04.41  
 R77 STA. 52+04.41  
 R78 STA. 52+04.41  
 R79 STA. 52+04.41  
 R80 STA. 52+04.41  
 R81 STA. 52+04.41  
 R82 STA. 52+04.41  
 R83 STA. 52+04.41  
 R84 STA. 52+04.41  
 R85 STA. 52+04.41  
 R86 STA. 52+04.41  
 R87 STA. 52+04.41  
 R88 STA. 52+04.41  
 R89 STA. 52+04.41  
 R90 STA. 52+04.41  
 R91 STA. 52+04.41  
 R92 STA. 52+04.41  
 R93 STA. 52+04.41  
 R94 STA. 52+04.41  
 R95 STA. 52+04.41  
 R96 STA. 52+04.41  
 R97 STA. 52+04.41  
 R98 STA. 52+04.41  
 R99 STA. 52+04.41  
 R100 STA. 52+04.41



**DESIGN SPECIFICATIONS - AASHTO 1957**  
**DESIGN LIVE LOAD:** H20 SIG. LOADING  
**UNIT STRESSES:** Class A Concrete (n=15) 840#/#"  
 (New Construction) Class S Concrete (n=10) 1200#/#"  
 Reinforcing Steel (Intergrade) 20000#/#"  
 Structural Steel 13000#/#"

**GENERAL NOTES:**  
 The work contemplated consists of remodeling the existing viaduct in accordance with plans and special provisions. All dimensions and elevations relating to existing structures are general only and any adjustments necessary to conform to existing construction shall be made.  
 All concrete to be poured in the dry. Exposed corners to be chamfered 3/4" unless otherwise noted.  
 For specifications governing excavation for structures, see 801.4 of the Standard Specifications. Concrete in footings to be poured against excavated surfaces of rock.  
 Lengths of piling shown are for estimating quantities only.  
 All piling shall be 12" BP @ 55# and shall be driven with a steam hammer into the material designated in the boring logs as hard brown shale, and to a minimum capacity of 40 tons per pile. Order lengths shown; payment for cut-off and build-up to be in accordance with Section 804 of the Standard Specifications.  
 Removal or adjustment of Public Utilities where necessary shall not be at the Contractor's expense.  
 Light poles on the bridge to be furnished and placed by the City of Little Rock.

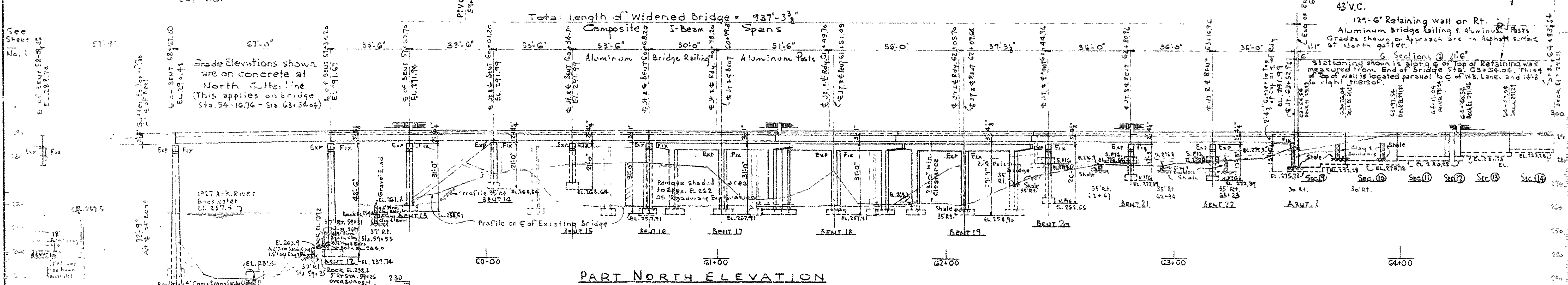
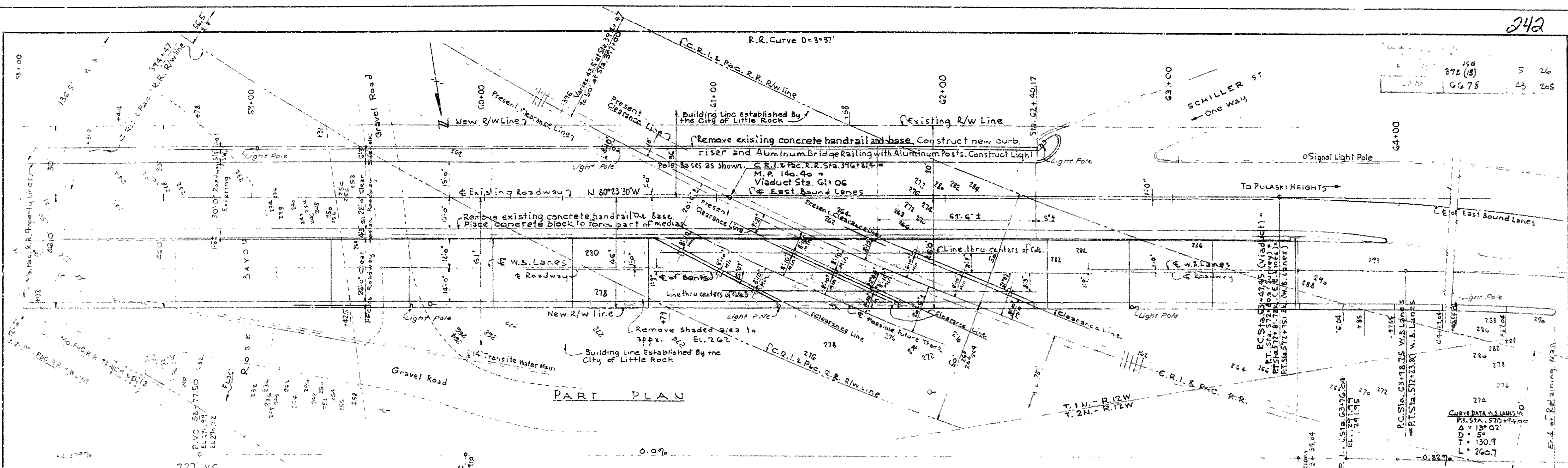
**BEFORE CONSTRUCTION BEGINS** the Contractor shall submit to the Highway Commission for its approval and that of the Railroad Commission details of falsework over the track area. Excavations shall be adequately sheeted and braced to prevent danger to adjacent tracks. Sheet piling or other obstructions will not be allowed to extend above top of rail when closer than 8' from the existing tracks.  
 The Contractor shall provide Public Liability and Property Damage Insurance as outlined in the Special Provisions.  
 In general all construction joints in bents shall be horizontal and provided with keys, not less than 1/2' deep, covering the middle third of both dimensions.  
 Plans of existing viaduct will be furnished to the Contractor upon request.  
**SPECIFICATIONS:** Arkansas State Highway Commission Standard Specifications for Highway Construction Edition of 1959 and designated Special Provisions.  
 See Drawg. No. 11100 for List of Detail Drawings required.

Revisions:  
 Building Line Shown H.B. 6-14-60  
 Type Piling H.B. 6-15-60  
 Added 2' clearance information. K.H. 9-13-60

*L. J. Carlson*  
 BRIDGE ENGINEER

**SHEET 1 OF 2**  
**LAYOUT OF**  
**LINCOLN AVENUE VIADUCT WIDENING**  
**LA HARPE BLVD. - LITTLE ROCK WEST CITY LIMITS**  
**IN LITTLE ROCK, ARK.**  
**PULASKI COUNTY**  
**ROUTE 10 SEC. 8**  
**ARKANSAS STATE HIGHWAY COMMISSION**  
 LITTLE ROCK, ARK.  
 DRAWN BY: W.C.H. DATE: 7-3-59  
 TRACED BY: E.A.W. DATE: 3-30-60  
 CHECKED BY: J.N.H. DATE: 9-9-60  
 BRIDGE NO. 1538-A DRAWING NO. 11099





For details of East Approach (Wall Sections ①-⑤ incl) See Drwgs. 11101, 11102 & 11110  
 of Abutment No. 1 See Drwg. 11103  
 of Bents 1 thru 8, 13, 14, 15, 16, 20, 21, 22 See Drwg. 11104  
 of Bents No. 9 & 10 See Drwg. 11105  
 of Bents No. 11 & 12 See Drwg. 11106  
 of Bent No. 17, 18, 19 See Drwg. 11107  
 of Abutment No. 2 See Drwg. 11108  
 of West Approach (Wall Sections ⑥-⑮ incl) See Drwgs. 11101, 11109 & 11110  
 General Details of I-Beam Spans See Drwg. 11111  
 Supplemental Details of 30'-0\"/>

Revisions:  
 Section 8 Bent 13-19 H.B. 5-2-60  
 building line shown H.B. 6-16-60

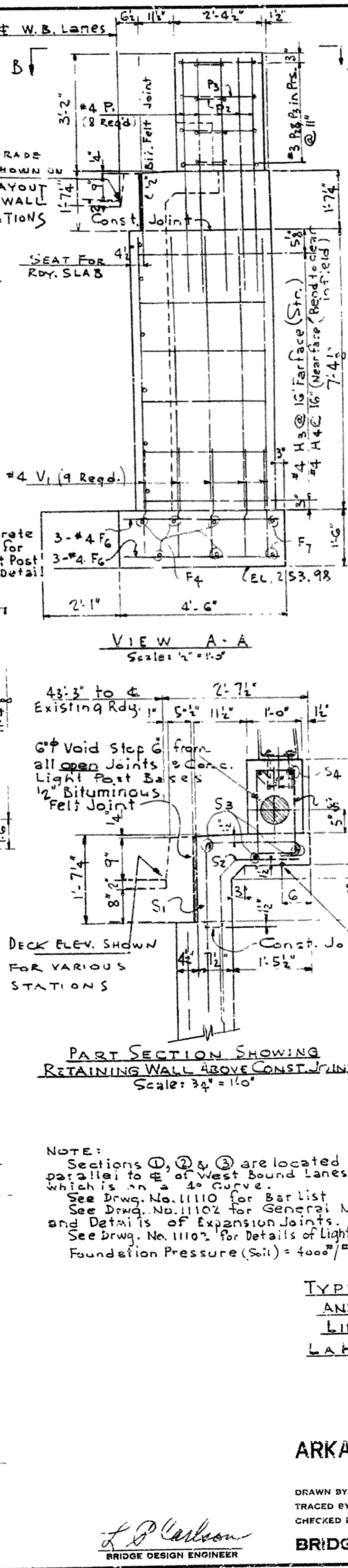
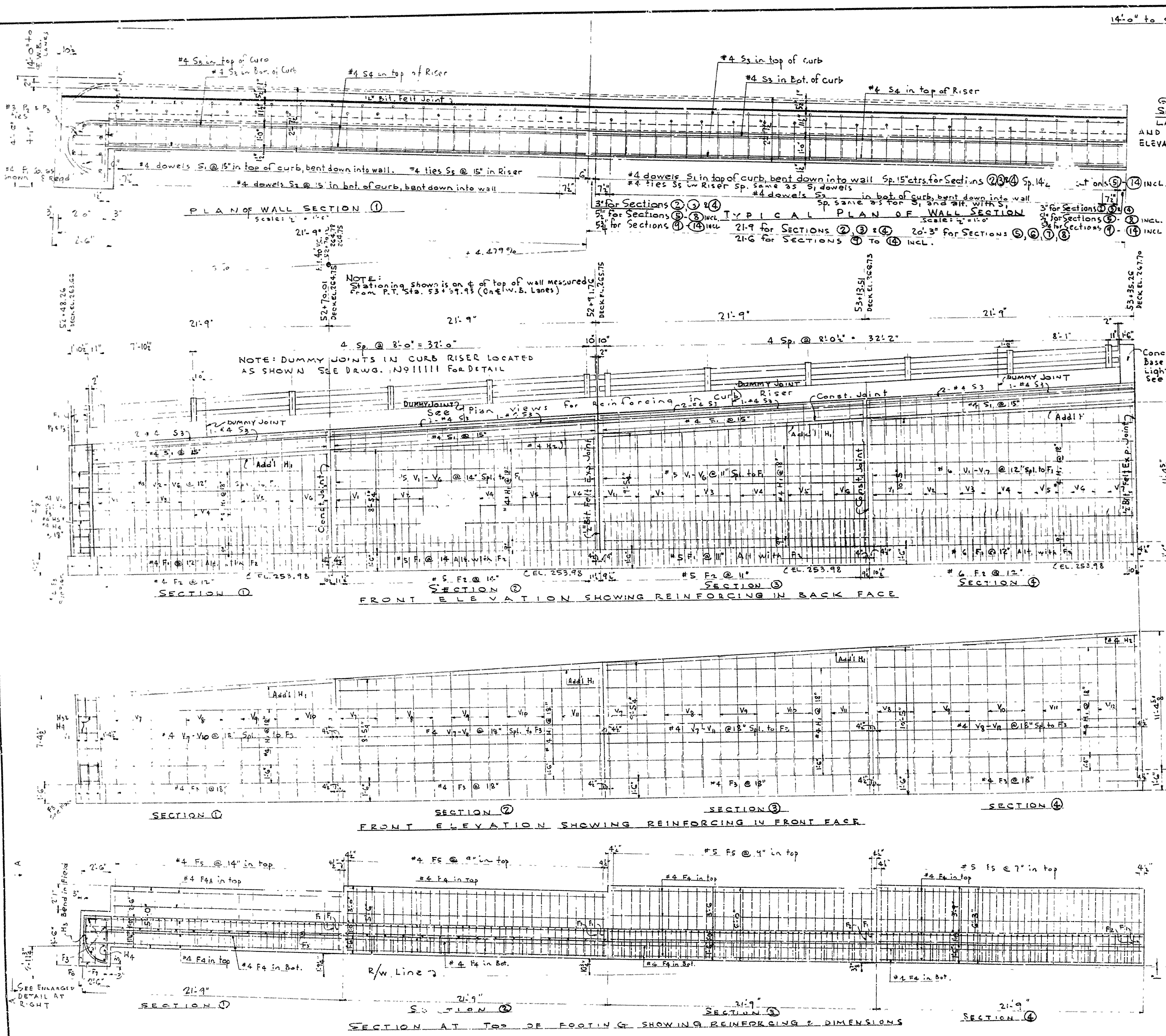
SHEET 2 OF 2  
 LAYOUT OF  
 LINCOLN AVENUE VIADUCT WIDENING  
 LA HARPE BLVD. LITTLE ROCK WEST CITY LIMITS  
 IN LITTLE ROCK, ARK.  
 PULASKI COUNTY  
 ROUTE 10 SEC. 8  
 ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.

DRAWN BY: WCH DATE: 7-10-59  
 CHECKED BY: J.M.H. DATE: 8-2-60  
 BRIDGE NO. 1538-A DRAWING NO. 11100

L.P. Carlson  
 BRIDGE ENGINEER



FED. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	1958	6	26
JOB NO.		6678	44	205



**NOTE:**  
Sections ①, ② & ③ are located parallel to & of West Bound Lanes which is on a 40' curve.  
See Drwg. No. 1110 for Bar List  
See Drwg. No. 1110 for General Notes  
See Drwg. No. 1110 for Details of Light Post Base.  
Foundation Pressure (Soil) = 4000#/' Max.

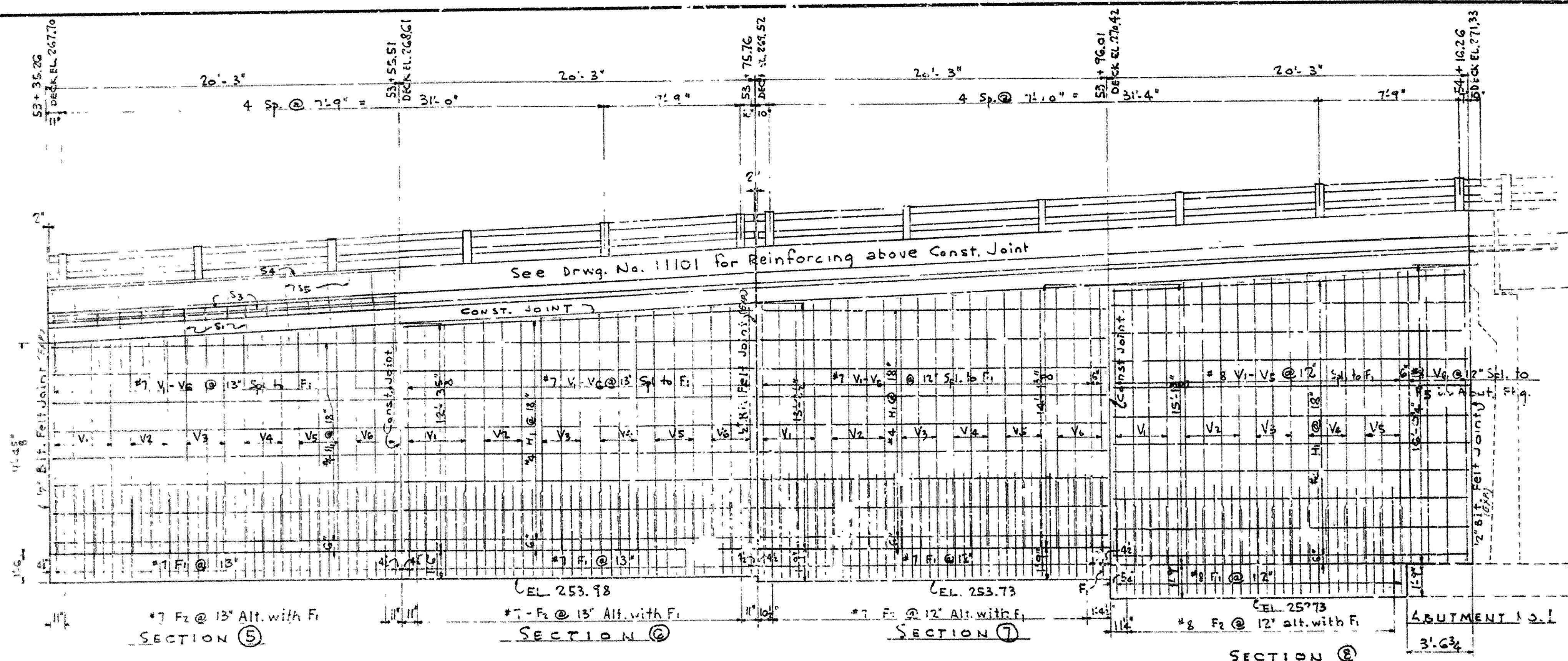
**TYPICAL CROSS SECTION FOR ALL WALLS AND DETAILS OF WALL SECTIONS 1 TO 4 INCL.**  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD. LITTLE ROCK WEST CITY LIMITS  
IN LITTLE ROCK, ARK.  
PULASKI COUNTY  
ROUTE 10 SEC. 8  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

**DRAWN BY:** EAW **DATE:** 6-30-60  
**TRACED BY:** **DATE:** **SCALE:** 1" = 10'-0" and as noted  
**CHECKED BY:** **DATE:** 10/18/60

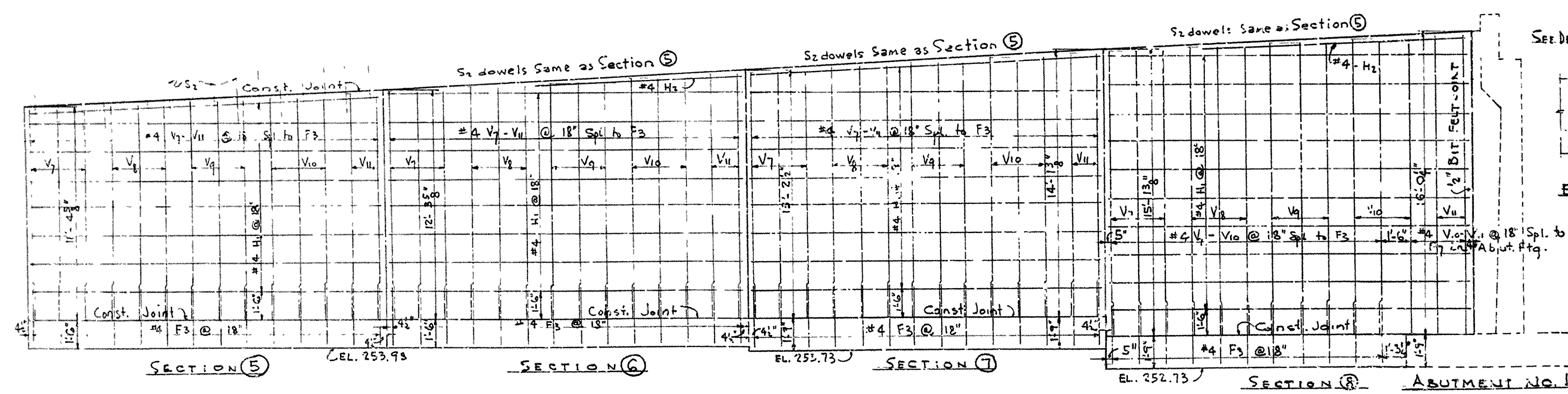
**BRIDGE NO. 1538 A DRAWING NO. 1110**



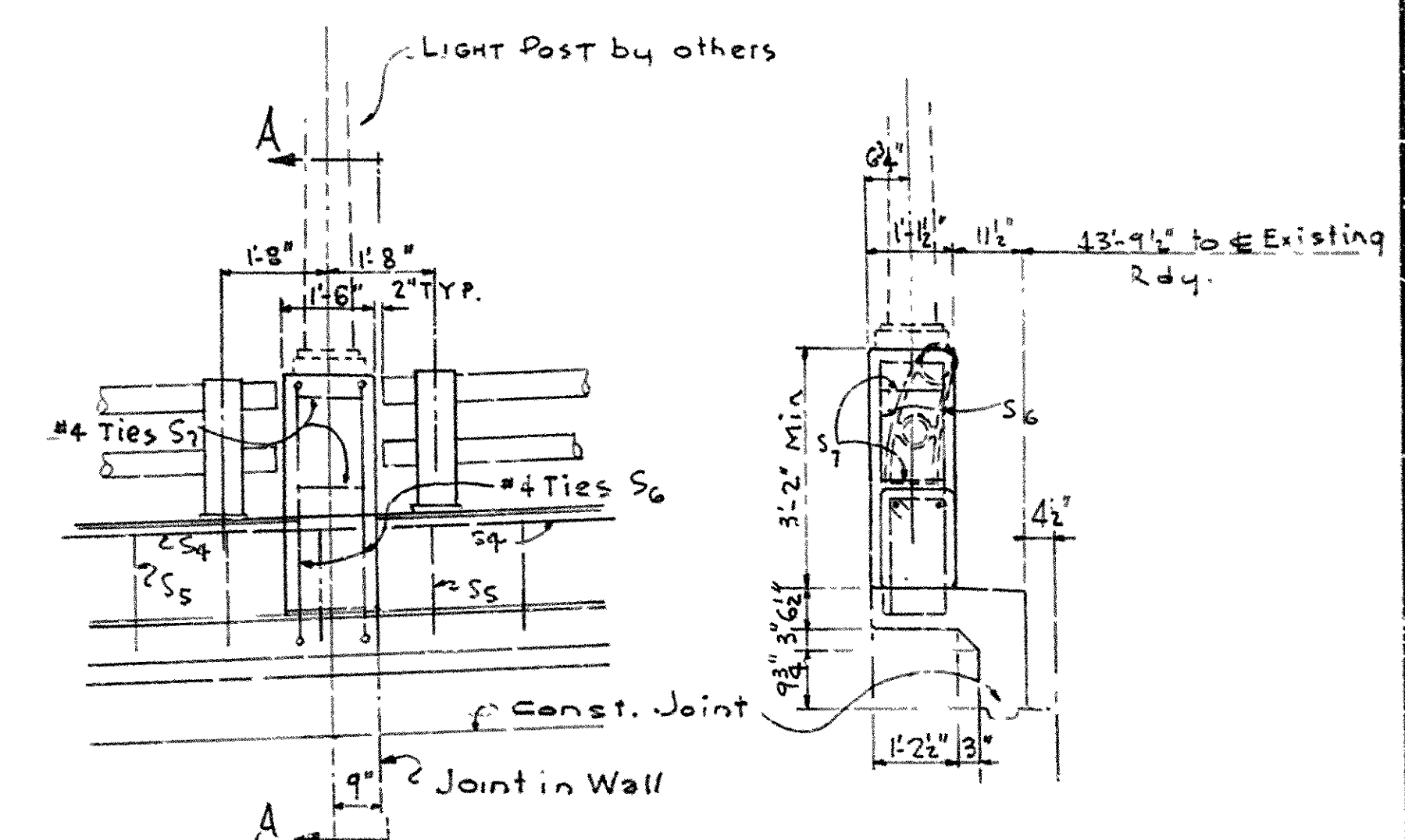
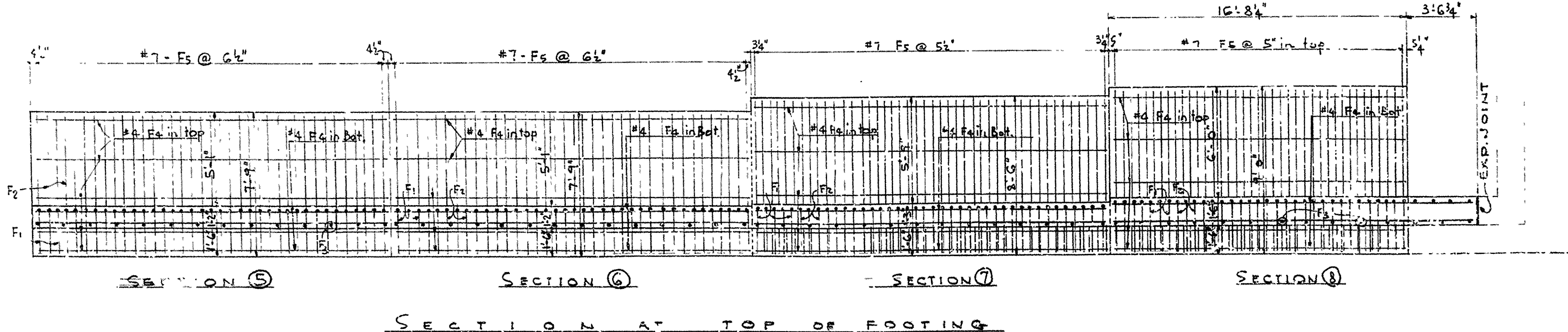
FED. ROAD DIST. NO.	STATE	FED. AC. NO.	STATE AC. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	372(B)	7	26	
JOB NO.	C678 45 203				



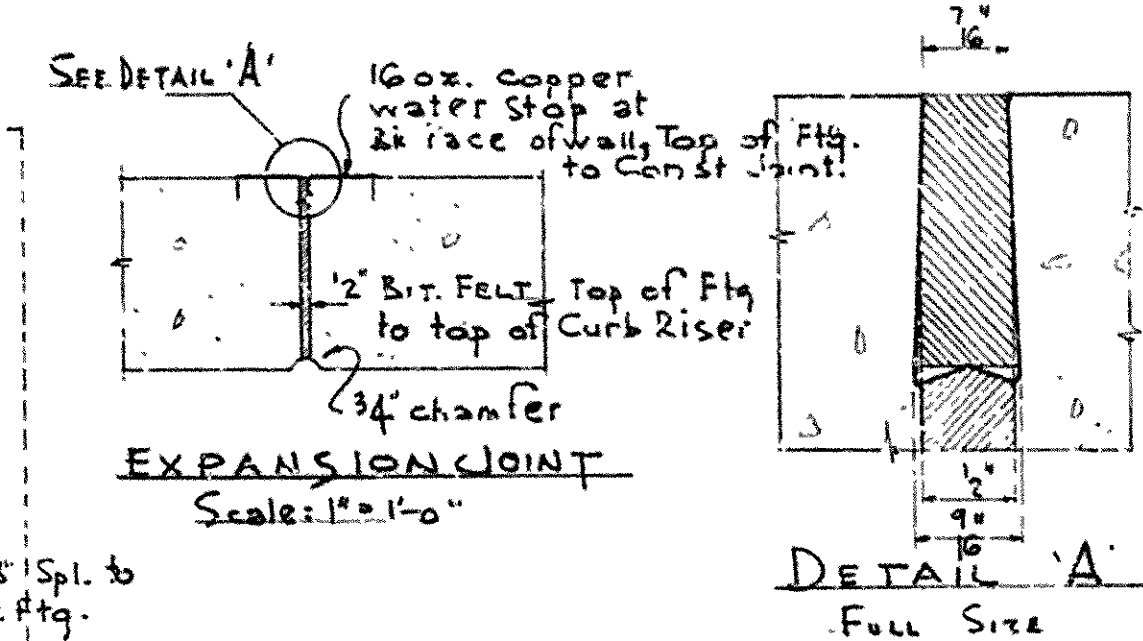
FRONT ELEVATION SHOWING REINFORCING IN BACK FACE



FRONT ELEVATION SHOWING REINFORCING IN FRONT FACE



ELEVATION  
DETAIL OF BASE FOR LIGHT POSTS  
Scale: 1/2" = 1'-0"  
Conduit, anchor bolt, and fittings for light post are as shown on Drwg. No. 11113



EXPANSION JOINT DETAILS FOR WALLS

**GENERAL NOTES:**  
Concrete to be Class A or Class S separation as shown by sketch.  
Expansion Joints are to be located as shown and to conform to detail shown. Bituminous Felt is to be measured and paid for as Class A and Class S Concrete. Copper water stop to be measured and paid for at contract unit price bid for Reinforcing Steel.  
Construction Joints to be made at locations shown and will also be permissible between adjacent sections of formwork. All construction joints to be provided with continuous keys, 1/2" deep occupying approx. the middle of wall or footing thickness. Apply on back face of wall, from top of footing to prevent seep, a one foot width of dampproofing consisting of a primer coat and two moppings of bituminous in accordance with Section 813 of the Standard Specifications.  
For Typical Sections See Drwg. No. 11101  
For List of Reinforcing Steel See Drwg. No. 11110  
Foundation Pressure (Soil) = 4000#/3" Max.

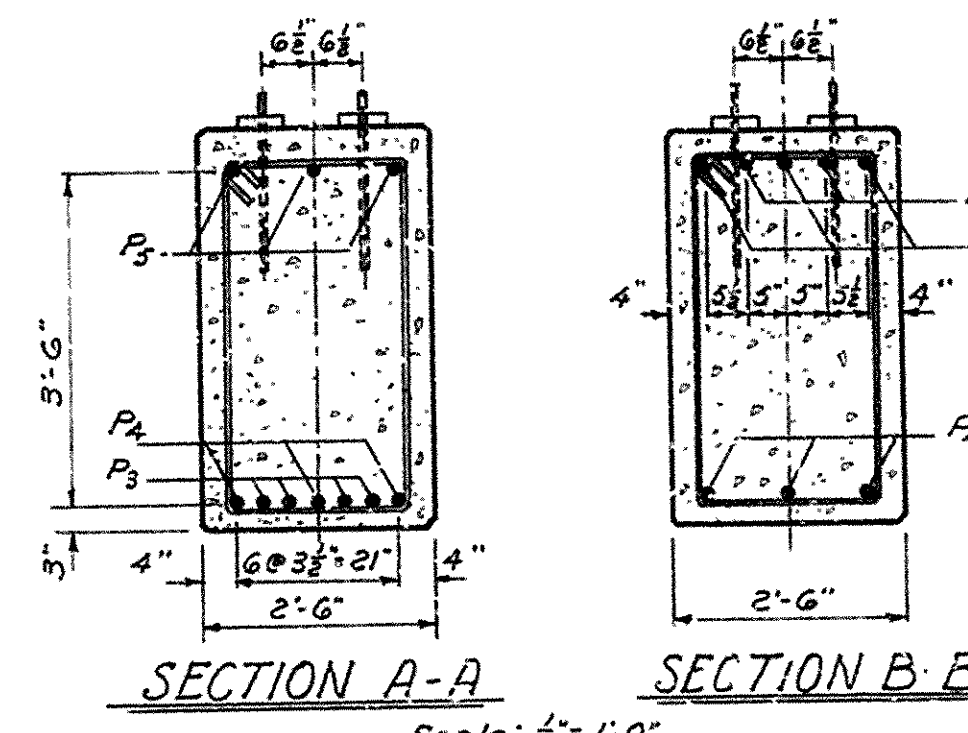
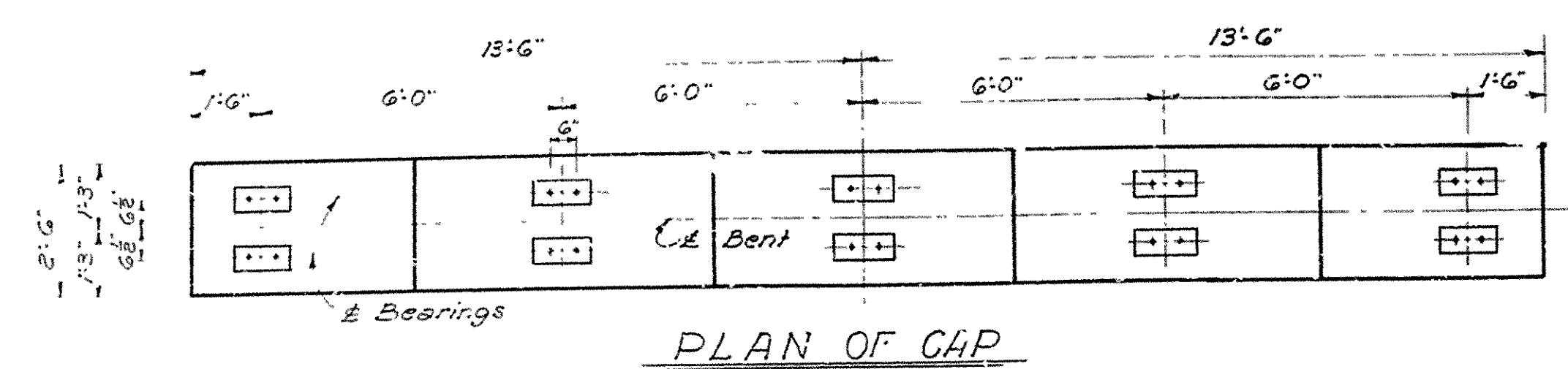
DETAILS OF WALL SECTIONS 5, 6, 7, 8  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD. LITTLE ROCK WEST CITY LIMITS

IN LITTLE ROCK, ARK.  
PULASKI COUNTY  
ROUTE 10 SEC. 8  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: E.A.W. DATE: 6-30-60  
TRACED BY: DATE: 8-29-60  
CHECKED BY: DATE: 8-29-60  
BRIDGE NO. 1538A DRAWING NO. 11102





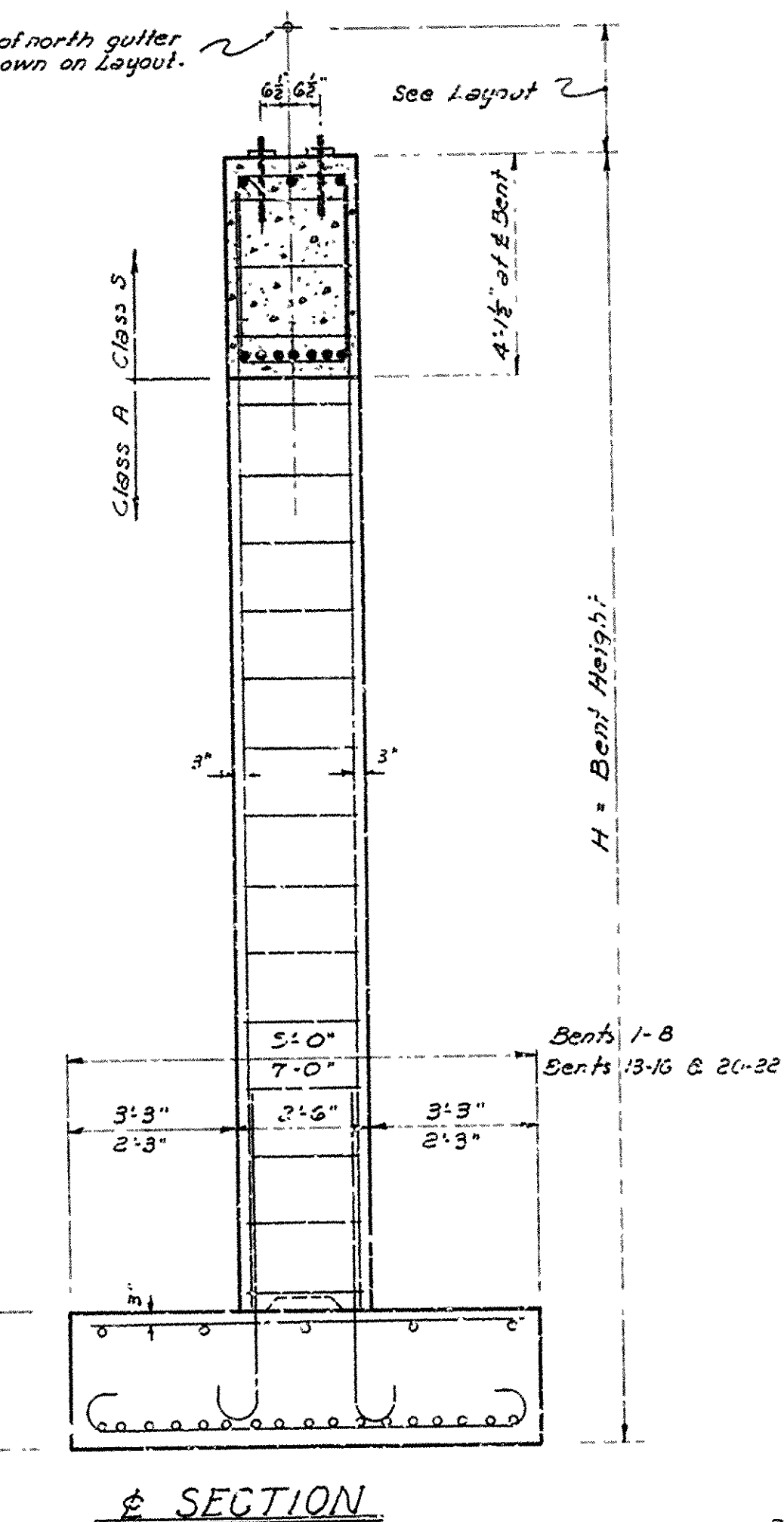
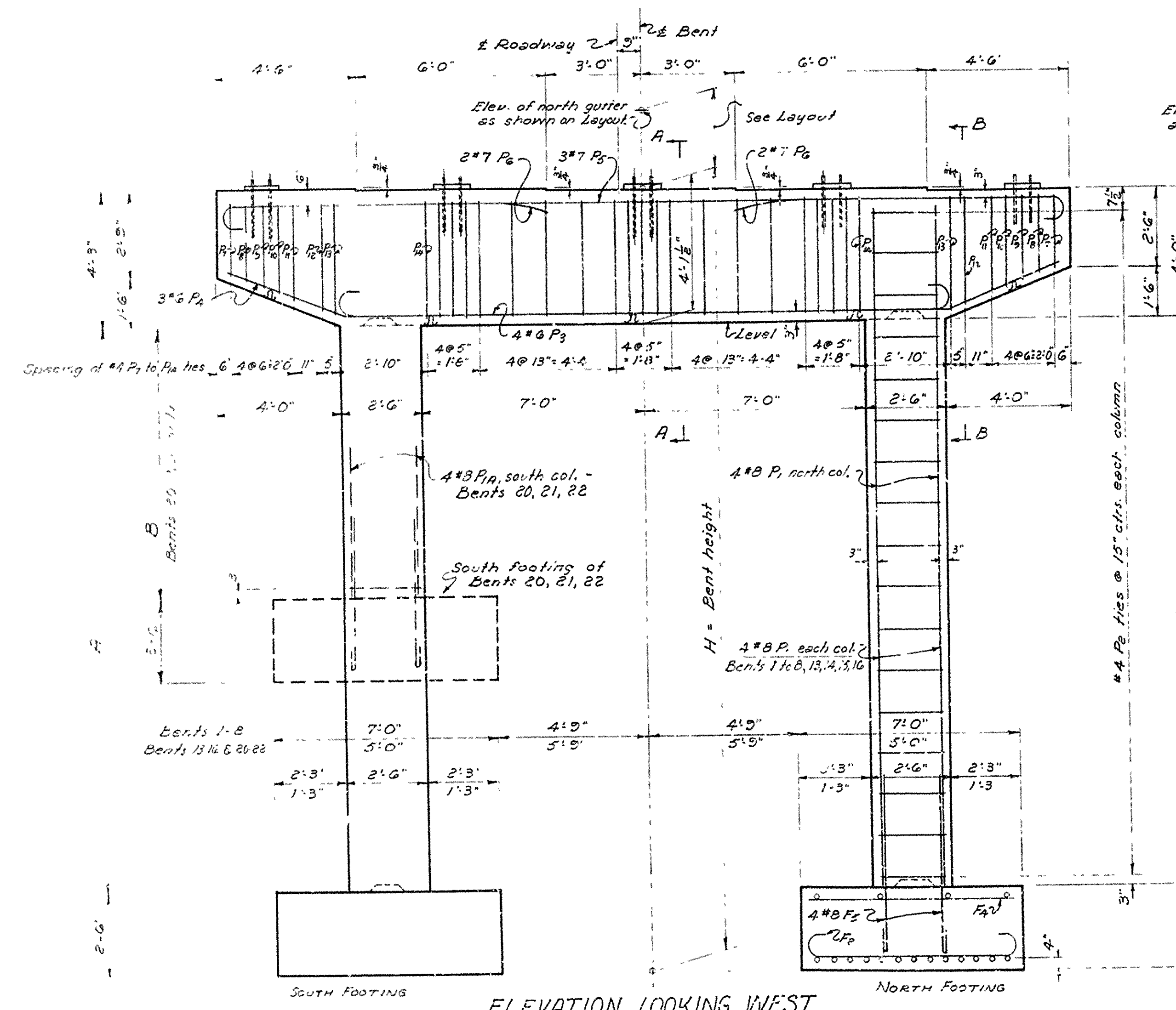




BAR LISTS - FOR EACH BENT AS DESIGNATED

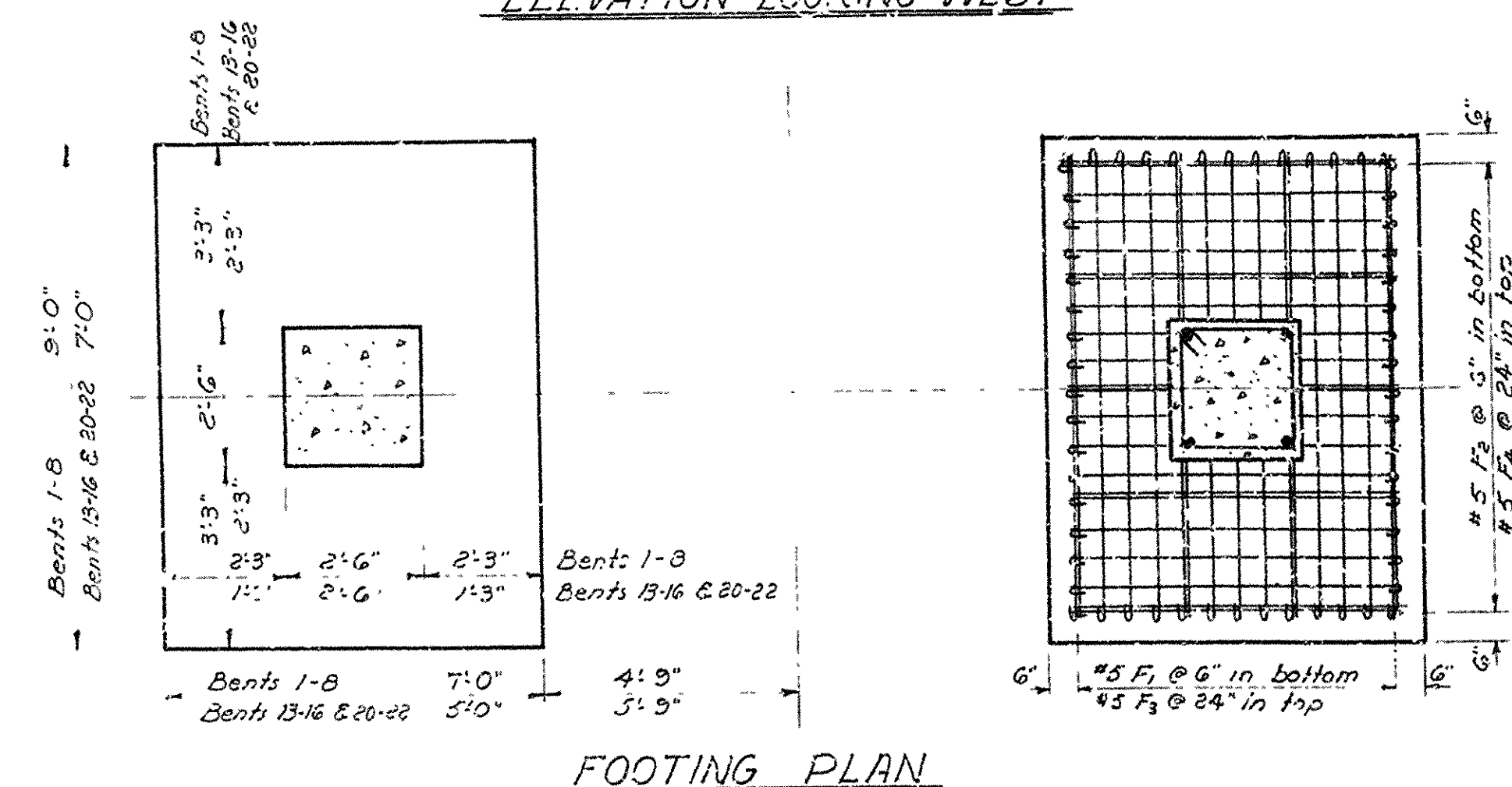
MARK	SIZE	No.	LENGTH	MARK	SIZE	No.	LENGTH	MARK	SIZE	No.	LENGTH	BENDING DIAGRAM
F <sub>1</sub>	#5	36	18'-7"	F <sub>2</sub>	#5	36	18'-7"	F <sub>3</sub>	#5	36	18'-7"	
F <sub>4</sub>	#5	36	18'-7"	F <sub>5</sub>	#5	36	18'-7"	F <sub>6</sub>	#5	36	18'-7"	
F <sub>7</sub>	#5	36	18'-7"	F <sub>8</sub>	#5	36	18'-7"	F <sub>9</sub>	#5	36	18'-7"	
F <sub>10</sub>	#5	36	18'-7"	F <sub>11</sub>	#5	36	18'-7"	F <sub>12</sub>	#5	36	18'-7"	
P <sub>1</sub>	#6	8	6'-0"	P <sub>2</sub>	#6	8	6'-0"	P <sub>3</sub>	#6	8	6'-0"	
P <sub>4</sub>	#6	8	6'-0"	P <sub>5</sub>	#6	8	6'-0"	P <sub>6</sub>	#6	8	6'-0"	
P <sub>7</sub>	#6	8	6'-0"	P <sub>8</sub>	#6	8	6'-0"	P <sub>9</sub>	#6	8	6'-0"	
P <sub>10</sub>	#6	8	6'-0"	P <sub>11</sub>	#6	8	6'-0"	P <sub>12</sub>	#6	8	6'-0"	

Dimensions are to centers of bars



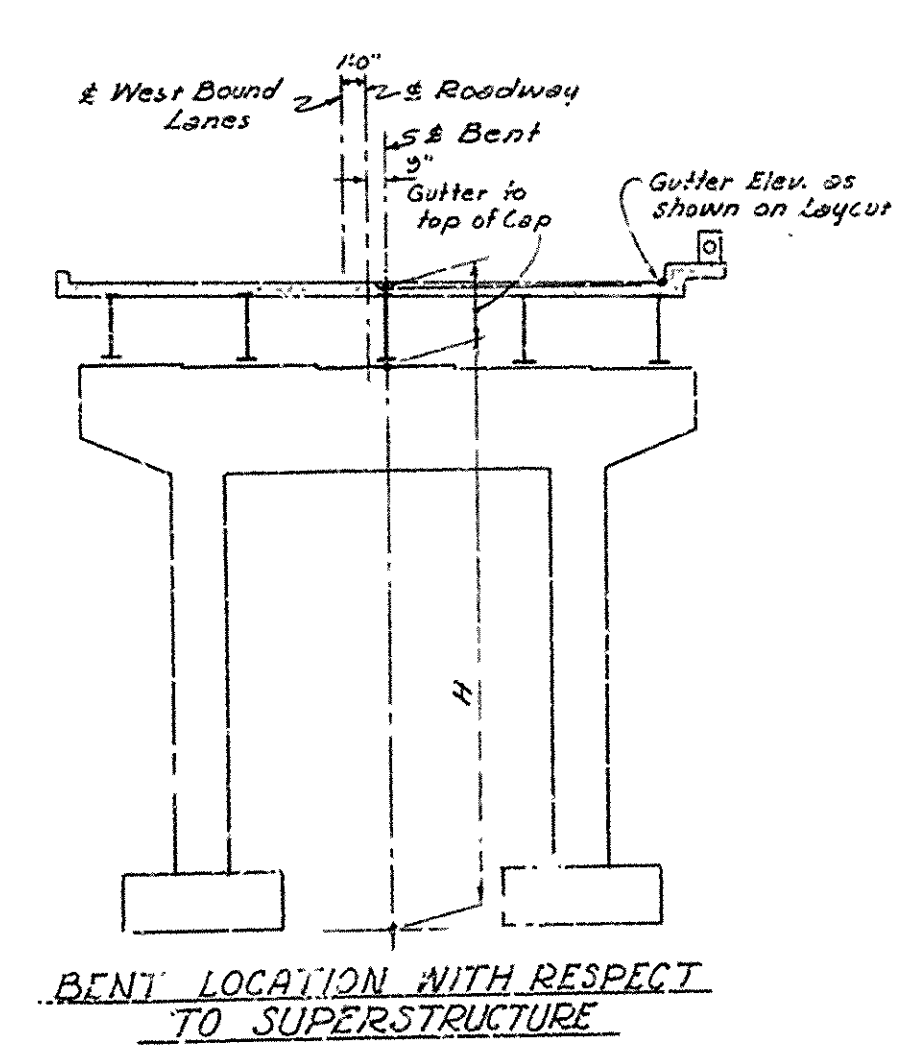
BAR LISTS FOR BARS P<sub>1</sub>, P<sub>2</sub> & P<sub>3</sub> - EACH BENT

BENT No.	SIZE	No.	LENGTH	SIZE	No.	LENGTH	SIZE	No.	LENGTH	BENDING DIAGRAM
1, 14, 15	#8	8	18'-0"	#4	30	9'-3"	-	-	-	
2 & 4	-	-	20'-6"	34	-	-	-	-	-	
3	-	-	19'-3"	32	-	-	-	-	-	
5	-	-	21'-9"	36	-	-	-	-	-	
6	-	-	25'-6"	42	-	-	-	-	-	
7 & 8	-	-	26'-9"	44	-	-	-	-	-	
13 & 16	-	-	28'-0"	46	-	-	-	-	-	
20	-	-	22'-10"	25	-	-	-	-	-	
21 & 22	#8	4	14'-0"	#4	19	9'-3"	#8	4	7'-10"	-



VARIABLE DIMENSIONS

BENT NO.	H	A	B	FOOTING ELEV.
1, 14, 15	21'-0"	14'-4 1/2"		#1 252.53 #14 248.64
2 & 4	22'-6"	16'-10 1/2"		#2 248.64 #4 251.76
3	22'-3"	15'-7 1/2"		251.51
5	24'-9"	18'-1 1/2"		252.01
6	28'-6"	21'-10 1/2"		249.76
7 & 8	29'-9"	23'-1 1/2"		#7 250.01 #8 251.51
13 & 16	31'-0"	24'-4 1/2"		#13 250.59 #16 252.21
20	26'-0"	15'-4 1/2"	3'-1 1/2"	#20 270.90 #24 272.53
21 & 22	17'-3"	10'-7 1/2"	4'-1 1/2"	#21 270.64 #22 272.53



**GENERAL NOTES**

Concrete in footings and columns to be Class A. Concrete in caps to be Class S. Exposed corners chamfered 3" unless otherwise noted.

Reinforcing steel to be deformed bars of intermediate grade unless modified by special provisions.

Shop lists and bending diagrams of reinforcing steel and wire supports shall be submitted and approved before fabrication is begun.

Construction joints shall be horizontal and provided with keys 1/2" high covering the middle third of both dimensions.

Foundation pressure: Bents 1-8: in soil 3400 lbs./sq. ft. Group I  
Bents 13, 14, 15, 16, 20-22: in rock 6150 lbs./sq. ft.

For details of 33'-6" & 36'-0" Comp. I Beam spans see Drawing 11111.

DETAILS OF BENTS 1 TO 8, 13, 14, 15, 16, 20, 21, 22  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD - LITTLE ROCK WEST CITY LIMITS  
PULASKI COUNTY

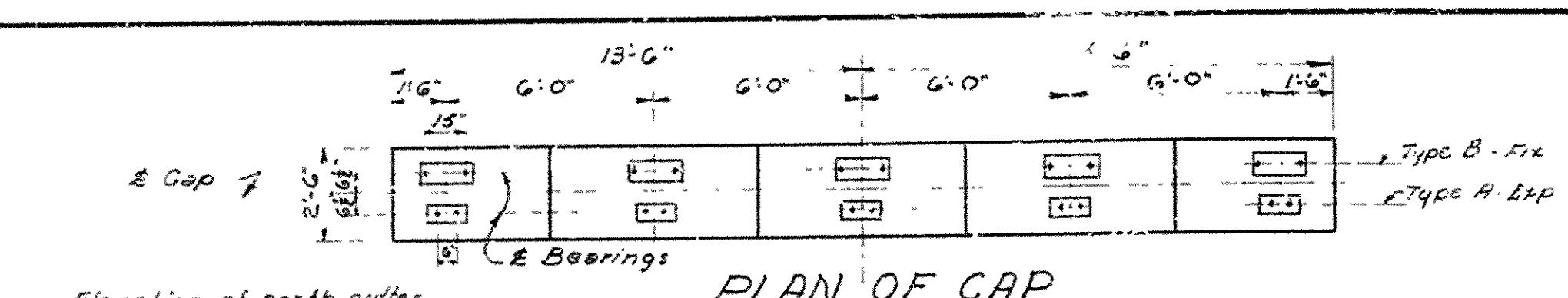
ROUTE 10 SEC. 8  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

DRAWN BY: J.E.H. DATE: 5-27-60  
TRACED BY: D.V. DATE: 7-18-60  
CHECKED BY: D.V. DATE: 7-18-60  
BRIDGE NO. 1538A DRAWING NO. 11104

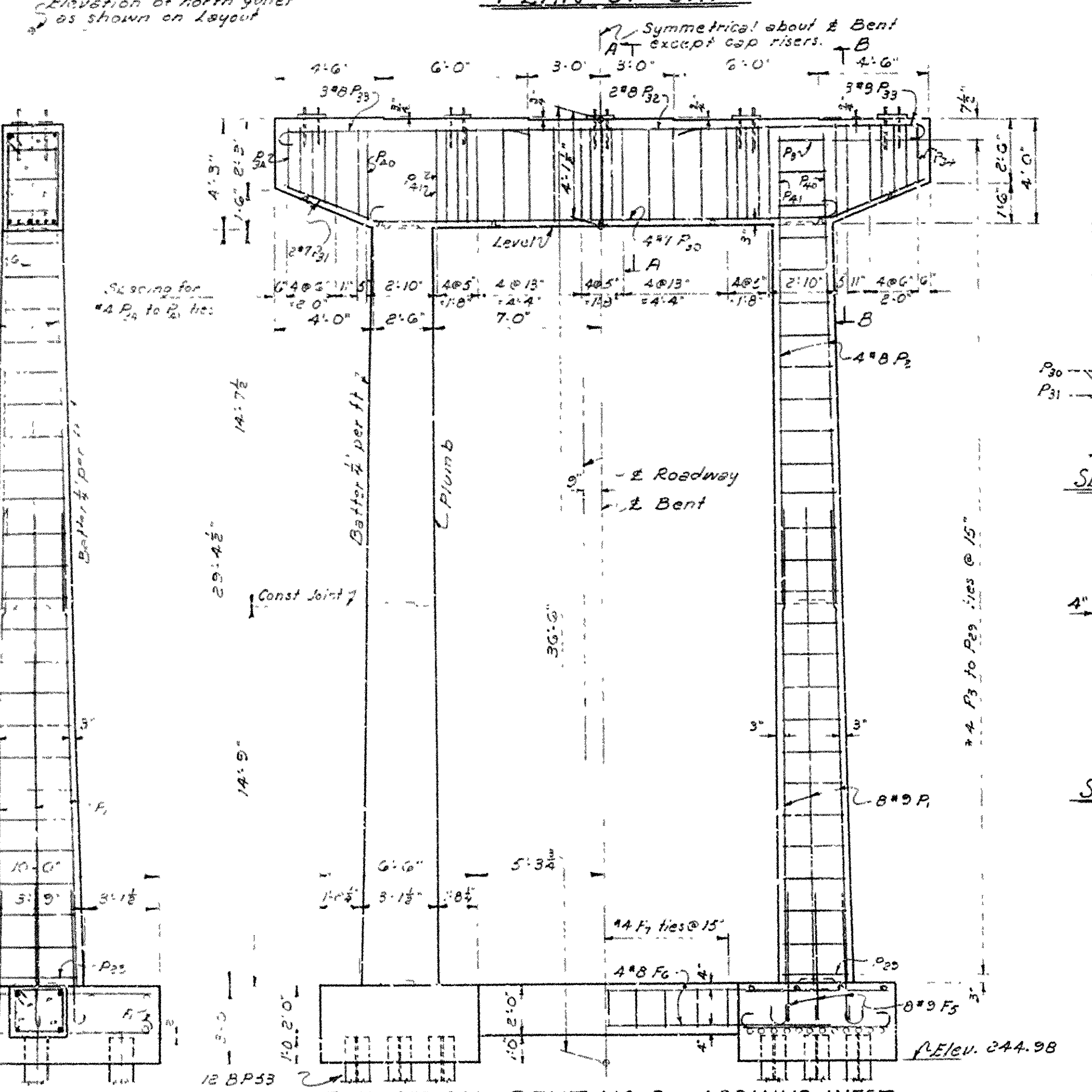
L.P. Carlson  
BRIDGE ENGINEER



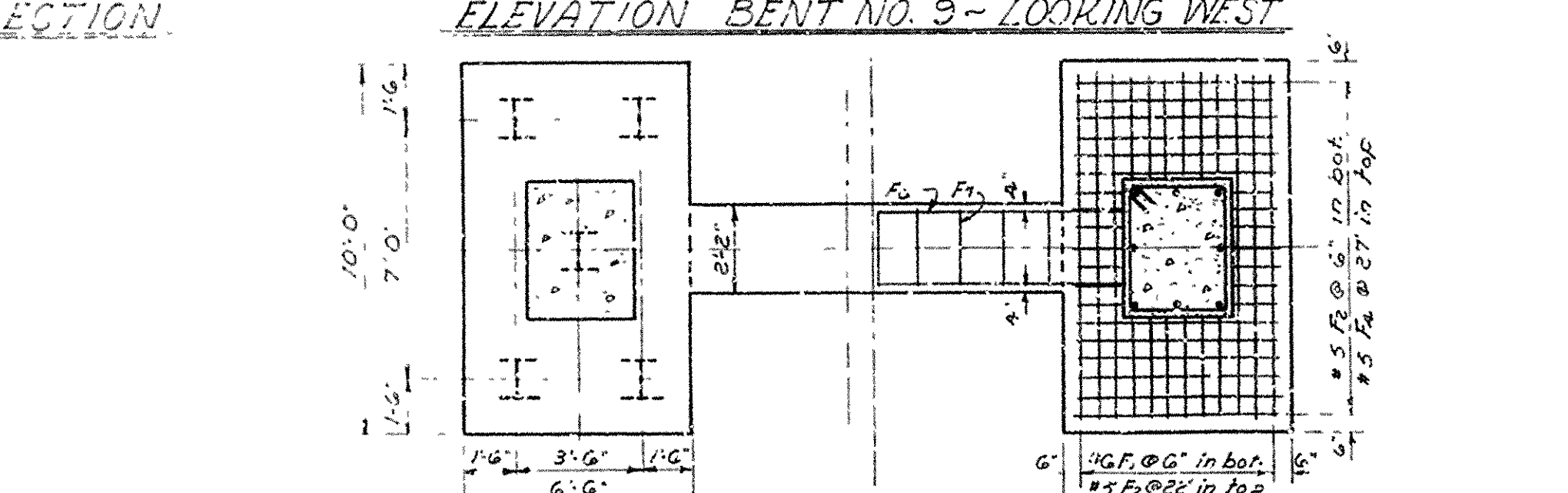
FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	372 (15)		10	26
JOB No.		6678	48	705	



PLAN OF CAP



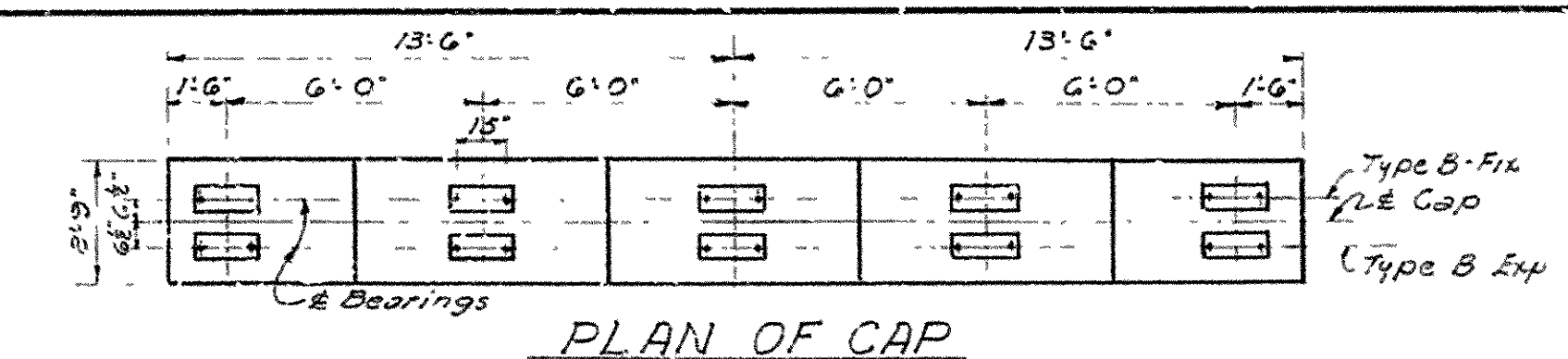
ELEVATION BENT NO. 9 - LOOKING WEST



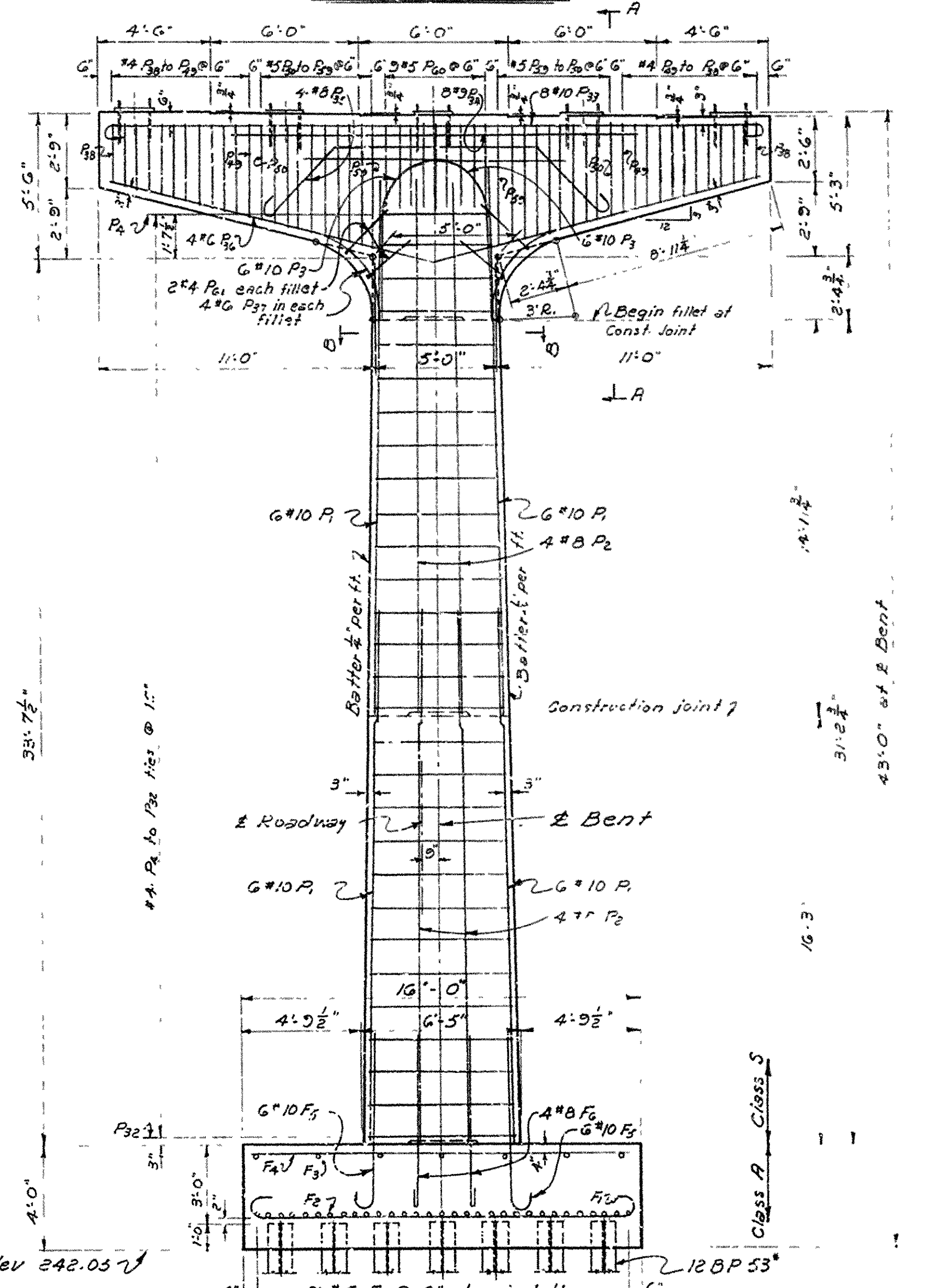
PLAN OF FOOTING

BAR LIST - BENT NO. 9

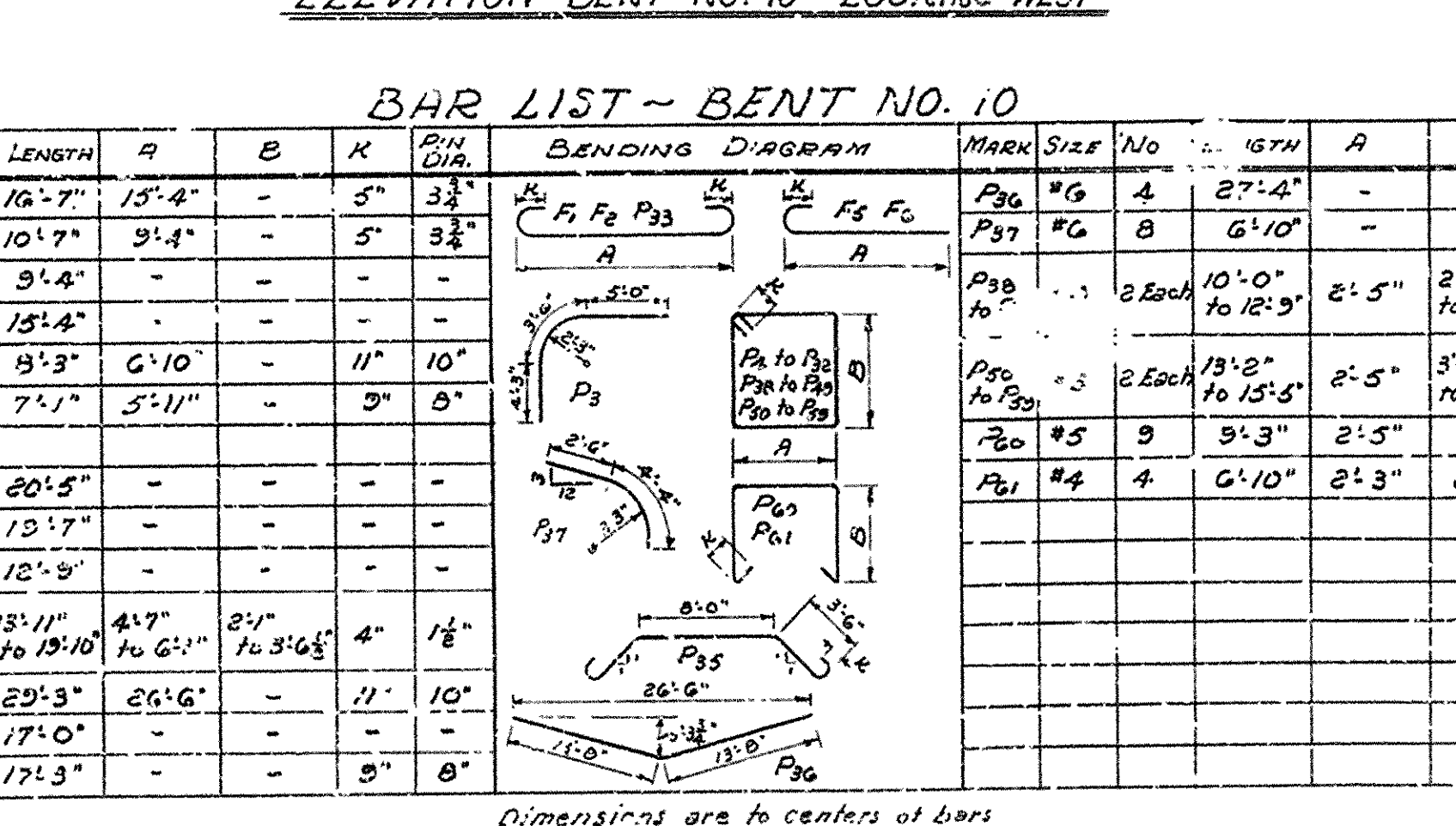
MARK	SIZE	IN	LENGTH	A	B	K	PIN DIA.
F1	#5	10	10'-0"	9'-4"	-	6"	4 1/2"
F2	#5	38	7'-11"	5'-10"	-	5"	3 3/4"
F3	#5	4	9'-4"	-	-	-	-
F4	#5	10	5'-10"	-	-	-	-
F5	#5	16	6'-3"	5'-0"	-	10"	9"
F6	#8	4	17'-4"	-	-	-	-
F7	#4	9	6'-11"	1'-8"	1'-6"	4"	1 1/2"
P1	#5	16	10'-0"	-	-	-	-
P2	#8	8	10'-0"	-	-	-	-
P3	#4	2	20'-0"	8'-0"	8'-0"	4"	1 1/2"
P4	#7	2	20'-0"	19'-0"	-	7	5 1/2"
P5	#7	2	20'-0"	-	-	-	5 1/2"
P6	#8	2	20'-0"	20'-0"	-	9"	5"



PLAN OF CAP

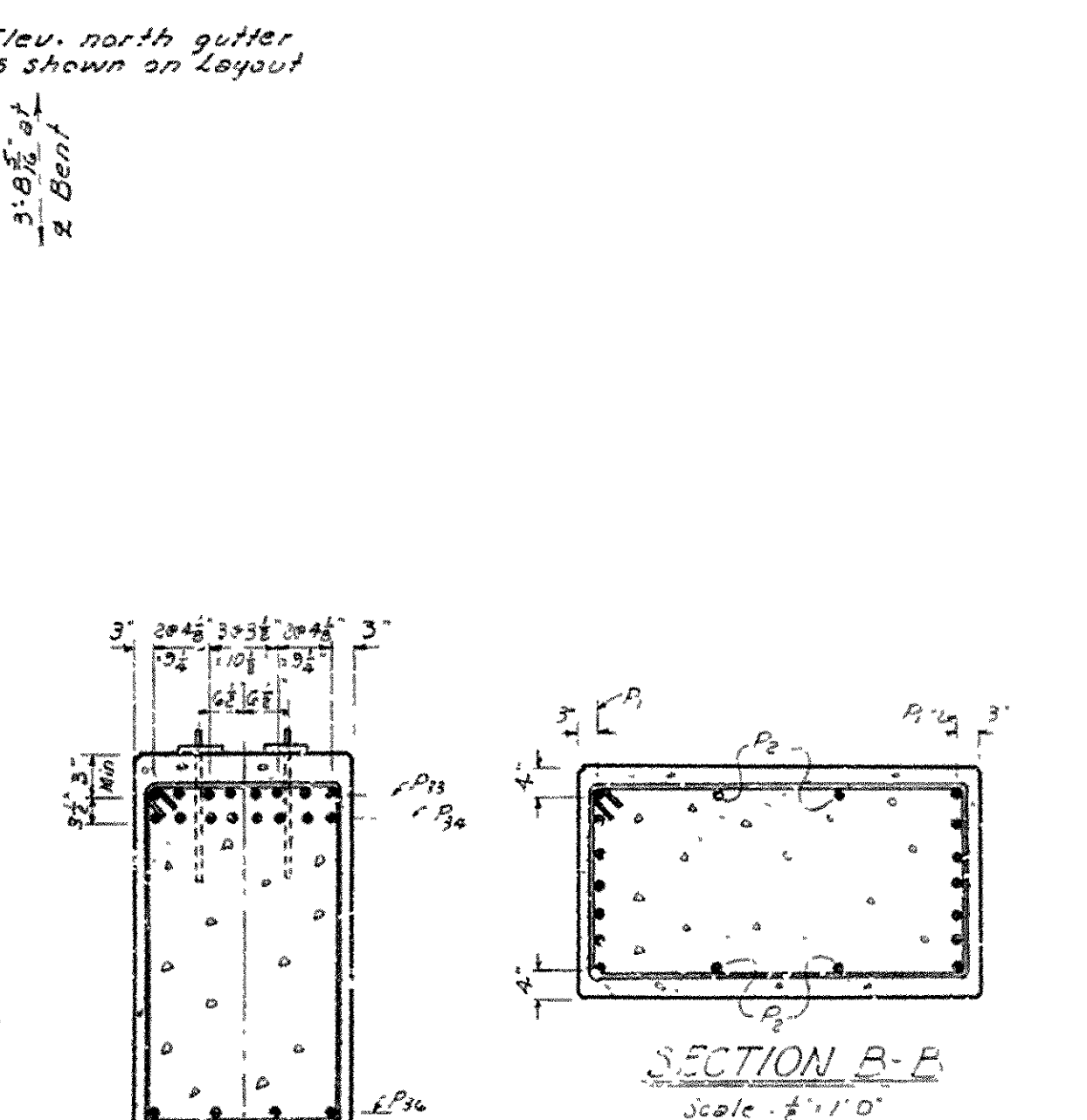


ELEVATION BENT NO. 10 - LOOKING WEST



BAR LIST - BENT NO. 10

MARK	SIZE	No.	LENGTH	A	B	K	PIN DIA.
F1	#5	10	10'-0"	9'-4"	-	6"	4 1/2"
F2	#5	31	10'-7"	9'-4"	-	5"	3 3/4"
F3	#5	7	9'-4"	-	-	-	-
F4	#5	5	15'-4"	-	-	-	-
F5	#10	12	8'-3"	6'-10"	-	11"	10"
F6	#8	4	7'-11"	5'-11"	-	9"	8"
P1	#10	24	20'-5"	-	-	-	-
P2	#8	8	10'-7"	-	-	-	-
P3	#10	12	12'-9"	-	-	-	-
P4	#4	1	15'-11"	10'-10"	4'-7"	4"	1 1/2"
P5	#10	8	20'-3"	20'-6"	-	11"	10"
P6	#9	2	17'-0"	-	-	-	-
P7	#8	4	17'-3"	-	-	9"	8"

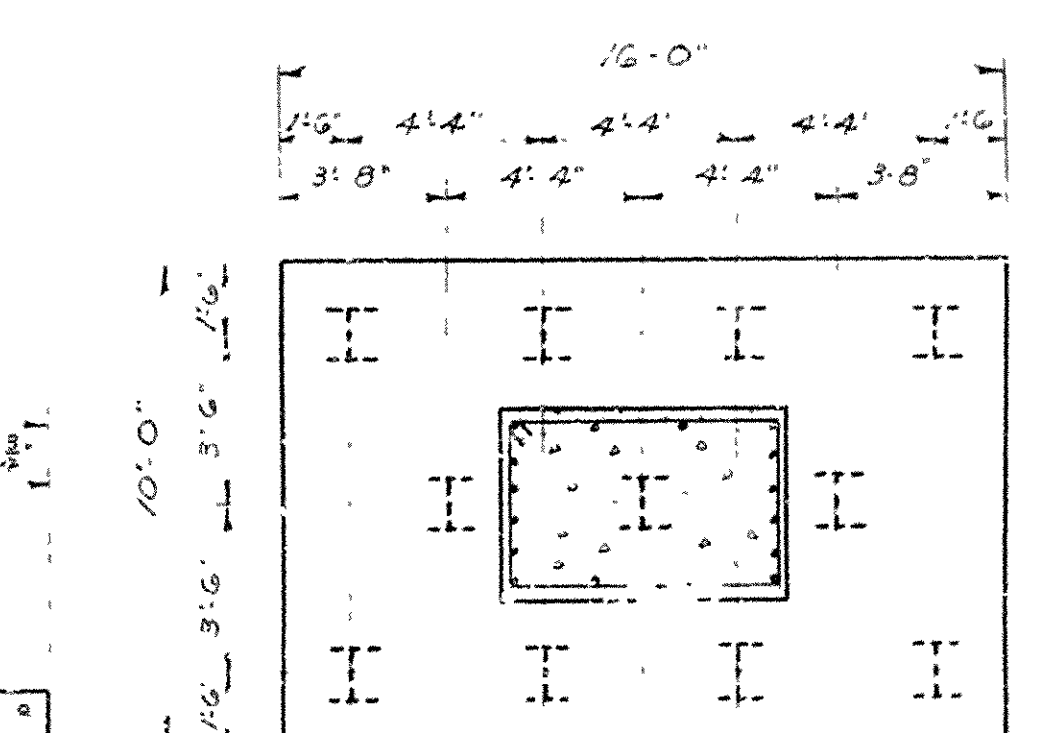


SECTION A-A

SECTION B-B

Scale 1/2" = 1'-0"

Scale 1/2" = 1'-0"



FOOTING PLAN

NOTES

Concrete in columns and columns of Bent 9 to be Class A. Concrete in cap of Bent 9 and in column and cap of Bent 10 to be Class S. Piling to be 12 BP 53, driven to a minimum capacity of 40 tons per pile and minimum penetration of 20 ft. For remaining notes see layout and Dwg. 11106. For I-Beam Span details see Dwg. 11111.

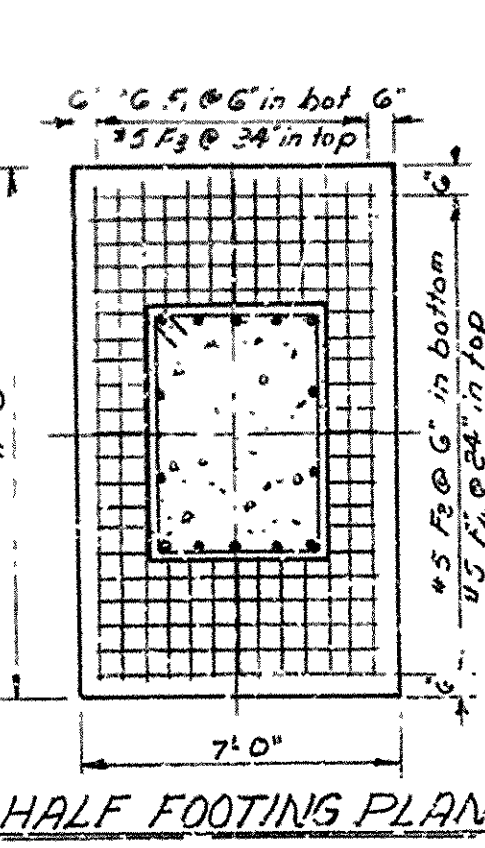
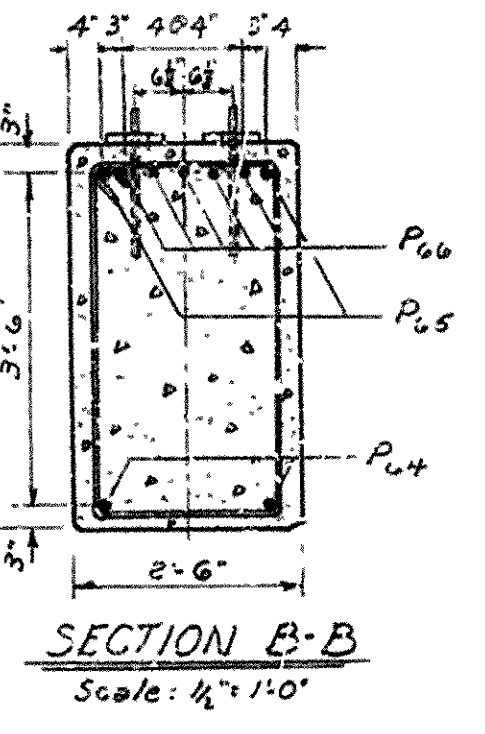
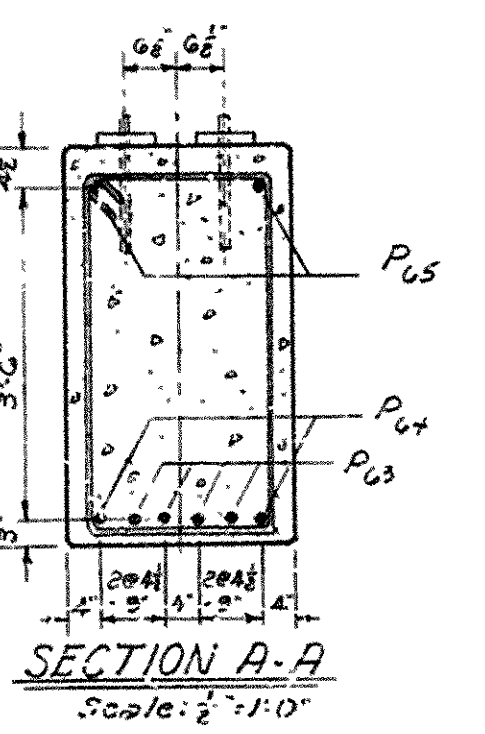
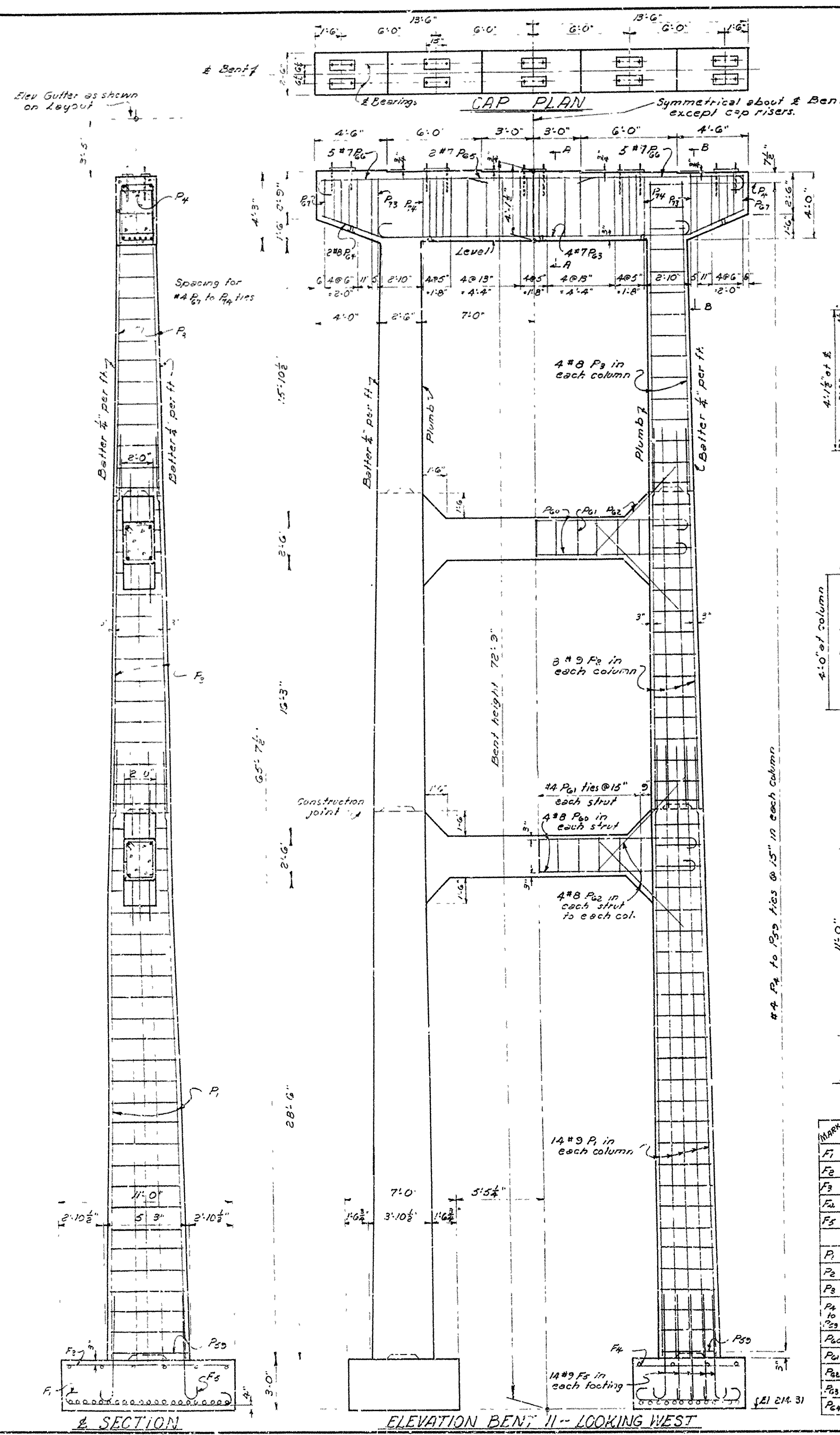
DETAILS OF BENTS NO. 9 & 10  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD. - LITTLE ROCK WEST CITY LIMITS  
PULASKI COUNTY  
ROUTE 10 SEC. 8  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

BRIDGE NO. 1538A  
DRAWING NO. 11105

BRIDGE ENGINEER

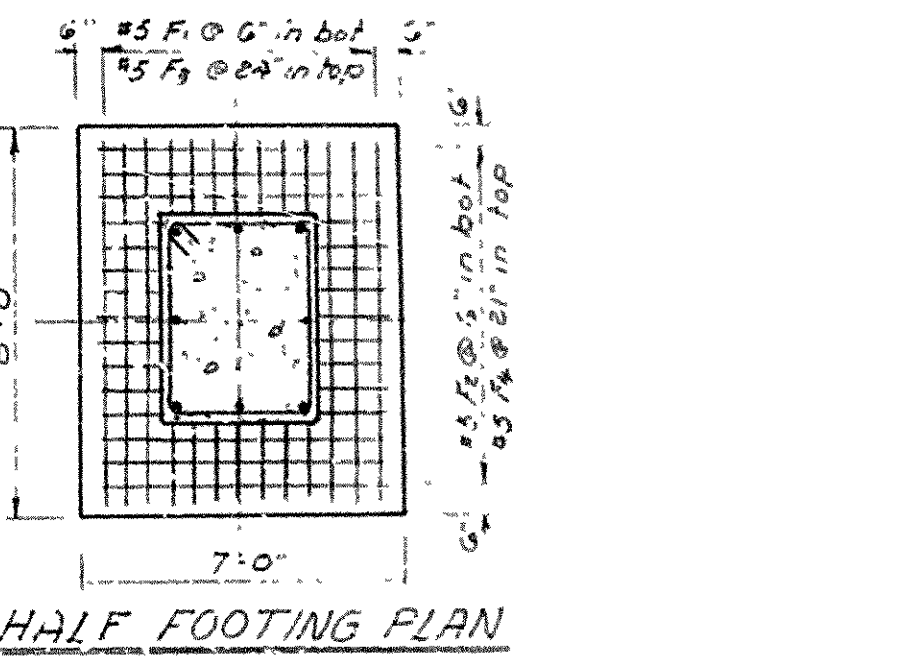
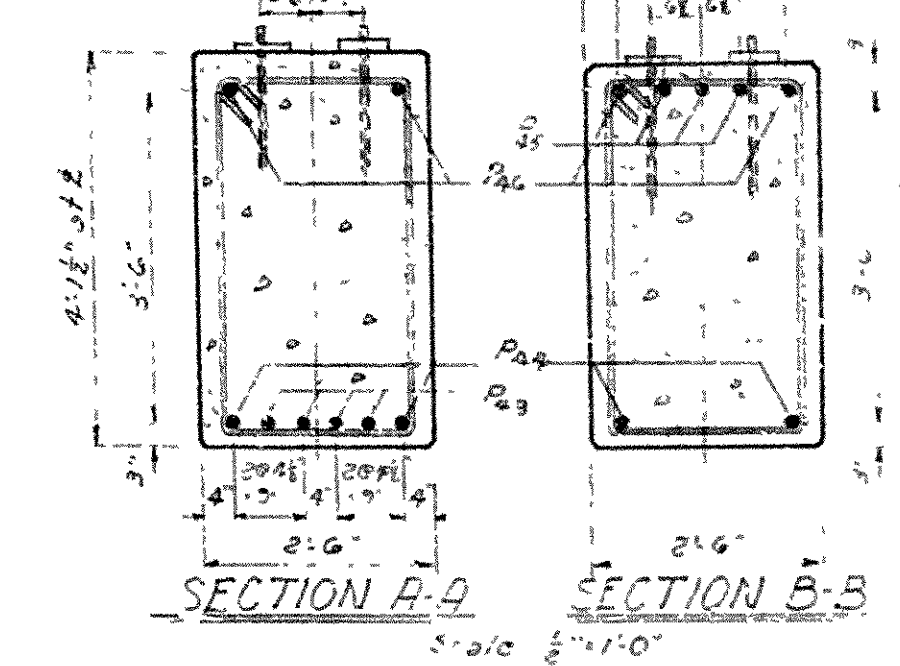
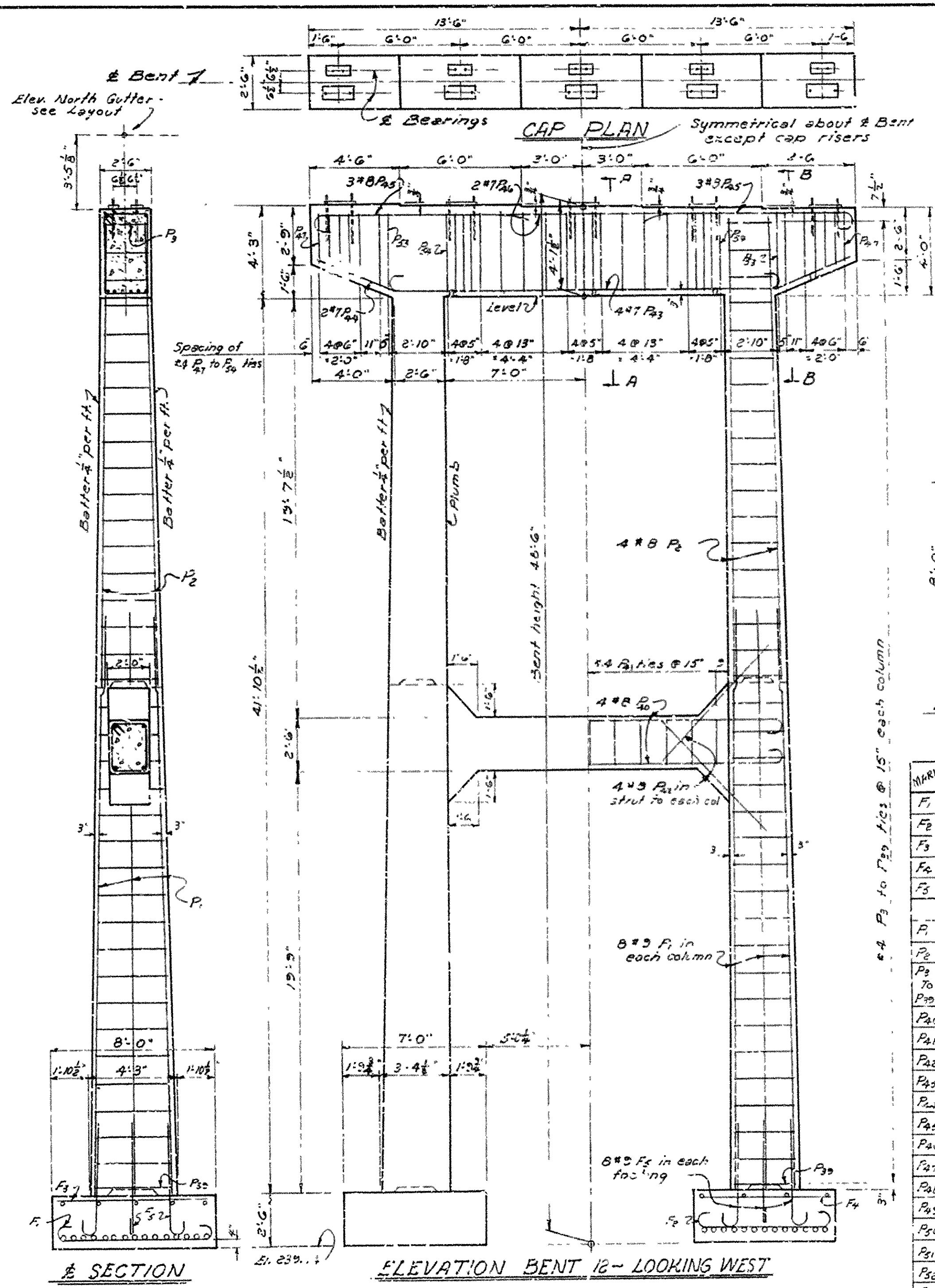


FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	US 372(19)		11	26
JOB No.	G 678				



BAR LISTS - BENT NO. 11

MARK	SIZE	NO.	LENGTH	A	B	K	PN DIA.
F1	#6	20	11'-9"	2'-4"	-	6"	1 1/2"
F2	#5	42	7'-7"	6'-4"	-	5"	3 3/8"
F3	#5	8	10'-4"	-	-	-	-
F4	#5	12	6'-4"	-	-	-	-
F5	#5	23	7'-6"	6'-3"	-	10"	9"
P1	#9	20	36'-3"	-	-	-	-
P2	#7	12	28'-5"	-	-	-	-
P3	#8	6	18'-0"	-	-	-	-
P4	#10	2	8'-9"	2'-1"	2'-0"	4"	1 1/2"
P5	#10	2	17'-5"	3'-6"	4'-11"	-	-
P6	#8	20	20'-9"	18'-6"	-	9"	8"
P7	#8	22	9'-5"	-	-	4"	1 1/2"
P8	#8	16	7'-5"	-	-	-	-
P9	#7	4	20'-0"	19'-0"	-	7"	5 3/8"
P10	#8	2	26'-11"	-	-	8"	-



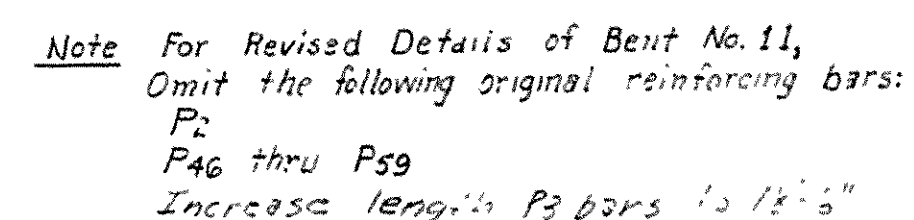
BAR LISTS - BENT NO. 12

MARK	SIZE	NO.	LENGTH	A	B	K	PN DIA.
F1	#5	20	8'-7"	7'-4"	-	5"	3 3/8"
F2	#5	30	7'-7"	6'-4"	-	5"	3 3/8"
F3	#5	8	7'-5"	-	-	-	-
F4	#5	10	6'-4"	-	-	-	-
F5	#5	16	7'-0"	5'-5"	-	10"	9"
P1	#9	16	27'-6"	-	-	-	-
P2	#8	3	21'-2"	-	-	-	-
P3	#8	2	8'-9"	2'-1"	2'-0"	4"	1 1/2"
P4	#8	2	14'-5"	3'-0"	3'-9"	-	-
P5	#8	4	20'-5"	19'-6"	-	7"	5 3/8"
P6	#4	11	8'-3"	-	-	-	-
P7	#8	8	7'-5"	-	-	-	-
P8	#7	4	20'-8"	19'-0"	-	7"	5 3/8"
P9	#7	2	26'-11"	-	-	8"	-
P10	#3	6	11'-3"	10'-6"	-	4"	1 1/2"
P11	#7	2	28'-2"	26'-6"	-	7"	5 3/8"
P12	#4	2	9'-3"	2'-4"	-	4"	1 1/2"
P13	#8	2	9'-8"	2'-0"	-	-	-
P14	#8	2	10'-1"	2'-5"	-	-	-
P15	#8	2	10'-5"	2'-11"	-	-	-
P16	#8	2	11'-6"	3'-5"	-	-	-
P17	#8	2	11'-5"	3'-7"	-	-	-
P18	#8	2	11'-11"	3'-5"	-	4"	1 1/2"

NOTES  
For General Notes see Dwg. No. 11104.  
For Details of 57'-5" & 67'-6" & 33'-6"  
Comp. I-Beam Spans see Dwg. No. 11111.

DETAILS OF BENTS NO. 11 & 12  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD - LITTLE ROCK WEST CITY LIMITS  
PULASKI COUNTY  
ROUTE 10 SEC. 8  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
BRIDGE NO. 1538A  
DRAWING NO. 11106

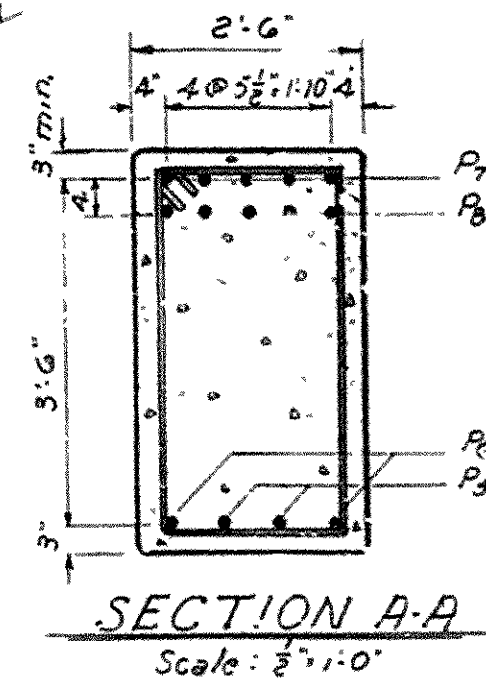
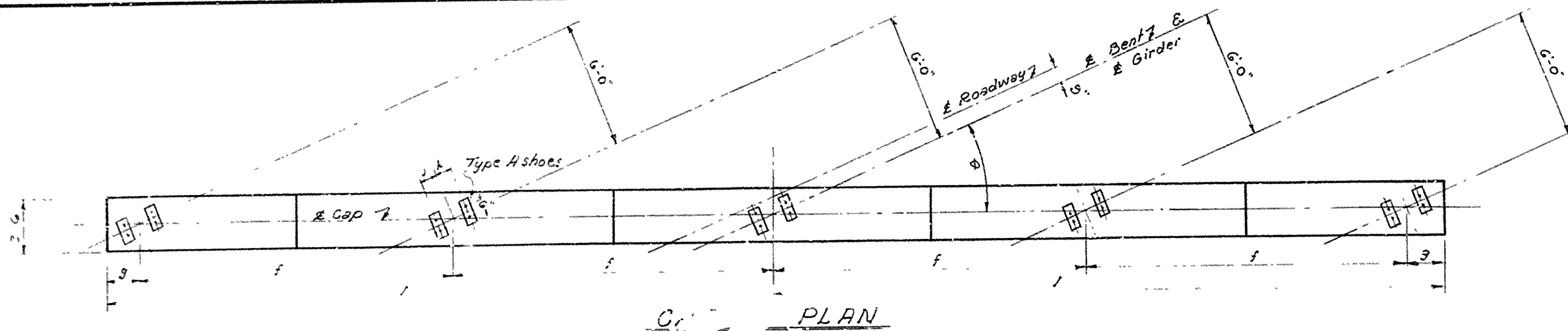




**BRIDGE ENGINEER**

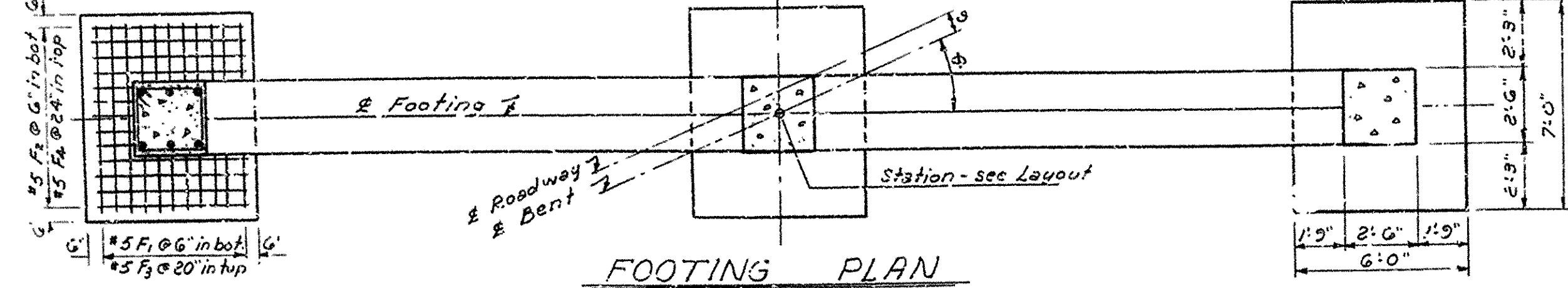
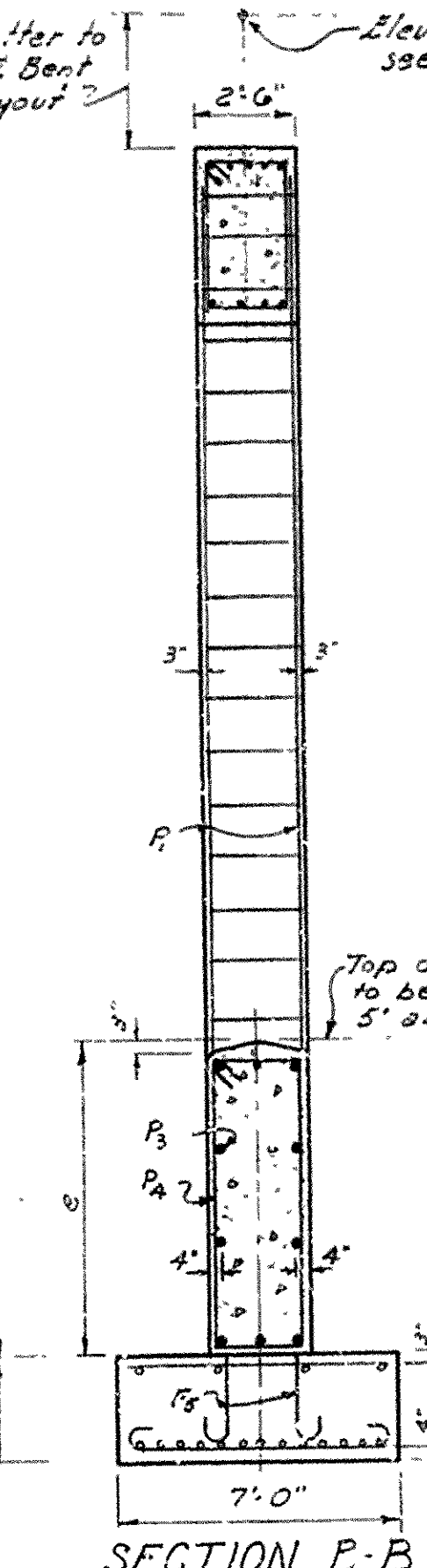
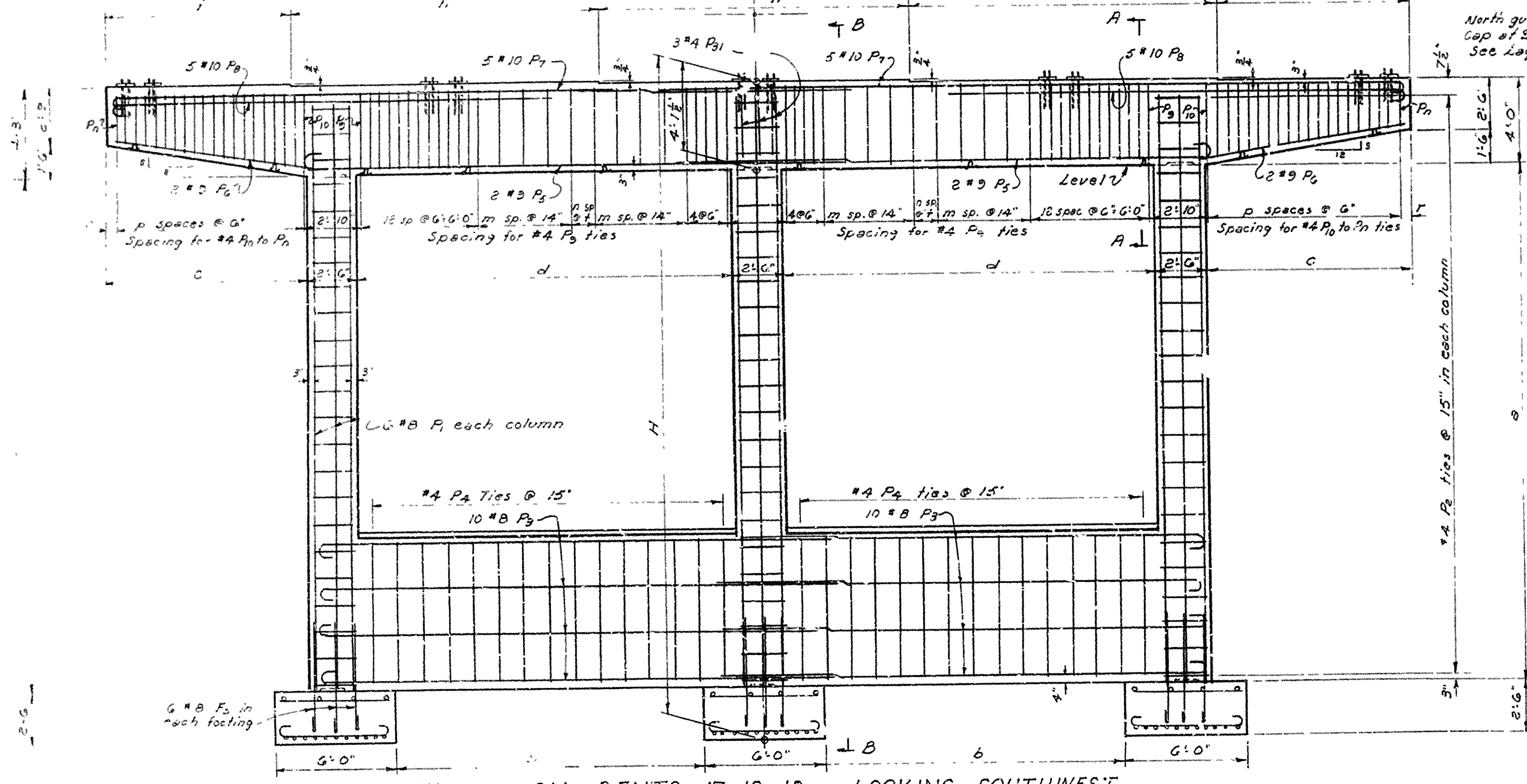


FED. ROAD No.	STA.	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	ARK	056 371 (13)		12	26
JOB No.		0678		50	205



BAR LISTS - BENT NO. 17, 18, 19

MARK	SIZE	NO. PER BENT												LENGTH		A		B		C		D		E		F		G		H		I		J		K		L		M		N		O		P		Q		R		S		T		U		V		W		X		Y		Z		AA		AB		AC		AD		AE		AF		AG		AH		AI		AJ		AK		AL		AM		AN		AO		AP		AQ		AR		AS		AT		AU		AV		AW		AX		AY		AZ		BA		BB		BC		BD		BE		BF		BG		BH		BI		BJ		BK		BL		BM		BN		BO		BP		BQ		BR		BS		BT		BU		BV		BW		BX		BY		BZ		CA		CB		CC		CD		CE		CF		CG		CH		CI		CJ		CK		CL		CM		CN		CO		CP		CQ		CR		CS		CT		CU		CV		CW		CX		CY		CZ		DA		DB		DC		DD		DE		DF		DG		DH		DI		DJ		DK		DL		DM		DN		DO		DP		DQ		DR		DS		DT		DU		DV		DW		DX		DY		DZ		EA		EB		EC		ED		EE		EF		EG		EH		EI		EJ		EK		EL		EM		EN		EO		EP		EQ		ER		ES		ET		EU		EV		EW		EX		EY		EZ		FA		FB		FC		FD		FE		FF		FG		FH		FI		FJ		FK		FL		FM		FN		FO		FP		FQ		FR		FS		FT		FU		FV		FW		FX		FY		FZ		GA		GB		GC		GD		GE		GF		GG		GH		GI		GJ		GK		GL		GM		GN		GO		GP		GQ		GR		GS		GT		GU		GV		GW		GX		GY		GZ		HA		HB		HC		HD		HE		HF		HG		HH		HI		HJ		HK		HL		HM		HN		HO		HP		HQ		HR		HS		HT		HU		HV		HW		HX		HY		HZ		IA		IB		IC		ID		IE		IF		IG		IH		IJ		IK		IL		IM		IN		IO		IP		IQ		IR		IS		IT		IU		IV		IW		IX		IY		IZ		JA		JB		JC		JD		JE		JF		JG		JH		JI		JJ		JK		JL		JM		JN		JO		JP		JQ		JR		JS		JT		JU		JV		JW		JX		JY		JZ		KA		KB		KC		KD		KE		KF		KG		KH		KI		KJ		KK		KL		KM		KN		KO		KP		KQ		KR		KS		KT		KU		KV		KW		KX		KY		KZ		LA		LB		LC		LD		LE		LF		LG		LH		LI		LJ		LK		LM		LN		LO		LP		LQ		LR		LS		LT		LU		LV		LW		LX		LY		LZ		MA		MB		MC		MD		ME		MF		MG		MH		MI		MJ		MK		ML		MN		MO		MP		MQ		MR		MS		MT		MU		MV		MW		MX		MY		MZ		NA		NB		NC		ND		NE		NF		NG		NH		NI		NJ		NK		NL		NM		NN		NO		NP		NQ		NR		NS		NT		NU		NV		NW		NX		NY		NZ		OA		OB		OC		OD		OE		OF		OG		OH		OI		OJ		OK		OL		OM		ON		OO		OP		OQ		OR		OS		OT		OU		OV		OW		OX		OY		OZ		PA		PB		PC		PD		PE		PF		PG		PH		PI		PJ		PK		PL		PM		PN		PO		PP		PQ		PR		PS		PT		PU		PV		PW		PX		PY		PZ		QA		QB		QC		QD		QE		QF		QG		QH		QI		QJ		QK		QL		QM		QN		QO		QP		QQ		QR		QS		QT		QU		QV		QW		QX		QY		QZ		RA		RB		RC		RD		RE		RF		RG		RH		RI		RJ		RK		RL		RM		RN		RO		RP		RQ		RR		RS		RT		RU		RV		RW		RX		RY		RZ		SA		SB		SC		SD		SE		SF		SG		SH		SI		SJ		SK		SL		SM		SN		SO		SP		SQ		SR		SS		ST		SU		SV		SW		SX		SY		SZ		TA		TB		TC		TD		TE		TF		TG		TH		TI		TJ		TK		TL		TM		TN		TO		TP		TQ		TR		TS		TU		TV		TW		TX		TY		TZ		UA		UB		UC		UD		UE		UF		UG		UH		UI		UJ		UK		UL		UM		UN		UO		UP		UQ		UR		US		UT		UU		UV		UW		UX		UY		UZ		VA		VB		VC		VD		VE		VF		VG		VH		VI		VJ		VK		VL		VM		VN		VO		VP		VQ		VR		VS		VT		VU		VV		VW		VX		VY		VZ		WA		WB		WC		WD		WE		WF		WG		WH		WI		WJ		WK		WL		WM		WN		WO		WP		WQ		WR		WS		WT		WU		WV		WW		WX		WY		WZ		XA		XB		XC		XD		XE		XF		XG		XH		XI		XJ		XK		XL		XM		XN		XO		XP		XQ		XR		XS		XT		XU		XV		XW		XX		XY		XZ		YA		YB		YC		YD		YE		YF		YG		YH		YI		YJ		YK		YL		YM		YN		YO		YP		YQ		YR		YS		YT		YU		YV		YW		YX		YZ		ZA		ZB		ZC		ZD		ZE		ZF		ZG		ZH		ZI		ZJ		ZK		ZL		ZM		ZN		ZO		ZP		ZQ		ZR		ZS		ZT		ZU		ZV		ZW		ZX		ZY		ZZ	
		F <sub>1</sub>	#5	35	33	33	7'-7"	7'-7"	7'-7"	6'-4"	6'-4"	6'-4"	5"	3 1/2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							</																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												



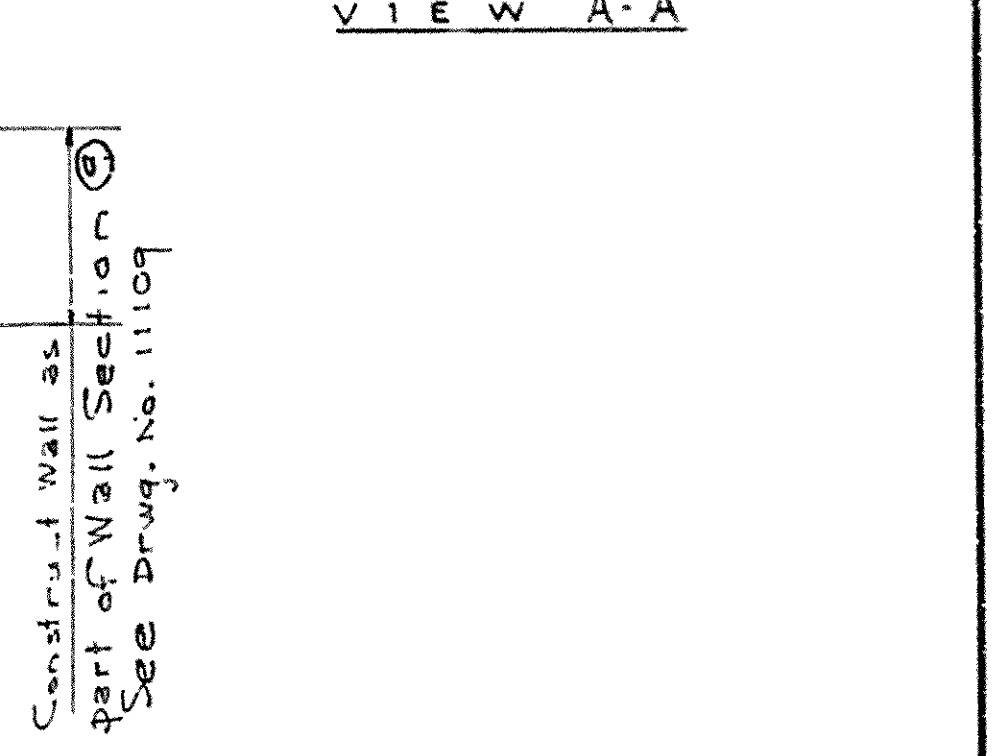
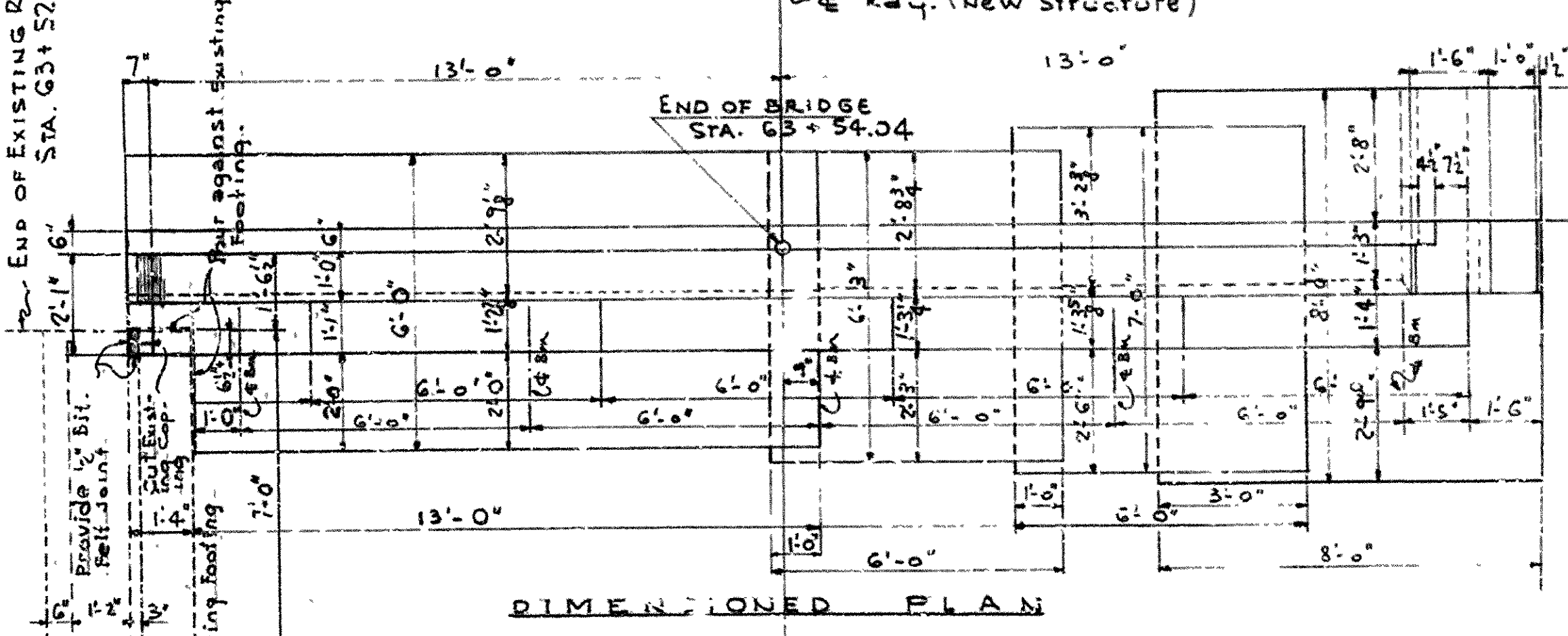
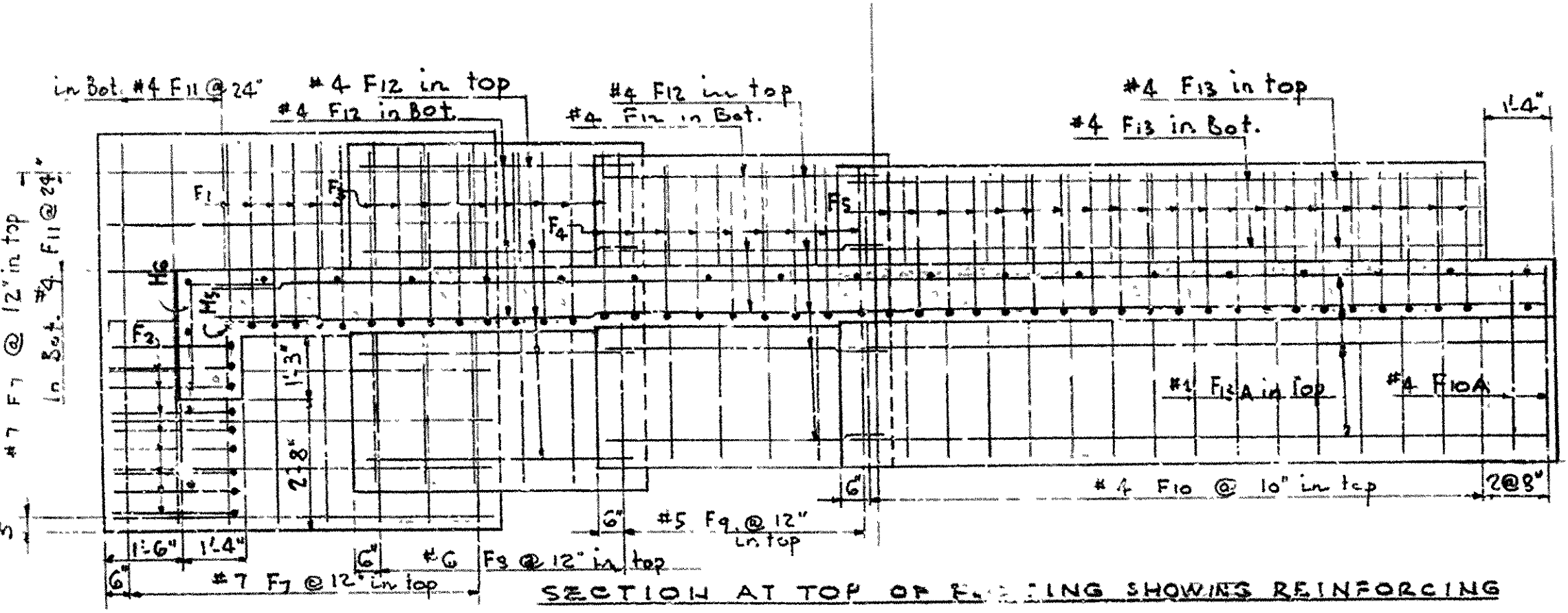
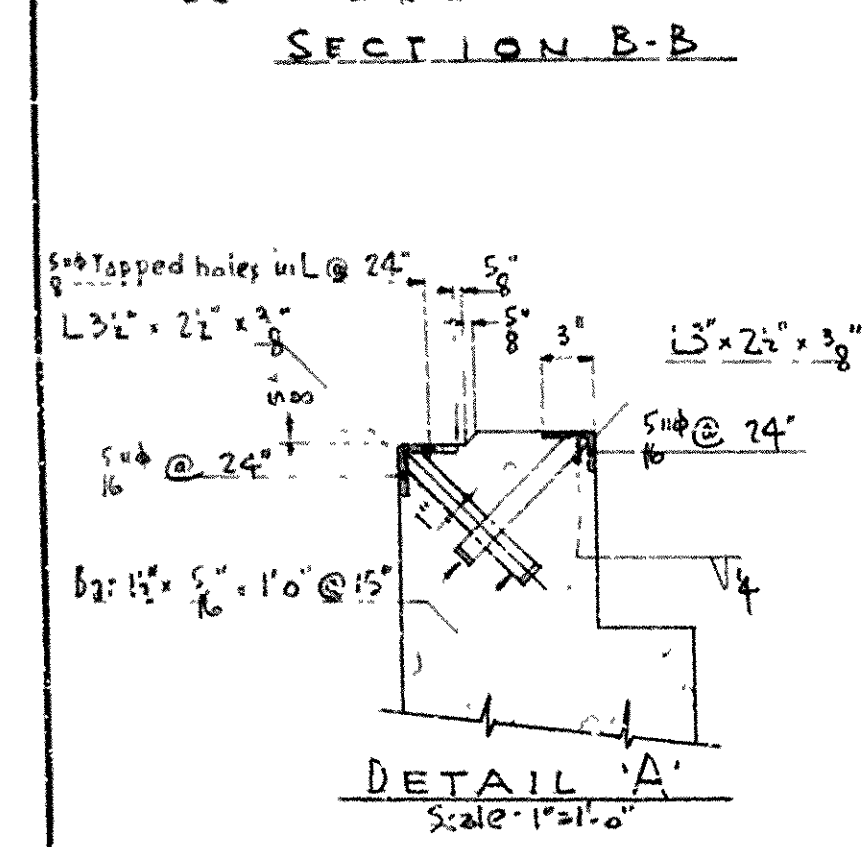
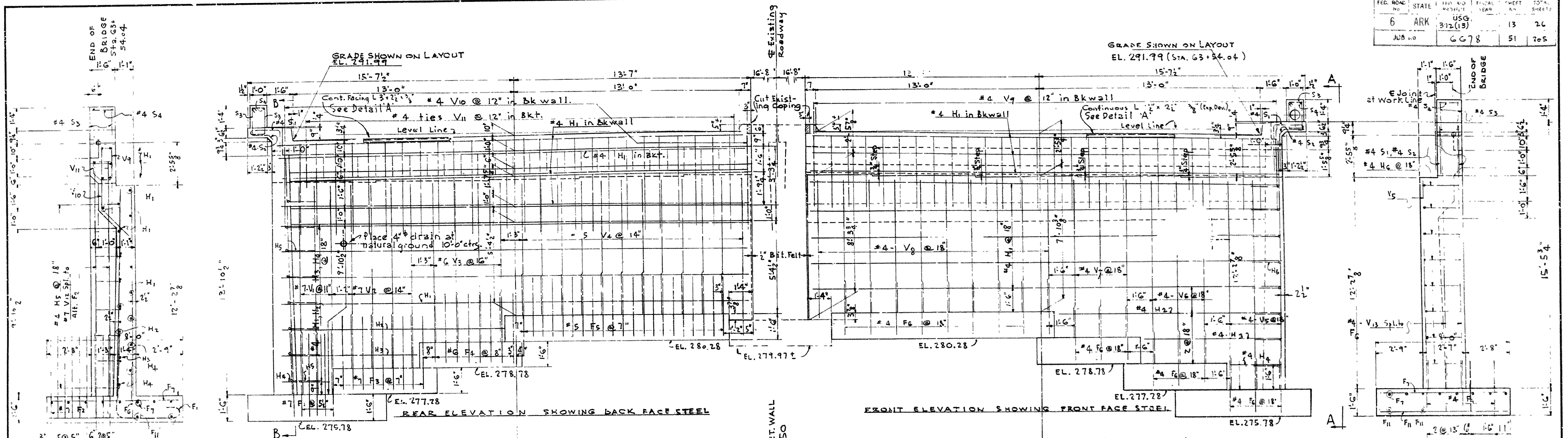
BENT No	H	θ	a	b	c	d	e	f	g	h	i	j	k	l	m	n	p	r	s	t	Foot. Elev.
17	31'-0"	25°07'	24'-12"	13'-5 1/2"	5'-3 3/8"	16'-11 1/2"	8'-0"	14'-1 1/8"	1'-8 3/8"	14'-0"	9'-0"	8 1/2"	8 1/2"	30'-0"	3	1	17	7 1/2"	2"	19 1/4"	257.91
18	31'-0"	22°45'	24'-18"	15'-4"	10'-0"	18'-10"	8'-0"	15'-6 3/8"	1'-8 3/8"	15'-6"	9'-0"	5 1/2"	5 1/2"	32'-5"	4	1	19	6"	1 3/8"	14"	257.91
19	25'-5"	21°07'	23'-18"	15'-10 1/2"	10'-10 1/2"	20'-4 1/2"	7'-0"	16'-7 1/8"	1'-8 3/8"	15'-8"	10'-0"	9 1/2"	9 1/2"	35'-0"	4	2	20	8 1/2"	1 3/8"	16 3/4"	258.90

DETAILS OF BENTS NO. 17, 18, 19  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD - LITTLE ROCK WEST CITY LIMITS  
PULASKI COUNTY  
ROUTE 10 SEC. 8  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: J.E.H. DATE: 7-14-60  
TRACED BY: DATE: 7-21-60  
CHECKED BY: J.E.M. DATE: 7-21-60  
BRIDGE NO. 1538A DRAWING NO. 11107  
SCALE: 1/2" = 1'-0"  
Except as noted

L.P. Carlson  
BRIDGE DESIGN ENGINEER



FEED ROAD	STATE	FEED NO.	FEED YEAR	SHEET	TOTAL SHEETS
6	ARK	312	1960	13	26
JOB NO.		6678	51	205	



LIST OF BENT BARS FOR ABUTMENT NO. 2

MARK	NO. REQD	SIZE	LENGTH	'A'	'B'	'C'	P.D. (PIN DIA.)	DIAGRAM
F <sub>1</sub>	6		9-3	4-10	3-8		5'	
F <sub>2</sub>	9	#7	8-0	4-10	2-5			
F <sub>3</sub>	9		8-8	4-6	3-5			
F <sub>4</sub>	8	#6	7-10	4-1	3-1		4 1/2	
F <sub>5</sub>	21	#5	1-2	3-10 1/2	2-9		3 3/4	
H <sub>5</sub>	8		3-0	1-4	1-8		1 1/2	
H <sub>6</sub>	8		3-9	2-1	1-8			
H <sub>7</sub>	3		3-9	2-0	1-9			
S <sub>1</sub>	2		5-5	3-1	1-10 1/2	4	1 1/2	
S <sub>2</sub>	2	#4	4-6	2-5	1-6	7		
S <sub>3</sub>	2		5-4	9	1-7 1/2	4	1 1/2	
S <sub>4</sub>	1		4-7	8	1-4	4		
V <sub>10</sub>	28		5-9	3-8	2-1 1/2		1 1/2	
V <sub>11</sub>	26	#4	3-9	SEE DIAGRAM			1 1/2	
V <sub>14</sub>	2		4-3	2-6	1-4 1/2		1 1/2	

Dimensions are to centers of bars

LIST OF STRAIGHT BARS FOR ABUTMENT NO. 2

MARK	NO. REQD	SIZE	LENGTH
F6	22	#4	3-0
F7	16	#7	7-8
F8	6	#6	6-8
F9	6	#5	5-11
F10	16		5-8
F10A	2	#4	3-8
F11	4		7-8
F12	16		5-8
F13	4		12-7
F13A	4		13-10
H1	16	#4	27-6
H2	2		13-0
H3	2		8-0
H4	2		3-0

MARK	NO. REQD	SIZE	LENGTH
V1	3		12-2
V2	4	#7	10-8
V3	4	#6	8-3
V4	13	#5	7-9
V5	3		12-2
V6	3		10-8
V7	3	#4	9-3
V8	10		7-9
V9	28		4-0
V12	2	#7	13-6
V13	2	#4	13-6

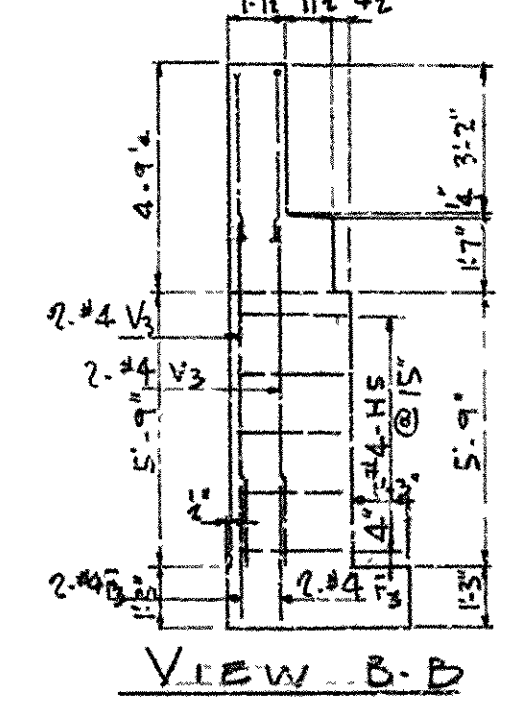
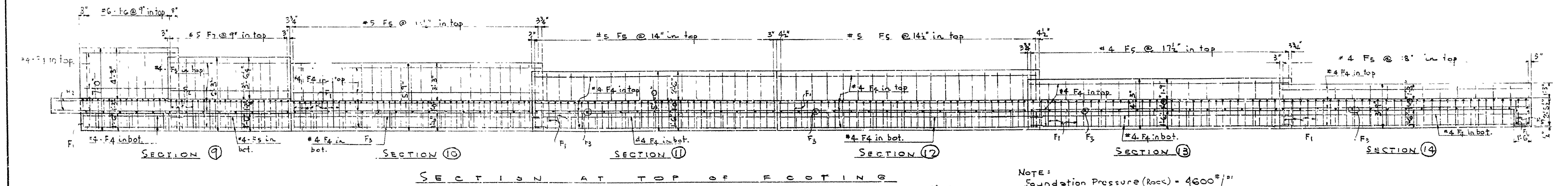
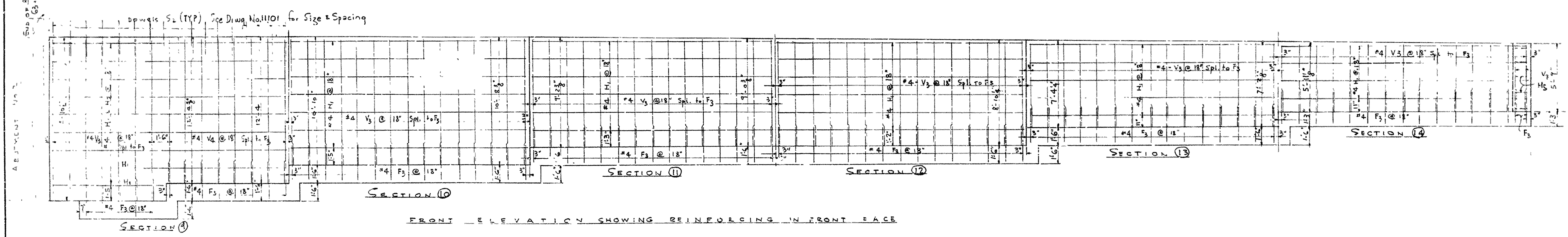
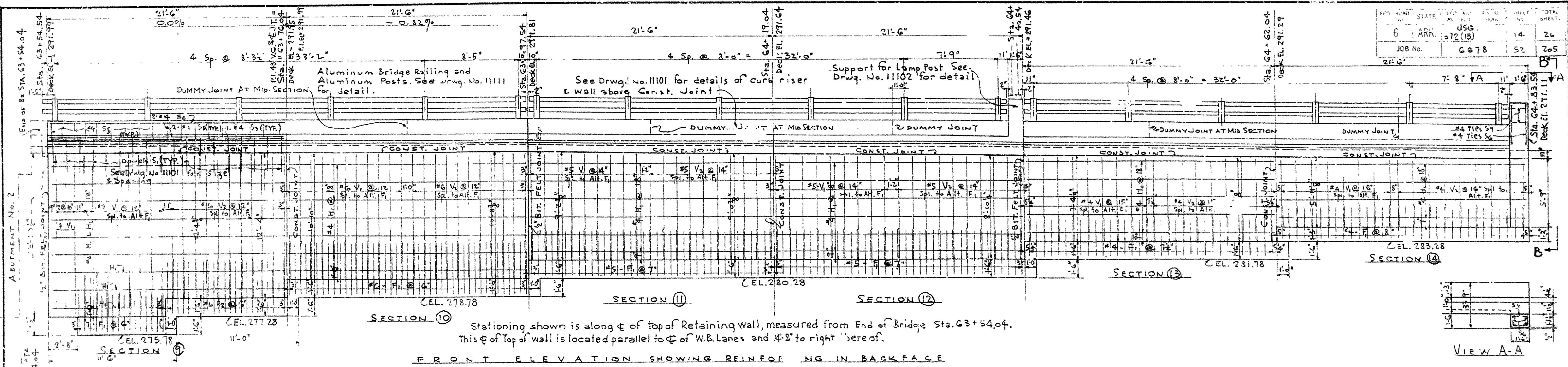
NOTE:  
All concrete to be class 'A'  
Foundation Pressure = 4600#(Rock) Max.

DETAILS OF ABUTMENT NO. 2  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD. LITTLE ROCK WEST CITY LIMITS  
IN LITTLE ROCK, ARK.  
PULASKI COUNTY  
ROUTE 10 SEC. 8  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: GAW DATE: 6-23-60  
TRACED BY: DATE: SCALE: 3/8" = 1'-0"  
CHECKED BY: J.M.H. DATE: 6-24-60  
BRIDGE NO. 1538 A DRAWING NO. 11108

L.P. Carlson  
BRIDGE DESIGN ENGINEER



FFD NO.	STATE	PROJECT	DATE	TOTAL SHEETS
6	ARK.	USG	12/19	26
JOB NO.	6678	52	205	



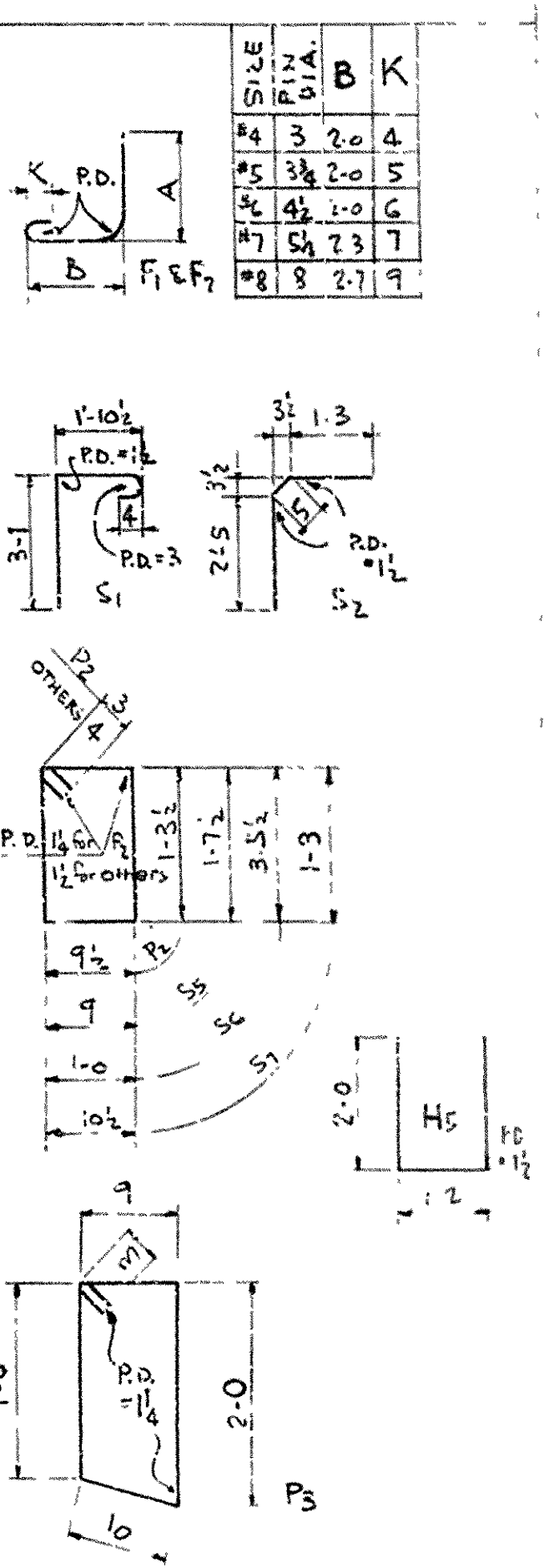
DETAILS OF WALL SECTION 9, 10, 11, 12, 13, 14  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD. LITTLE ROCK WEST CITY LIMITS  
IN LITTLE ROCK, ARK.  
PULASKI COUNTY  
ROUTE 10 SEC. 8  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: EAW DATE: 7-7-60  
TRACED BY: DATE: 3 AUG 60  
CHECKED BY: EAW DATE: 3 AUG 60  
SCALE: 1/4" = 1'-0"  
BRIDGE NO. 1538 A DRAWING NO. 11109



COMPLETE LIST OF REINFORCING STEEL FOR WALL SECTIONS ① TO ⑭ INCL.

MARK	SECTION ①		SECTION ②		SECTION ③		SECTION ④		SECTION ⑤		SECTION ⑥		SECTION ⑦		SECTION ⑧		SECTION ⑨		SECTION ⑩		SECTION ⑪		SECTION ⑫		SECTION ⑬		SECTION ⑭	
	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE	NUMBER REQ'D	SIZE
F1	20	3-1	19	3-10	19	5	19	5	19	5	19	5	19	5	19	5	19	5	19	5	19	5	19	5	19	5	19	5
F2	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10
F3	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10
F4	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10
F5	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10
F6	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10
F7	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10	22	3-10
V1	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4
V2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
V3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
V4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
V5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
V6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
V7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
V8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
V9	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
V10	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
V11	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
V12	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
H1	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4
H2	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4
H3	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4
H4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4
H5	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4
S1	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4
S2	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4
S3	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4
S4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4
S5	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4
S6	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4
S7	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4	10	4
P1	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4
P2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
P3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

DIAGRAM



Note: Dimensions are to centers of bars  
See Detail for miscellaneous metal.

BAR LIST 8 FOR RETAINING WALL  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD. LITTLE ROCK WEST CITY LIMITS  
IN LITTLE ROCK, ARK.  
PULASKI COUNTY  
ROUTE 10 SEC. 8  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: EAW DATE: 7-8-60  
CHECKED BY: EAW DATE: 3-8-60  
BRIDGE NO. 1538 A DRAWING NO. 11110



FED. ROAD No.	STATE	FED. AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	372(13)	6-1-8	54	265
JOB No.					

GENERAL NOTES

All concrete to be Class C. All exposed surfaces to be painted with a high strength paint unless otherwise noted.

Field connections to be riveted or bolted with high strength bolts.

Reinforcing steel to be furnished in accordance with the American Institute of Steel Construction, Inc. Specification for Structural Steel Buildings, 1959 Edition, unless otherwise noted.

Shop drawings for welded connections to be in accordance with the American Welding Society Standard Specification for Welded Highway and Railway Bridges, 5th Edition, 1956.

Shop drawings: All structural steel, except plates, to be furnished in accordance with the American Institute of Steel Construction, Inc. Specification for Structural Steel Buildings, 1959 Edition, unless otherwise noted.

Field connections: First coat of lead paint to be applied to all steel surfaces in contact with concrete and to be reapplied after construction is completed.

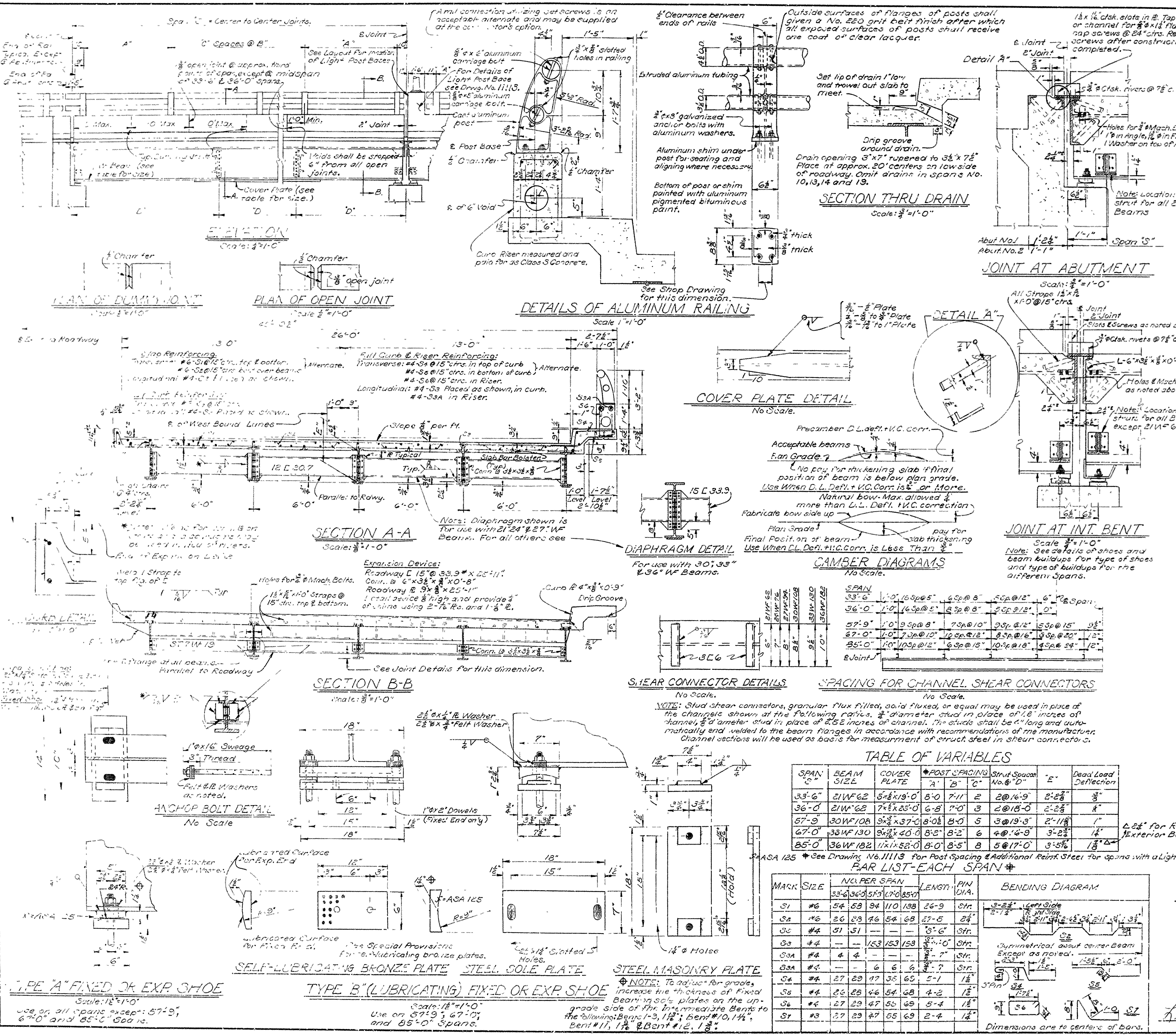
Aluminum bearing plates and roadway expansion devices to be furnished and paid for by the contractor. The bearing plates shall be furnished in accordance with the American Institute of Steel Construction, Inc. Specification for Structural Steel Buildings, 1959 Edition, unless otherwise noted.

The drawings show the general layout of the bridge and the location of the various components. The contractor shall be responsible for the final design and construction of the bridge.

SPACING FOR CHANNEL SHEAR CONNECTORS

TABLE OF VARIABLES

DETAILS OF BEAM BUILDUPS



GENERAL DETAILS OF I-BEAM SPANS

LINCOLN AVENUE VIADUCT WIDENING

LA HARPE BLVD.-LITTLE ROCK WEST CITY LIMITS

PULASKI COUNTY

ROUTE 10 SEC. 8

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: [Signature] DATE: 5-12-60

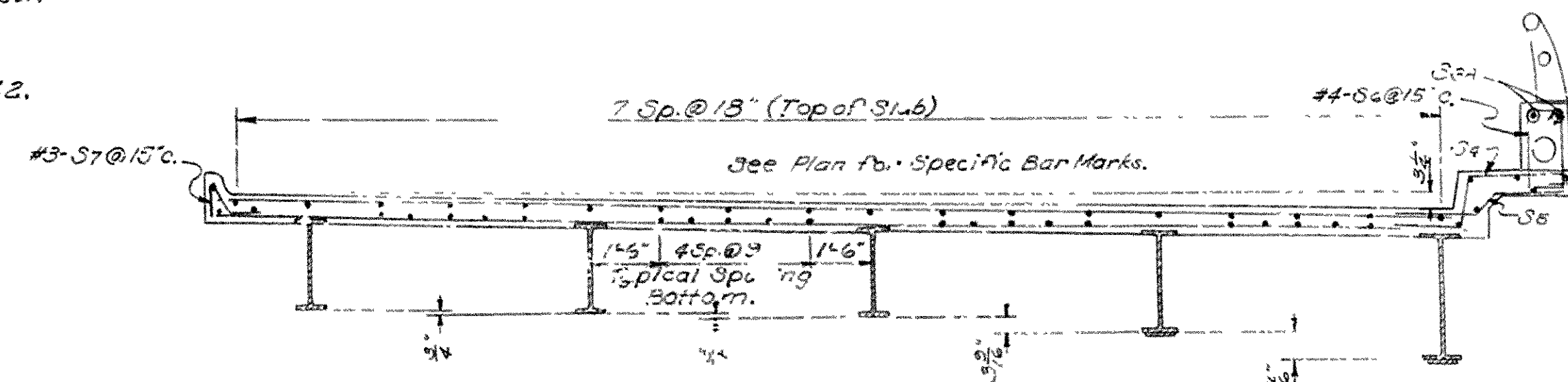
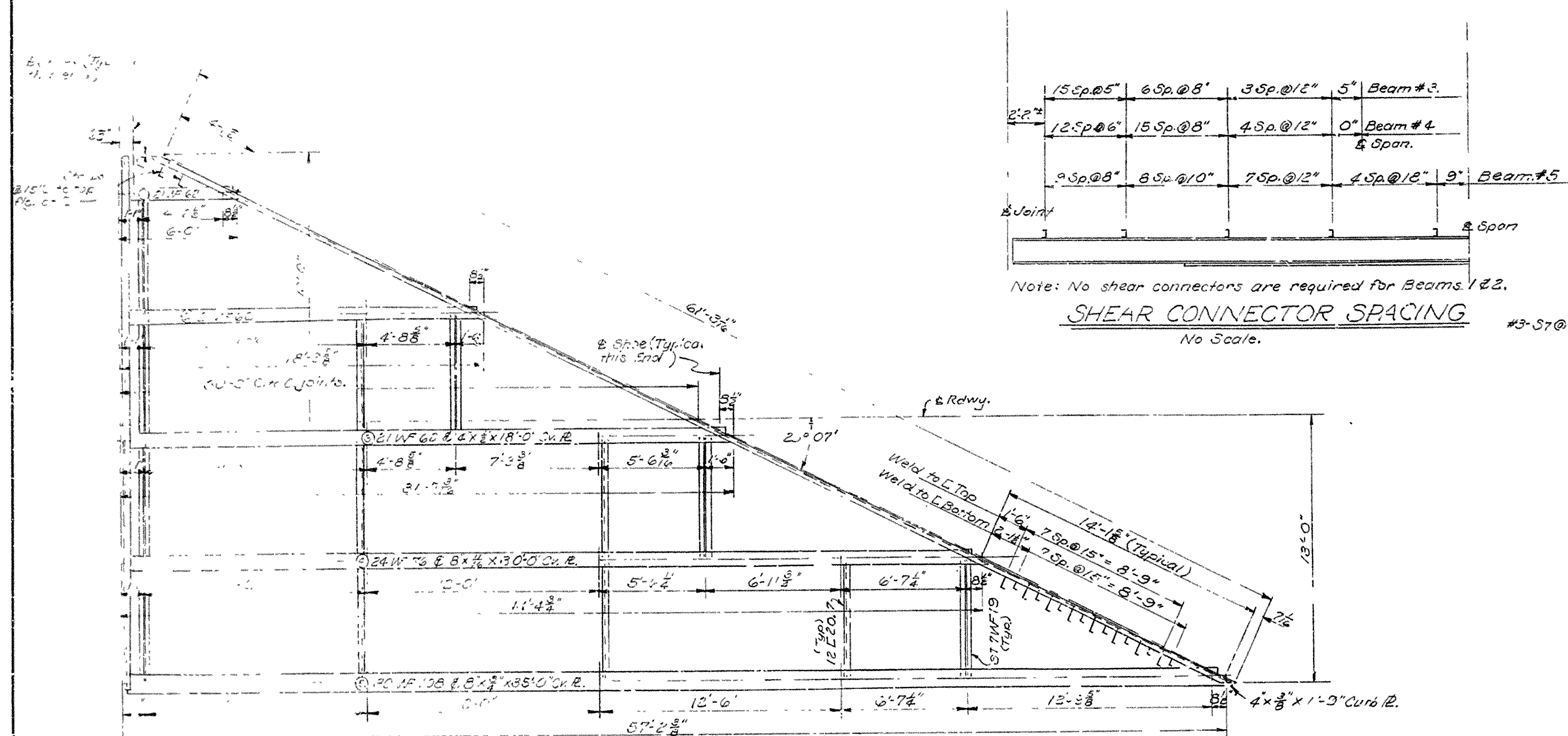
TRACED BY: JEM DATE: 6-6-60

BRIDGE NO. 1538-A

DRAWING NO. 1111

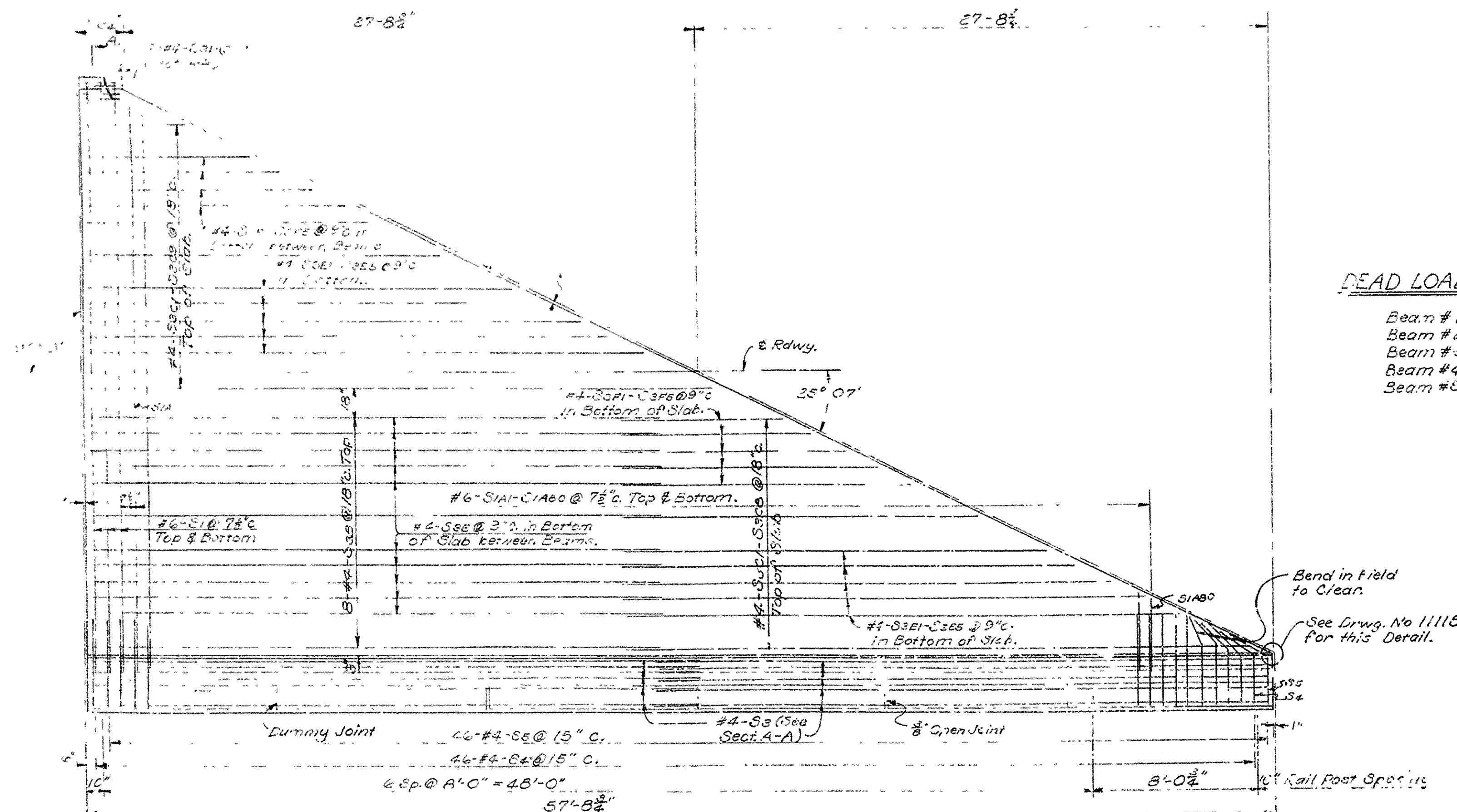


FED ROAD No.	STATE	FED AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	USG- 372 (13)		17	26
JOB No.		6678		55	205



BAR LIST

MARK	SIZE	NUMBER	LENGTH	FIN DIA.	BENDING DIAGRAM
S1	#6	6	26'-3"	Str.	
S1A1-S1A30	#6	2 Each	Varies 26'-8" to 3'-0"	Str.	
No S2 Bars are required for this span.					
S3	#4	12	29'-6"	Str.	
S3A	#4	6	19'-8"	Str.	See Drawing No. 11111. for bending diagram.
S3B	#4	18	27'-6"	Str.	
S3C1-S3C3	#4	2 Each	Varies 30'-6" to 8'-4"	Str.	
S3C3	#4	1	5'-2"	Str.	
S3D	#4	4	1'-9"	Str.	
S3E1-S3E5	#4	2 Each	Varies 27'-4" to 21'-0"	Str.	
S3F1-S3F3	#4	2 Each	Varies 4'-8" to 8'-4"	Str.	
S4	#4	46	5'-1"	18"	
S5	#4	46	4'-2"	18"	
S6	#4	46	5'-4"	18"	
S7	#3	2	2'-4"	16"	
					Dimensions are to centers of Bars.



DEAD LOAD DEFLECTIONS.

Beam #1.-----	0
Beam #2.-----	0
Beam #3.-----	$\frac{1}{4}$ "
Beam #4.-----	$\frac{1}{2}$ "
Beam #5.-----	1"

NOTES

For Details of skewed ends of beams see Drwg. No. 1111.  
For additional details and General Notes see  
Drawing No. 1111.  
Type "A" Shoes - for details, see Drwg. No. 1111.

SUPPLEMENTAL DETAILS OF 30'-0" SPAN  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD.-LITTLE ROCK WEST CITY LIMITS

PULASKI COUNTY

ROUTE 10      SEC. 8

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: JP DATE: 5-27-60

TRACED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHECKED BY: D.V. DATE: 7.28.60

SCALE: As Shown

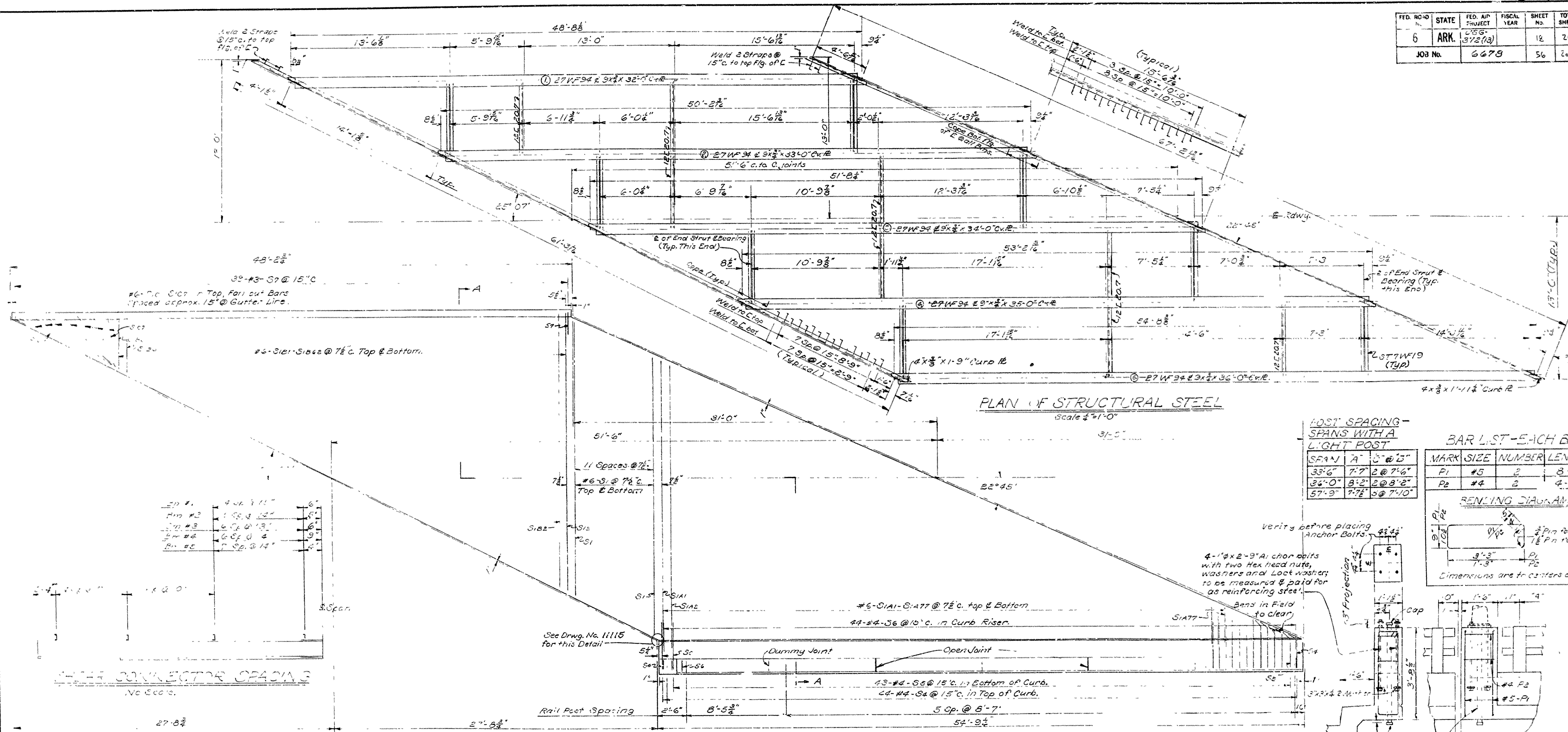
BRIDGE NO. 1538-A

DRAWING NO. 11112.

L. P. Carlson  
BRIDGE ENGINEER



FED. ROAD DIST.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	372 (B)		18	26
JOB NO.		6679	56	205	



NOTES

For details of ends of Beams see Drawing No. 11114.  
For additional details and General Notes see Drawing No. 11111.  
Shoes-Type "A", see Drawing No. 11111.

Dead Load Deflection:  
Beams #1, 2, 3 & 4 = 3/4"  
Beam #5 = 1"

See Drawing No. 11111 for Bending Diagram.  
See Details for miscellaneous metal

Dimensions are to centers of Bars.

SUPPLEMENTAL DETAILS OF 51'-0" SPAN  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD-LITTLE ROCK WEST CITY LIMITS  
PULASKI COUNTY

ROUTE 10 SEC. 8  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

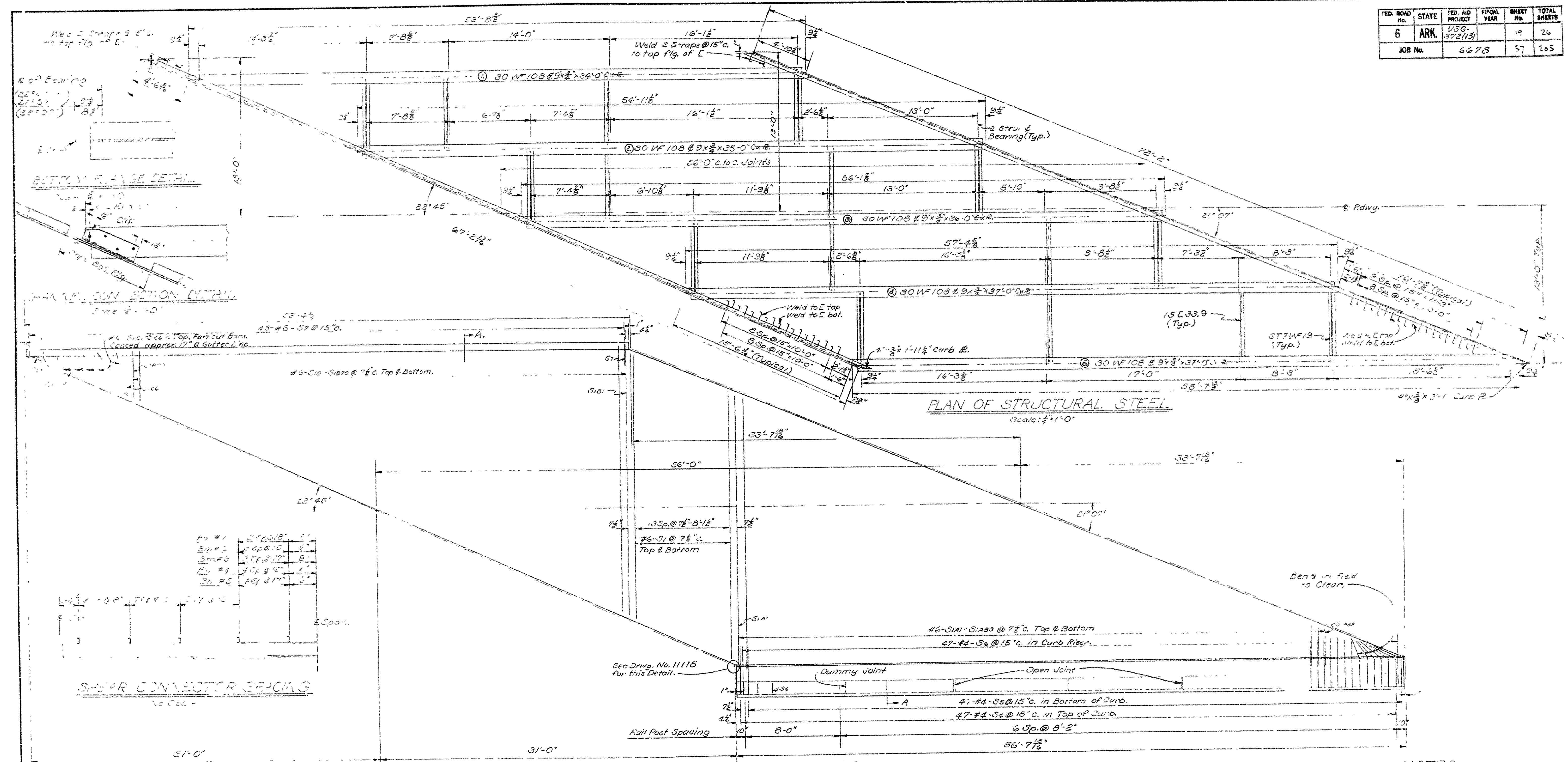
DRAWN BY: VP DATE: 5-18-60  
TRACED BY: J.E.M. DATE: 6-9-60  
CHECKED BY: J.E.M. DATE: 6-9-60  
SCALE: As Shown

BRIDGE NO. 1538-A DRAWING NO. 11113

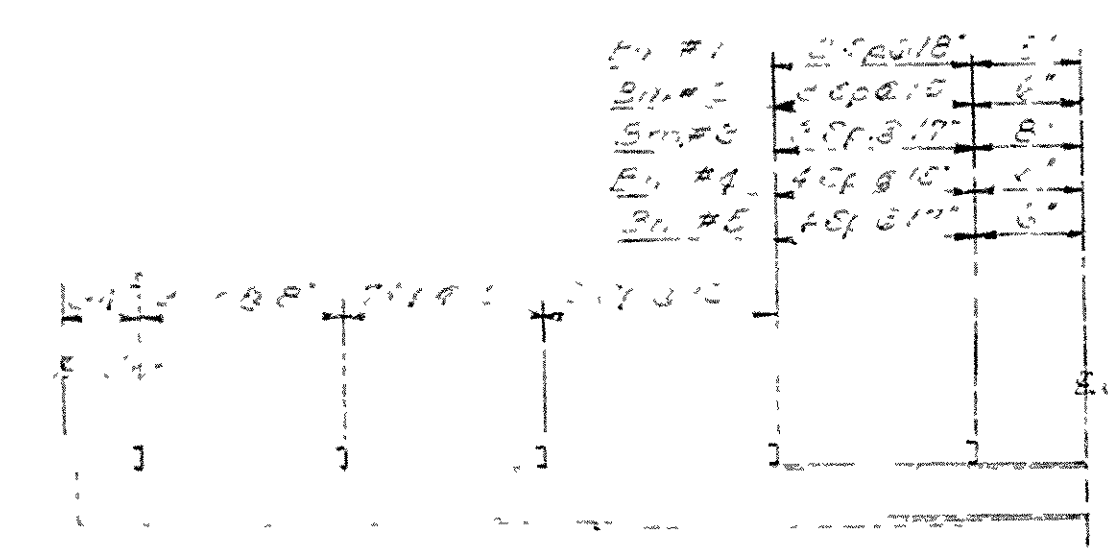
L.P. Carlson  
BRIDGE ENGINEER



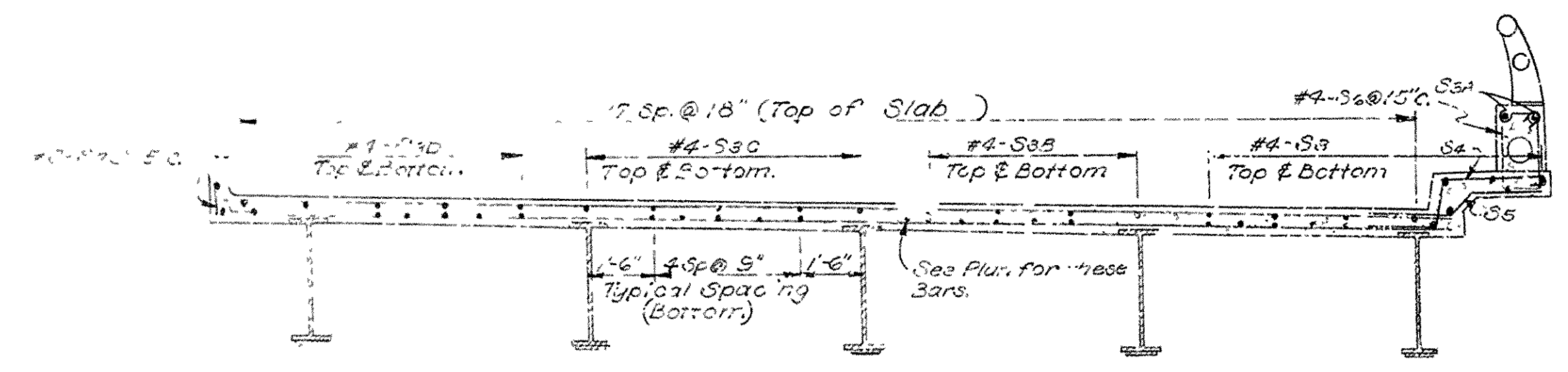
FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	156-372(13)		19	26
JOB No.		6678	57	205	



PLAN OF STRUCTURAL STEEL  
Scale: 1/4" = 1'-0"



SHEAR CONNECTOR SECTION  
Scale: 1/2" = 1'-0"



SECTION A-A  
Scale: 1/2" = 1'-0"  
Note: For Details not shown, see Drawing No. 11111.

BAR LIST					
MARK.	SIZE	NUMBER	LENGTH	PIN DIA.	BENDING DIAGRAM
S1	#6	28	21- 8	Str.	See Drawing No. 11:11 for Bending Diagram.
S1A-S1A3	#6	2 Each	Varies 22-0 to 3-3	Str.	
S1A-S1A70	#6	2 Each	Varies 22-3 to 4-3	Str.	
S1C-S1C6	#6	1 Each	Varies 9-0 to 4-5	Str.	
No S2 bars are required for this Span.					
S2	#4	30	30-0	Str.	See Drawing No. 11:11 for Bending Diagram.
S3A	#4	6	19-0	Str.	
S3B	#4	18	29-4	Str.	
S3C	#4	20	28-8	Str.	
S3L	#4	26	28-0	Str.	
S4	#4	47	5-1	1 1/2"	
S5	#4	47	4-2	1 1/2"	
S6	#4	47	5-4	1 1/2"	
S7	#3	43	2- 4	1 1/2"	
				</	

**NOTES**  
For additional details and General Notes, see Type A' Specs. See Drawing No. 11111.  
Dead Load Deflection:  
Beams #1, 2, 3, 4 = 3/4"  
Beam #5 = 1/4"

**SUPPLEMENTAL DETAILS OF 56'-0" SPAN**  
**LINCOLN AVENUE VIADUCT WIDENING**  
**LA HARPE BLVD. LITTLE ROCK WEST CITY LIMITS**  
**PULASKI COUNTY**  
**ROUTE 10 SEC. 8**  
**ARKANSAS STATE HIGHWAY COMMISSION**  
**LITTLE ROCK, ARK.**

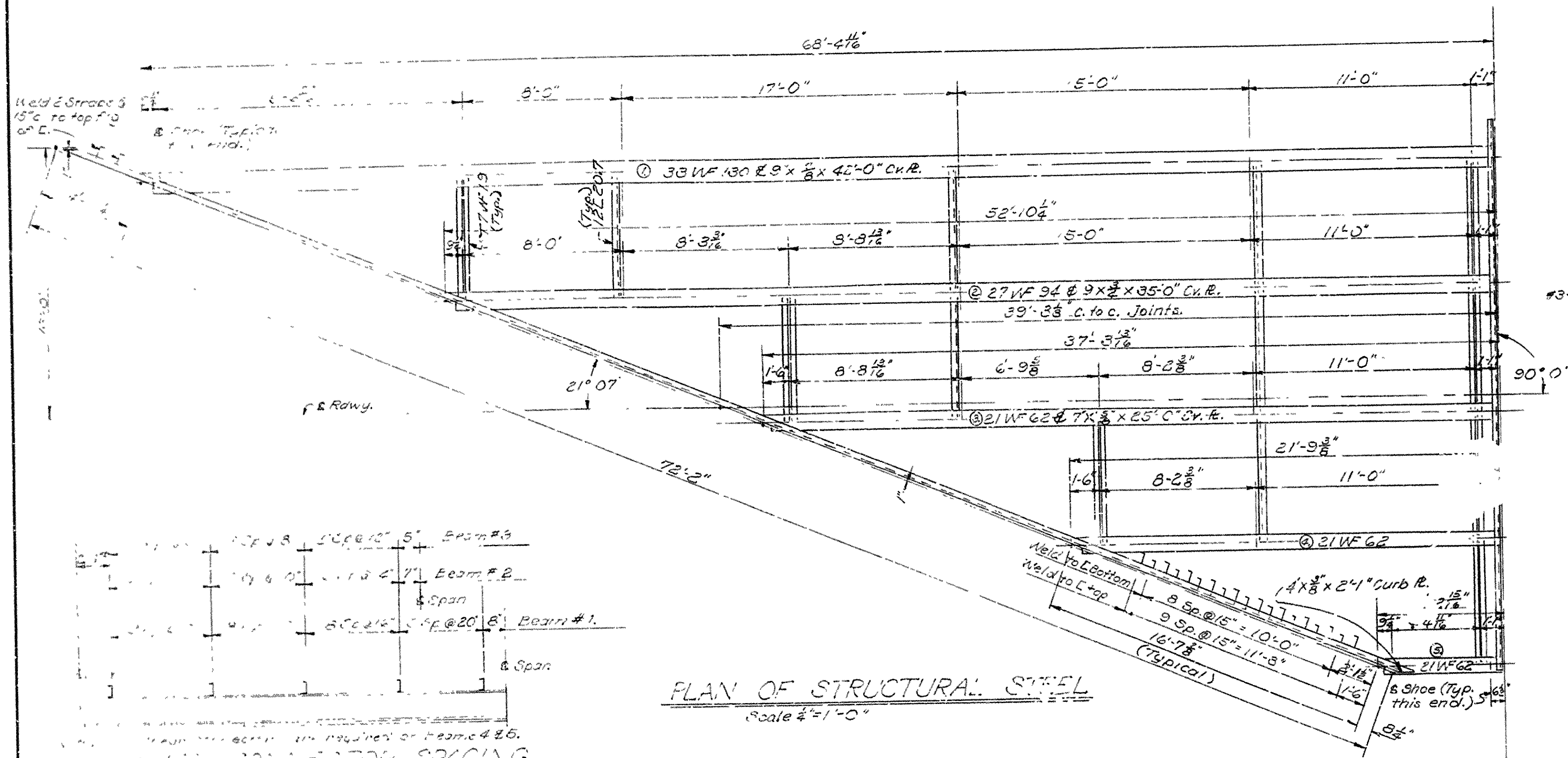
DRAWN BY: *W.P.* DATE: 5-26-60  
CHECKED BY: *J.E.M.* DATE: 6-13-60  
BRIDGE NO. 1538-A DRAWING NO. 11114.

SCALE: As Shown

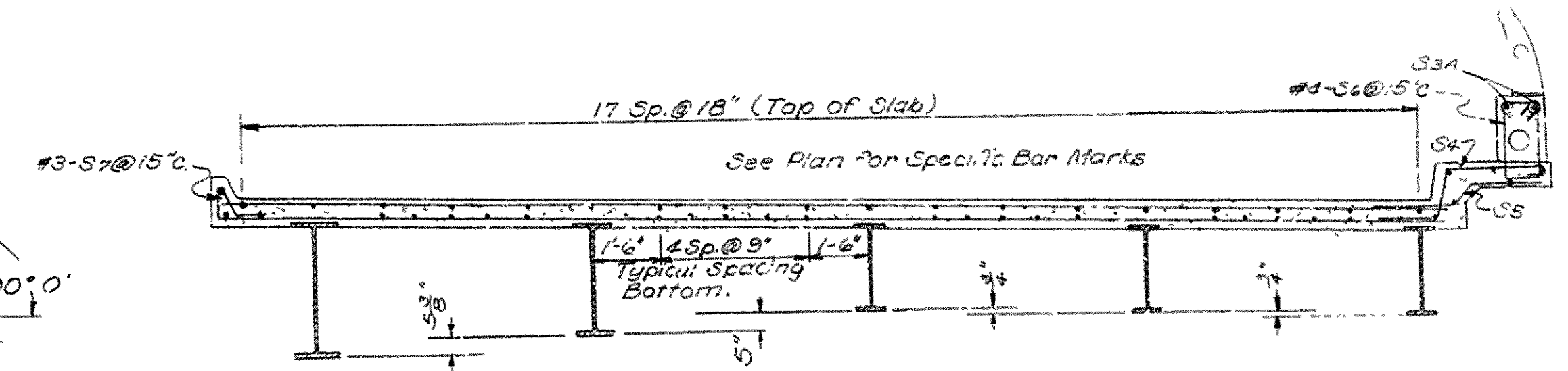
*J.P. Cochran*  
BRIDGE ENGINEER



FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	459-378(18)		20	24
JOB No.		6678		58	205



PLAN OF STRUCTURAL STEEL  
Scale: 1/4" = 1'-0"



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

Note: For Details not shown see Drawing No. 11111.

BAR LIST

MARK.	SIZE	NUMBER	LENGTH	PIN DIA.	BENDING DIAGRAM.
S1	#6	16	26'-9"	Str.	
S1A1-S1A2	#6	2 Each	Varies 26'-0" to 4'-0"	Str.	
S1B1-S1B6	#6	1 Each	Varies 10'-0" to 4'-7"	Str.	
No St. Bars are required for this span.					
S2	#4	4	37'-0"	Str.	
S3A	#4	8	5'-0"	Str.	
S3B	#4	21	36'-6"	Str.	
S3C1-S3C9	#4	2 Each	Varies 36'-2" to 5'-6"	Str.	
S3D1-S3D5	#4	1 Each	Varies 38'-3" to 20'-10"	Str.	
S3E1-S3E5	#4	1 Each	Varies 13'-2" to 5'-6"	Str.	
S3F1-S3F5	#4	1 Each	Varies 32'-4" to 25'-8"	Str.	
S3G1-S3G5	#4	1 Each	Varies 17'-0" to 3'-4"	Str.	
S4	#4	4	5'-1"	1 1/2"	
S5	#4	4	4'-2"	1 1/2"	
S6	#4	5	5'-4"	1 1/2"	
S7	#3	59	2'-4"	1 1/2"	

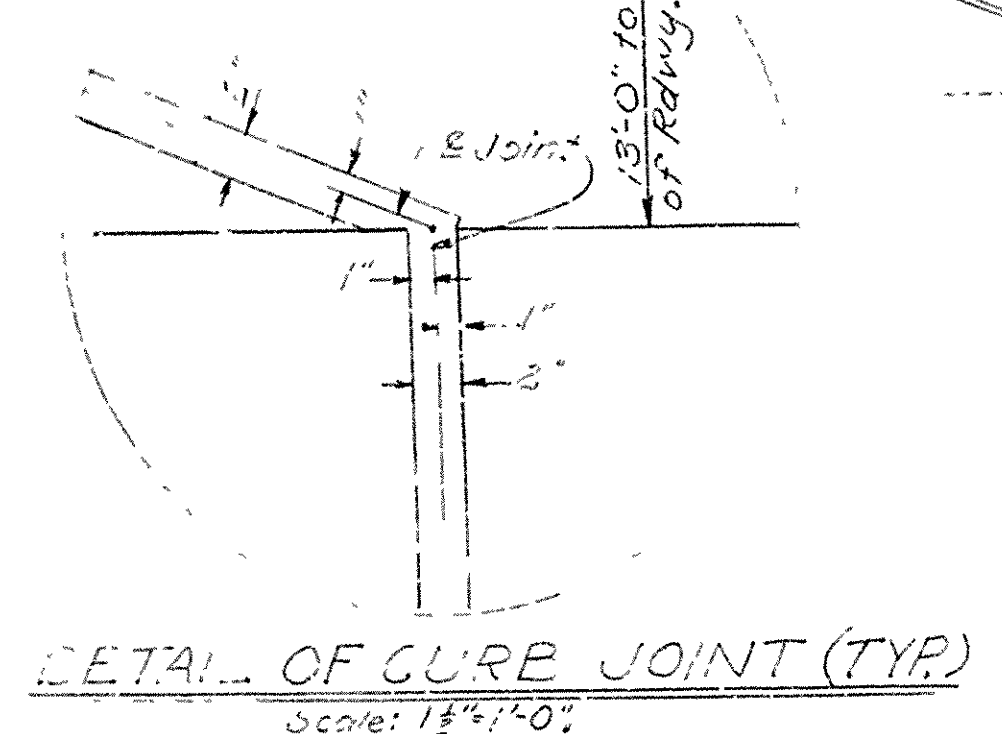
Dimensions are to centers of bars.

NOTES

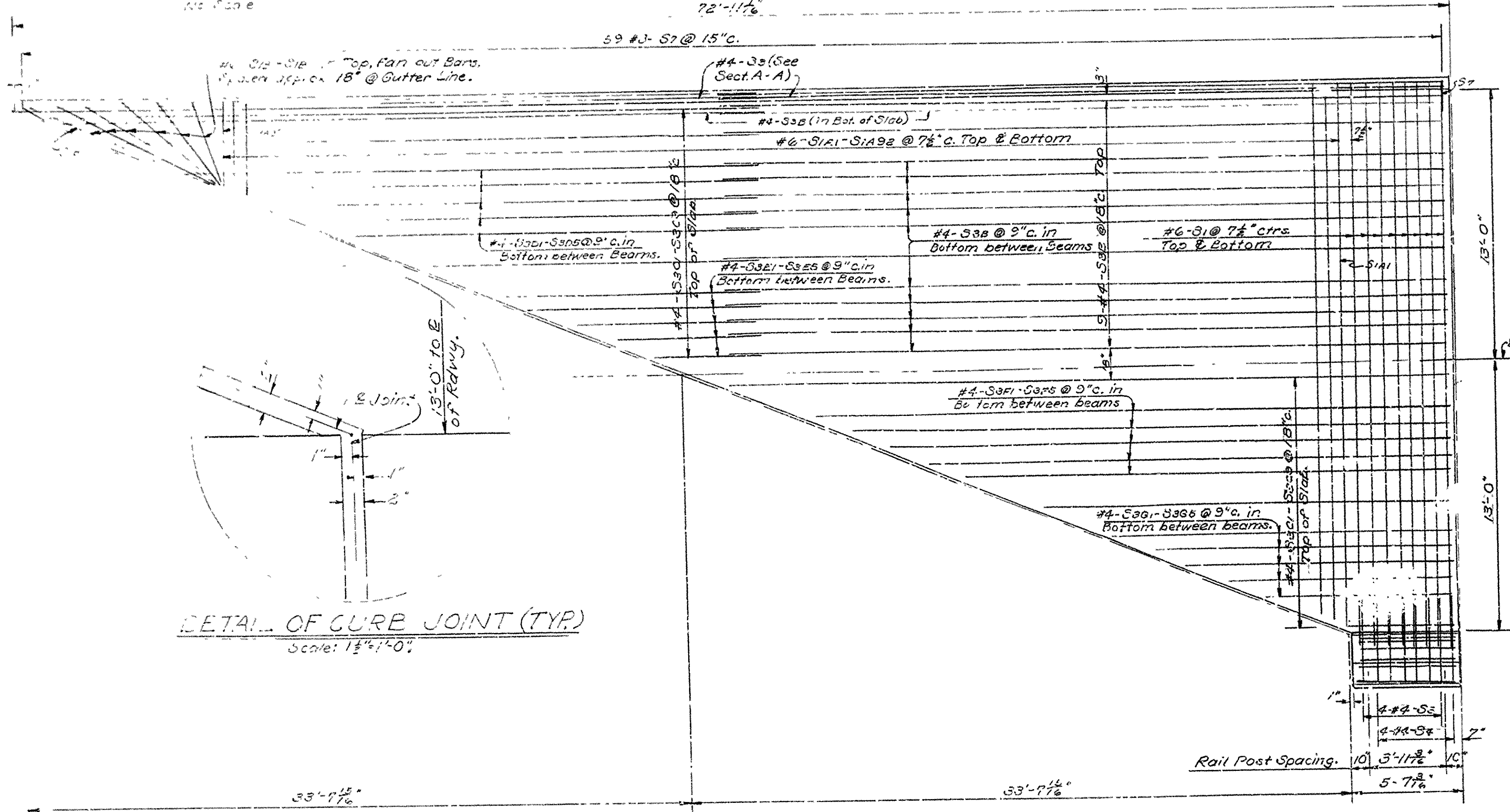
For Details of beams and of beams see Drawing No. 11112.  
For additional details and General Notes see Drwg. No. 11111.  
Type 'A' Shoes - for details see Drwg. No. 11111.

DEAD LOAD DEFLECTIONS

Beam No. 1.	1 1/2"
Beam No. 2.	1 1/2"
Beam No. 3.	1 1/2"
Beam No. 4.	1 1/2"
Beam No. 5.	1 1/2"



DETAIL OF CURB JOINT (TYP.)  
Scale: 1 1/4" = 1'-0"



PLAN SHOWING REINFORCING STEEL  
Scale: 1/4" = 1'-0"

SUPPLEMENTAL DETAILS OF 39'-3 3/8" SPAN  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD-LITTLE ROCK WEST CITY LIMITS  
PULASKI COUNTY

ROUTE 10 SEC. 8  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: VP DATE: 5-31-60  
TRACED BY: DATE: 5-31-60  
CHECKED BY: D.V. DATE: 7-28-60  
BRIDGE NO. 1538-A  
DRAWING NO. 11115.

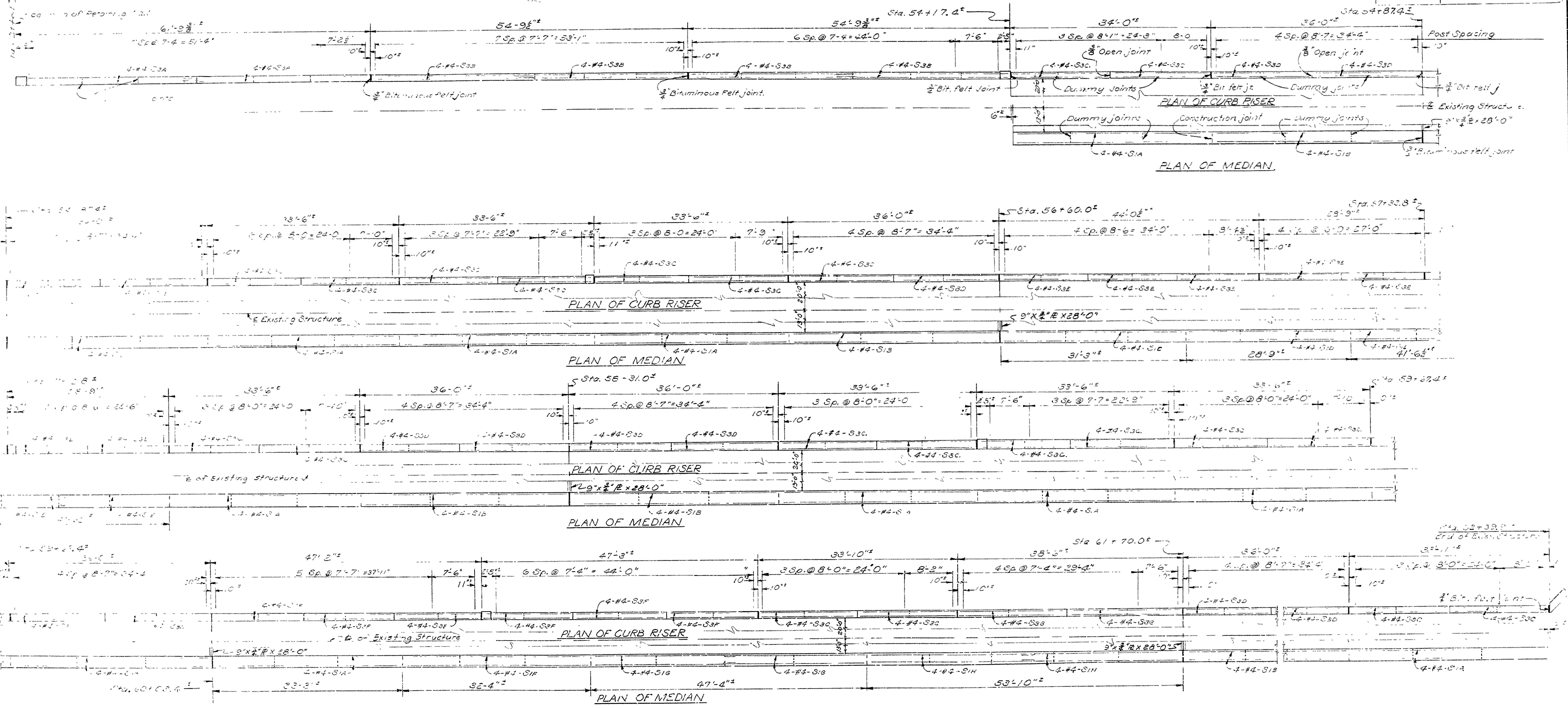
L.P. Carlson  
BRIDGE ENGINEER







FED. ROAD PROJECT	STATE	FED. AID PROJECT YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1538-A	ARK.	058-72(12)		22	26
JOB No.		6678		60	205



PARTIAL PLAN OF EXISTING STRUCTURE-REMODELED

Showing Post spacing and longitudinal steel in new curb riser and median. For transverse steel see Typical Cross Sections.

NOTES

- All concrete 10 L. Class S.
- The removal of portions of the existing structure, drilling of holes into existing concrete for dowel bars and grouting of bars into place shall be paid for under the item of "Remodeling Existing Bridge Structure".
- All new work and materials shall be paid for under the various items of the contract.
- Bituminous felt joints shall be measured and paid for as Class S Concrete.
- For typical cross sections and bar list see Drawing No. 1111.
- For General Notes and details of Railing see Drawing No. 1111.

SHEET 2 OF 2  
DETAILS OF REMODELING EXISTING STRUCTURE  
LINCOLN AVENUE VIADUCT WIDENING  
LA HARPE BLVD.-LITTLE ROCK WEST CITY LIMITS  
PULASKI COUNTY

ROUTE 10 SEC. 8  
 ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.  
 DRAWN BY: VP DATE: 6-9-60  
 TRACED BY: VP DATE: 6-9-60  
 CHECKED BY: VP DATE: 6-9-60  
 BRIDGE NO. 1538-A DRAWING NO. 1117.  
 SCALE: 1/8"=1'-0"

*L. P. Jackson*  
 BRIDGE ENGINEER