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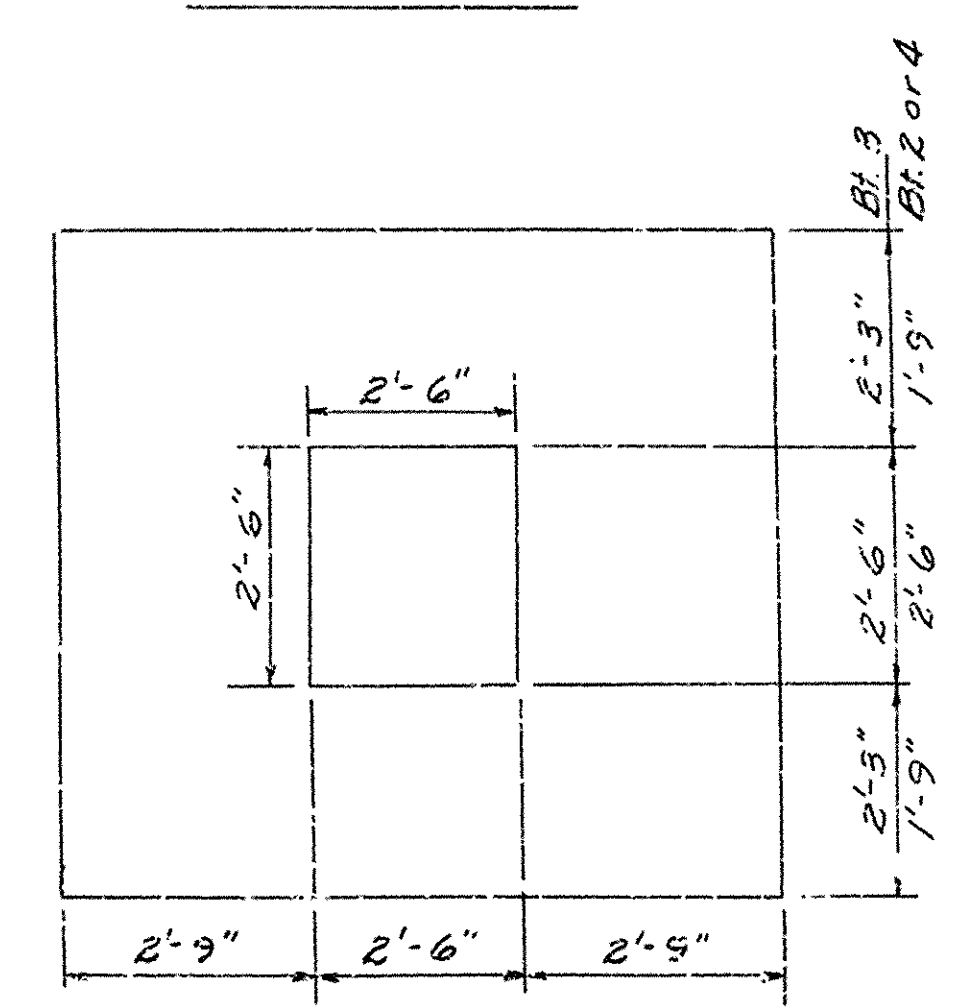
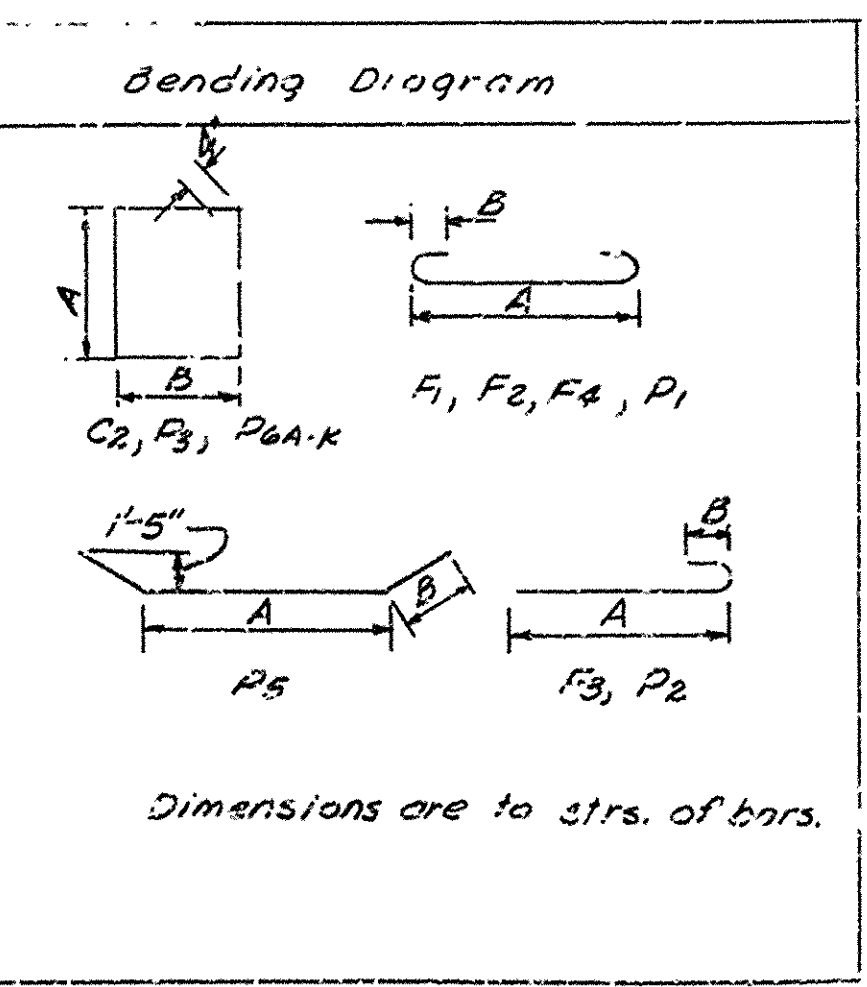
All concrete in Caps to be Class S.
Concrete in Columns & Footings to be Class A.
All exposed corners to be chamfered $\frac{3}{4}$ ".
Reinforcing steel to be deformed bars of intermediate or hard grade.

40'-0"		66'-0"		66'-0"		40'-0"	
Type B Shoe	Type A Shoe	Type A Shoe	Type A Shoe	Type A Shoe	Type B Shoe	Type B Shoe	Type B Shoe
Fix	Exp.	Fix	Exp.	Exp.	Fix	Exp.	Fix
LT. Ext. Bm.		7'10"		7'10"		7'10"	
LT. Int. Bm.		1'-4 3/8"		1'-4 3/8"		1'-4 3/8"	
E. Bm.		1'-4 3/8"		1'-4 3/8"		1'-4 3/8"	
RT. Int. Bm.		1'-4 3/8"		1'-4 3/8"		1'-4 3/8"	
RT. Ext. Bm.		7'10"		7'10"		7'10"	
Bm. Buildups						Bm. Buildups	

SKETCH SHOWING BEAM BUILDUPS

BAR LIST

NK	#	Size	No. Req'd	Length	A	B	Pin Diam.
F1	6	22	26	8'-11"	7'-6"	6"	4 1/2"
F2	6	30	-	6'-11"	5'-6"	6"	4 1/2"
F3	9	16	16	7'-0"	5'-9"	10"	9"
F4	6	-	30	7'-11"	6'-6"	6"	4 1/2"
C1	9	16	16	20'-3"	-	-	Str.
C2	4	32	37	5'-11"	2'-1"	2'-1"	1 1/2"
P1	8	3	3	29'-9"	27'-6"	9"	8"
P2	8	8	8	11'-4"	10'-3"	9"	8"
P3	4	27	27	12'-1"	3'-7 1/2"	2'-1 1/2"	1 1/2"
P4	8	4	4	19'-6"	-	-	Str.
P5	8	3	3	23'-1"	19'-11"	4'-1"	8"
P6A-K	4	20a	20a	11'-10"	10'-3"	2'-1 1/2"	1 1/2"
P7	4	2	2	27'-6"	-	-	Str.



DETAILS OF BENTS 2-4 FOR
HWY. 51 INTERCHANGE
LITTLE MISSOURI RIVER-
MISSOURI PACIFIC OVERPASS
CLARK COUNTY
INT. ROUTE 30, SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: RHM. DATE: 2-5-64
TRACED BY: DATE: 2-5-64
CHECKED BY: VAS. DATE: 2-6-64
BRIDGE NO. 3873 DRAWING NO. 12754

L.P. HANCOCK
BRIDGE ENGINEER

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34. All concrete to be Class S. All exposed corners to be chamfered unless otherwise noted.
35. All connections to be riveted or bolted with high strength bolts. The locations where noted otherwise.
36. Structural shapes of Class A.
37. All structural shapes to be substituted for shapes shown, and payment will be on the basis of shapes shown or those actually used, whichever is less.
38. All needed connections to be 3/8" filler shop welds except as noted.
39. All specifications shall conform to the American Welding Society Standard.
40. Shop Paint: All structural steel except structural shapes, current edition.
41. Connections shall be given one coat of red lead and two successive coats of zinc primer before shipment.
42. Field Paint: First coat - red lead tinted with lamp black. Second coat - zinc primer.

All metal bearing and roadway expansion devices to be per ASTM A-136. Structural Steel in Beam Spans. Bearings shall be finally sealed in accordance with Sec. 806.5, including alternate use of the "Hot" work and material in Beam Spans considered as Submittals to the term, "Structural Steel in Beam Spans".

This drawing shows general features only. Specifications, only. Specifications shall be made in accordance with the Specifications, only. Specifications approval secured before fabrication is begun.

All Steel shall be ASTM A-36 unless otherwise noted.

Anchor bolts shall be galvanized to conform to ASTM Specification, Designation A 153.

Reinforcing steel to be formed bars of intermediate or hard grade. The reinforcing steel shall be steel rods, in the forms and firmly held in place by steel chairs sufficient in number and size to prevent displacement during the course of construction. The wire supports will not be made of reinforcing steel, but will be considered subsidiary to the item of "Reinforcing Steel".

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

Sp. Chambers on concrete riser for rail are to be 1/2".

Shop drawings of bending details of railing shall be submitted and approved secured before fabrication is begun.

The aluminum bridge railing, including sagging, in winter.


shall be paid for at the unit price bid per linear foot for Metal Framing Bridge Railings.

A rail connection utilizing self screws is an acceptable alternative and may be supplied at the Contractor's option.

Outside surfaces of flanges of cast aluminum posts shall be given a weathered grit ball finish after which all exposed surfaces: (1) shall be primed with a coat of clear lacquer, (2) shall be painted with a color of choice, or (3) shall be anodized.

When an equivalent rigid post and fastening system is shown, the rail including posts and fastenings shall be priced at the unit price bid per linear foot for "Steel or Aluminum Plate Guard Rail Railing."

3) Slab Pouring Note:



A strike slabs may be poured in one continuous operation with a floor of extending over the whole span length, or they be poured in increments with the center one third to one half span being poured first. After the center sections are poured not less than 75% of the slab depth, the side sections may be poured simultaneously, 48 hours shall elapse between end section pours.

REQUIREMENTS:
 Arkansas State Highway Commission Standard Specifications for Highway Construction
 Edition of 1959.

This Drawing is a modification of Dwg No. 14-990

3" thick stiffener on side of
Web tapered from edge of Coped Flg
to edge of bottom flange

Notes: Beam buildings are
required where modified spans
are used, or adjacent regular
spans have different
plus shoe height. (See
accompanying drawings)

WF BEAM
Coped Bm. Flg.
To 3/4" width

1"
1"

BEAM

1/8" - 1/4"

4" (Typical)

5" thick stiffener on side of web to Fig. edge.

4 1/2"

3/4" web

8"

Bearing

Fig. 1

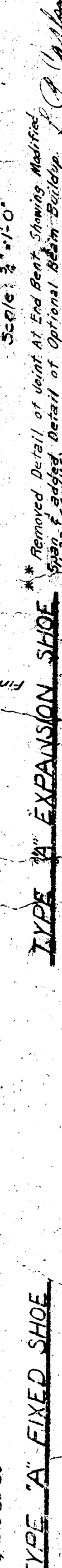
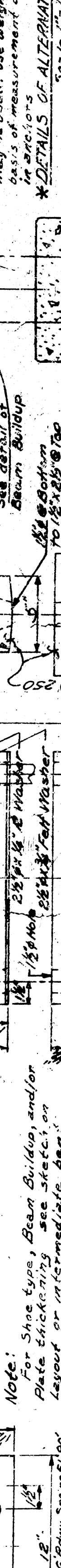
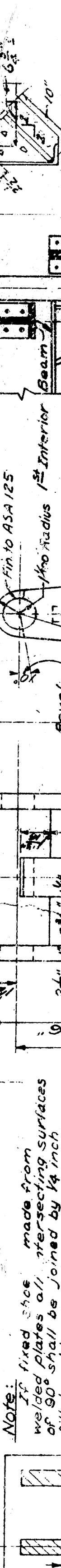
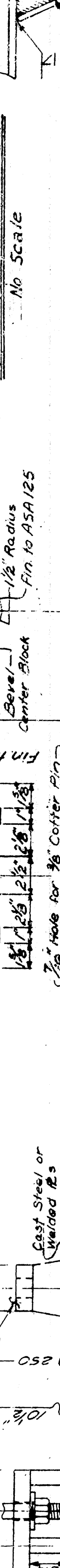
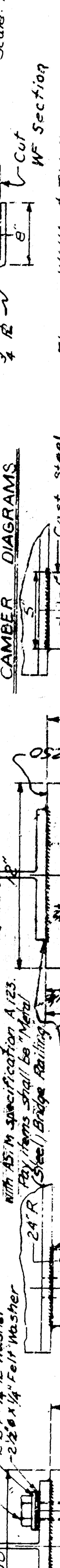
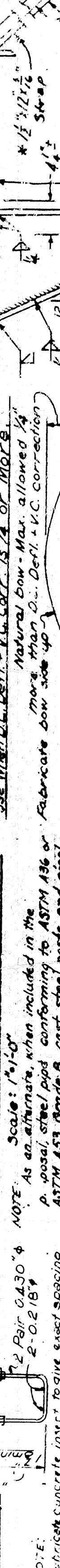
DETAILS OF BEAM BUILDUP
No Scale

DETAILS COMMON TO STANDARD 35'-90"
COMPOSITE I-BEAM SPANS

ALL ROADWAY WIDTHS
SIZE ANCHORS
 ARKANSAS STATE HIGHWAY COMMISSION

RE-DRAWN BY: EE DATE: 9-27-85
 TRACED BY: _____ DATE: _____
 RE-CHECKED BY: EMH DATE: 9-30-83
 SCALE: As Shown
 BRIDGE NO. 2693 DRAWING NO. 14990A

File AS. CWA: 11500



FED. ROAD NO.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	S-192(3)	9457	16	37

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The lengths of bracing members shall be determined in the field. Each member shall be one continuous angle and be welded to the steel beam. Piles shall be spaced as shown. Angle bracing shall be welded to the steel beam. Angle bracing shall be welded to the steel beam.

VARIABLE DIMENSIONS FOR END BENTS

SPAN	END SPAN BEAMS	VARIABLE	CAP
Length	Interior	Exterior	
35-58	21 WF 55	21 WF 55	2-58
	24 WF 68	24 WF 68	4-58
	27 WF 84	27 WF 84	7-58
	30 WF 99	30 WF 99	10-58
	33 WF 118	33 WF 118	13-58
	36 WF 135	36 WF 135	16-58
39-43	21 WF 55	21 WF 55	2-58
	24 WF 68	24 WF 68	4-58
	27 WF 84	27 WF 84	7-58
	30 WF 99	30 WF 99	10-58
	33 WF 118	33 WF 118	13-58
	36 WF 135	36 WF 135	16-58
44-48	24 WF 68	24 WF 68	4-58
	27 WF 84	27 WF 84	7-58
	30 WF 99	30 WF 99	10-58
	33 WF 118	33 WF 118	13-58
	36 WF 135	36 WF 135	16-58
49-52	24 WF 76	24 WF 76	4-58
	27 WF 84	27 WF 84	7-58
	30 WF 99	30 WF 99	10-58
	33 WF 118	33 WF 118	13-58
	36 WF 135	36 WF 135	16-58
53-58	27 WF 84	27 WF 84	7-58
	30 WF 99	30 WF 99	10-58
	33 WF 118	33 WF 118	13-58
	36 WF 135	36 WF 135	16-58
59-63	27 WF 94	27 WF 94	7-58
	30 WF 99	30 WF 99	10-58
	33 WF 118	33 WF 118	13-58
	36 WF 135	36 WF 135	16-58
64-65	30 WF 99	30 WF 99	10-58
	33 WF 118	33 WF 118	13-58
	36 WF 135	36 WF 135	16-58
66-68	30 WF 108	30 WF 108	10-58
	33 WF 118	33 WF 118	13-58
	36 WF 135	36 WF 135	16-58
69-75	33 WF 118	33 WF 118	13-58
	36 WF 135	36 WF 135	16-58

NOTES: All concrete to be Class S. All exposed corners to have 3/4" chamfer. All piling shall be driven to a minimum capacity of 56 tons per pile. Piling shall be either 16" x 16" x 16" Cast-in-place Concrete Piling or Concrete Filled Steel Shell Piles as shown on the layout. All Structural Steel shall be A572M/A-58. This drawing is to be used with Standard Drawing 15130, Modified 10-5-65.

Intermediate Bents not to be used for spans over 50 feet.

Rev 6 1/2" dimension added for clearance 6-4-64 RWM.

DETAILS OF STANDARD PILE BENTS FOR 35' TO 75' COMPOSITE I-BEAM SPANS 26' CLEAR ROADWAY 1'-6" OR 1'-7 1/2" CURBS

ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION

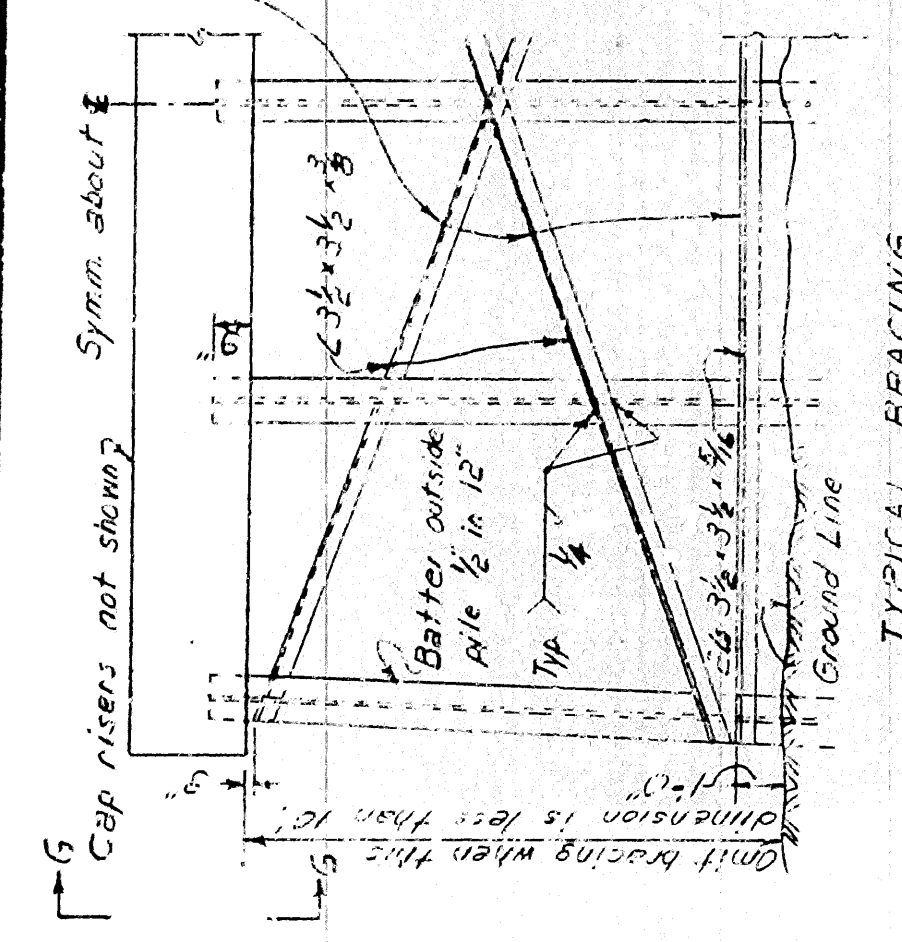
LITTLE ROCK, ARK.

DRAWN BY: L.A.S. DATE: 9-11-62
CHECKED BY: M.E.W. DATE: 9-12-62

BRIDGE NO. 3753

DRAWING NO. 15020A

D.O. NOT BUILT



REINFORCING DETAIL FOR STEEL PILE TIP

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

Note: Steel Pile Tip reinforcing will not be paid for directly but shall be considered subsidiary to the item of 'Steel bearing Ailing'.

Note: Detail A shown for level bridge. Slope for bridge on grade.

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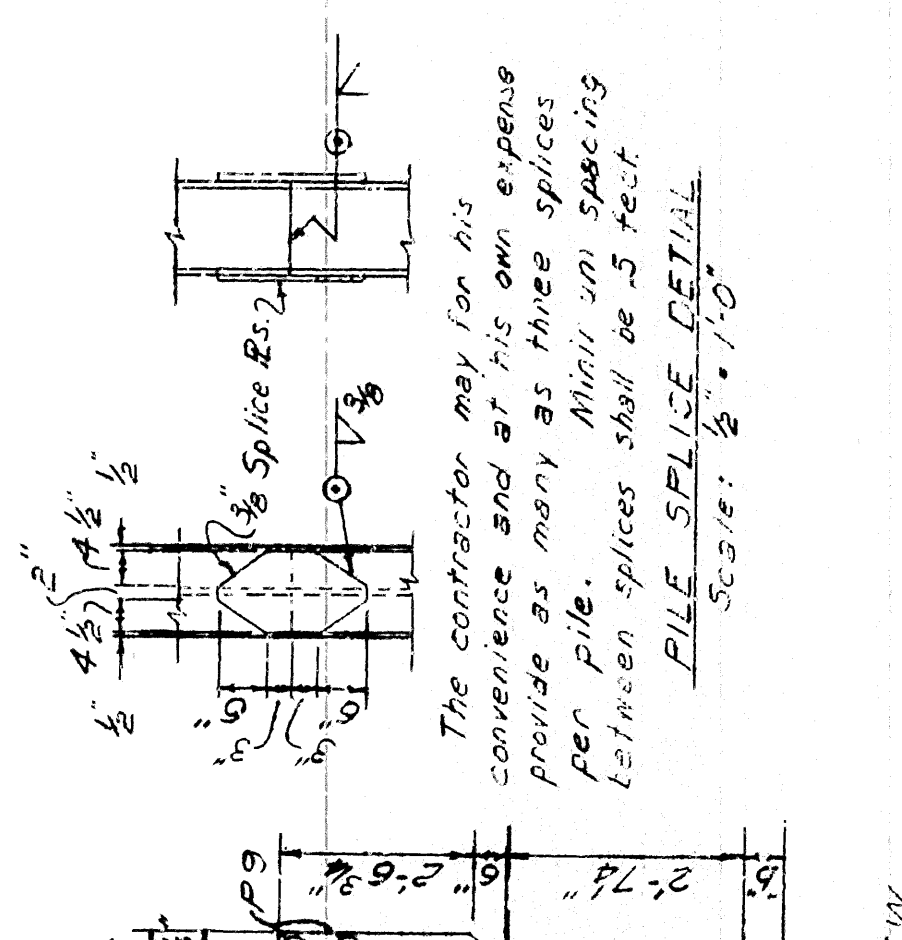
Note: Detail A shown for level bridge. Slope for bridge on grade.

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Note: Detail A shown for level bridge. Slope for bridge on grade.



FRONT ELEVATION OF END BENT

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

Note: Detail A shown for level bridge. Slope for bridge on grade.

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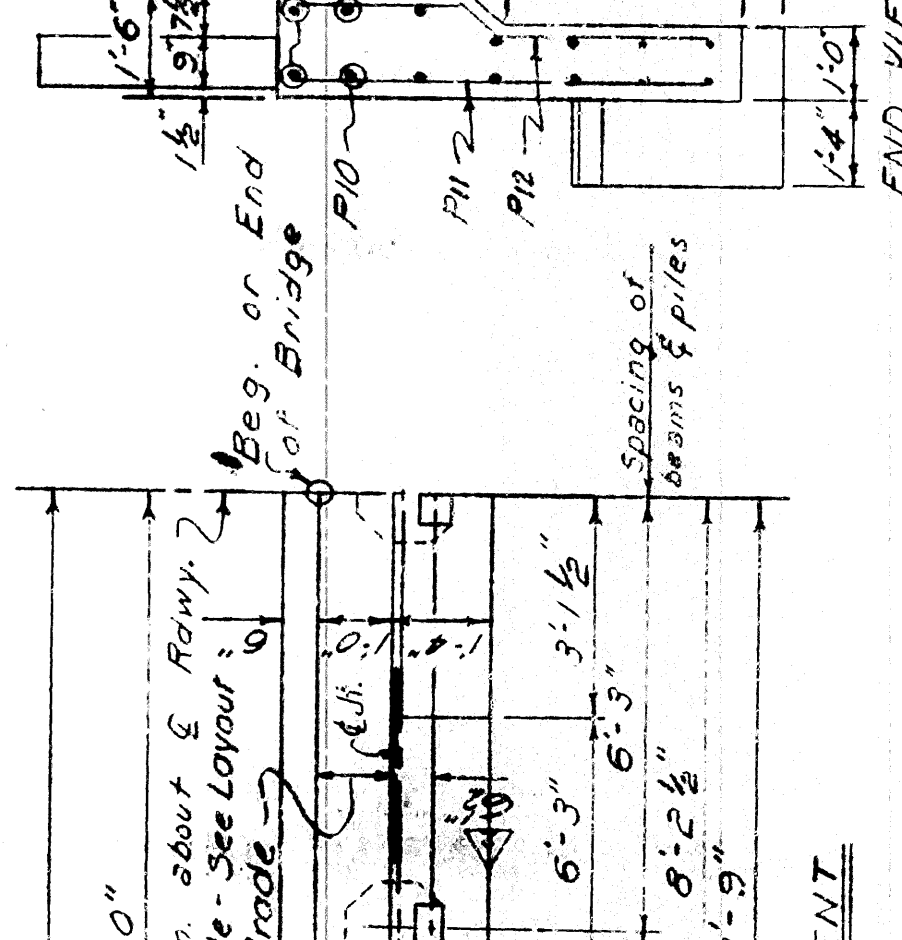
Note: Detail A shown for level bridge. Slope for bridge on grade.

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Note: Detail A shown for level bridge. Slope for bridge on grade.



HALF ELEVATION OF END BENT CAP X

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

Note: Detail A shown for level bridge. Slope for bridge on grade.

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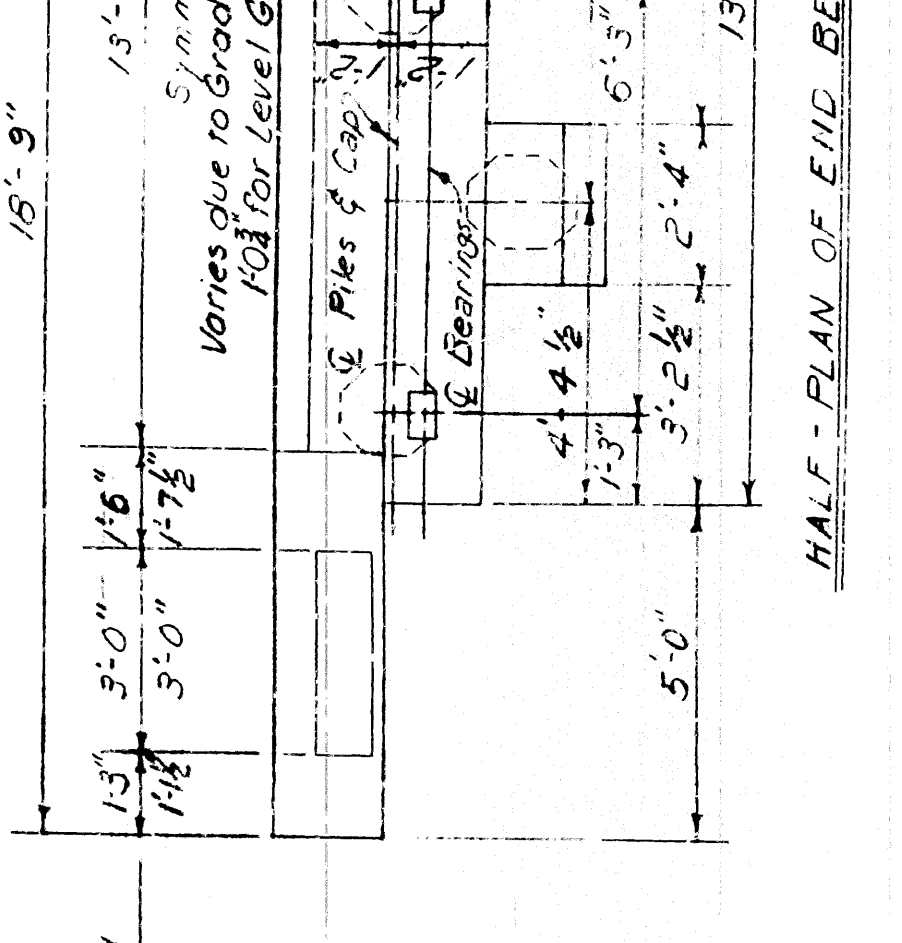
Note: Detail A shown for level bridge. Slope for bridge on grade.

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HALF ELEVATION OF END BENT CAP Y

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

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