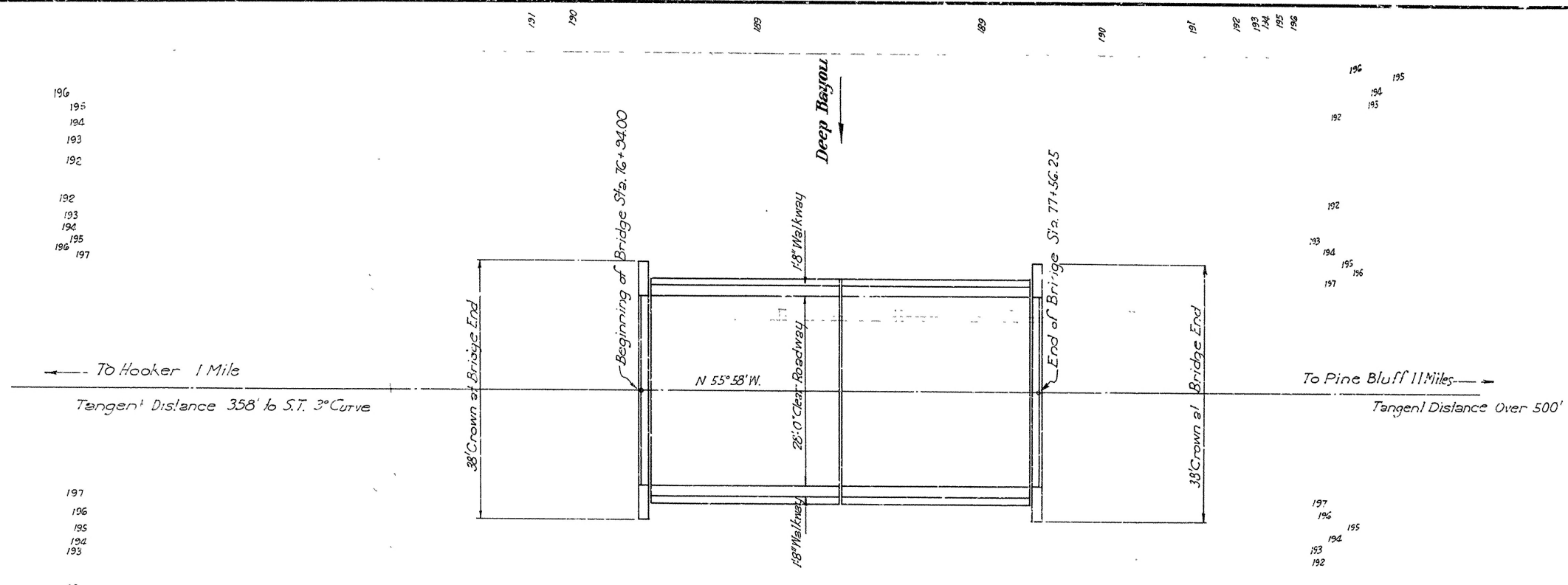
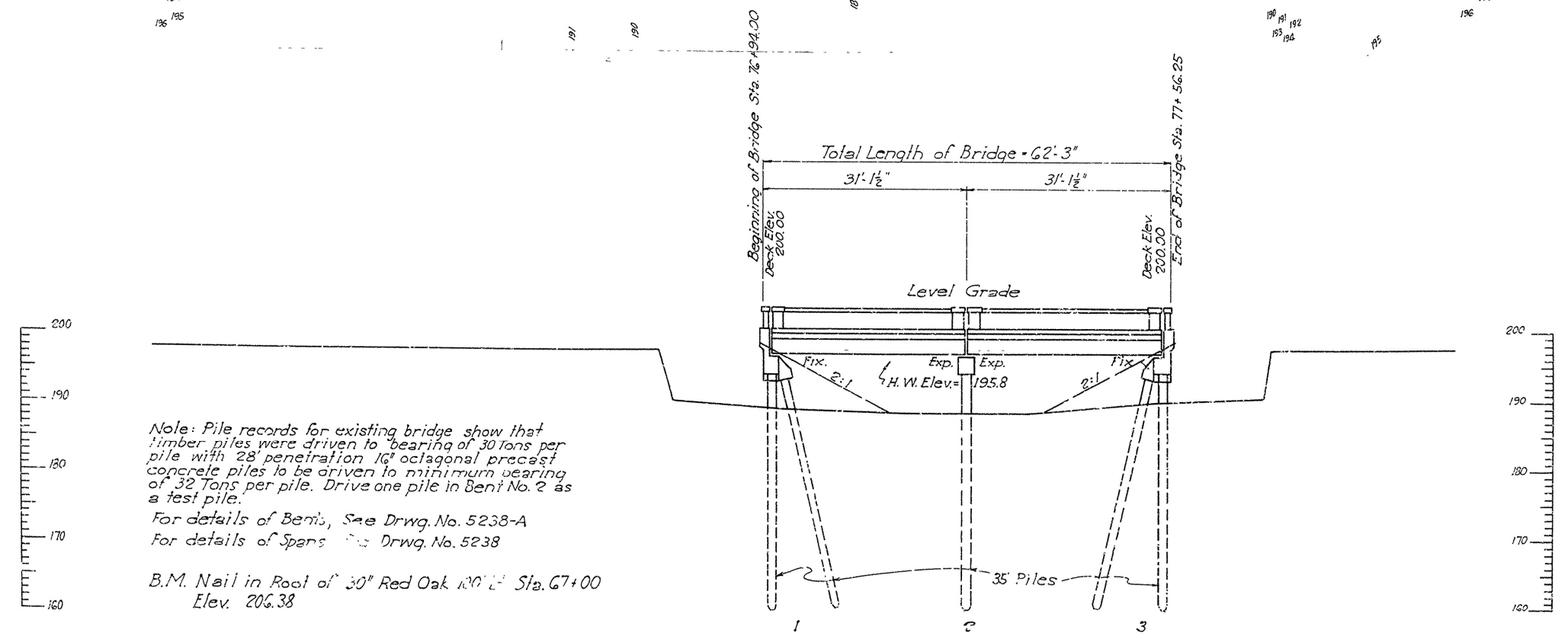


FED. ROAD DIST. NO.	STATE	Proj. No.	FISCAL Y. AR.	SHEET NO.	TOTAL SHEETS
6	ARK.	F453 (2)		3	13
STATE JOB NO. 2339					



PLAN



ELEVATION

Note: Pile records for existing bridge show that timber piles were driven to bearing of 30 tons per pile with 28' penetration. 16' octagonal precast concrete piles to be driven to minimum bearing of 32 tons per pile. Drive one pile in Bent No. 2 as a test pile.
For details of Bents, See Drwg. No. 5238-A
For details of Spans, See Drwg. No. 5238
B.M. Nail in Roof of 30" Red Oak 120' L² Sta. 67+00
Elev. 206.38

Drainage Area = 6 3/4 Sq. Miles - Very flat

LAYOUT OF
BRIDGE OVER DEEP BAYOU
HOOKER-PINE BLUFF ROAD
JEFFERSON COUNTY
ROUTE 81 SEC. 7
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: L.P.C. Date: 8-17-43
Traced By: E.A.W. Date: 8-12-43
Checked By: _____ Date: _____
Scale: 1 in. = 10 ft.
BRIDGE NO. 833 DRAWING NO. 6465

M.B. Baker
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.				
STATE JOB NO.					

LOADING H-20
Load Distribution Outside Girders -
Dead Load Per Ft. = 1520#
Roadway Live Load Per Ft. = 364#
Conc. Live Load = 10800# Mom
Truck Live Load = 125 Wheel
Load Distribution Inside Girders -
Dead Load Per Ft. = 1070#
Roadway Live Load Per Ft. = 312#
Conc. Live Load = 2400# Mom
Truck Live Load = 160 Wheel

STRESSES
Structural Steel = 18000#/in.
Reinforcing Steel = 18000#/in.
Concrete = 1000#/in.
n = 10

GENERAL NOTES

All concrete to be Class 15. All exposed corners to have 3" chamfer unless otherwise noted.
* Rivets 3/4" Open holes 1 1/2". Where bolts are indicated use machine bolts.
Structure shapes of equal or greater strength may be substituted for shapes shown but payment will be made on basis of shapes shown or those actually used whichever is the lesser.
All welded connections to be 3/8" fillet shop welds except as noted.
Shop Paint: All structural steel except surfaces in contact with concrete, shall be given one coat of red lead and raw linseed oil before shipment.
Field Paint: First, White Lead tinted with lamp black. Second, Aluminum Paint.
All bearing and roadway expansion devices to be paid for as structural steel in beam spans.
Care shall be exercised to obtain 90° in the angle between flange and web of beams at bearing points.
This drawing shows general features of design only. Shop drawings shall be made in accordance with the Specifications, submitted and approval secured before fabrication is begun.
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 strike-off. The strike-off shall be sufficiently stiff so as to have no appreciable vertical deflection.
SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction, Adopted March 1st 1940.
* Contractor may substitute structural members of approved design for field rivets.



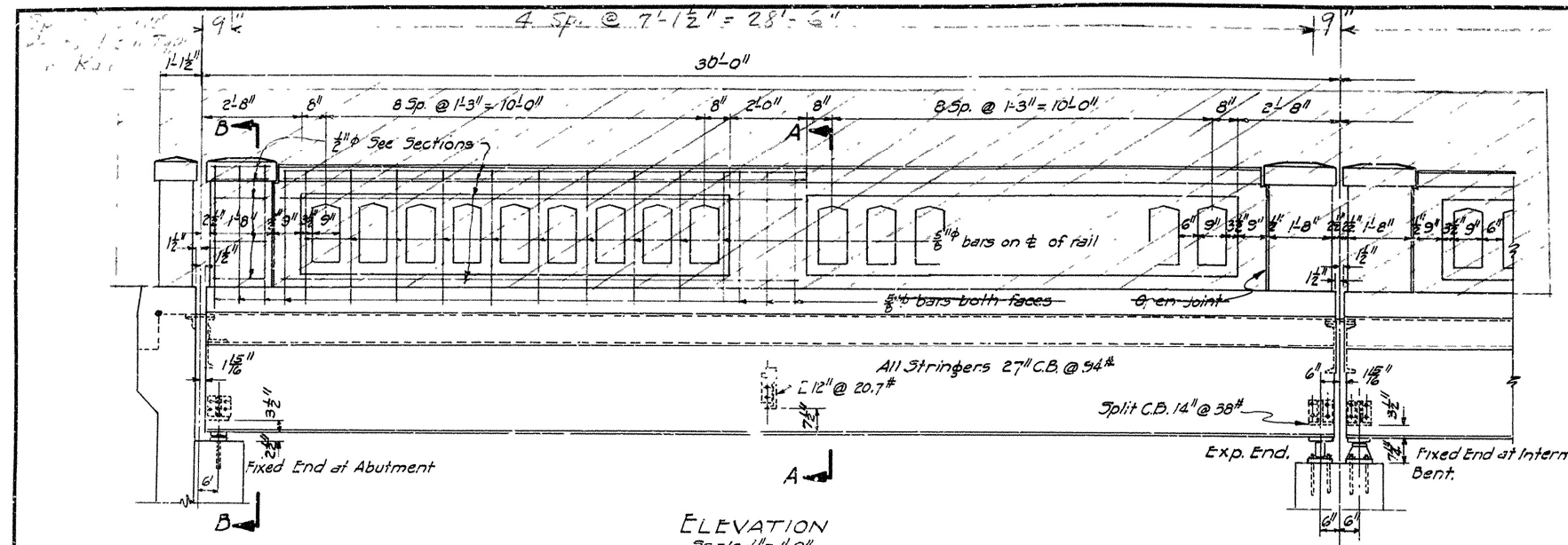
SLAB BAR BOLSTER
All reinforcing steel shall be accurately located in the forms and firmly held in place by means of steel wire chair supports, adequate to prevent displacement during the course of construction and to keep the steel a proper distance from the forms.
Bar supports are to be sufficient 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 of "Reinforcing Steel". Shop lists and diagrams must be submitted for approval.

LIST OF BENT BARS									
Mark	Size	Length	A	B	C	Diagram			
51	3/4"	34 1/2"	27 1/2"	14 1/2"	19 1/2"				
52	3/4"	34 1/2"	27 1/2"	14 1/2"	19 1/2"				
53	3/4"	30 1/2"	14 1/2"	10 1/2"	3 3/4"				

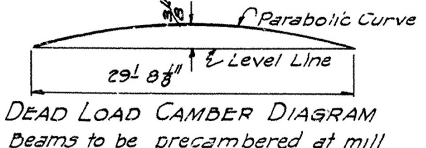
Revised Mt. of 27' CC 3-27-47
Revised 4-5-47 Rivet Bolts
Revised 10-1-48 to 4x4x1/2
See also Draw. No. 5238

DETAILS OF
STANDARD 30'-0" I-BEAM SPAN
28'-0" CLEAR ROADWAY 11'-8" WALKWAYS.

ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: L.B.C. Date: 8-1-43
Traced By: L.A.M. Date: 8-1-43
Checked By: _____ Date: _____
BRIDGE NO. _____ DRAWING NO. 5238

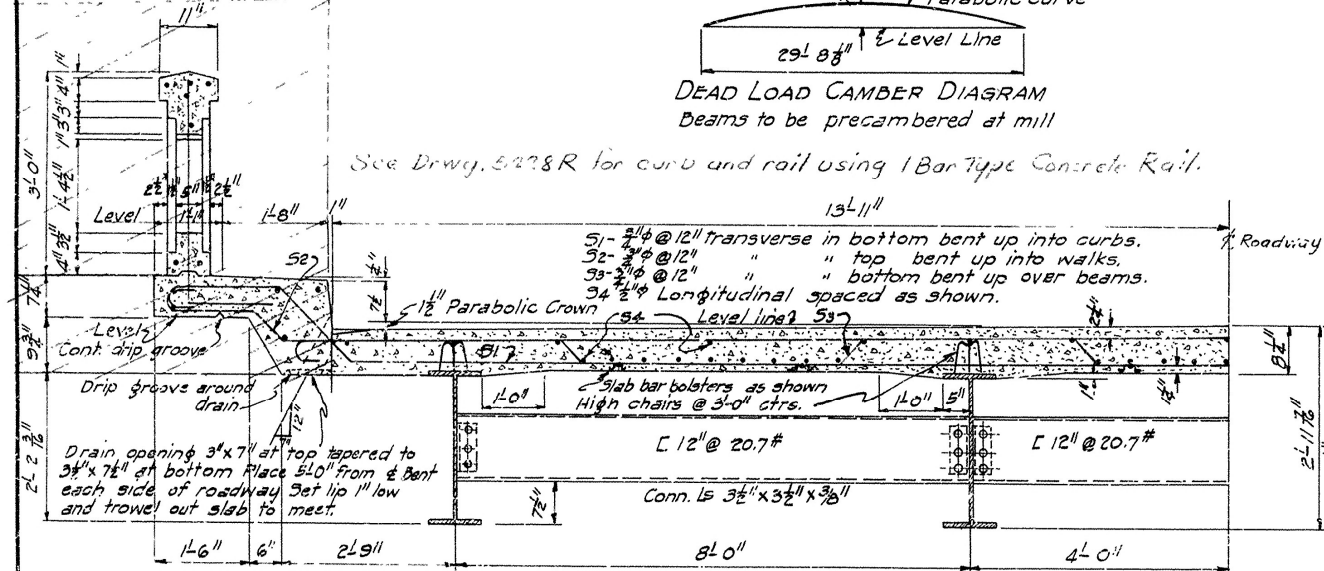


ELEVATION
Scale 1/2" = 1'-0"

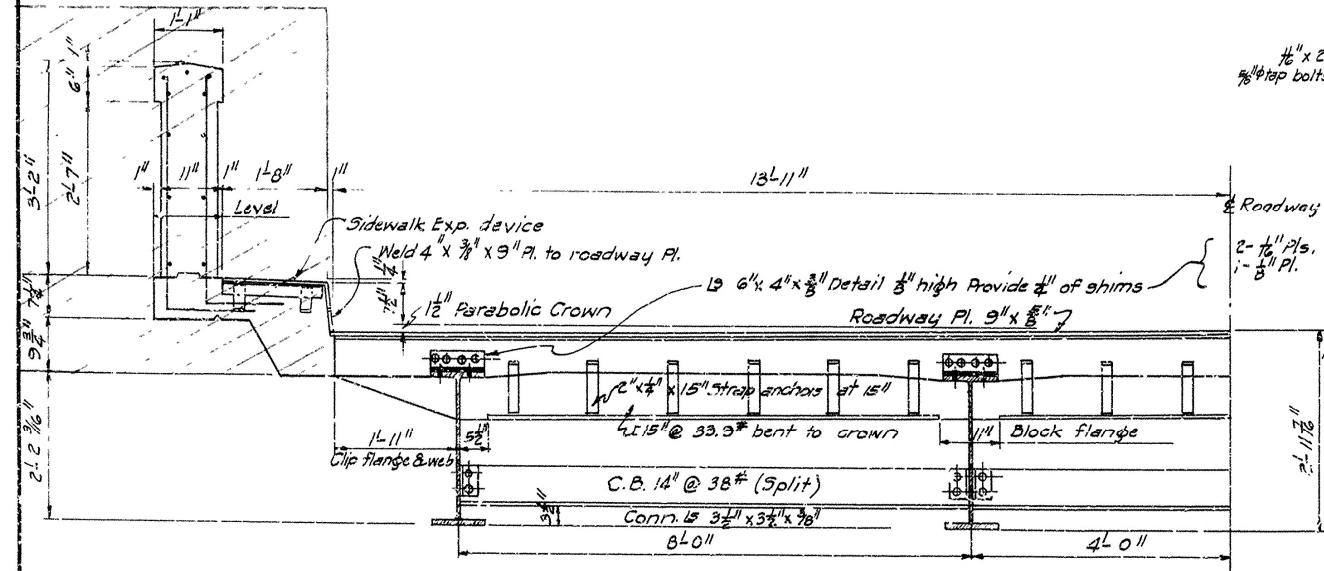


Beams to be precambered at mill

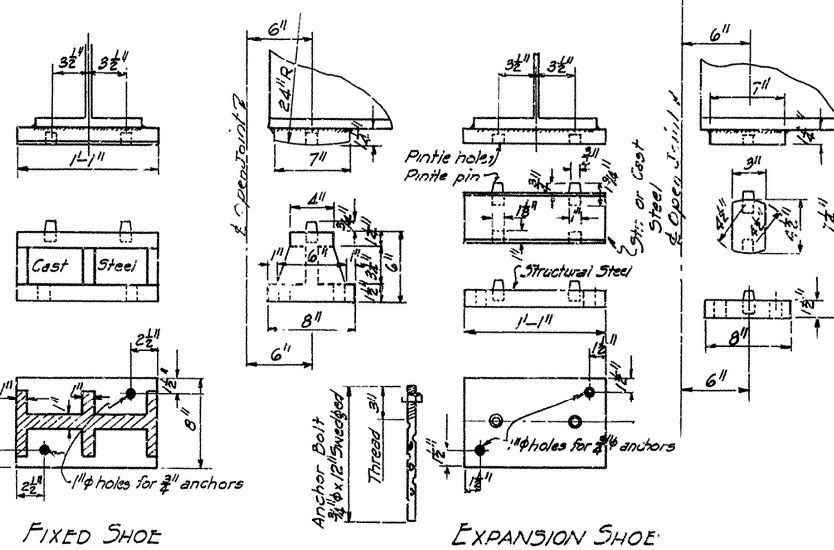
See Drwg. 5238R for curb and rail using I Bar Type Concrete Rail.



HALF SECTION A-A

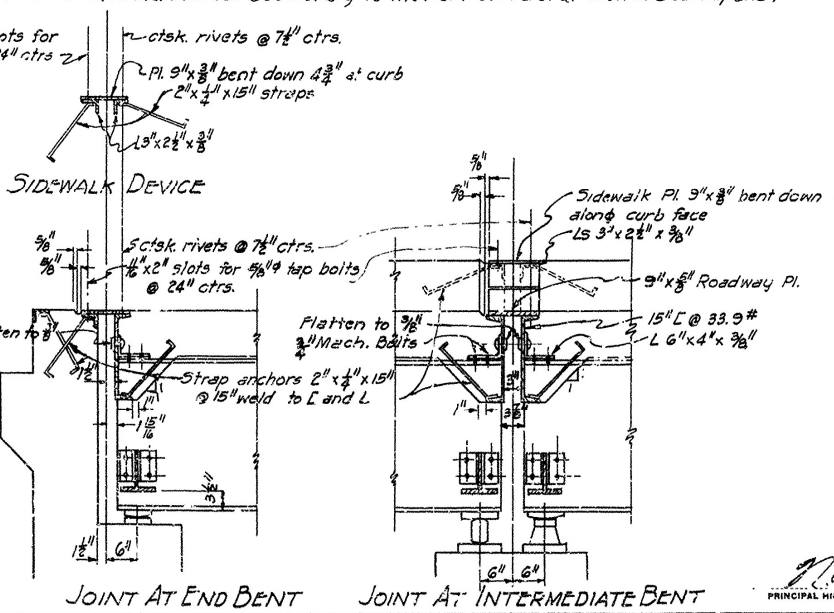


HALF SECTION B-B



DETAILS OF BEARINGS

Scale 1 1/2" = 1'-0"
Bearings shall be finally seated on 3 layers of burlap saturated with red lead.
This work and material to be subsidiary to the item "Structural Steel in Beam Spans".



JOINT AT END BENT JOINT AT INTERMEDIATE BENT

Principal Highway Engineer (Bridge)