

⁴ Note: When called for on Bridge Layout use steel bearing piles BP10 @ 42" instead of concrete piles. Note changes in dimensions at piles and number of bars PG in caps.



LIST OF BENT BARS

[illegible]

GENERAL NOTES:

Piles to be driven to minimum capacity of 20 Tons.
for additional general notes see Draw. No. 5202

* Omit paving bracket unless called for on bridge layout

Revised 4-16-47
Revised 4-10-48 Oak Header Out
8-5-49 Steel Piles Added

DETAILS OF ~~R.C.~~ PILE BENTS
FOR 30'-32'-34' I-BEAM SPANS
24'-0" CLEAR ROADWAY 1'-6" WALKWAY

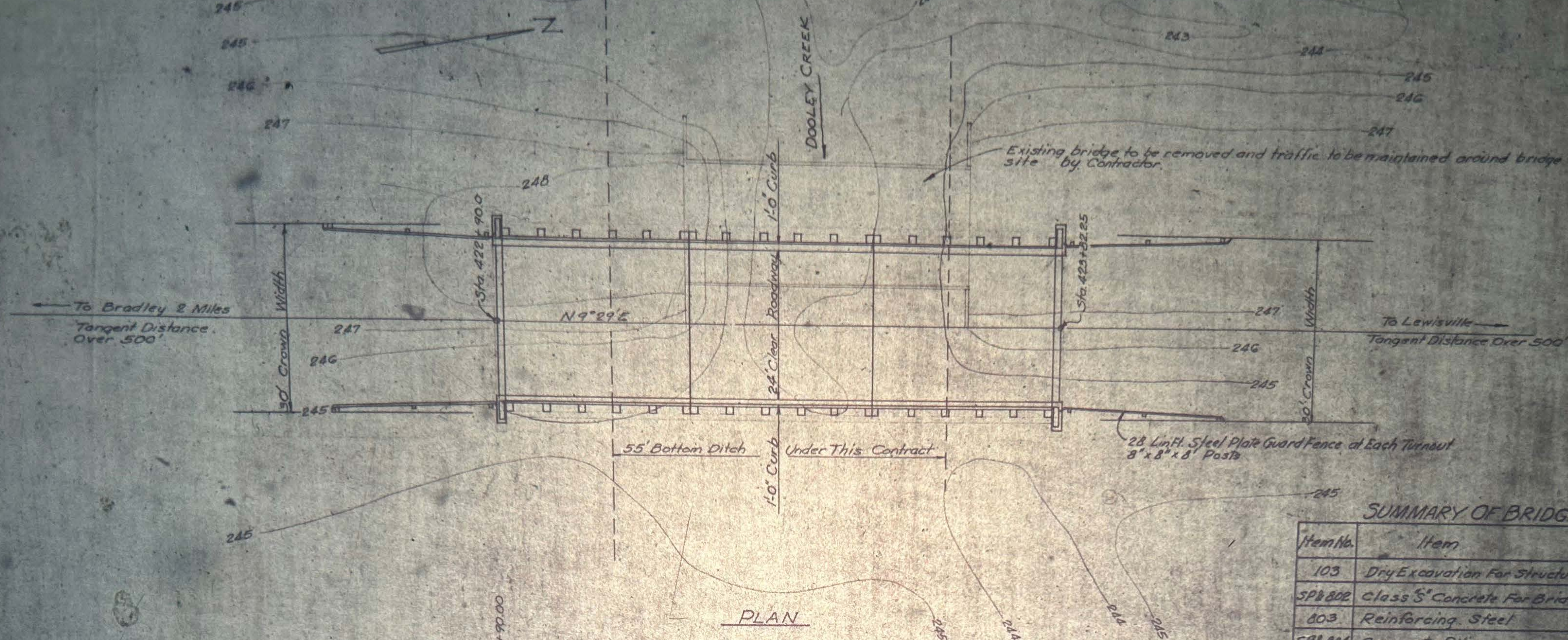
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK

Drawn By: P.C. Date: 2-1-44
Traced By: GWB Date: 5-2-46
Checked By: _____ Date: _____

Sealey V2 100 100 100

DRAWING NO. 52

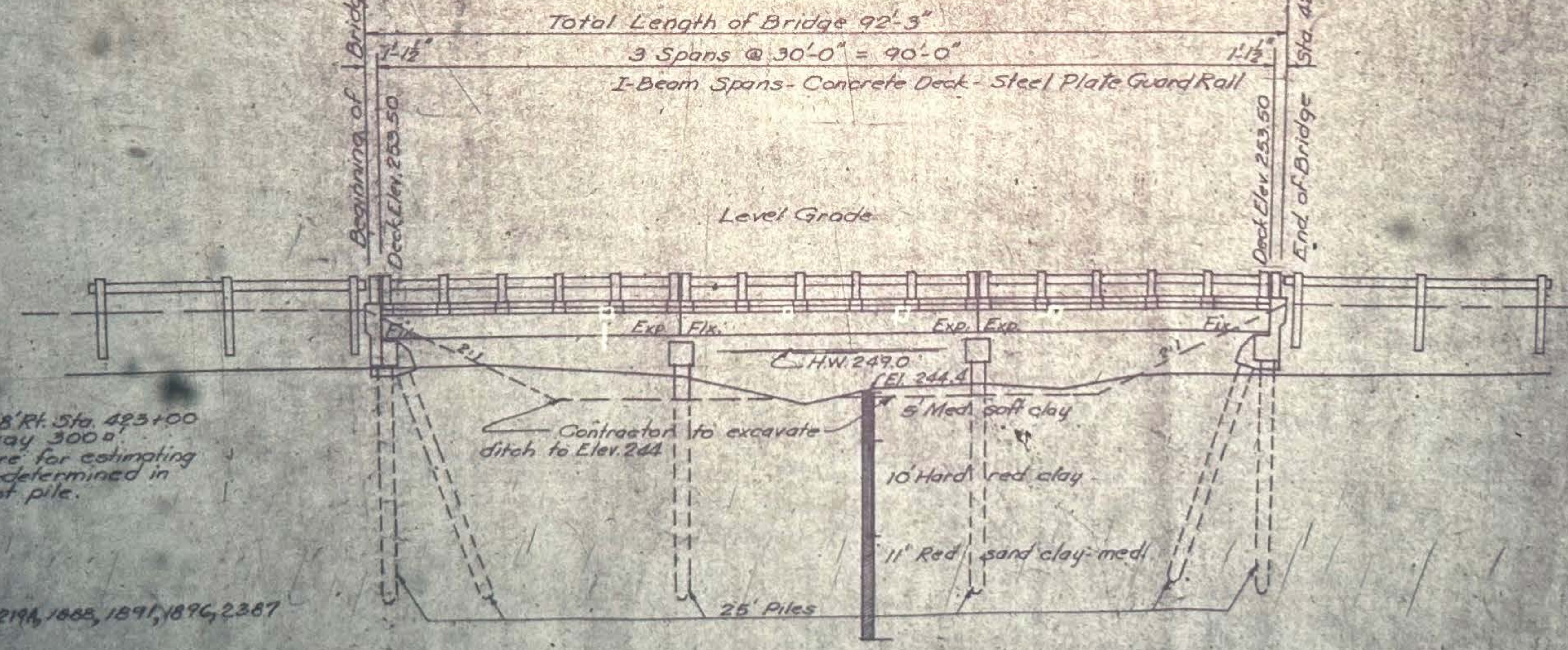
N.B. Garver
PRINCIPAL HIGHWAY ENGINEER (IMMEDIATE)



PLAN

SUMMARY OF BRIDGE QUANTITIES (CODE)

Item No.	Item	Unit	Quantity	Remarks
103	Dry Excavation For Structures	Cu.Yd.	10	
SP802	Class S Concrete For Bridges	Cu.Yd.	21.82	10.54
803	Reinforcing Steel	Lb.	3,044	1,880
SP804	Concrete Piling	Lin.Ft.	350	200
SP805-3	Steel Plate Guard Rail	Lin.Ft.	12	
807	Structural Steel in Beam Spans	Lb.	1235	
929	Bridge Name Plates (Type A)	Each	1	



ELEVATION

B.M. Elev. 426.32 Nail in root 30" Red Oak 58' R/L Sta. 423+00
 Drainage Area 6 Sq. Miles, C=0.6 Reg. Waterway 3000'
 Length of precast concrete piles shown are for estimating
 purposes only. Actual required lengths to be determined in
 the field. Drive one pile in Bent No. 2 as a test pile.
 Loading - N15
 Stresses -
 Structural Steel 18,000 #/sq.
 Reinforcing Steel 18,000 #/sq.
 Concrete 1,000 #/sq.
 For details see Drawgs. No. 5218, 5219, 5219A, 1885, 1891, 1896, 2387

Revised 3/1/50

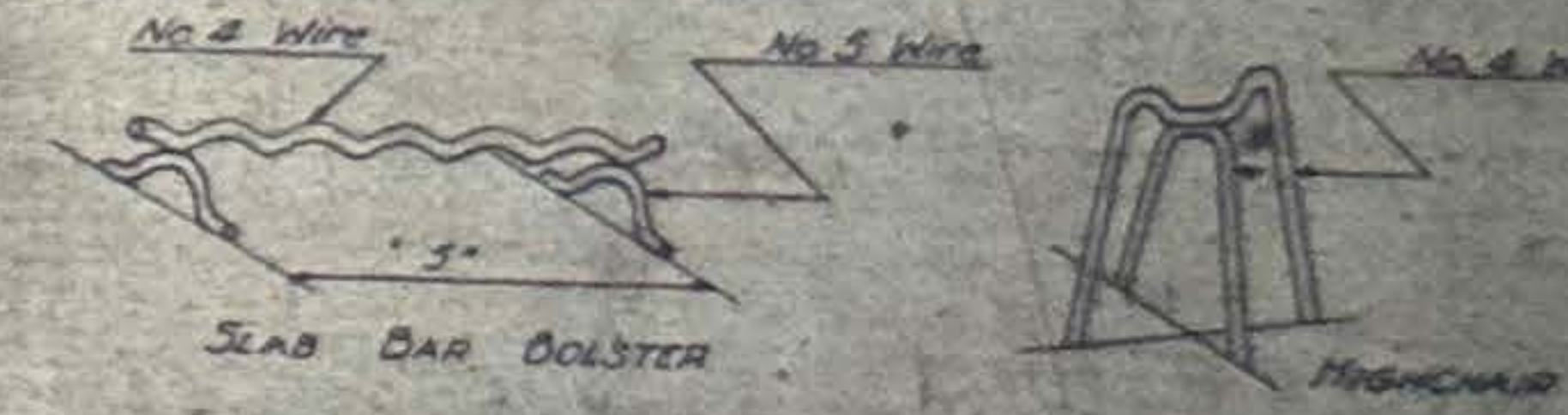
LAYOUT OF
 BRIDGE OVER DOOLEY CREEK
 LOUISIANA LINE - LEWISVILLE
 LAFAYETTE COUNTY
 ROUTE 29 SEC. 1
 ARKANSAS STATE HIGHWAY
 LITTLE ROCK, ARK.
 Drawn By J.C. Date 2-2-49
 Printed By J.C. Date 2-2-49
 Checked By J.C. Date 2-2-49
 BRIDGE NO. 2450 DRAWING

LOADING H-15
 Load Distribution Outside Beams
 Dead Load Per Foot = 975
 Live Load Per Foot = 104
 Conc. Live Load = 1500
 Load Distribution Inside Beams
 Dead Load Per Foot = 630
 Live Load Per Foot = 630
 Conc. Live Load = 1425
 Truck Live Load = 11 Wheel

STRESSES
 Structural Steel = 18,000 psi
 Reinforcing Steel = 18,000 psi
 Concrete (1-10) = 1000 psi

GENERAL NOTES

All concrete to be Class "A" with specified strength to have 2" clear cover over reinforcement.
 Rivets 3/4" open holes 1/2" where bolts are indicated use machine bolts.
 Structural 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 better.
 All welded connections to be full fillet shop welds except as noted.
 Shop Rivets: All structural steel shop surfaces in contact with concrete shall be given one coat of red lead and two coats of zinc primer before shipment.
 Field Rivets: First white lead primer with zinc dust, second coat aluminum.
 All bearing and roadway expansion devices to be used for 4" structural steel in beam spans.
 Weight of C.I. Beams to be included in weight of Reinforcing Steel.
 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 must be made in accordance with the Specifications, submitted and approved before fabrication is begun.
 In order to secure a good riding surface it will be required that finished slab be struck off from curb to curb with a half span length longitudinal straightedge. 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.



All reinforcing steel shall be accurately located in the forms and properly held in place by means of steel chairs or 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 strong to properly carry the steel they support. Wire spacers shall not be less than shown.
 Wire supports will not be used for directly but will be considered subsidiary to the list of Reinforcing Steel. Shop lists and drawings must be submitted for approval.

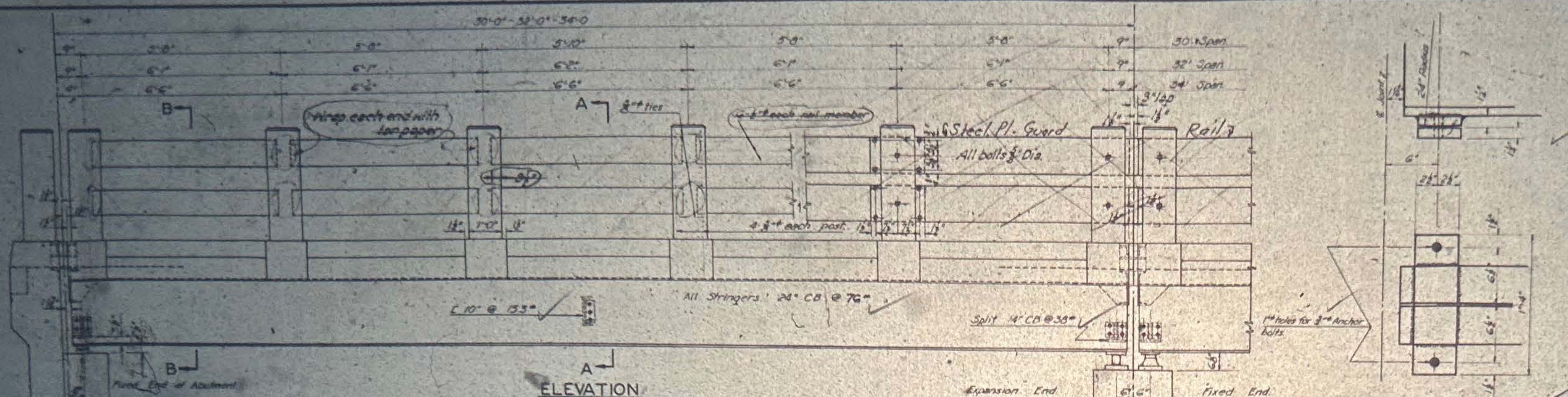
LIST OF BENT BARS

Mark	Size	Length	Bending Diagram
S1	3/4"	25'-9"	
S2	3/4"	26'-0"	
S3	3/4"	26'-0"	
S4	3/4"	26'-0"	
S5	3/4"	26'-0"	
S6	3/4"	26'-0"	
S7	3/4"	26'-0"	
S8	3/4"	26'-0"	

Revised 8-14-48 Handrail, Curb brackets
 Revised 12-9-46 Bars S1 & S3
 2-28-47 Wt of 24" CB
 4-5-47 Slabbed Bolts
 7-20-48 Handrail (Notes Details corrected)
 do not apply after this revision date
 See 7100 11/11/47 11-57-48

DETAILS OF STANDARD 30'-32'-34' I-BEAM SPAN 24'-0" CLEAR ROADWAY 1'-6" WALKWAY

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: J. H. Smith Date: 2-30-44
 Traced By: J. H. Smith Date: 3-30-44
 Checked By: J. H. Smith Date: 3-30-44

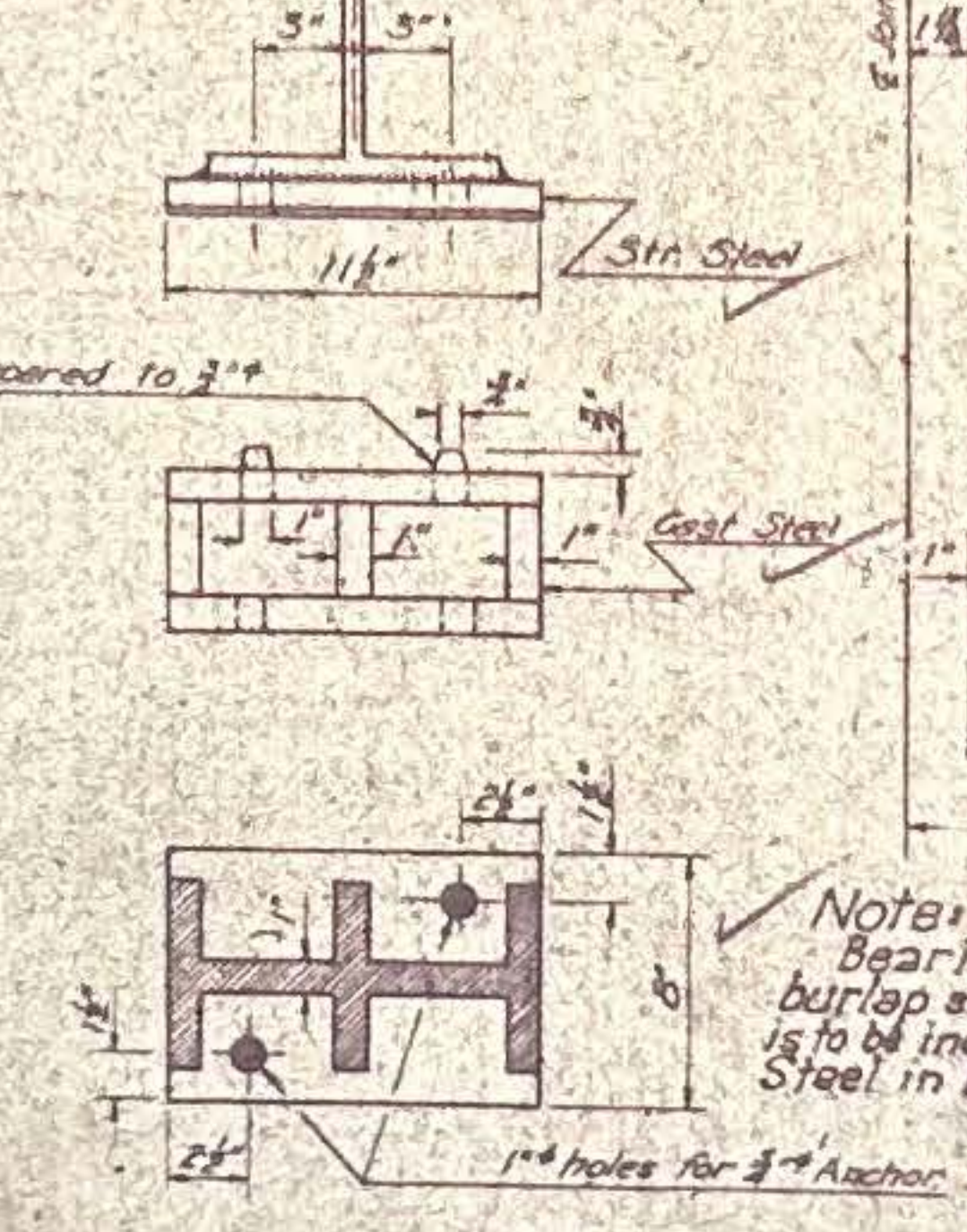


PLATES AT ABUTMENT

Scale 1/4" = 1'-0"

SWEDGED ANCHOR BOLT

Scale 1/4" = 1'-0"

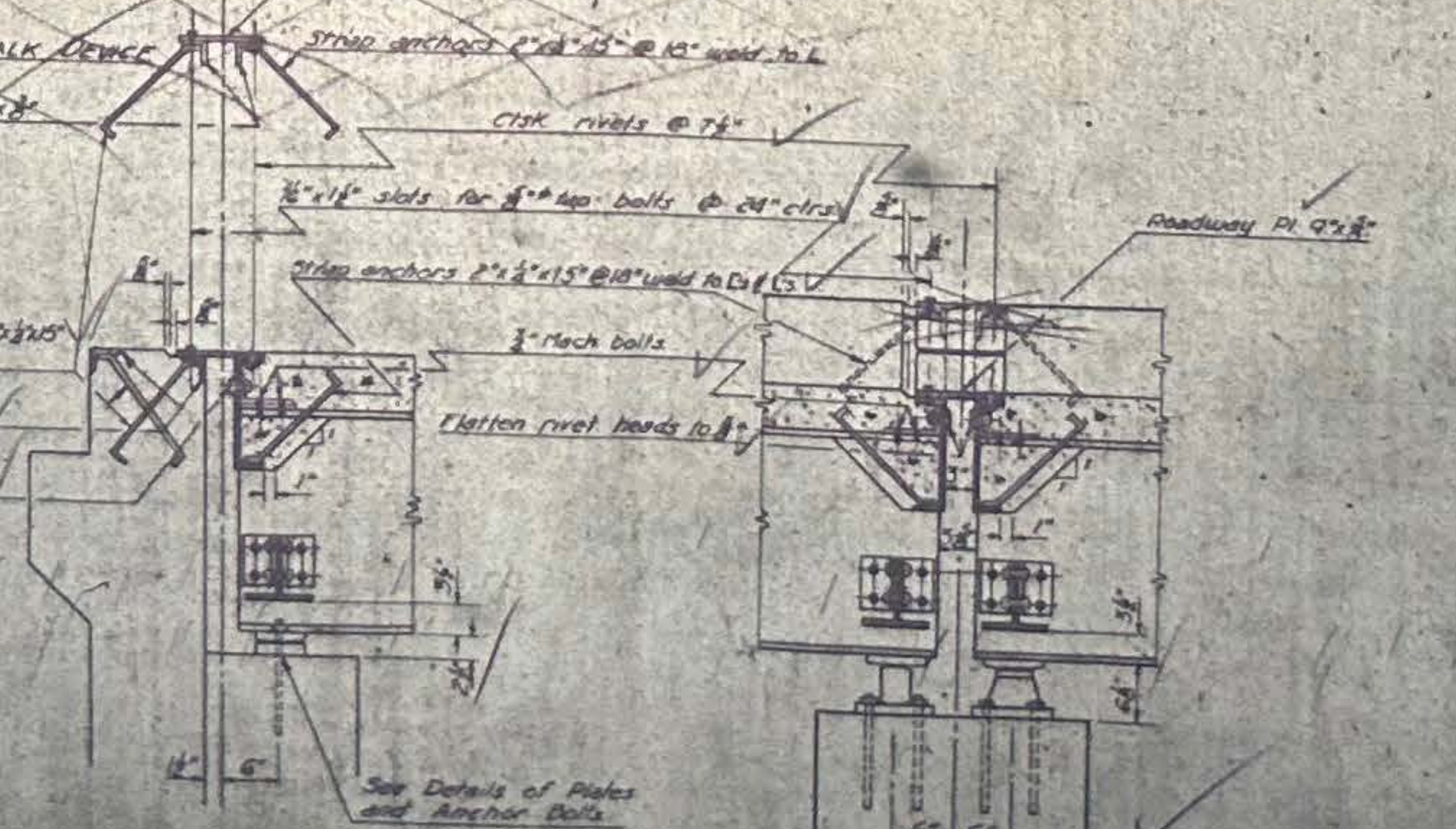


FIXED SHOE

EXPANSION SHOE

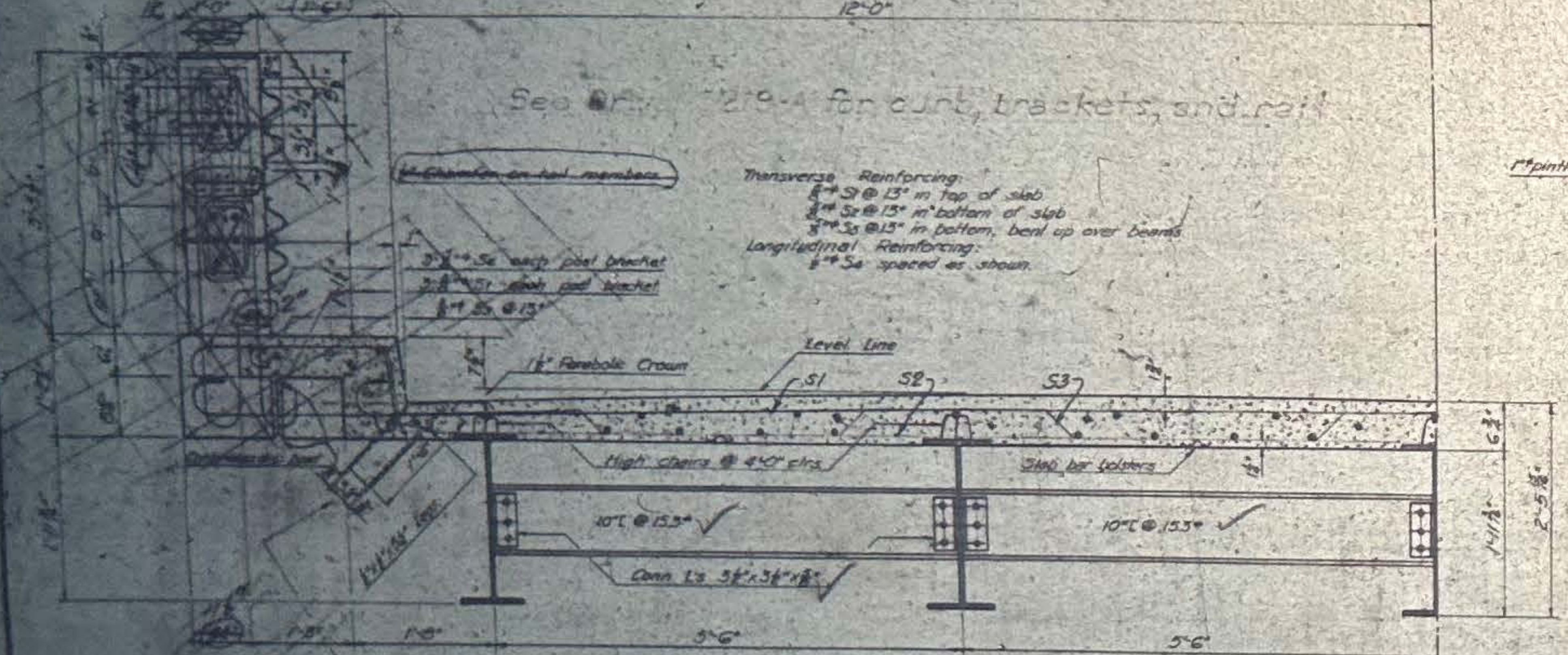
DETAILS OF BEARINGS

Scale 1/4" = 1'-0"

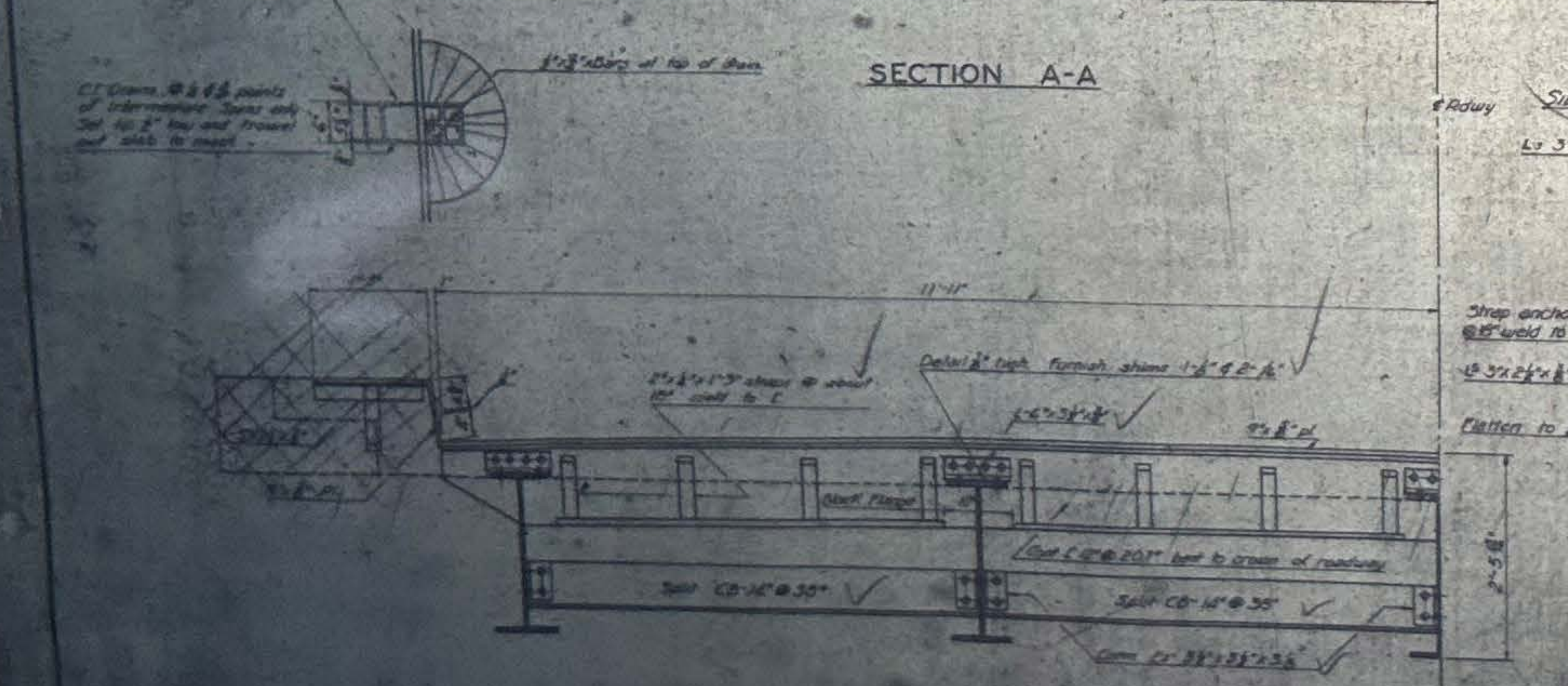


JOINT AT ABUTMENT

JOINT AT INTERMEDIATE BENT



SECTION A-A



SECTION B-B