230

FISCAL YEAR	JOB NO.	SHEET No.	TOTAL SHEETS
1929	307	1	9

PREP. BRIDGE DESIGN SECTION, DRAWN

STATE OF ARKANSAS

STATE HIGHWAY DEPARTMENT

PLAN OF PROPOSED BRIDGES
OVER
SALINE RIVER
SEVIER AND HOWARD COUNTY

ROUTE 24 SEC. 1 & 2

JOB Nº 307

FEDERAL AID PROJECT No.

INDEX OF SHEETS

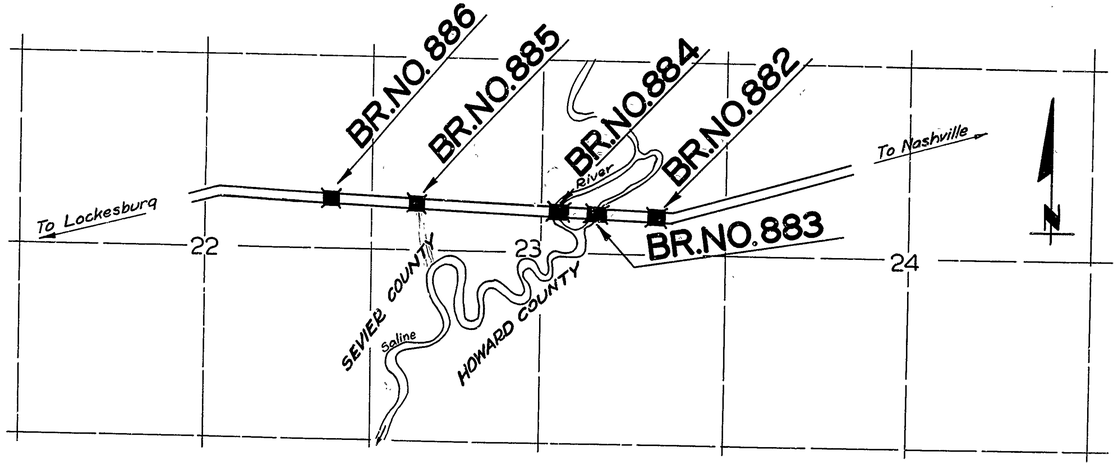
Specifications approved by Chief, Bureau of Public Roads, September 28, 1935, and adopted by State Highway Commission May 30, 1945, with approved revisions and Special Provisions as follows:

SPECIAL PROVISIONS

Precast Concrete Piling Supplementing Sec. 68 2 Sheets

QUANTITIES

Item. Nº 13	Dry Excavation	215 c.y.
" " 13	Wet "	248 " "
" " 54	Class "S" Concrete	852.71 " "
" " 54	" "A" "	141.72 " "
" " 55	Reinforcing Steel	209,461 lbs.
" " 56	Structural steel (trusses)	111,365 lbs.
" " 68	Precast concrete piling	2,448 lin ft.
" " 69	Rip Rap	1580 sq yds
" " 74	Concrete Railing	1477.68 lin ft.



LAYOUT
Scale: 1" = 1000'

GROSS LENGTH OF PROJECT 827'-2" = 0.157 Mi
NET LENGTH OF PROJECT " " = " "

APPROVED
[redacted]
COMMISSIONER - STATE LANDS, HIGHWAYS AND IMPROVEMENTS

APPROVED
[redacted]
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL
[redacted]
DISTRICT ENGINEER - U. S. BUREAU OF PUBLIC ROADS

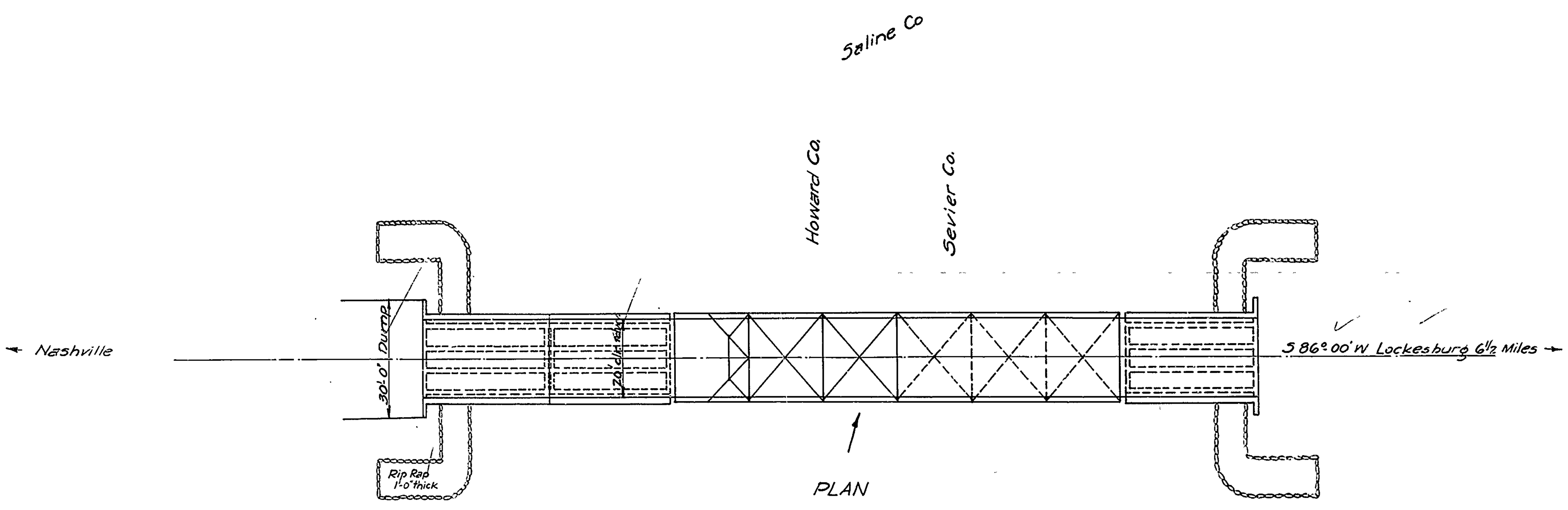
RECOMMENDED FOR APPROVAL
[redacted]
CHIEF ENGINEER - U. S. BUREAU OF PUBLIC ROADS

APPROVED
[redacted]
DIRECTOR - U. S. BUREAU OF PUBLIC ROADS

W B Garver
BRIDGE ENGINEER

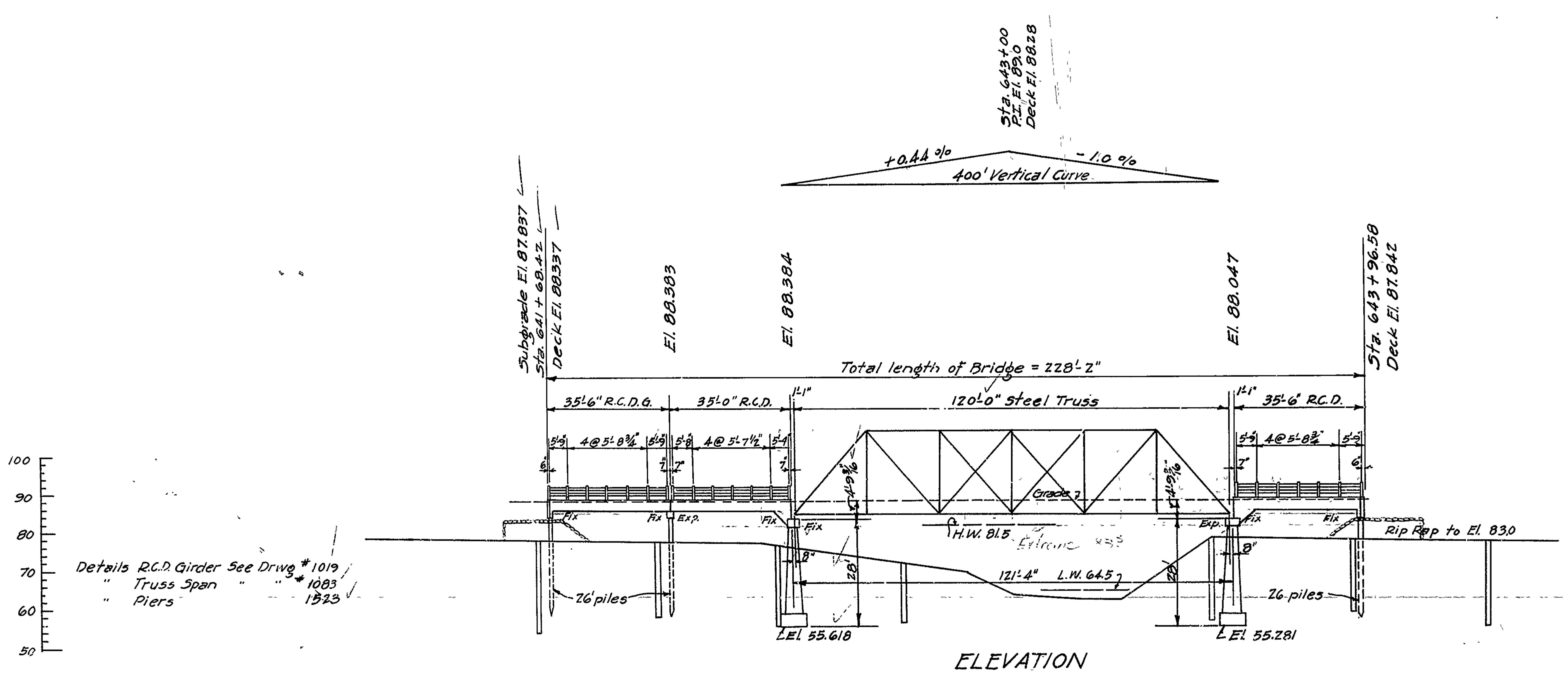
BRIDGE No. 882-886 DRAWING No. 1519

FISCAL YEAR	Job No	SHEET No.	TOTAL SHEETS
1929	307	4	9



Quantities

Item No	13	Dry Excavation	215 c.y.
" "	13	Wet "	248 " "
" "	54	Class "S" Concrete	188.26 " "
" "	54	" "A" "	141.72 " "
" "	56	Structural Steel (trusses)	111,365 lbs.
" "	68	Precast Concrete piling	312 lin. ft.
" "	69	Rip Rap	220 sq. yds
" "	74	Concrete Railing	225 lin. ft.



B.M. # 36-A Elev. 79.24 nail in root 36" Sycamore 100' Rt. Sta. 641+60

Lengths of piling shown are assumed for Estimating Quantities only. Actual lengths to be determined in the field.

Test Hole
Sta. 641+65
Gr. El. 77.8
Sandy Soil 1.0'
Coarse White Sand 3.0'
Blue Sand 1.8'
Fine Gravel & bl. sand 2.0'
Tight gravel cemented 2.0'
" " 3.2'

Test Hole
Sta. 642+00
Gr. El. 77.0
Sandy Soil 12.0
Coarse Sand 1.0
Gravel & Sand 2.5
Very tight gravel probably cemented 4.0'

Test Hole
Sta. 642+35
Gr. El. 77.0
Sand Soil 9.5
Coarse Red Sand 2.0
" " " + fine gravel 3.0
Coarse gravel & Sand 0.5
Tight gravel 5.5

Test Hole
Sta. 642+70
Gr. El. 71.0
Sandy Soil 6.0
Sand 1.0
Sand & gravel 2.0
Tight gravel 1.0
Very tight gravel probably cemented 5.0

Test Hole
Sta. 643+60
Gr. El. 78.4
Sandy clay soil 4.4
Tough sandy clay 12.5
Sand & gravel 3.5
tight gravel 5.5

Test Hole
Sta. 643+95
Gr. El. 77.6
Sandy Clay soil 3.6
tough sand clay 9.4
Blue Sand 6.0
Sand & fine gravel 1.0'
Gravel 2.6
Very tight gravel 1.4

Test Hole
Sta. 644+30
Gr. El. 77.8
Sandy clay Soil 3.3
Tough sandy clay 14.7
Sand & gravel 1.0
Tight gravel 4.3

N.B. Garver
BRIDGE ENGINEER

LAYOUT
BRIDGE OVER SALINE RIVER
NASHVILLE LOCKESBURG ROAD
HOWARD & SEVIER CO'S.
ROUTE 24 SEC. 1 & 2

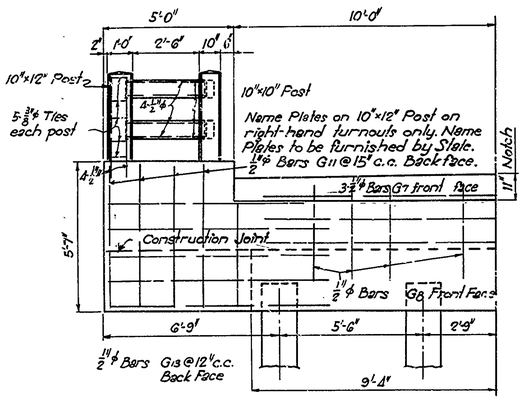
ARKANSAS STATE HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

Drawn By: F.P.B. Date: 4-9-29
Traced By: F.McG. Date: 4-12-29
Checked By: ______ Date: ____
Scale: 1 in. = 20 ft.

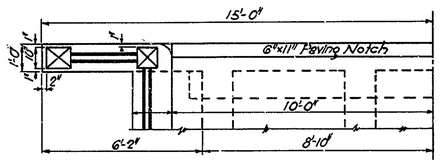
BRIDGE NO. 884 DRAWING NO. 1522

Std. 35' R.C. D.G. Girder Conc. Pile Bents Dr. 1019

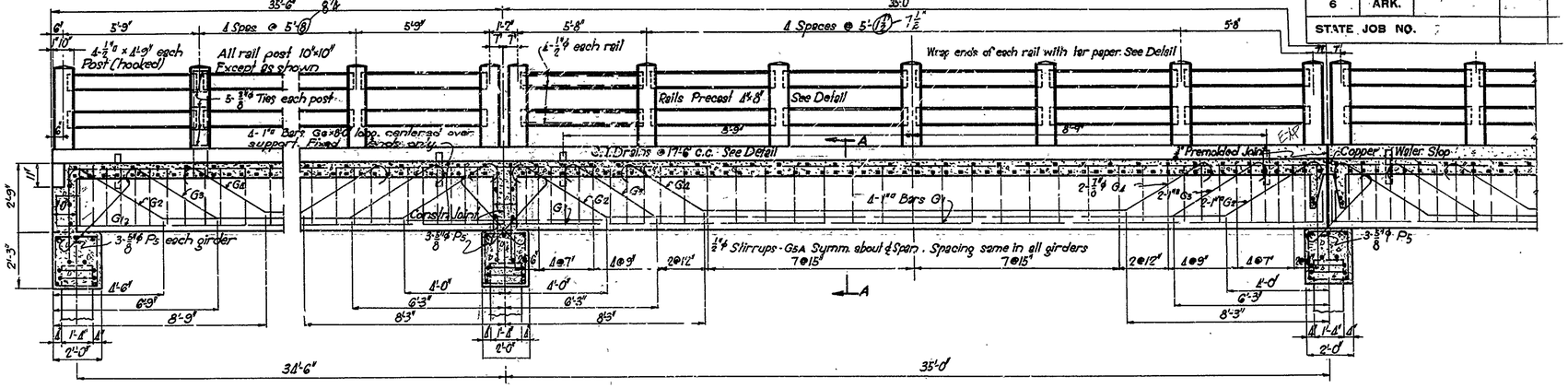
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.				
STATE JOB NO.					



BACK FACE OF END BENT



HALF PLAN OF END BENT

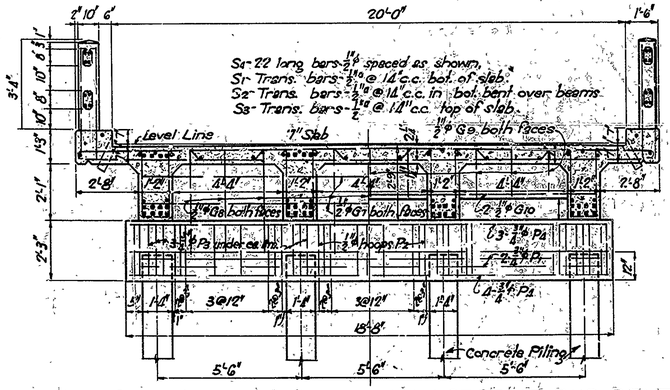


END BENT — INT. BENT (FIXED) — INT. BENT (EXPANSION)

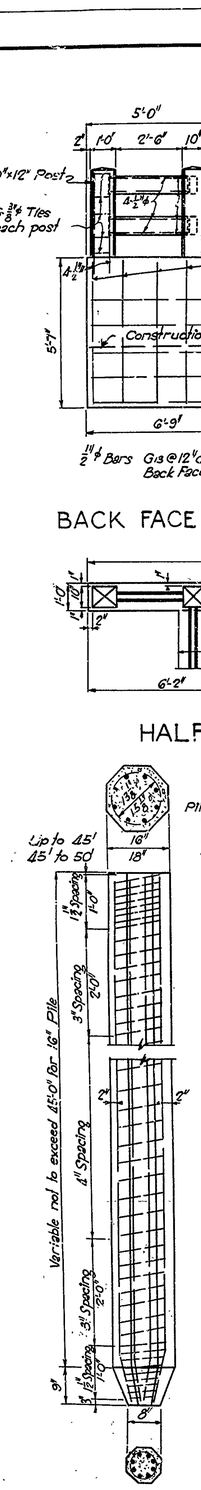
LONGITUDINAL SECTION

See "Layout Sheet" for location of exp. joints.

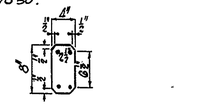
4-1" ϕ Ga × 8'-0" lg. over supports in top and bottom, at Fixed Ends only.



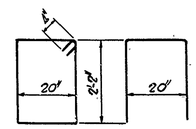
HALF SECT. AT FIXED BENTS HALF SECT. AT EXP. BENTS



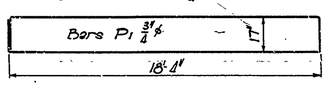
DETAIL OF CONCRETE PILE



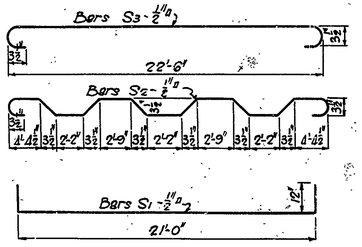
SECTION OF RAIL



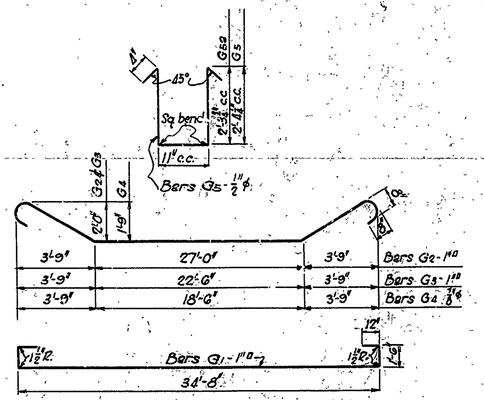
BARS P2 ½" ϕ BARS P3 - ⅜" ϕ



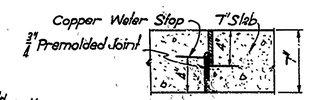
CAP STEEL

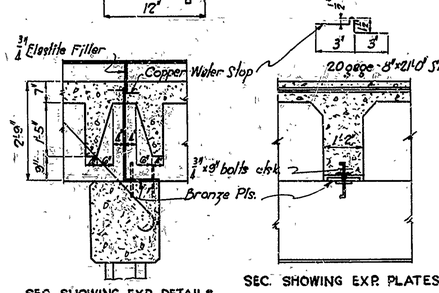


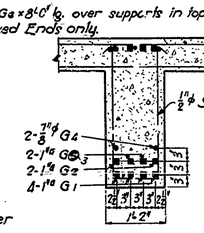
SLAB STEEL

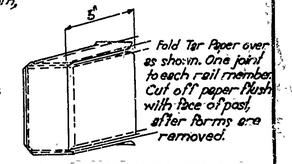


GIRDER STEEL

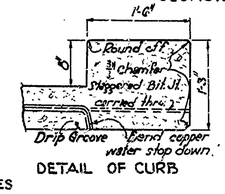




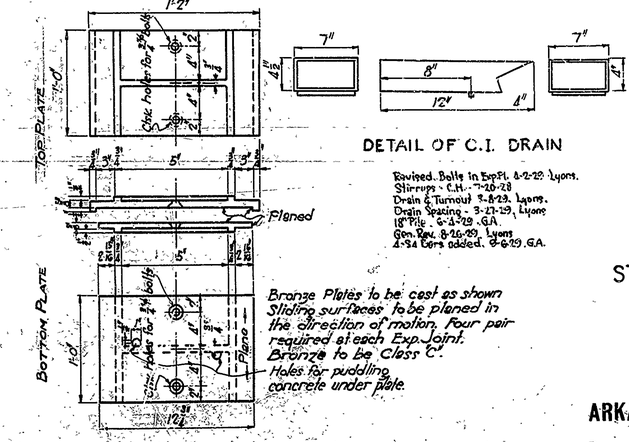




DETAIL OF EXPANSION JOINT FOR RAIL MEMBER



DETAIL OF CURB



EXPANSION PLATES

Sliding surfaces to be coated with graphite grease.

DETAIL OF C.I. DRAIN

Revised. Bolts in Exp. Pl. 8-2-29. Lyons.
Stirrups - G4 - 7-10-28
Drain & Turnout 3-8-29. Lyons.
Drain Spacing - 3-27-29. Lyons
18" Pile - 6-4-29. G.A.
Gen. Rev. 8-26-29. Lyons
4-G4 Bars added. 6-6-29. G.A.

Revised: 4-G6 Bars added to bottom of Girders. Exp. Plate bolts changed. 9/23/29 G.A.
General Rev. 4-10-30. F.P.B.

GENERAL NOTES

All exposed corners to have ¾" chamfer unless otherwise noted.

Precast Concrete Handrails to be 1-1-2 mix. Maximum aggregate ⅝".

Concrete piling to be Class 'S', and to have a minimum capacity of 30 Tons each.

Reinforcing Steel to be deformed bars of Structural or Intermediate Grade. Shop list and bending diagrams of steel must be submitted by Contractor before fabrication is begun.

Roadway Drains and Expansion Devices to be paid for at the unit price bid for Reinforcing Steel.

All concrete except handrails to be Class 'S'.

All concrete to be poured in the dry.

Payment for reinforcement in concrete Piling shall be included in the price bid for Piling.

Specifications: Arkansas Standard Road and Bridge Specifications adopted May 30th. 1925, and revised.

DETAILS
STANDARD 35' R.C. DECK GIRDER
AND
CONCRETE PILE BENTS

20'-0" ROADWAY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: H.F.B. Date: 6-16-28
Re-Traced By: B.W.D. Date: 11-16-37
Checked By: Date:

Scale: ⅜ in. = 1 ft.

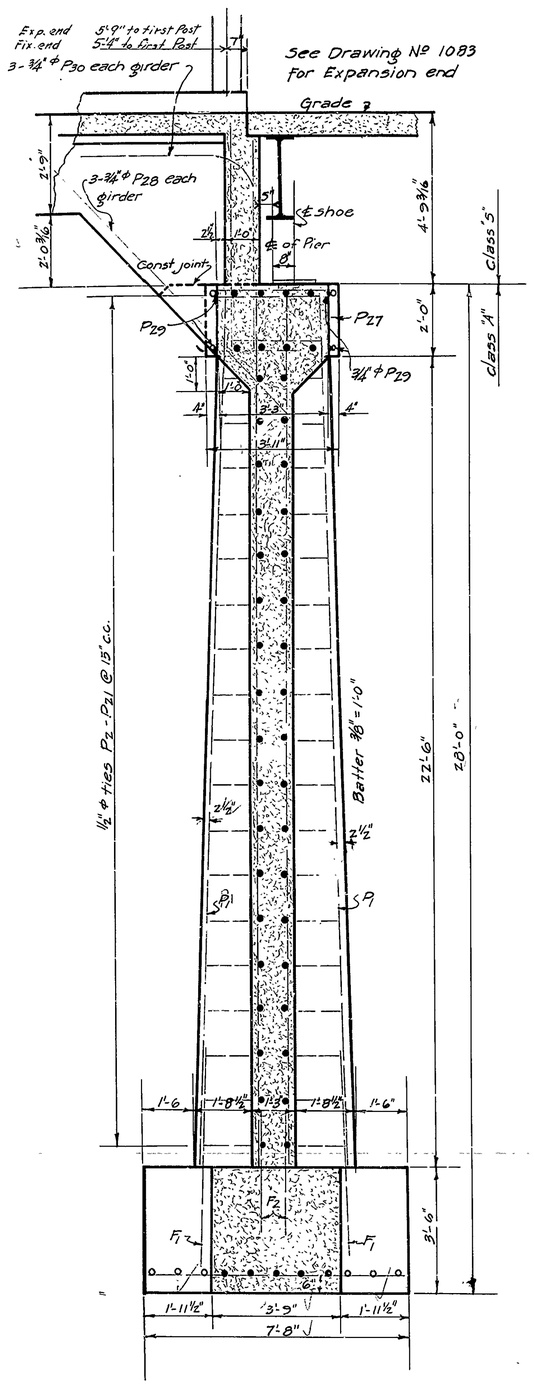
M.B. Garner
BRIDGE ENGINEER

BRIDGE NO.

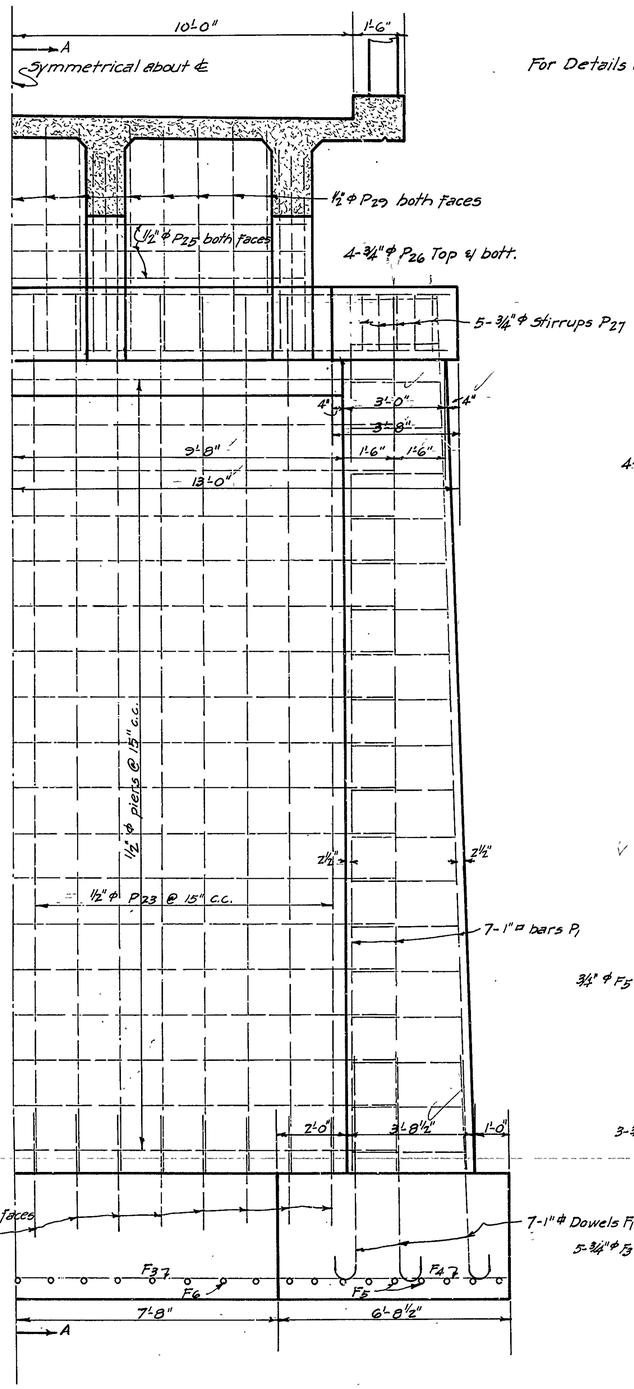
DRAWING NO. 1019

234

DEPT. PIERS FOR SALINE R. BR. NASHVILLE-LOCKESBURG RD.			
Fiscal YEAR	Job No	SHEET No	Total SHEETS
1929	307	5	9

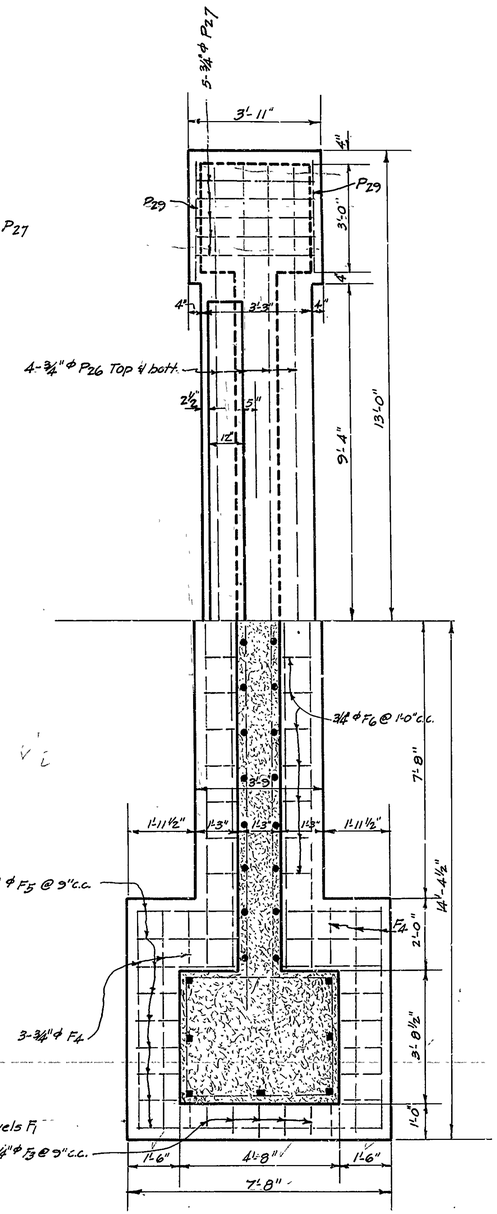


SECTION A-A



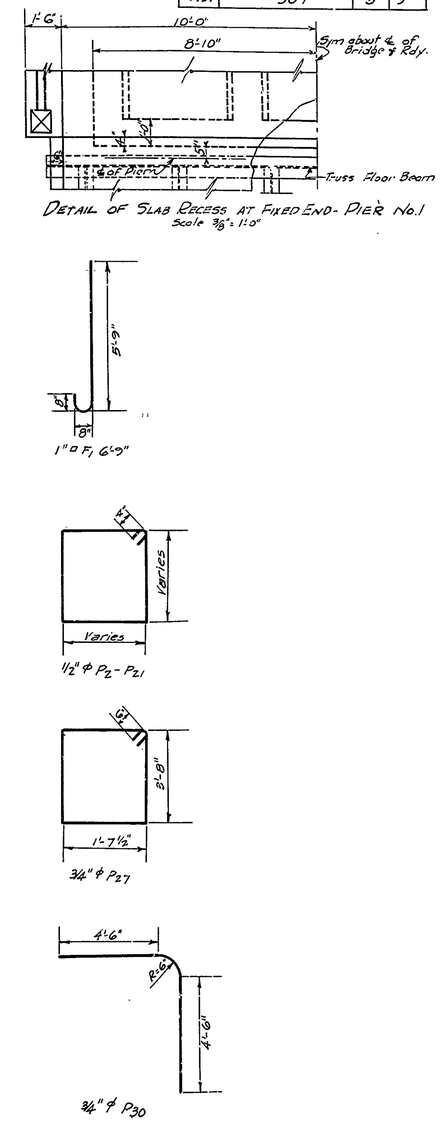
HALF ELEVATION

For Details of Superstructure see Drwg. No 1083 & 1019



HALF PLAN OF CAP

HALF FOOTING PLAN



Revised slab details-fixed end
F.P.B. 4-23-29

DETAILS
PIERS FOR SALINE RIVER BR.
NASHVILLE LOCKESBURG ROAD
HOWARD-SEVIER CO.
ROUTE 24 SEC. 1 & 2

ARKANSAS STATE HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

Drawn by: F.P.B. Date 4/11/29
Traced by: E.M.S.G. Date 4/13/29
Checked by Date
Bridge No 884

Scale ½" = 1'-0 Ft.
Drwg No 1523

M.B. Garner
Bridge Engineer