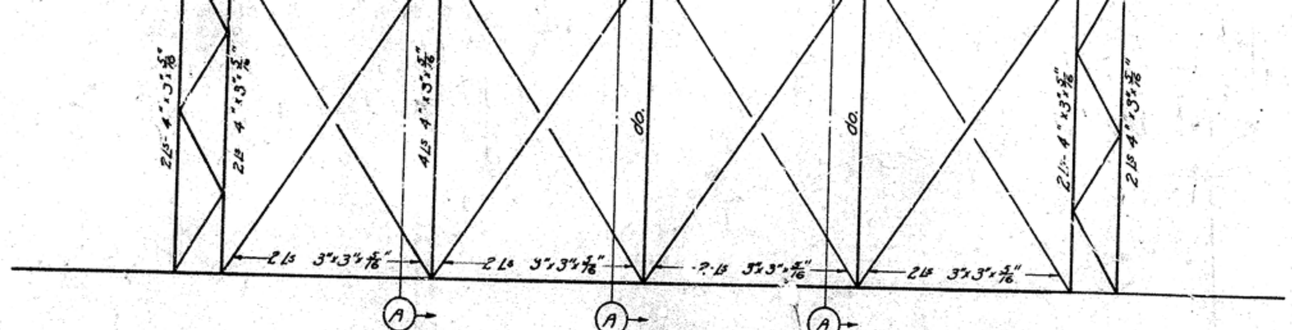
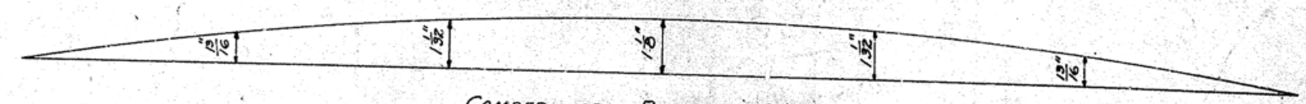
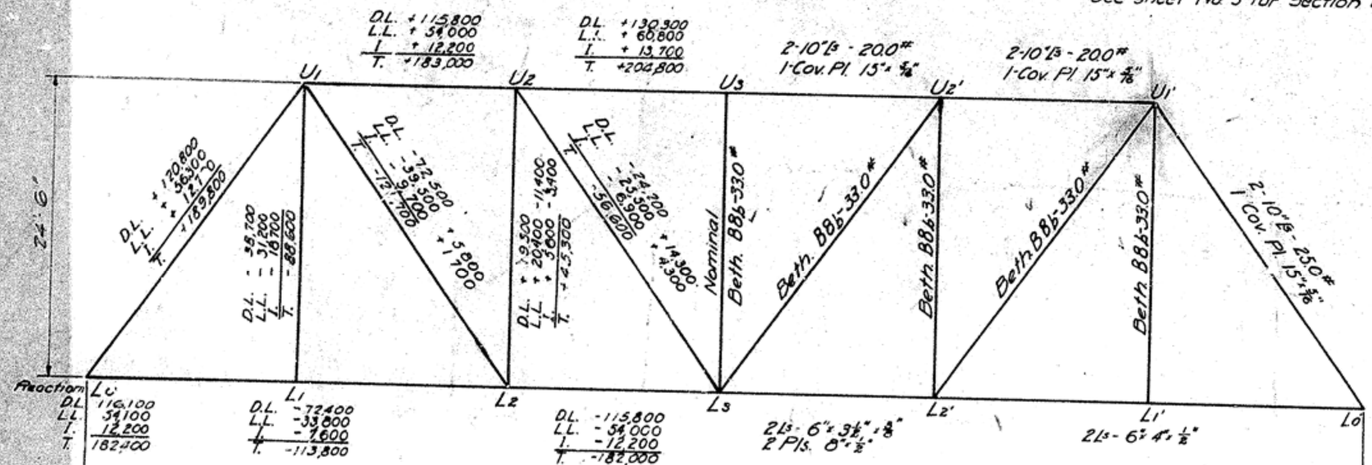


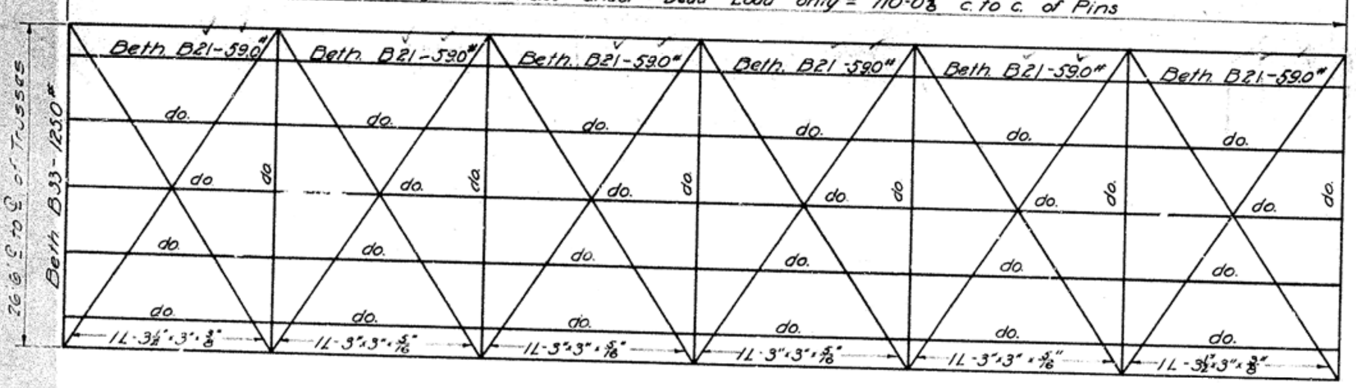
PORTALS AND TOP LATERALS

NOTE:
See sheet No 3 for Section A-A



CAMBER OR BLOCKING DIAGRAM





BOTTOM LATERALS AND FLOOR SYSTEM

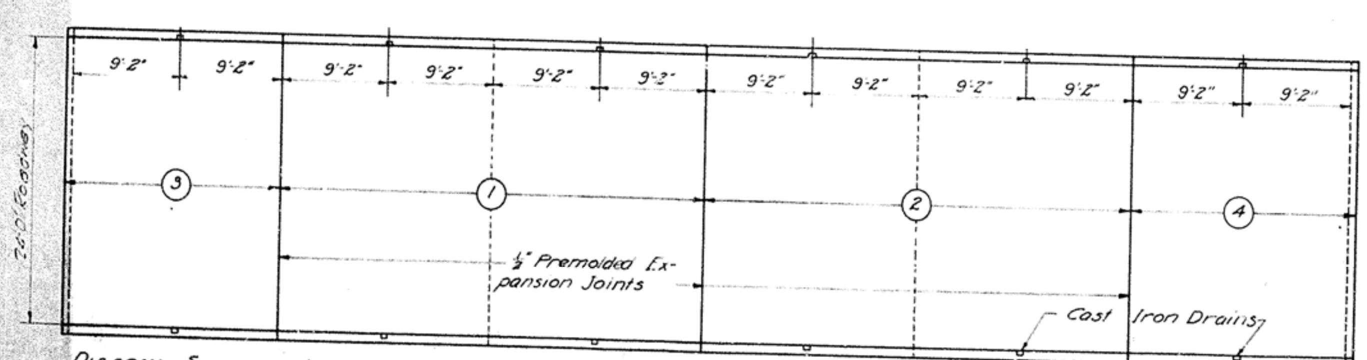
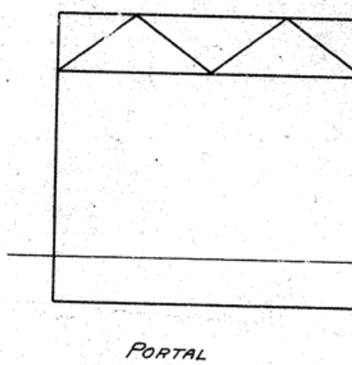
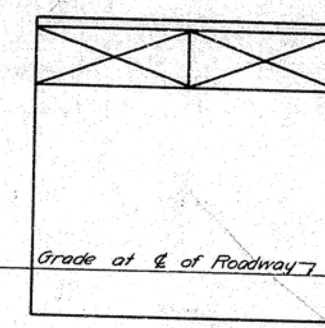


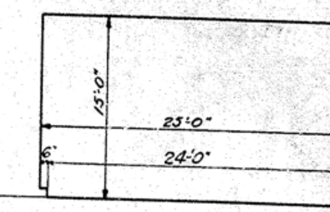
DIAGRAM SHOWING LOCATION OF EXPANSION JOINTS AND CAST IRON DRAINS IN CONCRETE FLOOR
Sections of concrete floor to be placed in the order shown working from the center toward the ends of the span
Section 2 may be placed before Section 1, and Section 4 may be placed before Section 3.



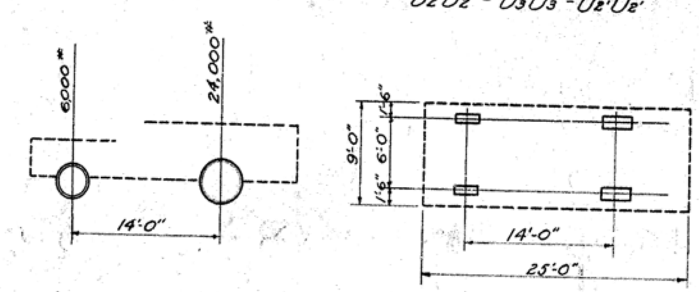
PORTAL



TOP STRUT & SWAY BRACING
U_2U_2 - U_3U_3 - $U_2'U_2'$



CLEARANCE DIAGRAM



TYPICAL 15 TON TRUCK

ASSUMED LOADING

DEAD LOAD:- 4220 lbs per lin. ft. of span including an allowance of 15 lbs. per sq. ft. of roadway for future surfacing.

LIVE LOAD:- 1968 lbs. per lin. ft. of span or 82 lbs. per sq. ft. of roadway for span fully loaded.

IMPACT:- $\frac{L+230}{10L+300}$, where L = loaded length; except as provided in specifications.

GENERAL NOTE

SPECIFICATIONS:- State Highway Department of Kentucky, 1932, with amendments.

LOADING:- Loading H-13. 15 Ton Trucks. Two lanes of traffic.

CONCRETE:- Class "A" in floor slab and curbs.

WEARING SURFACE:- Top of concrete slab to be finished in accordance with specifications for "Monolithic Wearing Surface."

RIVETS:- 3/4" except as noted - to be countersunk, flattened, or chipped as may be required for clearance.

EXPANSION ANGLES:- Contractor shall immediately prepare detailed shop drawings of expansion angles for substructure or approaches and submit same to Commission for approval.

ALTERNATE SECTIONS:- Alternate sections shown on Sheet No 2 may be used but no allowance will be made for weights in excess of those shown for individual members on Sheet No. 1. Alternate sections if used must be shown on approved detailed shop drawings.

PAINTING:- Materials and workmanship for one shop and two field coats to be in accordance with specifications.

ESTIMATE OF QUANTITIES
[For One Span Only]

Structural Steel	144900	Lbs.
Cast Steel	2,300	Lbs.
Forged Steel	300	Lbs.
Cast Iron Drains	700	Lbs.
Total Weight	148200	Lbs.
Concrete, Class "A"	71.9	Cu. Yds.
Steel Reinforcement	16,560	Lbs.

S-86
S-47

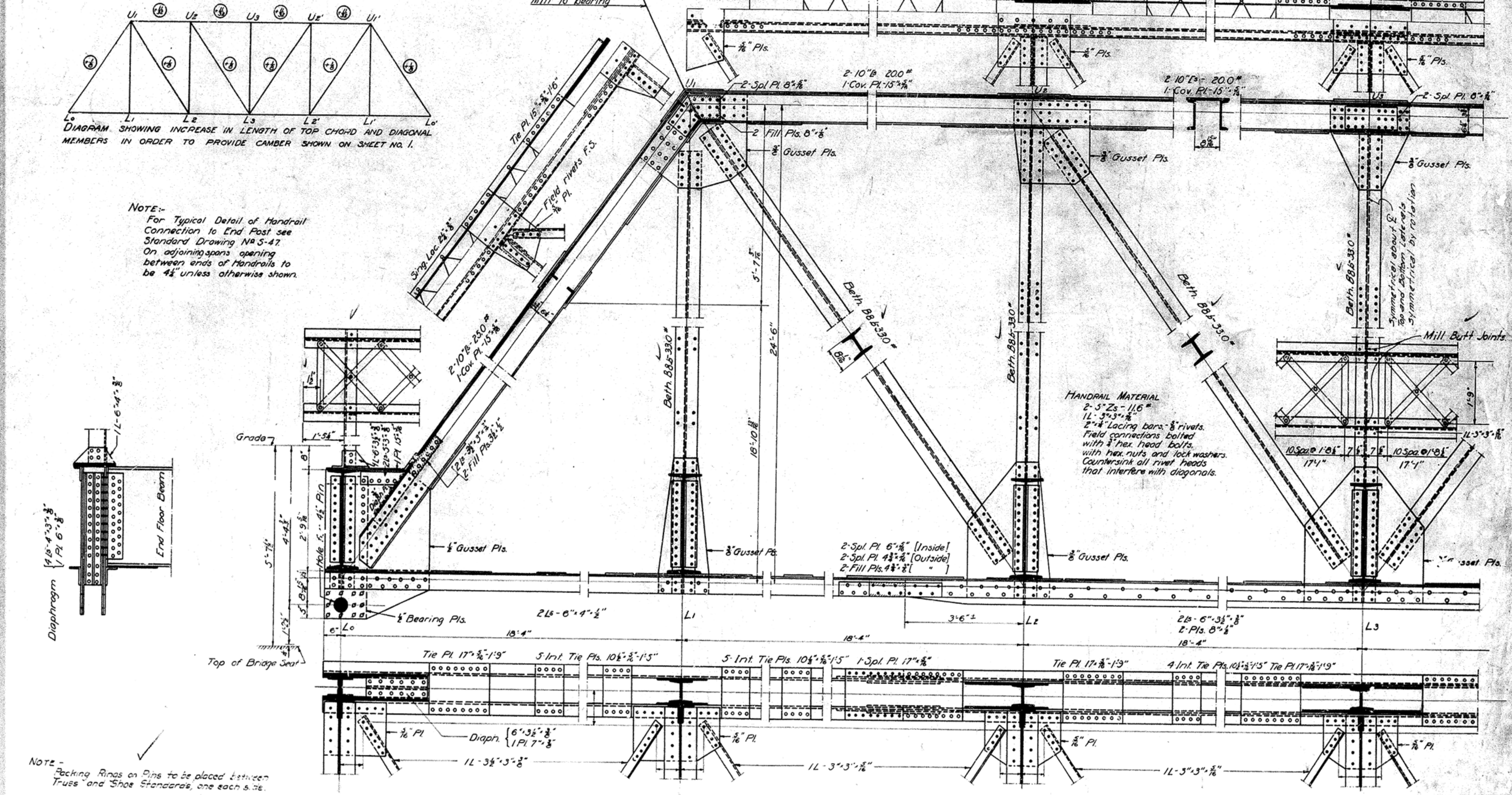
COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
FRANKFORT

STANDARD STEEL SPAN
110'-0" SPAN —— 24'-0" ROADWAY
THRU TRUSS
SHEET NO. 1 OF 4

SUBMITTED BY ______ BRIDGE ENGR.
APPROVED BY ______ STATE HIGHWAY ENGR.
DRAWING S-76 S-2

DESIGNED BY P.D. Gillham	DATE 11-29	DETAILED BY S.A. Mory	DATE 11-29
TRACED BY T.L. Hughston	DATE 3-30	REVISED P.D.G. & J.S.B.	DATE 6-25-32
CHECKED BY Mory & P.D.G.	DATE 4-30	REVISED Ref 6-86 instead of 9-45 T.E.E.	DATE 10-10-33
		REVISED Sections, Weights, Expansion Devices and Notes by R.A.A. & J.S.B.	DATE 6-34

BRIDGE



NOTE:- Rivets in top and bottom chord splices may be changed from field to shop rivets or vice versa if more convenient for erection.

ALTERNATE SECTIONS	
STRINGERS	CARNEGIE CB 211-59.0# FOR BETH. B21-59.0#
POSTS & DIAGONALS	CARNEGIE CB 83-33.0# FOR BETH. B8B-33.0#
FLOOR BEAMS	CARNEGIE CB 331N-125.0# FOR BETH. B33-125.0#

NOTE:- The above alternate sections will be allowed for all of the stringers or for all of the posts and diagonals or for all of the floor beams or for all of these items.

DESIGNED BY P.D. Gillham	DATE 11-29	DETAILED BY S.A. Mory	DATE 11-29
TRACED BY T.L. Hughston	DATE 3-30	REVISED P.D.G. & J.S.B.	DATE 6-1-53
CHECKED BY Mory & P.D.G.	DATE 4-30	REVISED Sections, Weights, Expansion Devices and Notes. by R.B.A. & J.S.B.	DATE 6-34

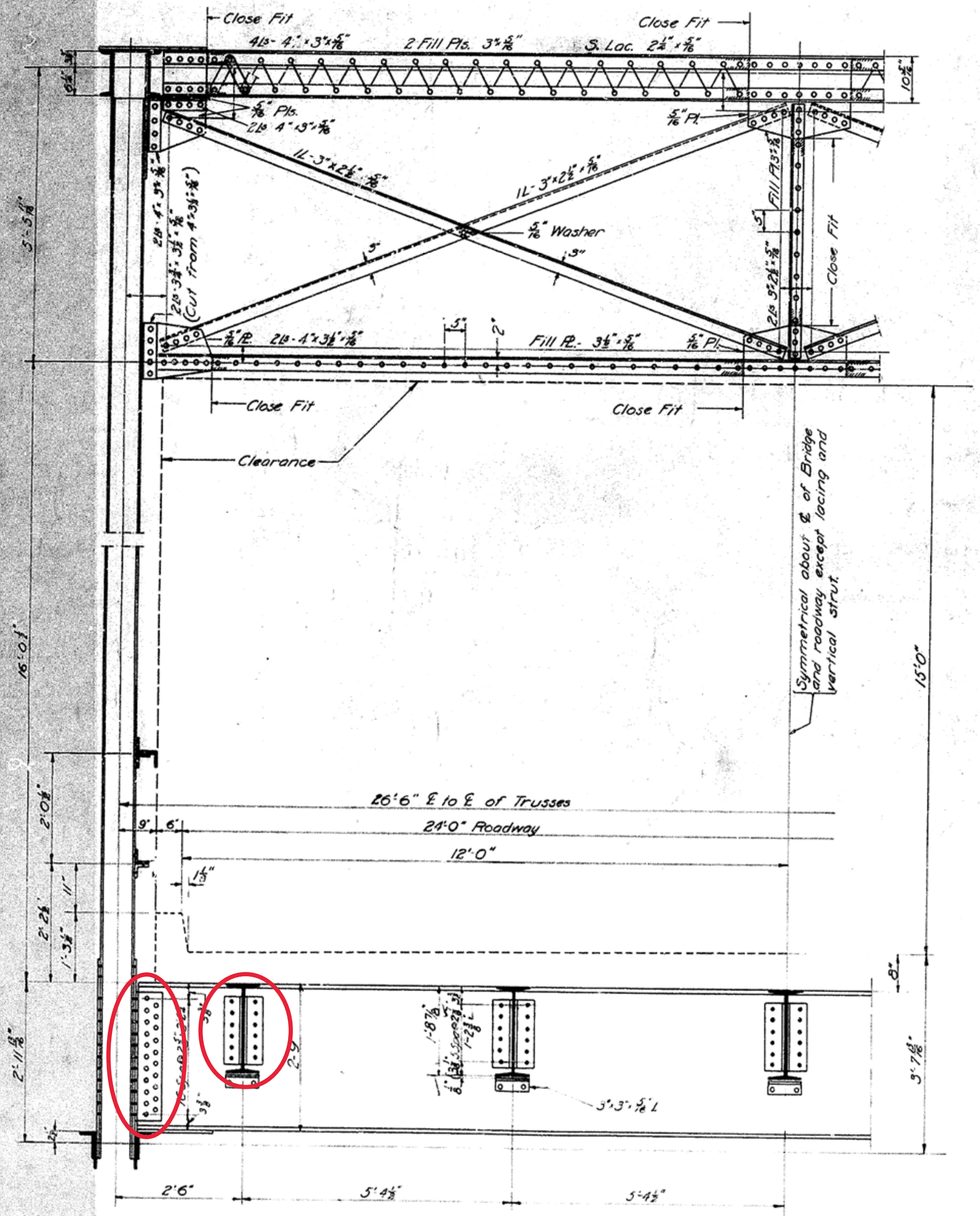
COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
FRANKFORT

STANDARD STEEL SPAN
110'-0" SPAN — 24'-0" ROADWAY
THRU TRUSS

SHEET NO. 2 OF 4

SUBMITTED BY ______ BRIDGE ENGR.
APPROVED BY ______ STATE HIGHWAY ENGR.
DRAWING No. S-76 | S-2

BRIDGE

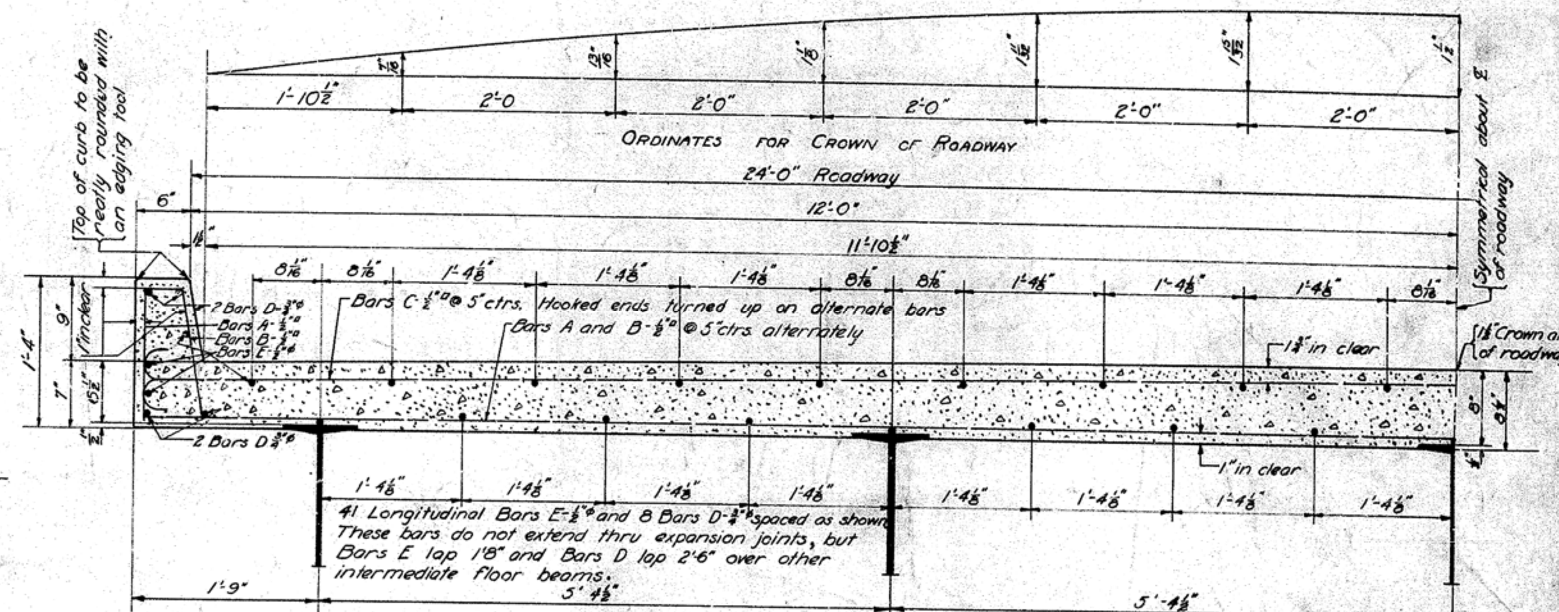


HALF SECTION A-A (See Sheet No. 1)

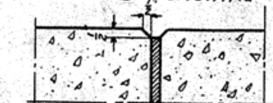
SHOWING DETAILS OF TOP STRUT, SWAY BRACING, AND FLOOR SYSTEM

ALL FLOOR BEAMS - Beth. - B 33 : 125.0# End Conn. Ls - 6" x 4" x ½" - 2'-4½"

ALL STRINGERS - Beth. - B 21 - 59.0# End Conn. Ls - 6" x 4" x ½" - 1'-4½"



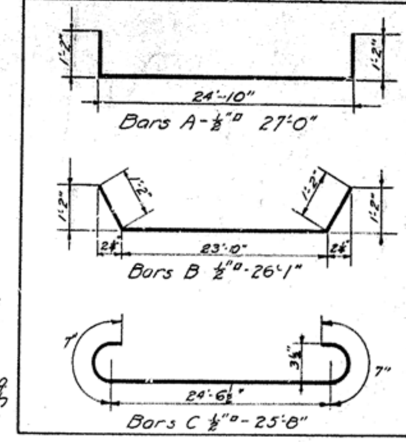
TYPICAL SECTION THRU FLOOR SLAB SHOWING STEEL REINFORCEMENT



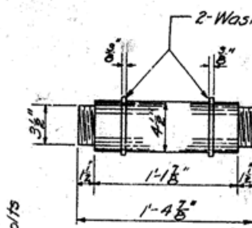
HORIZONTAL SECTION THRU CURB SHOWING BEVEL FOR EXPOSED EDGES AT EXPANSION JOINTS

At top surface of roadway slab on each side of expansion joint use a ½" radius edging tool.

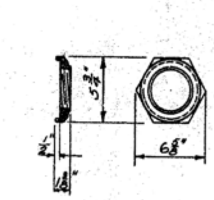
BILL OF STEEL REINFORCEMENT IN FLOOR SLAB AND CURBS						
MARK	NO.	SIZE	LENGTH FT.	LENGTH IN.	TYPE	LOCATION
A	135	½"⌀	27	0	Bent	Bottom of Slab
B	135	"	26	1	"	" "
C	270	"	25	8	"	Top of Slab
D	32	¾"⌀	19	6	Str.	Curb-Sec. 1-2
D	16	"	19	7	"	" " 3-4
E	164	½"⌀	19	1	"	Slab-Sec. 1-2
E	82	"	19	7	"	" " 3-4



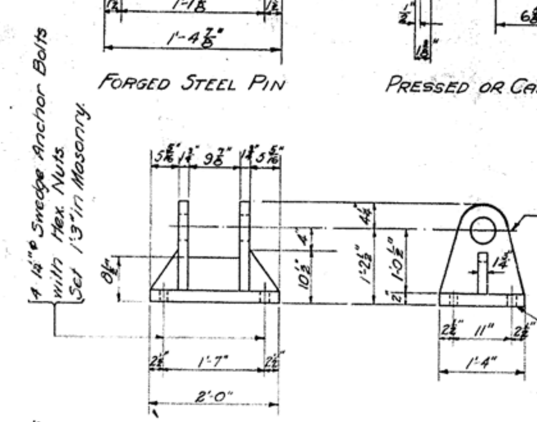
This bill of steel reinforcement is for a single span bridge. At junction of spans on multiple span bridges make corrections due to change in length of concrete sections.



FORGED STEEL PIN

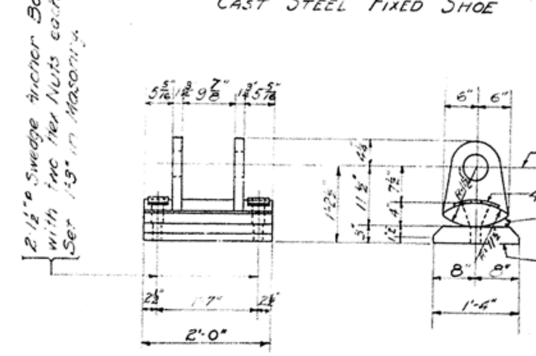


PRESSED OR CAST STEEL NUT



CAST STEEL FIXED SHOE

NOTE: Cast two coupons, at least 1½" x 2" x 6" long on casting from each heat to make one bending and one tensile test. Coupons to be removed by the Commission's shop inspector and forwarded to Commission's laboratory for testing. Stamp coupons and castings with proper heat number with a steel stencil.



CAST STEEL EXPANSION ROCKER

COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
FRANKFORT

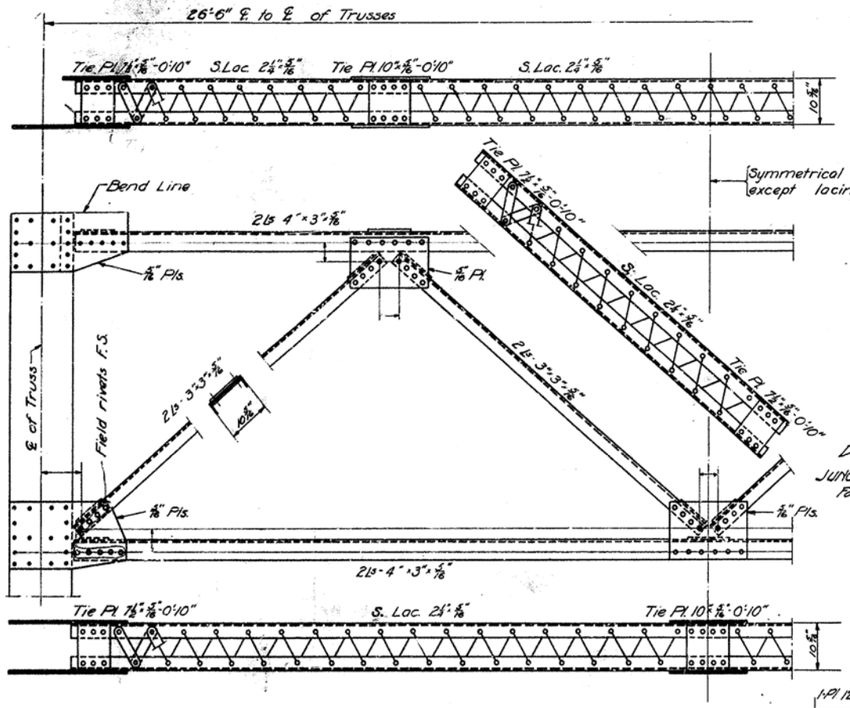
STANDARD STEEL SPAN
110'-0" SPAN —— 24'-0" ROADWAY
THRU TRUSS
SHEET NO. 3 OF 4

SUBMITTED BY ______ BRIDGE ENGR. DRAWING S-76
APPROVED BY ______ STATE HIGHWAY ENGR. S-2

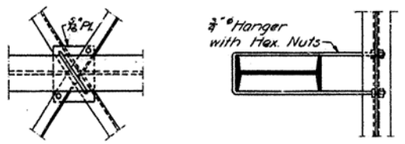
DESIGNED BY F.Q. Gillham DATE 11-29 | DETAILED BY S.A. Mory DATE 11-29 | TRACED BY T.L. Hughston DATE 3-30 | CHECKED BY Mory & PDG DATE 4-30 | REVISED P.D.G. & J.S.B. DATE 6-33 | Sections, Weights, Expansion Devices and Notes — DATE 6-34

BRIDGE

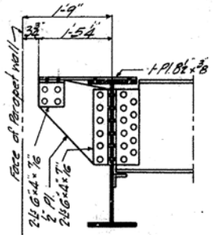
20-ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



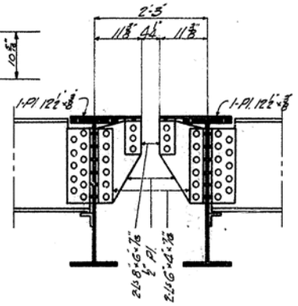
DETAILS OF PORTAL



TYPICAL DETAILS OF BOTTOM LATERAL HANGER

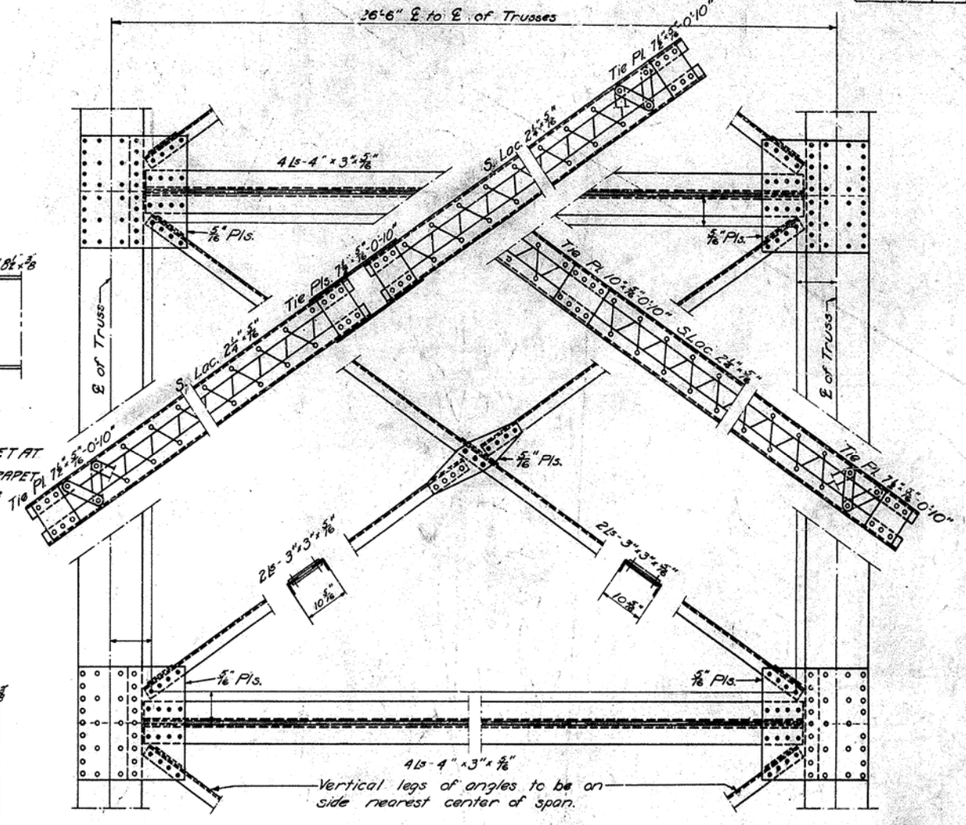


DETAIL OF EXPANSION BRACKET AT JUNCTION OF STEEL SPAN AND PARAPET.
For details of Expansion Device, see Standard Drawing No. S-86

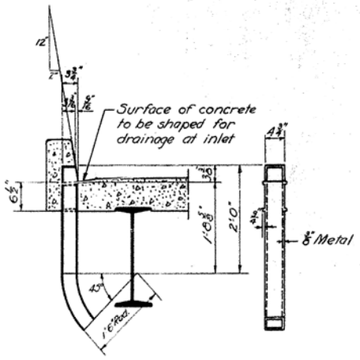


DETAIL OF EXPANSION BRACKETS AT JUNCTION OF SPANS OVER PIER
For details of Expansion Device see Standard Drawing No. S-86

FOUNDRY NOTE:— Furnish two test specimens at least 12 diameter by 21" long in the rough for testing



DETAILS OF TOP LATERALS



DETAILS OF CAST IRON DRAIN

DESIGNED BY	P.O. Gillham	DATE 11-23	DETAILED BY	S.A. Mory	DATE 11-23
TRACED BY	T.L. Hopkins	DATE 3-30	CHECKED	P.O.G. & S.S.	DATE 6-32
CHECKED BY	Mory & P.O.G.	DATE 4-30	QUANTITIES	Sections Prepared by Engineer of Design	DATE 6-34

COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
FRANKFORT

STANDARD STEEL SPAN
110'-0" SPAN——24'-0" ROADWAY
THRU TRUSS

SHEET NO. 4 OF 4

SUBMITTED BY	BRIDGE ENGR.	DRAWING No. S-76	SHEET No. S-2
APPROVED BY	STATE HIGHWAY ENGR.		