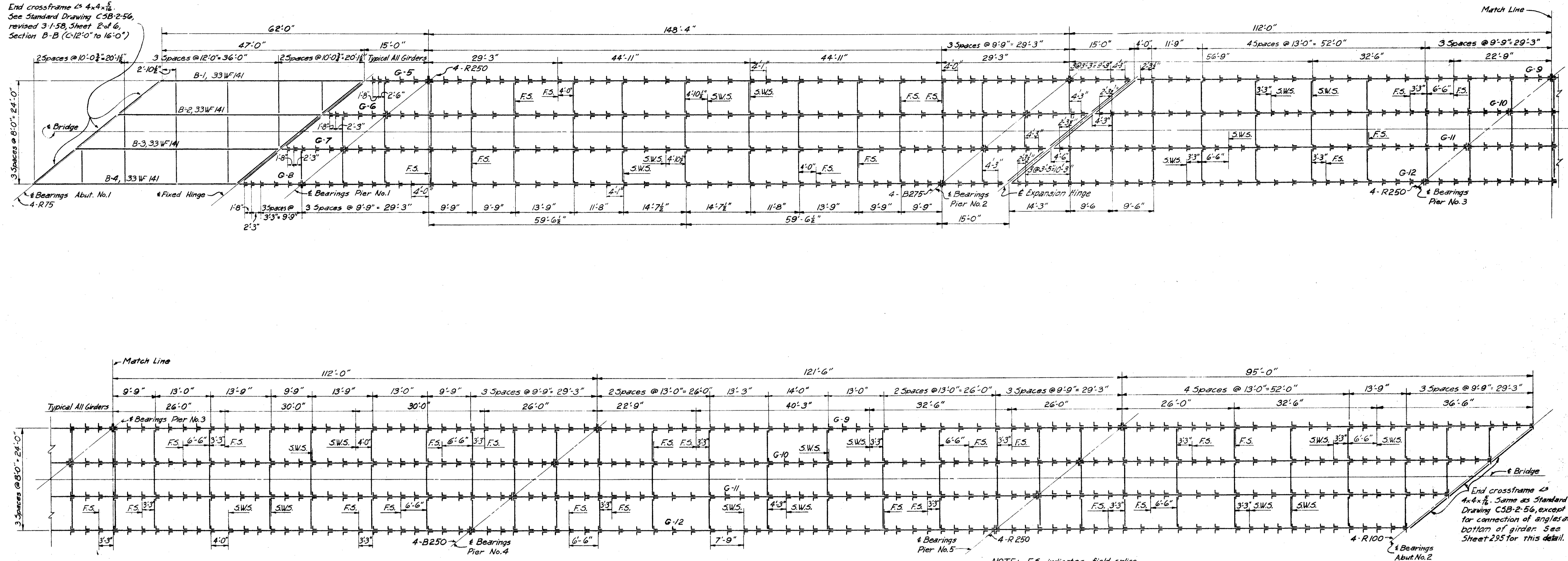


End crossframe is 4x4x $\frac{1}{2}$ .  
See Standard Drawing CSB-2-56,  
revised 3-1-58, Sheet 2 of 6,  
Section B-B (G-12'0" to 16'0")



NOTE: F.S. indicates field splice  
S.W.S. indicates shop web splice

**FRAMING PLAN**

**DEAD LOAD DEFLECTION - B-1 - B-4**

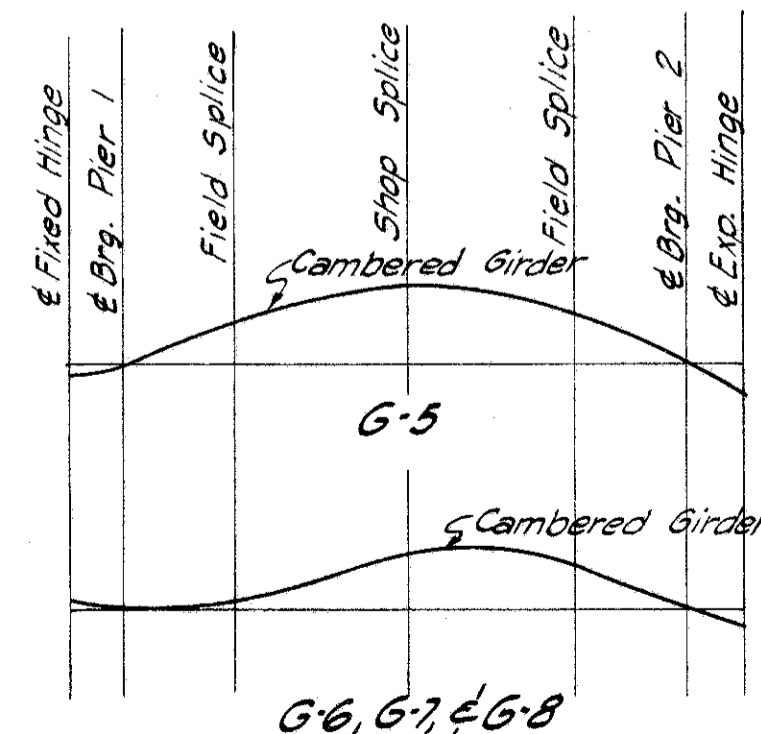
	B-1 & B-4	B-2 & B-3
Deflection Due to Wt. of Steel	$\frac{1}{16}$ "	$\frac{1}{16}$ "
Deflection Due to Remaining D.L.	$\frac{7}{16}$ "	$\frac{7}{16}$ "
Total Dead Load Deflection	$\frac{8}{16}$ "	$\frac{8}{16}$ "

No camber required but beams shall be fabricated with any natural camber or bowed side up.

**DEFLECTION & CAMBER G-5 - G-8**

	Fixed Hinge	Field Splice	Shop Splice	Field Splice	Exp. Hinge
Deflection Due to Wt. of Steel	$-\frac{1}{4}$	$+\frac{3}{16}$	$+\frac{3}{8}$	$+\frac{3}{8}$	$-\frac{1}{4}$
Defl. Due to Remaining D.L. 63,64	$-\frac{3}{8}$	$+\frac{3}{16}$	$+\frac{1}{16}$	$+\frac{3}{8}$	$-\frac{3}{8}$
Defl. Due to Remaining D.L. 66,67	$-\frac{3}{8}$	$+\frac{11}{16}$	$+\frac{1}{16}$	$+\frac{11}{16}$	$-\frac{5}{16}$
Camber Req'd. for Vert. Curve: G-5	$+\frac{1}{16}$	$+\frac{1}{2}$	$+\frac{1}{8}$	$+\frac{3}{8}$	$-\frac{9}{16}$
Do	G-6	$+\frac{9}{16}$	$+\frac{1}{16}$	$+\frac{3}{8}$	$-\frac{1}{2}$
Do	G-7	$+\frac{13}{16}$	$-\frac{7}{16}$	$+\frac{7}{16}$	$-\frac{7}{16}$
Do	G-8	$+\frac{17}{16}$	$-\frac{7}{16}$	0	$-\frac{7}{16}$
Sum of	G-5	$-\frac{5}{16}$	$+\frac{13}{16}$	$+\frac{3}{8}$	$-\frac{13}{16}$
Deflection	G-6	$-\frac{1}{16}$	$+\frac{1}{16}$	$+\frac{2}{8}$	$+\frac{13}{16}$
Curvature	G-7	$+\frac{1}{16}$	$+\frac{1}{16}$	$+\frac{2}{8}$	$+\frac{11}{16}$
= Required Camber	G-8	$+\frac{7}{16}$	$+\frac{7}{16}$	$+\frac{2}{16}$	$+\frac{13}{16}$

Note: Girders to be cambered at points shown to compensate for dead load deflection and vertical curvature.  
Sign Convention: + denotes upward camber, downward deflection.  
- denotes downward camber, upward deflection.



Painting At Stiffener Crimps: The requirement of the last portion of the last sentence in Section 5-7.14 of the Construction and Materials Specifications which states "... and any remaining openings shall be filled with a metallic compound of a non-shrinking type before the shop paint is applied" shall not apply and the following requirement shall be substituted therefore: "Prior to the assembly of a girder the web plate, the flange angle, and the stiffener angle at the location of the crimp in the stiffener angle shall be given a coat of paint."

- NOTES:**
- All dimensions are horizontal
  - For details of Expansion and Fixed Hinges see Sheet 294.
  - For details of End Dams and End Crossframes at Expansion and Fixed Hinges see Sheet 295.
  - For details of End Dams at Abutments see Standard Drawing CSB-2-56, Sheet 2 of 6
  - For deflection and camber of Girders G-9 - G-12 see Sheet 293.

This sheet supersedes sheet 291. 3-24-60.

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**FRAMING PLAN**  
BRIDGE NO. LAK-I- 0276  
UNDER MAPLE GROVE ROAD

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED-DATE	REVISED
P.C.K.	Y.G.	C.R.H.	H.C.M.	H.G.H. 8-22-58	3-22-60