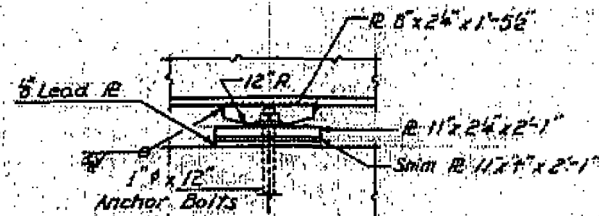


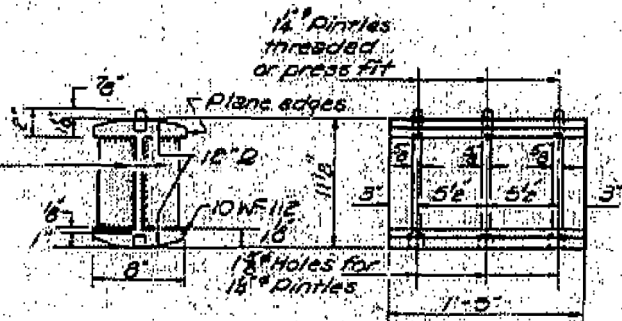
ELEVATION



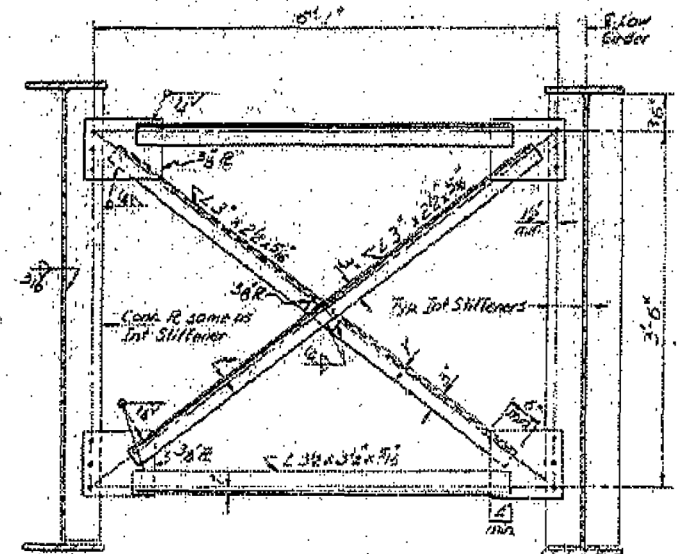
ELEVATION



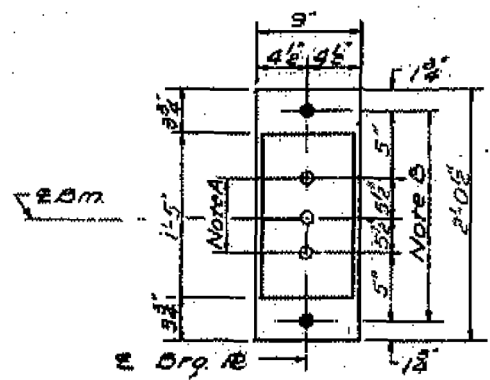
PINTLE



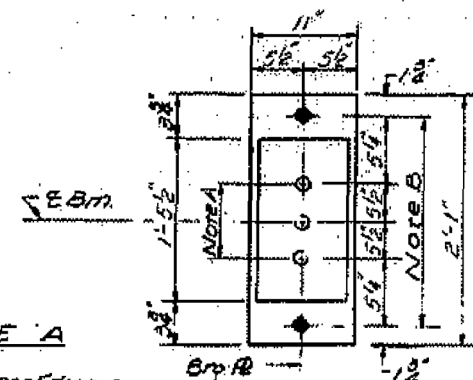
ROCKER



CROSS FRAME - C.F. 1



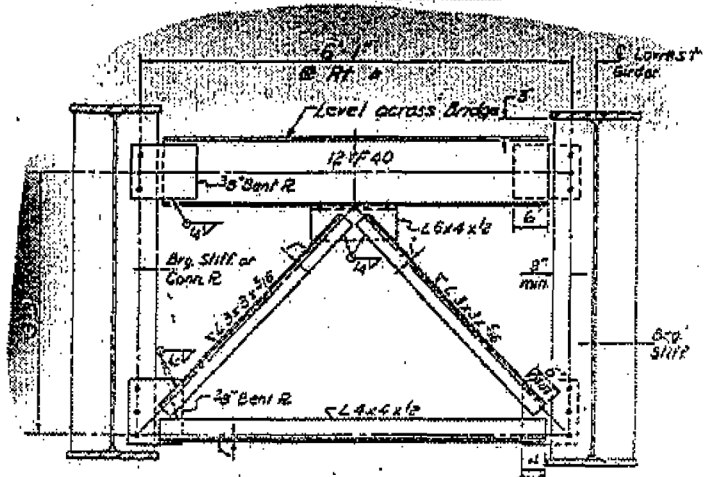
PLAN AT ABUTMENT



PLAN AT PIER

NOTE A
1 1/2" Holes 1" deep in top flange for pintles. Thread or press fit pintles in bottom flange.

NOTE B
1 1/2" Holes for 1" anchor bolts. 2" x 2" x 1/2" R.W. Washers under nut.



CROSS FRAME - C.F. 2

NOTES ON SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

a) D* (Side of brg. away from fixed brg.)
D* = 1/8" per each 100' of expansion for every 15° fall below the normal temperature of 50° F

D** (Side of brg. toward fixed brg.)
D** = 1/8" per each 100' of expansion for every 15° rise above the normal temperature of 50° F

b) After beams have been erected and dimensions D* or D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

TOP OF WEB ELEVATIONS

	G-1	G-2	G-3	G-4	G-5
E Brg. W. Abut	420.06	420.20	420.26	420.26	420.20
E Splice #1	420.81	420.93	420.98	420.98	420.87
E Brg. Pier	420.91	421.03	421.08	421.06	420.97
E Splice #2	421.01	421.13	421.18	421.15	421.07
E Brg. E. Abut	421.11	421.20	421.22	421.18	421.07

BEAM PROPERTIES

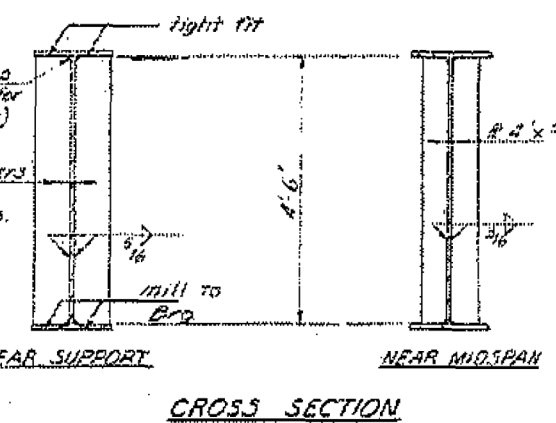
	Steel Section	Composite Section
Pier		A-Span
I	51,751 in ⁴	50,594 in ⁴
S _x	1792 in ³	4317 in ³
S _y	1792 in ³	1152 in ³

TABLE OF MOMENTS & REACTIONS

	Moments (ft-kip)		Reactions (k)	
	A-Span	Pier	Abut	Pier
Initial Dead Load	+650 ^k	-1573 ^k	325 ^k	1196 ^k
Composite Dead Load	+303 ^k	-489 ^k	138 ^k	445 ^k
Live Load	+660 ^k	-610 ^k	268 ^k	529 ^k
Impact	+137 ^k	-128 ^k	6.0 ^k	11.0 ^k
Total	+1750 ^k	-2800 ^k	81.1 ^k	227.1 ^k

TABLE OF "Y" DIMENSIONS

Location	G-1	G-2	G-3	G-4	G-5
East Abut	1/2	1/4	1/2	0	0
Pier	0	0	5/8	3/8	0



CROSS SECTION

DESIGNED: James Hamilton
CHECKED: Emilio Samarin
DRAWN: R.P.S. G.E.M.
CHECKED: [Signature]

EXAMINED: [Signature]
APPROVED: [Signature]

BEARING DETAILS
F.A. RT. 24 SEC. 64-218-1
MASSAC COUNTY
STATION 417+88.45

FOR INFORMATION ONLY