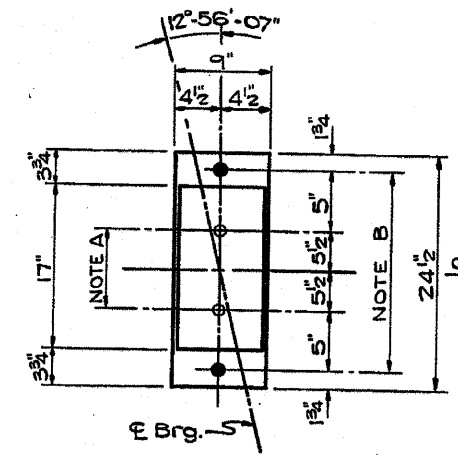
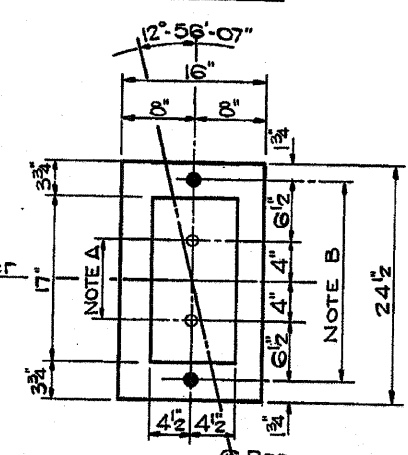


ELEVATION

ELEVATION



PLAN - ABUTMENTS



PLAN - PIER

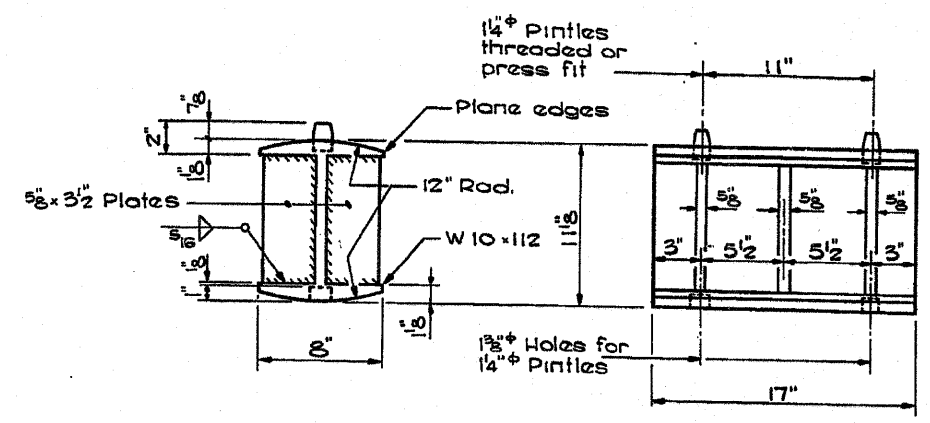
NOTES FOR SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

- a) D* (Side of brg. away from fixed brg.)
D* = 1/8 per each 100' of expansion for every 15° fall below the normal temp. 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 temp. of 50° F.
- b) After beams have been erected and dimensions D* & D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

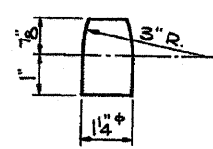
	0.4 Sp. 1	Pier
I _s (in. ⁴)	22892	56189
I _c (in. ⁴)	68663	
S _s (in. ³)	1188.6	2120.3
S _c (in. ³)	1735.2	
I _o (K/I)	1.036	1.036
M _o (K)	784.0	-1849.6
f _s ϕ (ksi)	7.92	10.47
s ϕ (K/I)	0.493	.493
M _s ϕ (K)	457.8	-651.8
M _t ϕ (K)	965.2	-804.1
M _{imp} ϕ (K)	208.5	-173.7
Total ϕ (K)	1631.5	-1629.6
f _s ϕ + s ϕ (ksi)	11.28	9.22
f _s Total (ksi)	19.20	19.69
VR (K)	56.5	

	Abut.	Pier
R _o (K)	61.7	212.0
R _t (K)	44.0	75.5
Imp. (K)	9.5	16.3
R Total (K)	115.2	303.8

I_s and S_s are the moment of inertia and section modulus of the steel section. I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s. VR is the maximum $\frac{1}{2}$ + Impact range in span.



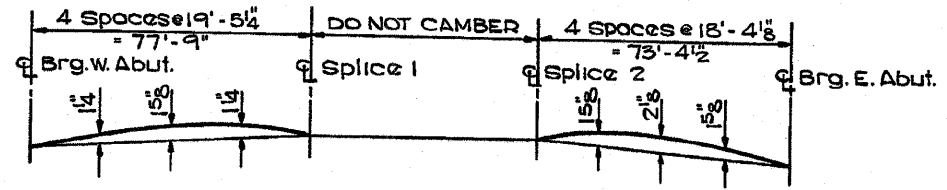
ROCKER



PINTLE

NOTE A
1 1/8" Holes - 1" deep in top ϕ for 1 1/4" Pintles. Thread or press fit Pintles in bottom ϕ.

NOTE B
1 1/2" Holes for 1" Anchor Bolts - 2 1/2 x 2 1/2 x 5/16 ϕ washers under nut.



CAMBER DIAGRAM

Includes allowance for Total Dead Load Deflection and Vertical Curvature of the roadway.

FOR INFORMATION ONLY

BEARING DETAILS
FA RTE. 412 SECTION 141-2HB-4
LINDENWOOD ROAD (C.H. 20)
OVER FA RTE. 412
OGLE COUNTY
STATION 1967+08.06

BRIDGE SHEET 9 OF 14