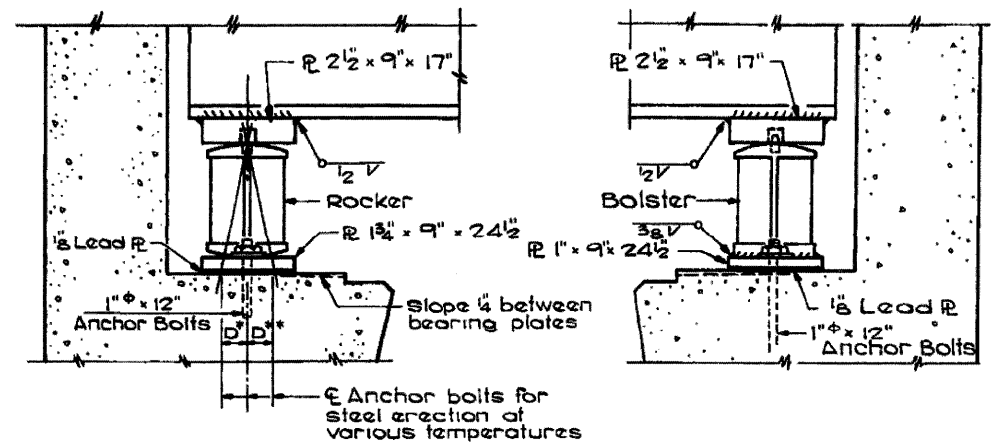


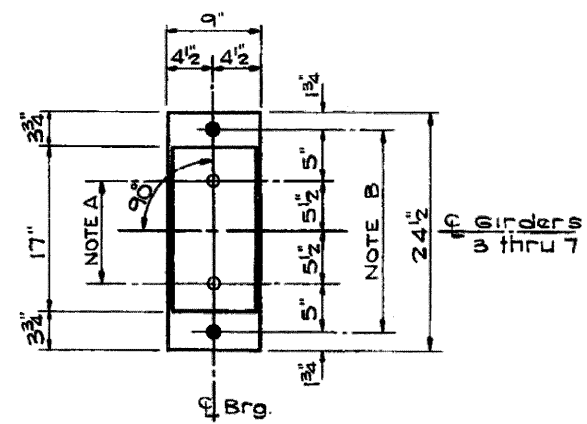
FOR INFORMATION ONLY

F.A.I. SHEET NO.	SECTION	TOTAL SHEETS	SHEET NO.
39	141-3A, VB, UB, UB-1	18	14
COUNTY OGLE			
ILLINOIS PROJECT			

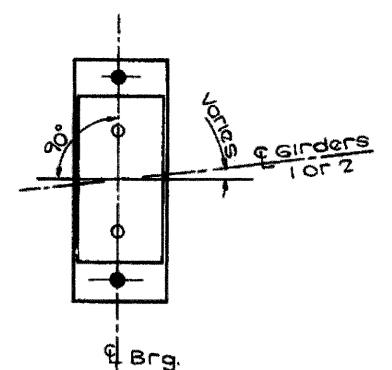


SOUTH ABUTMENT

NORTH ABUTMENT



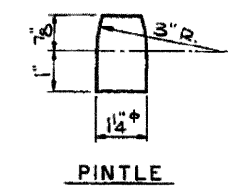
PLAN - ABUTMENTS



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.

INTERIOR GIRDER MOMENT TABLE	
	AT MID-SPAN *
Is (in ⁴)	4397.9
Ic (in ⁴)	10712.2
Ss (in ³)	1258.3
Sc (in ³)	6745.7
D (K/ft)	1.078
M _Q (K)	2228.8
fs _Q (ksi)	21.25
s _Q (K/ft)	.456
Ms _Q (K)	931.8
M _L (K)	1429.2
Mimp (K)	283.0
Total (K)	2644
fs _{L+S} (ksi)	4.71
fs _{Total} (ksi)	25.96
VR (K)	56.9



PINTLE

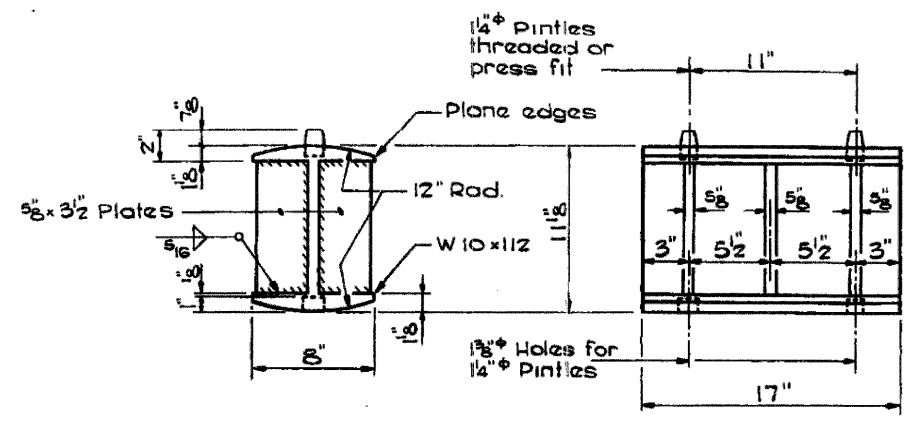
NOTE A
1 3/8" Holes - 1" deep in top flange for 1 1/2" Pintles (Thread or press fit Pintles in bottom flange at South Abut. only.)

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

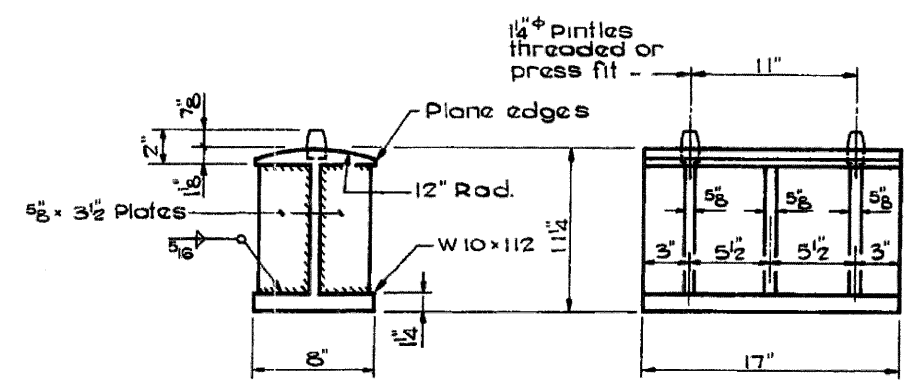
INTERIOR GIRDER REACTION TABLE	
	ABUTMENTS
R _Q (K)	94.6
R _L (K)	57.4
Imp. (K)	11.4
R Total (K)	163.4

Is and Ss are the moment of inertia and section modulus of the steel section. Ic and Sc are the moment of inertia and section modulus of the composite section used in computing fs. VR is the maximum L + Impact range in span.

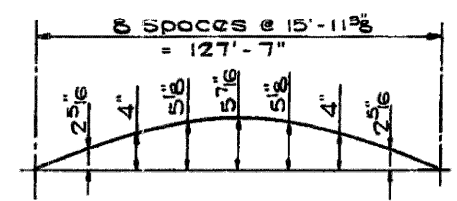
* TOP FLANGE



ROCKER



BOLSTER



CAMBER DIAGRAM

BEARING DETAILS
(SOUTHBOUND STRUCTURE)
FA RTE. 412 SECTION 141-3HB
OVER ILL. RTE. 72
OGLE COUNTY
STATION 2124+50.57

BRIDGE SHEET 9 OF 26
* D2 BRIDGE PAINTING 2008-2