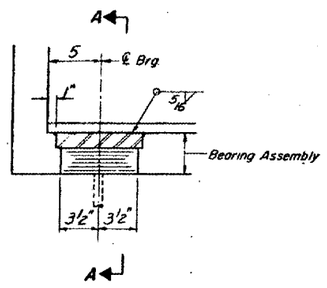
CONTRACT NO.: 98880
ROUTE: VARIOUS
COUNTY: VARIOUS
SECTION: D-9 CONTRACT MAINTENANCE 05-7
SHEET NO.: 9 OF 37

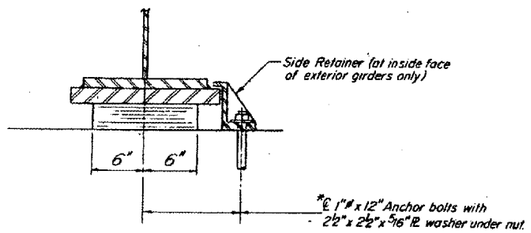
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 778	3B-DR	Hardin	17	11
FED. PROJ. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 6
9 SHEETS

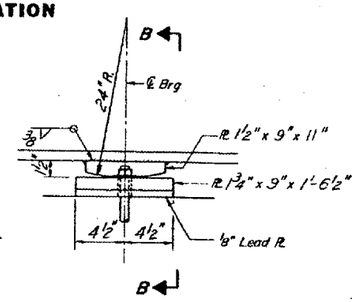


SECTION AT ABUT.

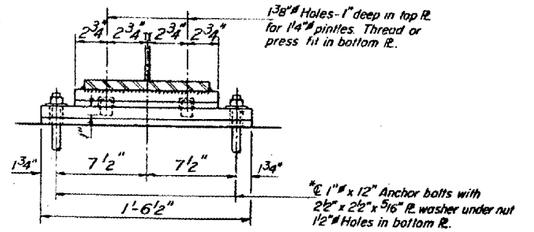


SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



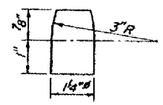
ELEVATION AT PIER



SECTION B-B

FIXED BEARING

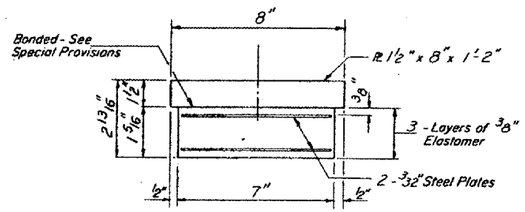
*Note: After beams have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.



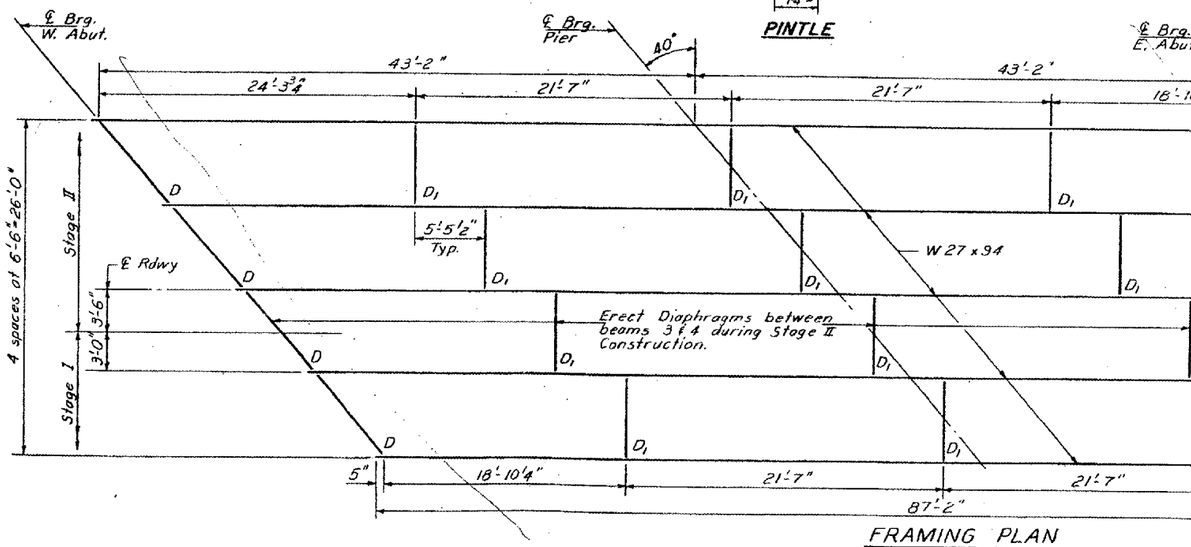
PINTLE

TOP OF BEAM ELEVATIONS

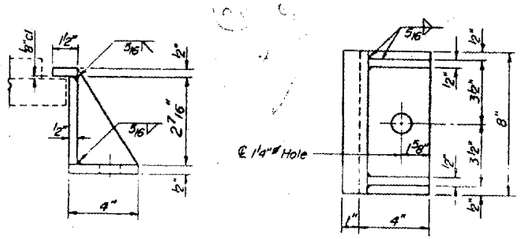
Beam 1	398.56
Beam 2	398.81
Beam 3	399.05
Beam 4	399.30
Beam 5	399.55



BEARING ASSEMBLY

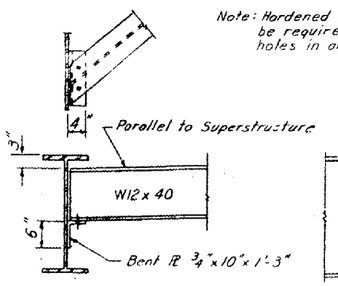


FRAMING PLAN

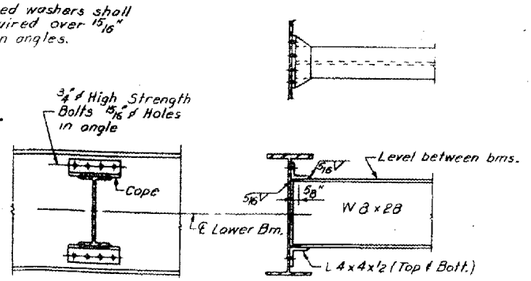


SIDE RETAINER

Note: Hardened washers shall be required over 15/16" holes in angles.



DIAPHRAGM D



DIAPHRAGM D1

INTERIOR BEAM MOMENT TABLE			
		0.4 Sp. 1	Pier
I	(in⁴)	3270	3270
ℓ	(k/ℓ)	0.9707	0.9707
$M_{ℓ}$	(ik)	127.01	226.87
$M_{ℓ}$	(ik)	238.49	176.31
Imp.	(ik)	71.55	52.89
M_{TOTAL}	(ik)	437.05	456.07
f_s	(ksi)	21.58	22.52

INTERIOR BEAM REACTION TABLE			
		Abut.	Pier
$R_{ℓ}$	(k)	15.74	52.46
$R_{ℓ}$	(k)	31.56	39.82
Imp.	(k)	9.47	11.95
R_{TOTAL}	(k)	56.77	104.23

FOR INFORMATION ONLY:

BRIDGE NO. 1 STRUCTURE 035-0004

STRUCTURAL STEEL
F.A. RT. 778 SEC. 3B-DR
HARDIN COUNTY
STA. 783+80.00

DESIGNED	Anthony Hunt
CHECKED	D. Lynn Shuster
DRAWN	R. P. Summer
CHECKED	D K A

EXAMINED March 15, 1978
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

I-2-E1 2-1-76