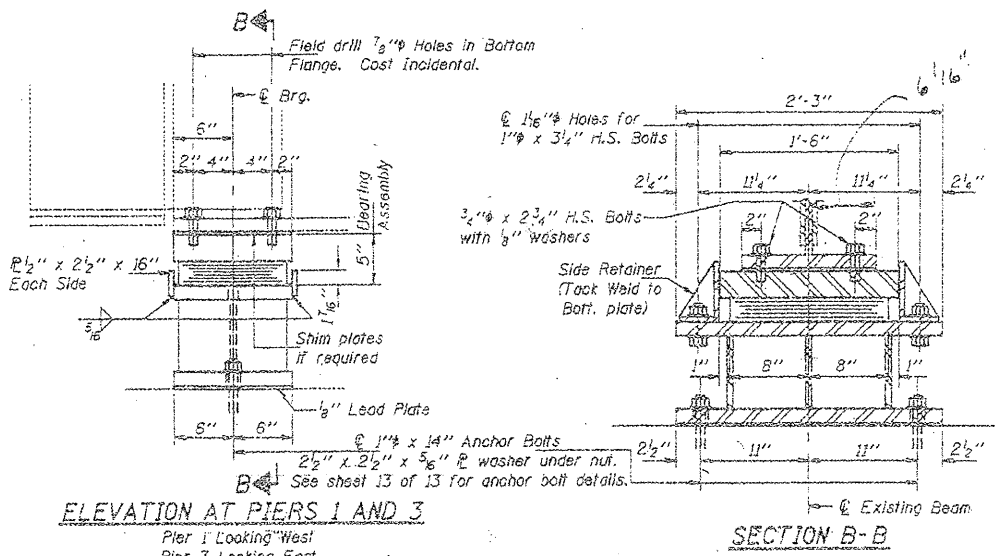


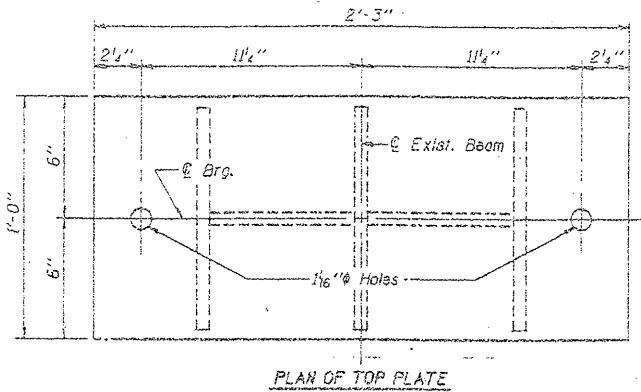
Location 3 S.N. 090-0077 Bearings Information only

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

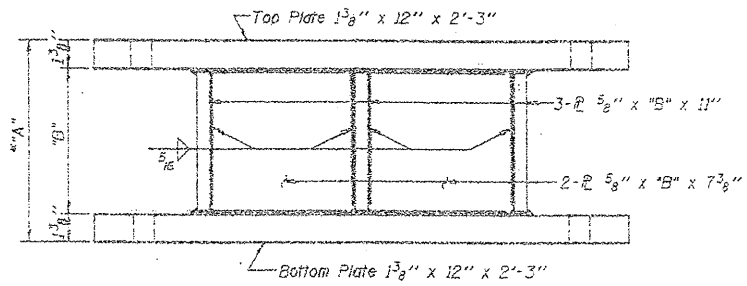
NO. 74	SECTION 15B-41	COUNTY TAZEWELL	STATION 922+60.73	SHEET NO. 8
				13 SHEETS



ELEVATION AT PIERS 1 AND 3
Pier 1 Looking West
Pier 3 Looking East
TYPE I ELASTOMERIC EXPANSION BEARING

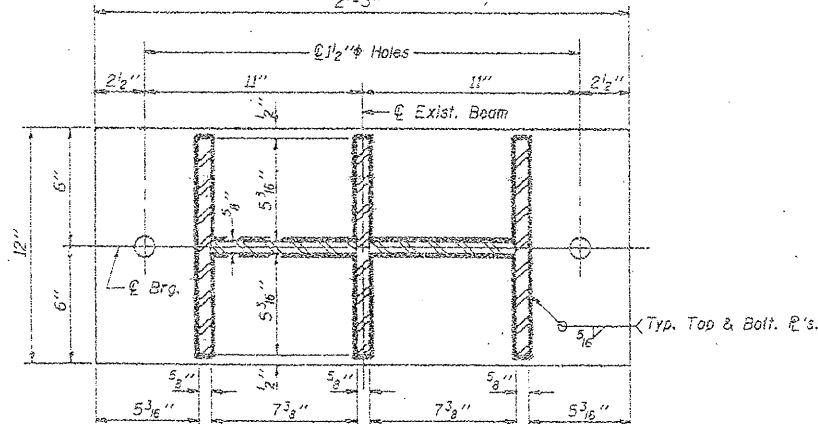


PLAN OF TOP PLATE



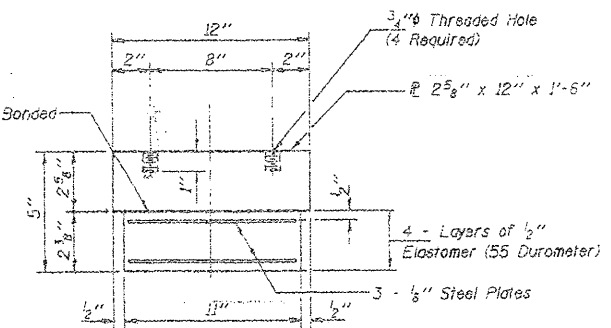
ELEVATION

For "A" and "B" dimensions see table below.
2'-3"



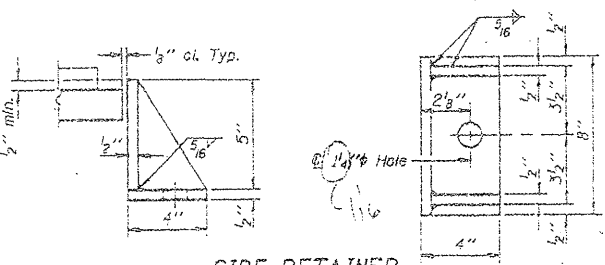
PLAN OF BOTTOM PLATE

PIER BOLSTER DETAILS
Typ. for Piers 1 and 3.



BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN Joe Sutherland	APPROVED
CHECKED	

Jan 3 1990
[Signature]
 CHIEF OF DESIGN
[Signature]
 SUPERVISOR OF DESIGN

	0.4 Sp. #2	or	Pier 2
	0.6 Sp. #3		
I_s	(in ⁴) 12100		12100
I_c	(in ⁴) 27676		
S_s	(in ³) 664		664
S_c	(in ³) 918		
Z	(in ³)		
W	(K/ft.) .847		1.171
M_R	(K) 271		524
S_R	(K/ft.) 0.324		
M_S^P	(K) 121		
M_L	(K) 465		265
M (Imp)	(K) 121		69.0
$S_2(M-L)$	(K) 978		557
M_0	(K) 1782		1495
M_u	(K) 3530		
f_s (non-comp. k.s.l.)	4.9		11.3
f_s (comp. k.s.l.)	1.5		
f_s (L+I)	(k.s.l.) 12.2		10.1
f_s (Overload)	(k.s.l.) 19.3		21.4
f_s (Total)	(k.s.l.)		27.8
VR	(K) 146		

	Pier 1 & 3	Pier 2
R_R	(K) 30.8	99.4
R_L	(K) 35.7	45.2
$Imp.$	(K) 9.2	11.8
R (Total)	(K) 75.7	156.4

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total & Overload).
 VR is the maximum Live Load + Impact shear range in span.
 Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.
 M_0 (Applied Moment) = $1.3(M_R + M_S^P + \frac{1}{3}(M-L))$.
 M_u is the Full Plastic Moment Capacity for Compact, Braced section.
 f_s (Overload) is the sum of the stresses due to $M_R + M_S^P + \frac{1}{3}(M-L)$.
 f_s (Total) (Non-comp section) is the sum of the stresses due to $1.3(M_R + M_S^P + \frac{1}{3}(M-L))$.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	10

PIERS 1 AND 3 BEARING DETAILS
 F.A.I. RT. 74 SEC. (90-15HB-41)
 TAZEWELL COUNTY
 STATION 922+60.73

TABLE FOR "A" AND "B" DIMENSIONS

Location	Pier 1		Pier 3	
	"A"	"B"	"A"	"B"
Beam 1	10"	7 1/4"	10 1/2"	7 3/8"
Beam 2	10"	7 1/4"	10 1/2"	7 3/8"
Beam 3	10 1/2"	7 3/8"	10"	7 1/4"
Beam 4	10"	7 1/4"	10"	7 1/4"
Beam 5	10 1/2"	7 3/8"	10 1/2"	7 3/8"

* The contractor shall verify this dimension in the field before jacking the beams for bearing removal.