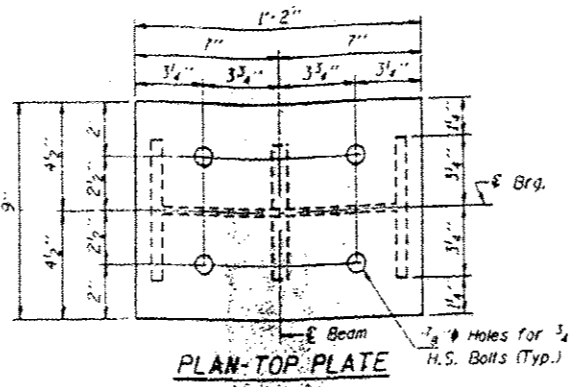
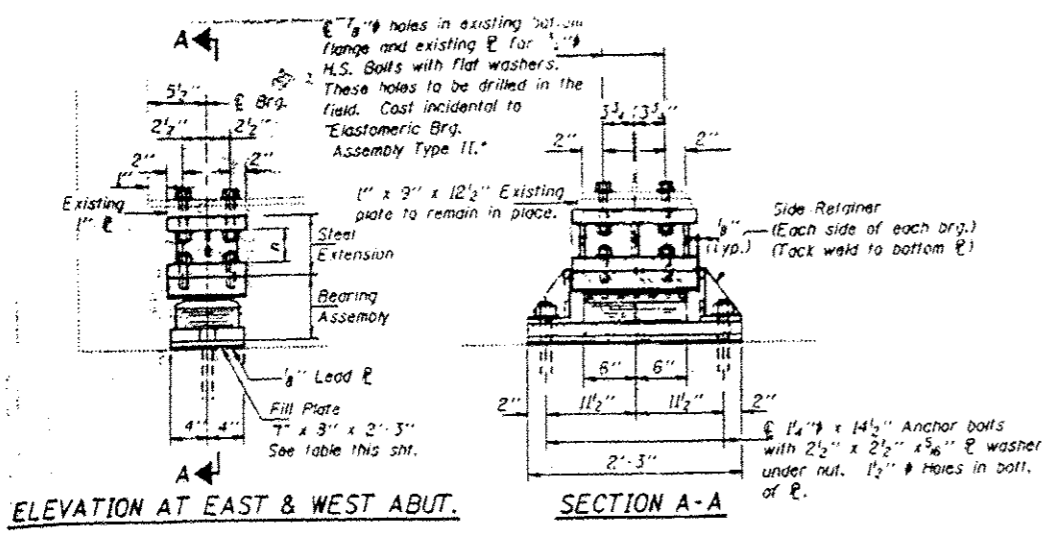


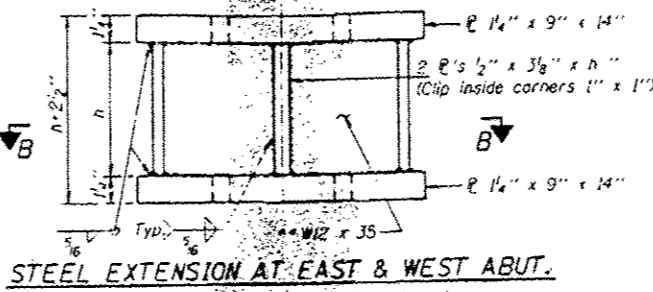
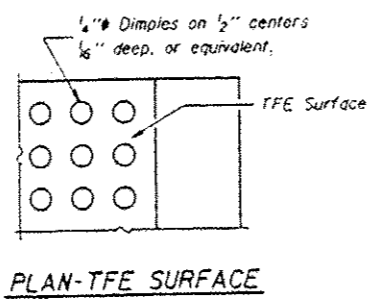
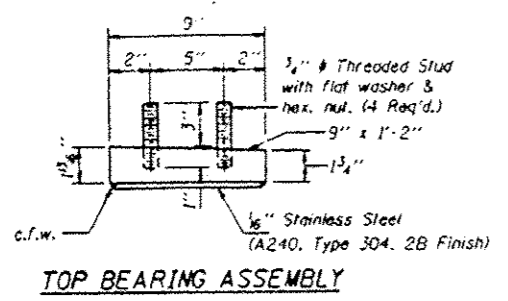
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION



**INTERIOR BEAM MOMENT TABLE**

	0.4 Span 1	Pier 1	0.5 Span 2	Pier 2	.5 Span 3	Pier 3	0.6 Sp. 4
$I_s$ (in <sup>4</sup> )	6710	6710	6710	7861	6710	6710	6710
$S_s$ (in <sup>3</sup> )	406	406	406	547	406	406	406
$W$ (K/ft.)	1.084	1.084	1.084	1.084	1.084	1.084	1.084
$M_R$ (K)	145.1	291.0	160.5	371.7	167.4	277.3	114.0
$M_L$ (K)	262.3	231.5	299.0	267.5	297.0	225.4	238.6
$M$ (Imp) (K)	77.6	64.9	80.7	72.3	90.3	63.2	71.6
$M$ (Total) (K)	482.5	587.4	540.2	711.5	544.7	565.9	424.2
$T_s$ (K.S.F.)	7.2	7.4	16.0	15.6	16.1	16.7	12.5

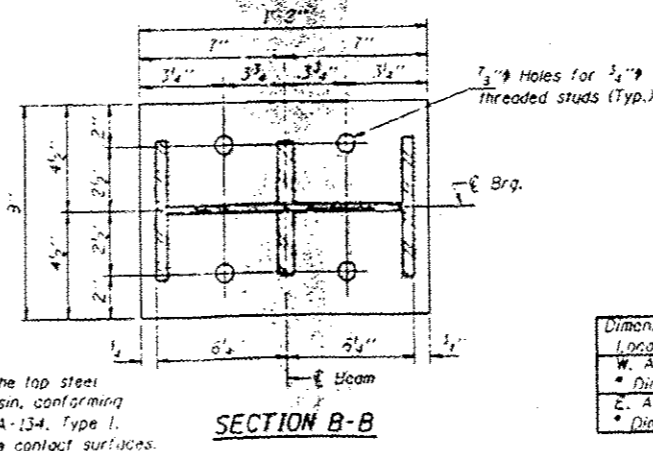
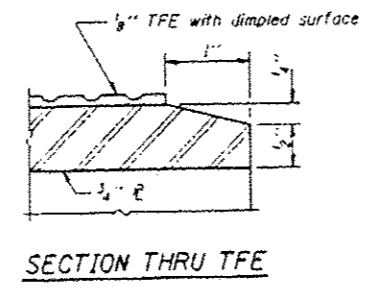
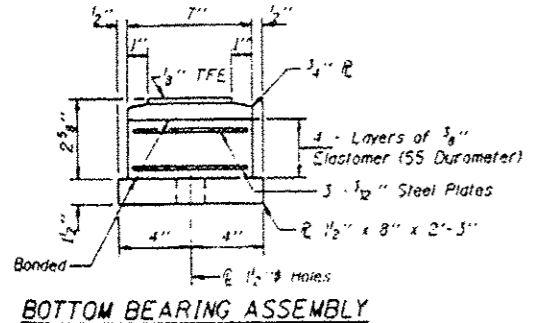
**TYPE II TFE ELASTOMERIC EXP. BRG.**



**INTERIOR BEAM REACTION TABLE**

	W. Abut.	Pier 1	Pier 2	Pier 3	E. Abut.
$R_R$ (K)	17.6	62.0	68.2	60.3	15.9
$R_L$ (K)	33.0	41.6	42.0	41.6	32.4
$R$ (Imp) (K)	9.7	11.6	11.3	11.6	9.7
$R$ (Total) (K)	60.3	115.2	121.5	113.5	58.0

**Service Load Values**  
 $I_s$  and  $S_s$  are the moment of inertia and section modulus of the steel section used in computing  $T_s$  (Total).  
 $W$  is the maximum live load + impact shear range in span.  
 $f_s$  is the sum of the stresses due to  $M_R + M_L + I$ .  
 $M_R$  Moment due to Dead Loads on non-composite section.  
 $M_L$  Moment due to Live Loads on non-composite section.  
 $I$  Live Load Impact.

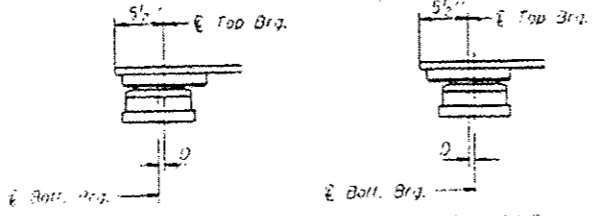
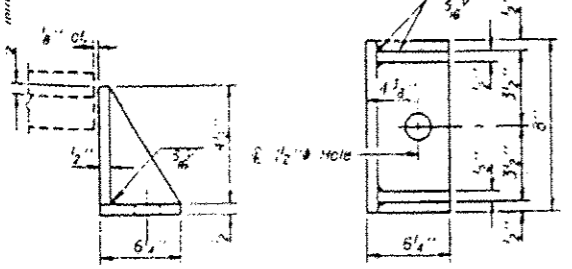


Dimension Location

Dim. #	2	3	4	5	6	7	8	9	10	11	12	Dim. 13
W. Abut.	3/8"	1/8"	0	1/4"	1/8"	1/8"	5/8"	1/8"	1/8"	1/8"	1/8"	1/8"
E. Abut.	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"

Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



\* Based on the existing seat elevations shown on sheet #12 of 23. The Contractor shall verify these Elev. and make adjustments if necessary. Cast incidental.  
 \*\*\* See shet. #12 of 23 for Jack and Remove Existing Bearings Procedure and Location.  
 For anchor bolt installation details see sheet #15 of 23. Existing anchor bolts which are not under side retainer shall be covered with 1/2" thick layer of cement mortar. Cast incidental to Jack and Remove Existing Bearing.  
 For anchor bolt location see sheet #16 and #17 of 23.

DESIGNED: *Michael J. Goulet*  
 CHECKED: *Sharon Sumner*  
 DRAWN: *Sharon Sumner*  
 CHECKED: *SA*  
 EXAMINED: *Ralph E. Anderson*  
 PASSED: *Ralph E. Anderson*  
 DATE: June 13, 1994

**FOR INFORMATION ONLY**

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	25
Jack and Remove Existing Bearings	Each	25

**EAST & WEST ABUTMENT BEARING DETAILS**  
 F.A.I. RT. 57 SEC. (28-5HB-1)D  
 FRANKLIN COUNTY  
 STATION 157-85.75