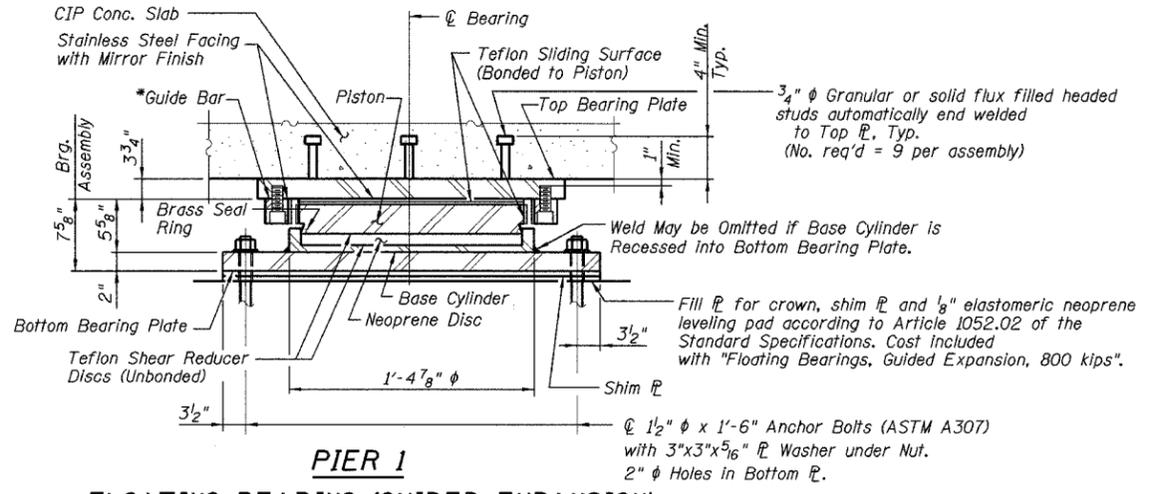


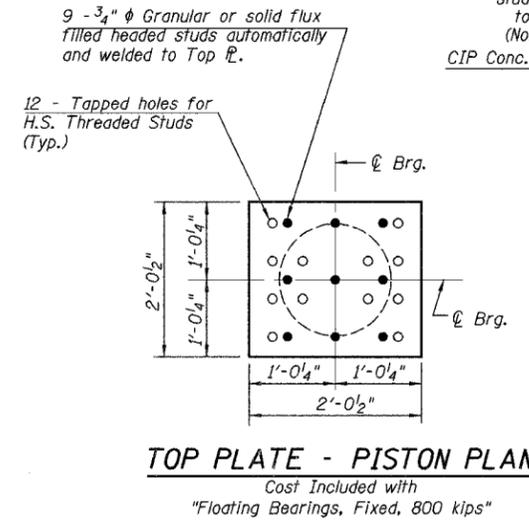
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STATE SHEET NO.	SHEET NO.
FAU 1441	00-00059-00-BR	KANE	154	95
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

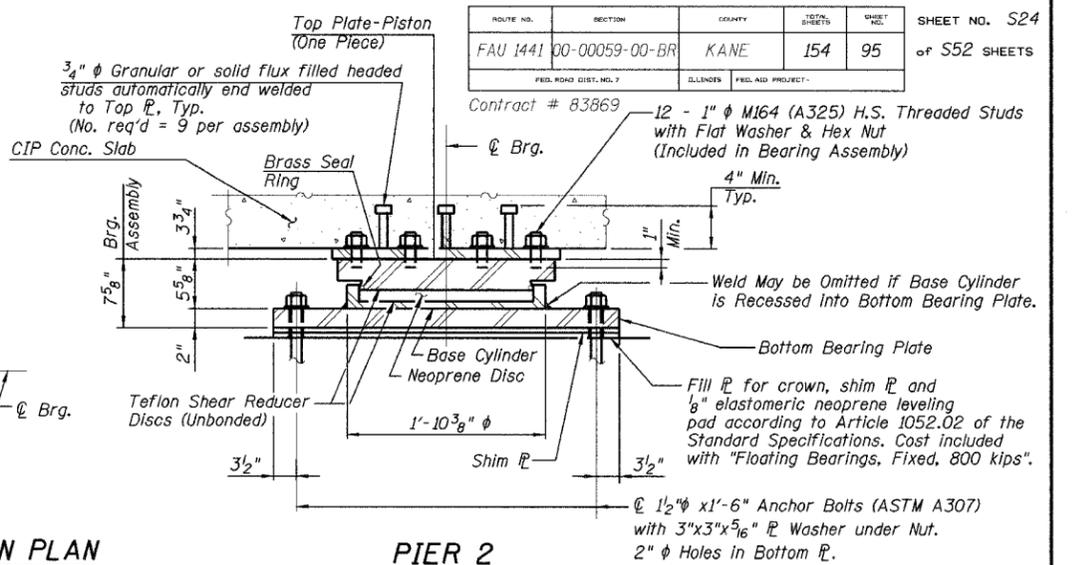
* As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the guide bars and top bearing plate may be fabricated as a single piece.



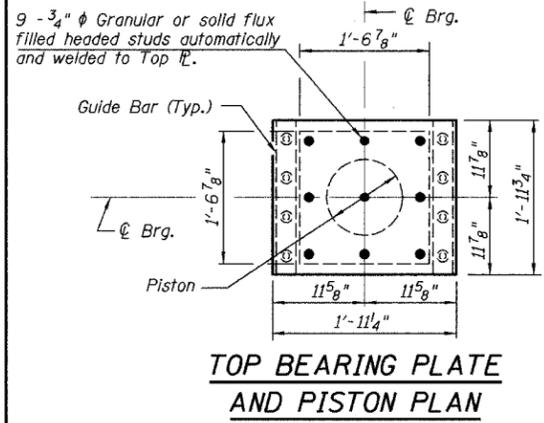
**PIER 1
FLOATING BEARING (GUIDED EXPANSION)**
(10 Required)



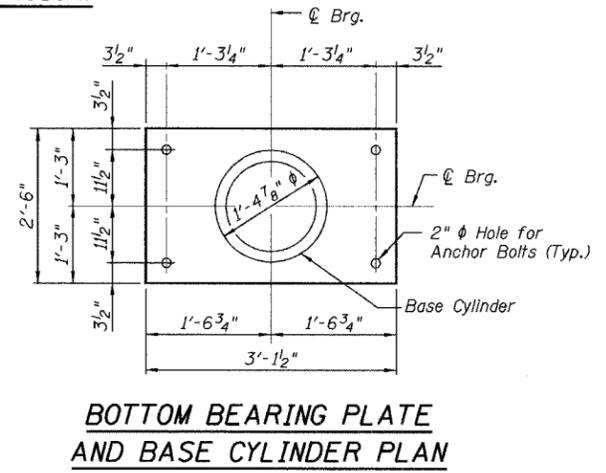
TOP PLATE - PISTON PLAN
Cost Included with
"Floating Bearings, Fixed, 800 kips"



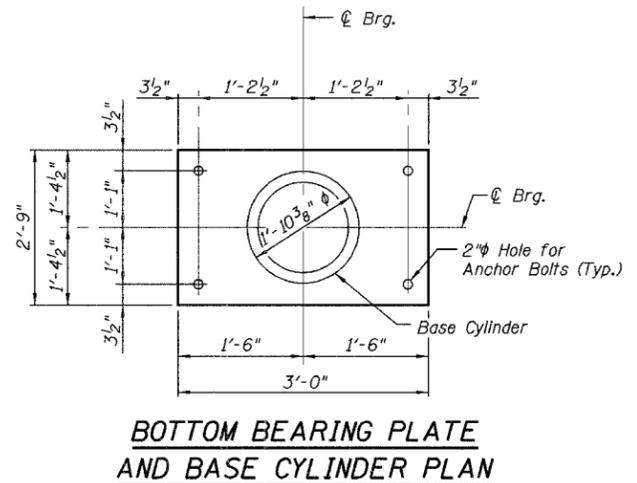
**PIER 2
FLOATING BEARING (FIXED)**
(10 Required)



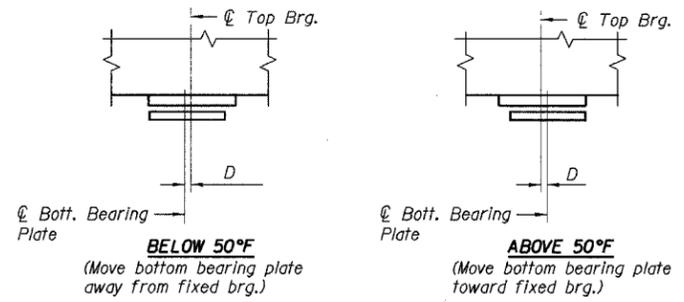
**TOP BEARING PLATE
AND PISTON PLAN**



**BOTTOM BEARING PLATE
AND BASE CYLINDER PLAN**



**BOTTOM BEARING PLATE
AND BASE CYLINDER PLAN**



SETTING ANCHOR BOLTS AT EXP. BRG.
 $D = \frac{1}{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

Item	Unit	Total
Floating Bearings, Fixed 800 kips	Each	10
Floating Bearings, Guided Expansion, 800 kips	Each	10

BEARING SCHEDULE

Support	Type	Vertical Reactions (kips) Per Brg.				Lateral Reactions (kips) Per Brg.		Total Required Movement (in.)	Minimum Rotational Capacity (Radians)
		Dead Load	Live Load	Live Load + Impact	Total (DL+LL)	Longitudinal	Transverse		
Pier 1	Floating Bearings, Guided Expansion, 800 kips	600	200	250	800	0	120	1/8	0.02
Pier 2	Floating Bearings, Fixed, 800 kips	600	200	250	800	50	120	0	0.02

NOTES

- All steel for the floating bearings and bearing plates shall conform to the requirements of AASHTO M270 Grade 50.
- For Anchor Bolt Installation see Sheet No. 96.
- For shim plate requirements see "General Notes" on Sheet No. 73.
- Bearing assemblies shall conform to the requirements of the Special Provision - "Floating Bearings".
- Cost of furnishing and erecting anchor bolts, threaded studs and shim plates for the bearing assemblies is included in the cost of Floating Bearings of the type specified.
- Bearing design, details and dimensions shown on the plans are based on a particular type of floating bearing. The use of other types of floating bearings and details that provide equivalent or better characteristics to meet the service load and seismicity requirements shown on the plans and given in the Special Provisions are permissible. Contractor shall submit Bearing Supplier's design calculations and drawings in accordance with the Special Provision "Floating Bearings", and submit to the Engineer for approval. Bearing installation shall conform to the manufacturer's installation requirements and recommendations.
- Information not shown regarding size of top bearing plate, piston and base assemblies shall be determined by the Bearing Supplier in accordance with the Special Provision - "Floating Bearings" and the Bearing Schedule provided on this Sheet.
- The bearing seat elevations are computed based on the bearing heights shown on the plans. Contractor shall adjust final bearing seat elevations to accommodate actual bearing heights provided by the Bearing Supplier.
- Edge distances shown are minimum distances required. Floating bearing shop drawings shall indicate the exact locations of anchor bolts and include provisions made by the Contractor to ensure that the anchor bolts will not interfere with reinforcement bars.

**PIER BEARING DETAILS
WILSON ST OVER FOX RIVER
SECTION 00-00059-00-BR
KANE COUNTY
STRUCTURE NO. 045-6051**

LOCHNER
H.W. LOCHNER, INC., CHICAGO, ILLINOIS

DESIGNED - DWH
CHECKED - KSS
DRAWN - EF
CHECKED - KSS

9/14/2006 12:16:01 PM