

60B07

- The 8" TFE sheet shall be bonded directly to the piston with a two
 component medium viscosity epoxy resin, conforming to the
 requirements of the Federal Specification MM-A-134, Type 1. The
 bond agent shall be applied to the full area of the contact surfaces.
- Total Bearing Heights (Th) are based on values taken from a specific manufacturer's design lables. Actual bearing heights may differ from contract plans. Contractor to verify bearing heights and adjust steel extension height if required.
- 3. The Vertical Design Load in table is the actual controlling vertical service load.
- HLMR Bearings dimensions and details are based on a specific manufacturer's design tables. Contractor shall make necessary modifications based on the actual bearings provided.
- As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the guide bar and top bearing may be fabricated as a single piece.
- Bearing manufacturer shall coordinate with steel extension manufacturer in order to provide required height from top of pier to bottom of beam flange.

BILL OF MATERIAL

<u>Item</u>	Unît	Quantity
HLMR Bearing, Guided Exp., 550 Kips	Each	17
HLMR Bearing, Guided Exp., 400 Kips	Each	3
Furnishing and Erecting Structural Steel	Lbs.	24,530

HLMR BEARING SCHEDULE (S.N. 016-1116)

' (Typ.)

SECTION A-A

FABRICATED STEEL EXTENSION DETAIL

S.N. 016-1116

TOTAL OF 20 REO'D.

Beam Vo.	Vertical Design Load, k	Design	Total Rea'd Movement (in.)	Total Req'd Rotation (rad)	Τt	Tb	Th	L	D	
IS - 10S, IN - 7N	550	110	278	0.0002	234	2	97 ₈	18 ¹ 2	1734	
3N-10N	400	80	2 ⁷ 8	0,0002	2	2	8 ⁵ 8	15	<i>1</i> 5	

Dimensions are in inches. Beam numbers reference as-built drawings, see Framing Plans for cross reference.

REVISIONS	FILINGIS DEDARTMENT OF	TO LUCE OF LEVEL		
NAME DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION			
	F.A.I. 94/90 (DAN RYA			
	DAN RYAN ELEVAT	FED BRIDGE		
	BEARING REPLACEMENT	& STEEL REPAIR		
	HLMR BEARING	DETAILS		
	SCALE: NTS	DRAWN BY: MTR		
	DATE: 3/7/2008	CHECKED BY: BLU		

Piston © girder | a" PTFE sliding surface (bonded)

PTFE shear reduced disc (unbonded)

PISTON ASSEMBLY

Brass seal ring

BOTTOM BEARING P.
AND BASE CYLINDER PLAN

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312 228 0100
www.bbandainc.com

11/2"

© Brg.

-ф

 Φ

<u>HLMR BEARING DETAIL</u> <u>20 REO'D (SEE SCHEDULE THIS SHEET)</u>