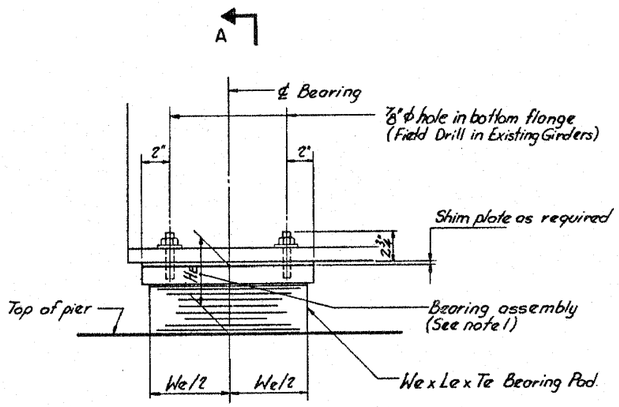
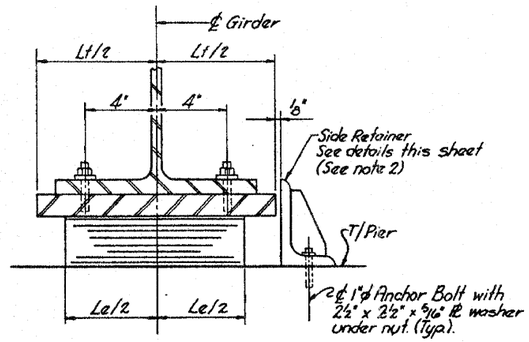
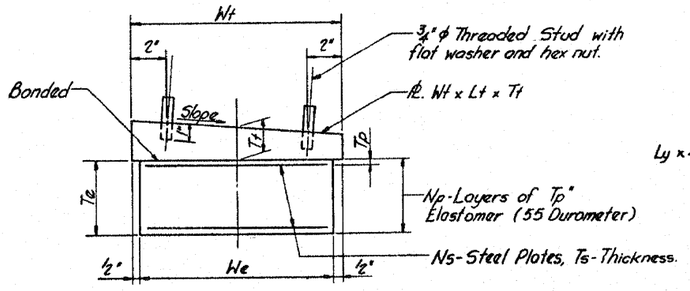


TYPICAL ELEVATION

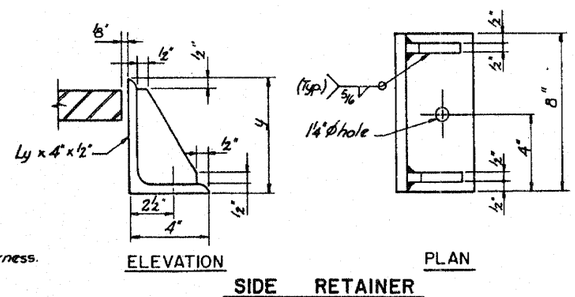


SECTION A-A

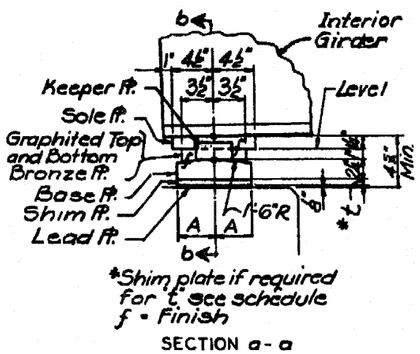
TYPE I ELASTOMERIC EXPANSION BEARING



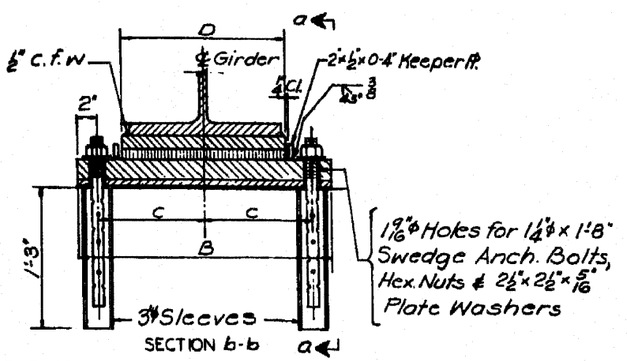
BEARING ASSEMBLY



SIDE RETAINER



SECTION a-a



SECTION b-b

EXPANSION BEARING DETAILS
Scale 1½"=1'-0"

TABLE OF DIMENSIONS - TYPE I ELASTOMERIC EXPANSION BEARINGS

We	Le	Series	Tp	Np	Ts	Ns	Te
7	12	c	3/8	5	3/32	4	2¼
11	16	b	½	3	⅛	4	3
11	16	a	½	7	⅛	6	4¼
9	12	a	3/8	5	3/32	4	2¼
9	12	b	3/8	7	3/32	6	3 5/16
10	14	a	7/16	5	⅛	4	2 11/16
10	14	b	7/16	6	⅛	5	3¾
10	14	d	7/16	8	⅛	7	4 3/8

Tp - denotes thickness of each elastomeric layer.
Np - denotes number of elastomeric layers.
Ts - denotes thickness of each steel plate.
Ns - denotes number of steel plates.

TYPE I ELASTOMERIC EXPANSION BEARING SCHEDULE

STRUCTURE NO.	PIER LOCATION	GIRDER	We	Le	SERIES	TOP PLATE Tt	TOP PLATE Wt	TOP PLATE Lt	TOP PLATE SLOPE %	Y	HE	NO. REQ'D.	REMARKS
016-1140	5(N)	GB1	9	12	b	1½	10	17	3.0	6	4 11/16	1	N, E, ⊛
	16(N)	G16, G20	9	12	a	2	10	14	4.7	6	4¼	2	R, E
		G17-G19	9	12	a	2	10	14	4.7	6	4¼	3	R
016-1140	5(N)	GB2	9	12	b	1½	10	14	3.0	6	4 11/16	1	N, E, ⊛

Remarks: N - New bearing for roadway widening.
E - Exterior girder; side retainer required at inside face.
R - Replacement bearing.
⊛ - Pier No 5 is from STRUCTURE No. 016-1115.

EXPANSION BEARING SCHEDULE

MARK		DIMENSIONS A	B	C	D		REMARKS
E1		4"	2'-3"	11½"	1'-5½"		Typical for 16" flange
E2		4"	1'-10½"	9½"	1'-1"		Typical for 12" flange

Note: Use typical bearings mark E1 and E2 unless otherwise noted.

Notes:
1. Height of bearing assembly, He, includes top plate and elastomeric pad and does not include shim plate.
2. Provide side retainer of inside face of exterior girder.

FILE NAME =	USER NAME = rgell	DESIGNED - AMR	REVISED -
		DRAWN - AMR	REVISED -
	PLOT SCALE = 1.0000 ' / IN.	CHECKED - JMH	REVISED -
	PLOT DATE = 3/28/2011	DATE - MARCH, 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E1, E2 & TYPE 1 ELASTOMERIC EXP. BEARING DETAILS – LOCATION 6
STRUCTURE NO. 016-1140

SCALE: NTS | SHEET NO. 7 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2010-127-BP	COOK	160	107
		CONTRACT NO. 60N01		
	ILLINOIS FED. AID PROJECT			

$FILE$