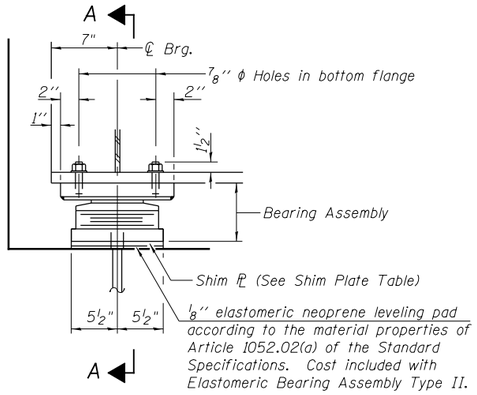
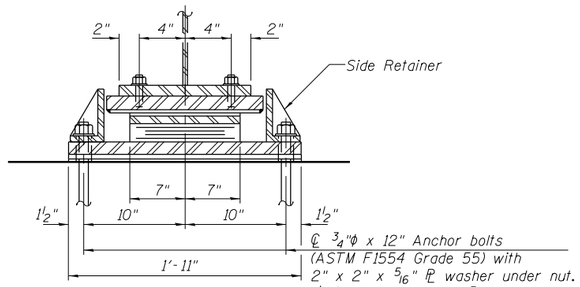
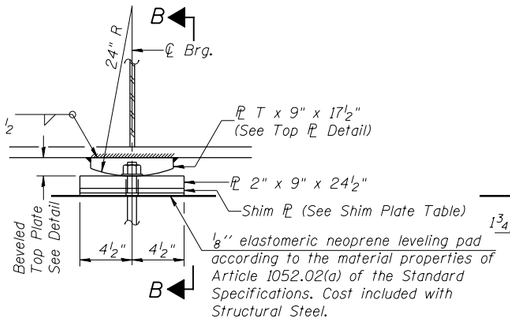


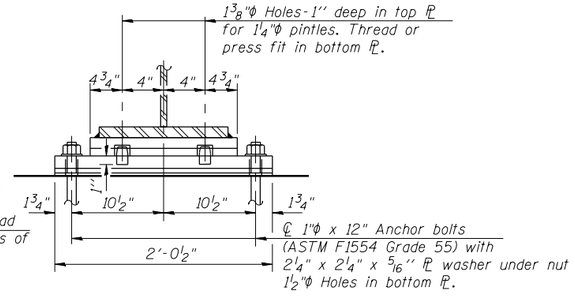
ELEVATION AT S. ABUT. & PIER 3 - UNIT 2



SECTION A-A

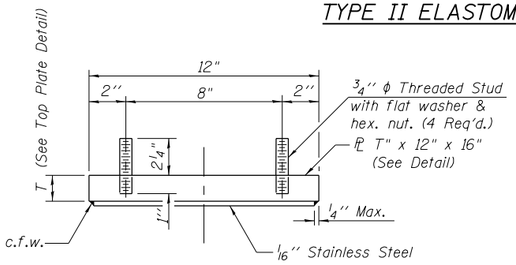


ELEVATION AT PIER 5 - UNIT 2

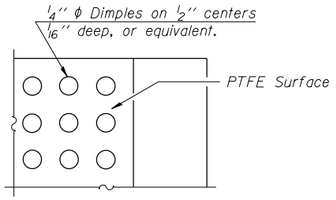


SECTION B-B

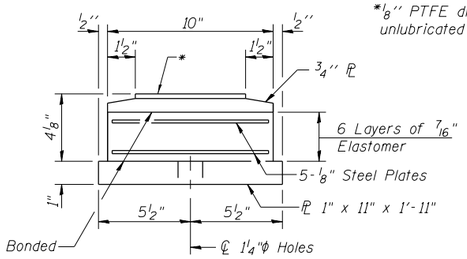
TYPE II ELASTOMERIC EXP. BRG.



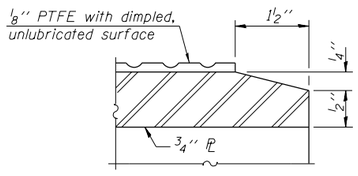
TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

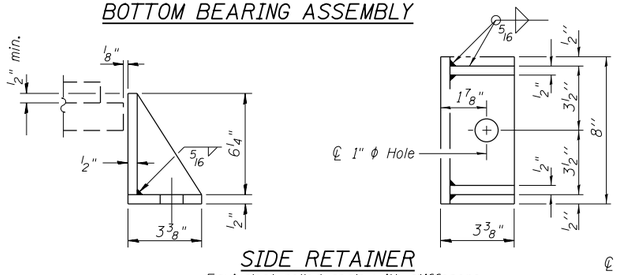


*1/8" PTFE dimpled, unlubricated



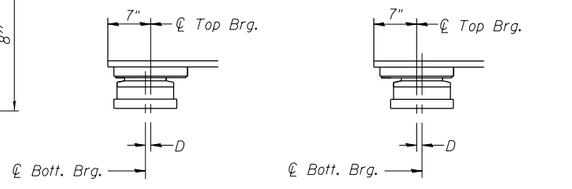
SECTION THRU PTFE

BOTTOM BEARING ASSEMBLY



SIDE RETAINER

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



BELOW 50°F. (Move bott. brg. away from fixed brg.)

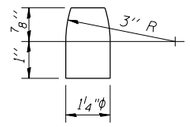
ABOVE 50°F. (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

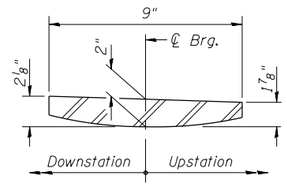
D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

FIXED BEARING

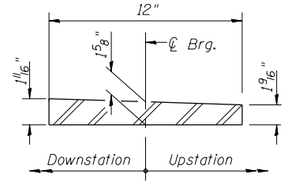
(6 Required)



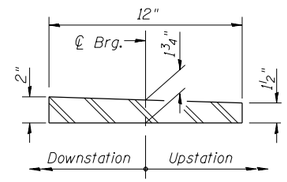
PINTLE



BEVELED TOP PL DETAIL (at Pier 5)



BEVELED TOP PL DETAIL (at Pier 3 - Unit 2)



BEVELED TOP PL DETAIL (at S. Abutment)

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly Type II.

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

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

All bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

H.S. bolts in bearing assembly shall be galvanized according to AASHTO M298 Class 50.

SHIM PLATE TABLE

Location / Beam No.	Shim PL Thickness
Pier 3 / Beam 3	1/4"
Pier 4 / Beam 3	3/8"
Pier 5 / Beam 3	3/8"
Pier 6 / Beam 3	1/4"
S. Abut. / Beam 4	3/8"

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	EACH	12
Anchor Bolts, 3/4"	EACH	24
Anchor Bolts, 1"	EACH	12

Hutchison Engineering, Inc.
Jacksonville, Peoria, & Shorewood, Illinois

USER NAME = bnebel	DESIGNED - JOH	REVISED -
PLOT SCALE = NONE	CHECKED - BAN	REVISED -
PLOT DATE = 9/29/2014	DRAWN - TAC	REVISED -
	CHECKED - JOH/BAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS – UNIT 2
STRUCTURE NO. 062–0086
SHEET NO. 35 OF 62 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(125VBR)BR	MARSHALL	148	60
		CONTRACT NO. 68580		
		ILLINOIS FED. AID PROJECT		

V:\Bridge\3013-Marshall (Phase 2)\0620086-68580-035 -BEARING DETAILS - UNIT 2.dgn