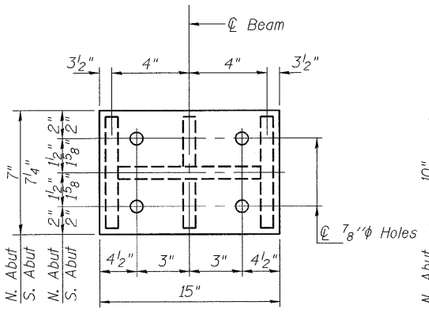
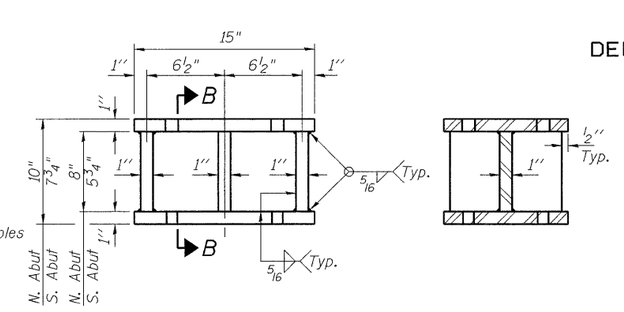
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

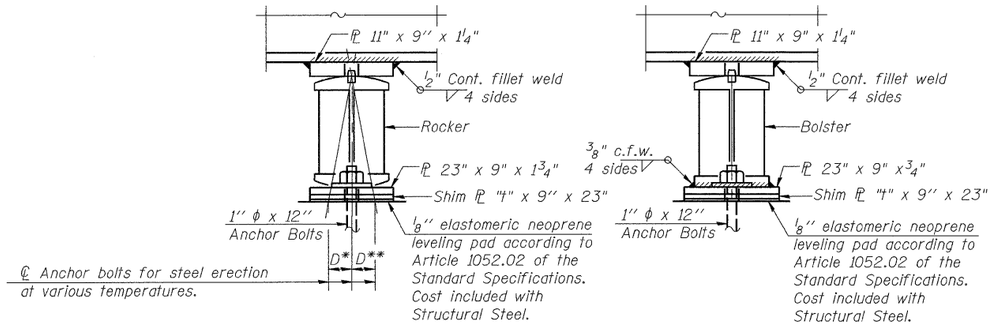


PLAN TOP AND BOTTOM PLATE



STEEL EXTENSION DETAIL

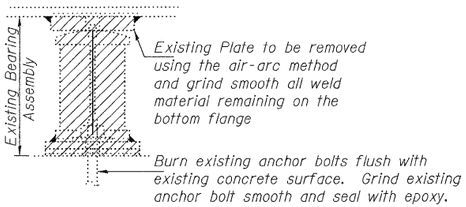
SECTION B-B



BEAM A
PIER 2

D** → Fixed Pier

BEAM A
PIER 1



EXISTING BEARING REMOVAL DETAIL
(Beams B-G at North Abutment and South Abutment, 12 Locations)

Jacking Procedure:

The Contractor shall submit plans for jacking for approval by the Engineer prior to commencing any work at the bearings. This submittal shall include the seal of a licensed Structural Engineer in Illinois.

Jack and Remove Existing bearings shall be done after the existing deck is removed and prior to placing the new deck.

All girders may be lifted simultaneously, or if lifted individually, the maximum lift shall be ⅛". Simultaneous jacking of all bearings at a support shall be limited to a maximum lift of¼".

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings shall be installed in holes drilled after the supported member is in place.

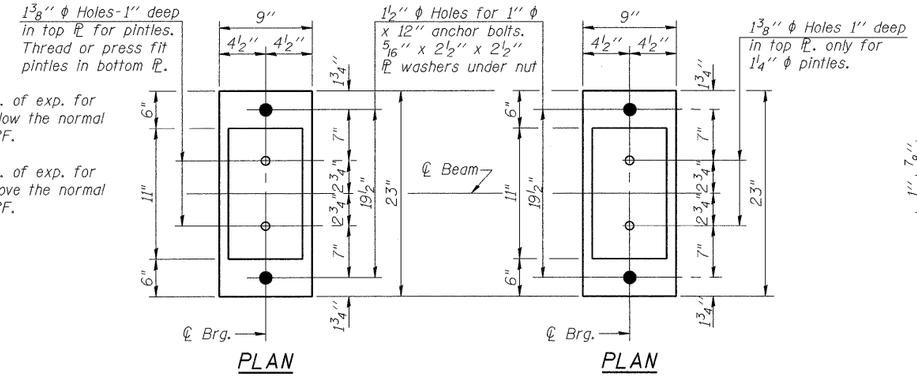
Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

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 bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The ⅛" 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 ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

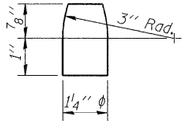


PLAN

PLAN

* D=⅛"/100 ft. of exp. for every 15° below the normal temp. of 50°F.

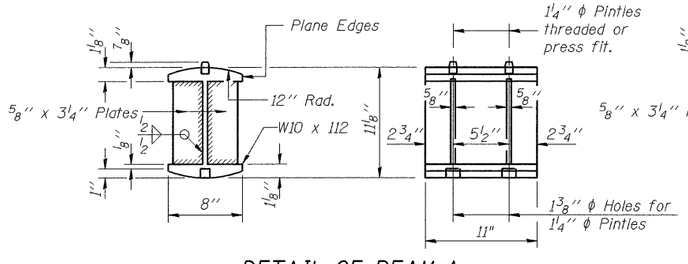
** D=⅛"/100 ft. of exp. for every 15° above the normal temp. of 50°F.



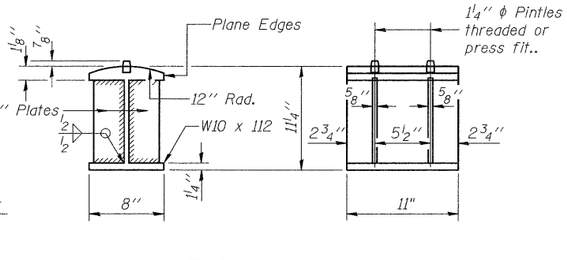
DETAIL OF
PINTLE

BILL OF MATERIAL

Item	Unit	Total
Jack and Remove Existing Bearings	Each	12
Jack and Reposition Bearings	Each	12
Elastomeric Bearing Assembly Type I	Each	7
Elastomeric Bearing Assembly Type II	Each	7
Anchor bolts 1"	Each	32



DETAIL OF BEAM A
ROCKER AT PIER 2



DETAIL OF BEAM A
BOLSTER AT PIER 1

DESIGNED	SK/GMK/LCM
CHECKED	GBC/GMK/SMK
DRAWN	RR/LCM/SK
CHECKED	GBC/GMK/SMK

BEARING DETAILS-2
SOUTHBOUND ILLINOIS ROUTE 394 OVER PLUM CREEK
STATION 20+07.55

Delta Engineering, Inc.
CONSULTING ENGINEERS, CONSTRUCTION MANAGERS, SURVEYORS
111 W. Jackson Blvd. Suite 1160 Chicago, IL 60604-3501

SHEET NO. 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23 SHEETS	332	2002-113R	WILL	242	186
		SN-099-0183	CONTRACT NO. 62542		
	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		