

ROJECTS\60046609\In\_Progress\PLANS\DBTRI-76C51-SN082-0326.dgr

SHEET S36 SI



## SECTION A-A

## FIXED BEARING AT ABUTMENTS

#### (12 Required)

Guidea Pier

377.7

233.8

611.5

0.030

.2"

Unit

Kips

Kips

Kips

Radians

Inch

Each

A**∢**₁

11-71

A◀

€ Brg.

Notes:

Anchor bolts shall conform to Article 1006.09 of the Standard Specifications.

All anchor bolts, washers and nuts shall be galvanized according to Article 1006.09 of the Standard Specifications. H.S. bolts in the bearing assembly shall be galvanized according to AASHTO M298, Class 50.

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 Abutment bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for Pier bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place.

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

The '8" PTFE sheet shall be bonded directly to the piston 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  $l_{g}''$  PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

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

The structural steel plates of the Pot Bearing Assembly and the Fixed Bearing shall conform to the requirements of AASHTO M270, Grade 50.

# BILL OF MATERIAL

Item	Unit	Total	
HLMR Bearings, Guided Expansion, 650K	Each	6	
Anchor Bolts 1"	Each	24	
Anchor Bolts 14"	Each	24	

### BEARING DETAILS STRUCTURE NO. 082-0326

NO. 523	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1101 020		82-1-3HB, 82-2N, 82-1-12RS	ST. CLAIR	352	225
BHEETS	F.A.L	J. 9166 / F.A.U. 9180 F.	CONTRACT	NO. 76	C51
	FED. RO	DAD DIST. NO. ILLINOIS FED. A	ID PROJECT		