

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(69-9B) BRR	MORGAN	5*	1
		ILLINOIS	CONTRACT NO. 72M92	

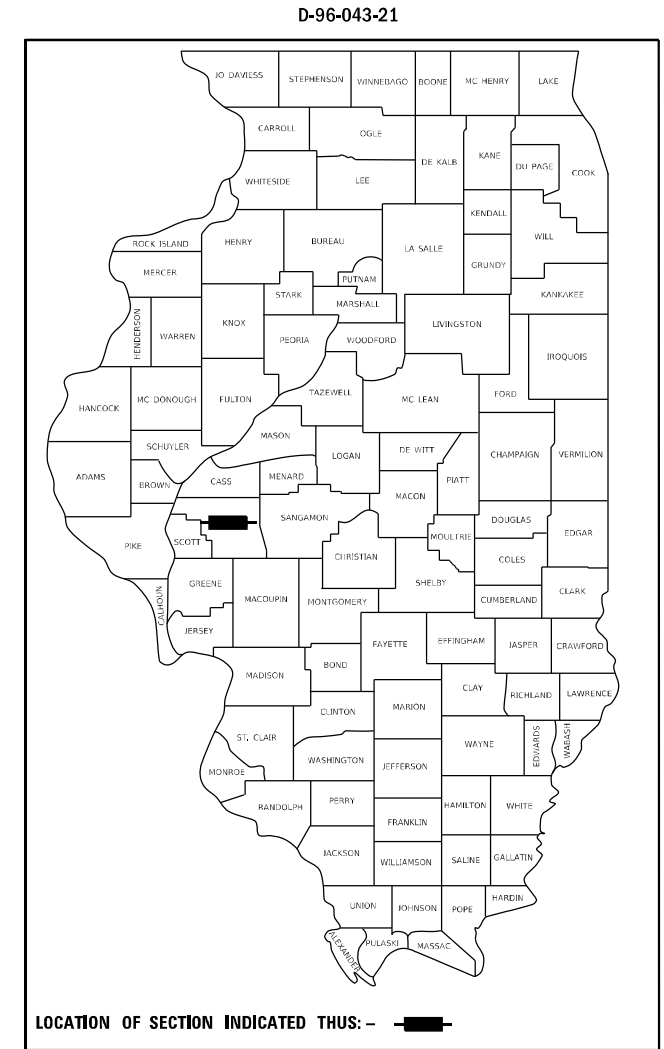
\* 5 + 1 = 6 TOTAL SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

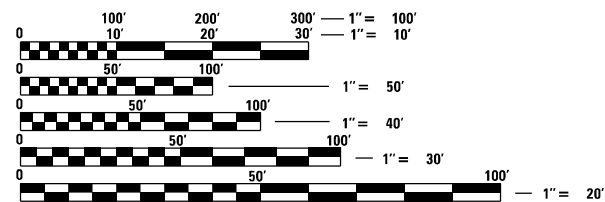
# PROPOSED CONTRACT MAINTENANCE

FAI ROUTE 72 (I-72)  
SECTION (69-9B) BRR  
PROJECT (STATE ONLY)  
BRIDGE BEARING REPLACEMENT  
MORGAN COUNTY

C-96-114-21

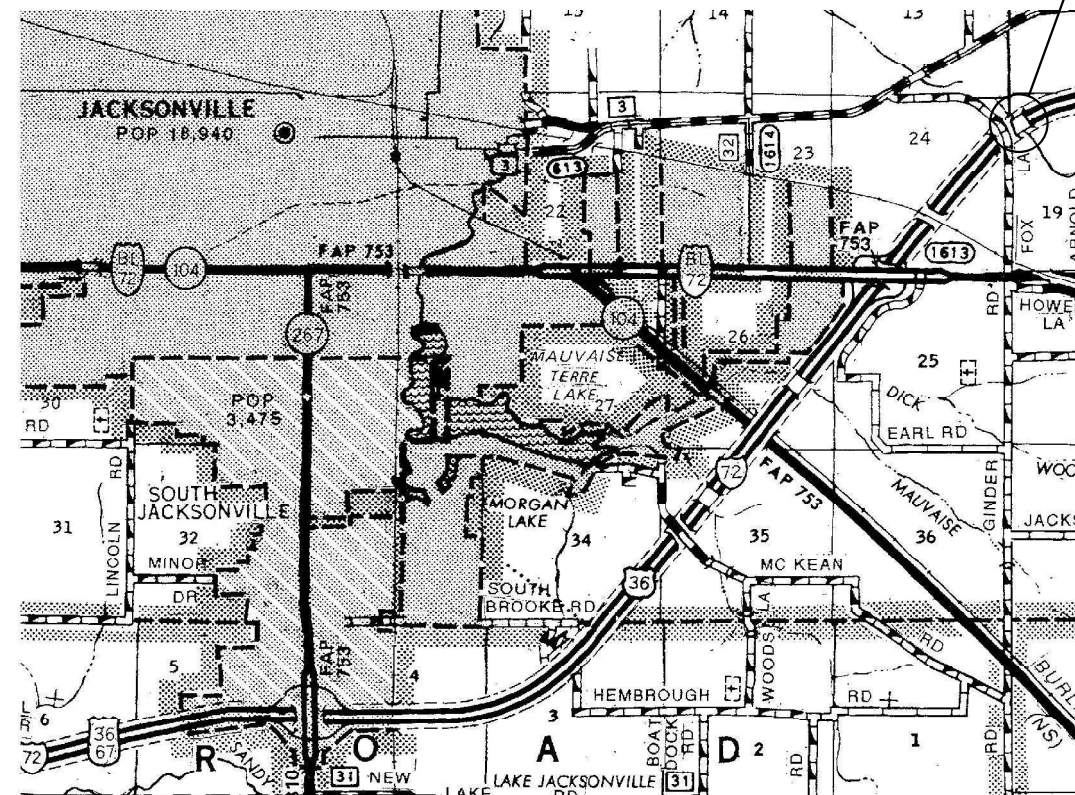


PROJECT LOCATION  
SN 069-0048 & 0049  
I-72 OVER  
N FK MAUVAISE TERRE  
1.1 MI E MORTON AVE.



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811



BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY - (217) 785-9290

GROSS LENGTH = 257 FT. = 0.05 MILE  
NET LENGTH = 257 FT. = 0.05 MILE

CONTRACT NO. 72M92

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 4, 20 21

*John P. Meyer*  
REGIONAL ENGINEER

October 1, 20 21  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

October 21, 20 21  
*Stephen M. Smith*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

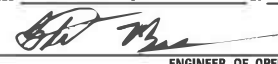
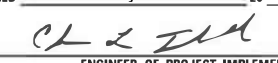
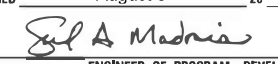
INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX, STANDARDS, SIGNATURES, & GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4-5A SN 069-0048 & 0049 BRIDGE PLANS

STANDARDS

- 000001-08
- 001001-02
- 001006
- 701101-05
- 701106-02
- 701400-10
- 701401-12
- 701901-08

GENERAL NOTES:

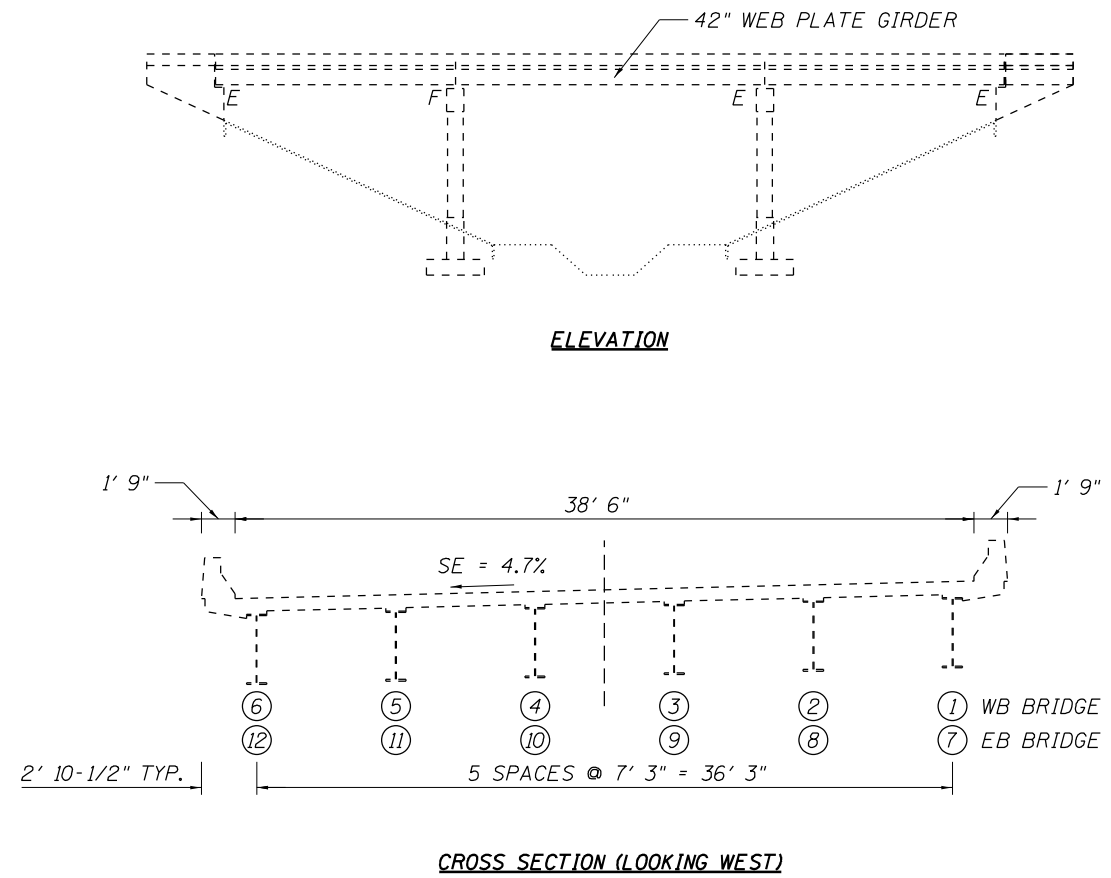
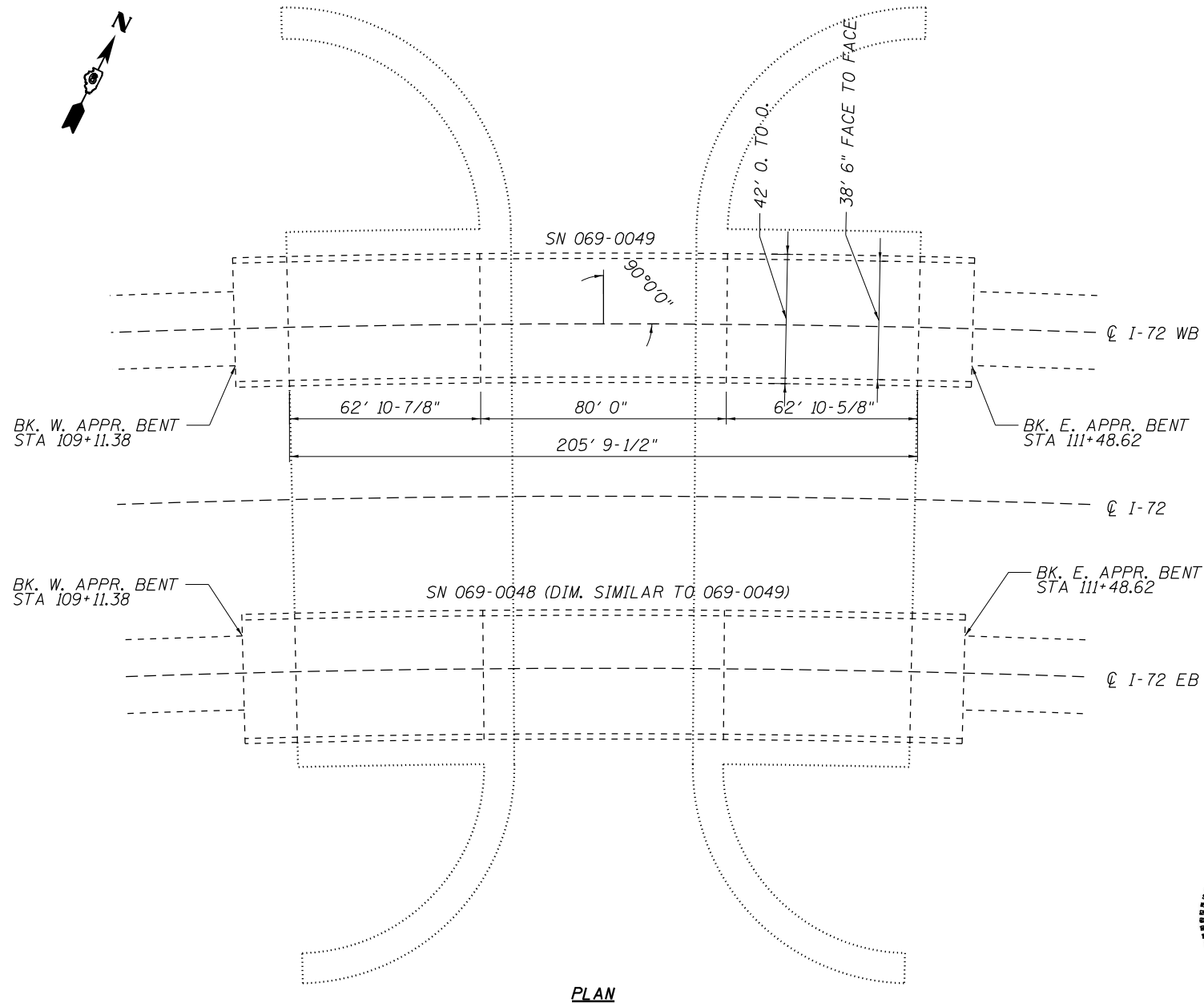
<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6</b>	
EXAMINED	July 26 20 21
 ENGINEER OF OPERATIONS	
EXAMINED	July 26 20 21
 ENGINEER OF PROJECT IMPLEMENTATION	
EXAMINED	August 3 20 21
 ENGINEER OF PROGRAM DEVELOPMENT	

MODEL: Default  
FILE NAME: C:\OPERATIONS\Bridges\Bridges.dwg - 0690048 & 0049 bearingplanssheet.dwg

REV. - MS

	USER NAME = dudleybm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STANDARDS, GENERAL NOTES, &amp; SIGNATURES</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			72	(69-9B) BRR	MORGAN	5	2	
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED +			CONTRACT NO. 72M92					
	PLOT DATE = 8/4/2021	DATE -	REVISED +			ILLINOIS   FED. AID PROJECT					
				SCALE: SHEET OF SHEETS STA. TO STA.							





**STRUCTURE GENERAL NOTES:**

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 36 UNLESS OTHERWISE NOTED.

EXISTING STRUCTURAL STEEL THAT WILL BE IN CONTACT WITH NEW STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED PRIOR TO ERECTION AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING CONTACT SURFACE AREAS OF EXISTING STEEL STRUCTURES".

ALL NEW STRUCTURAL STEEL AND BEARING ASSEMBLIES SHALL BE HOT-DIP GALVANIZED. SEE SPECIAL PROVISIONS FOR "HOT DIP GALVANIZING FOR STRUCTURAL STEEL".

**TOTAL BILL OF MATERIAL (069-0048 & 0049)**

ITEM	UNIT	QUANTITY
Elastomeric Bearing Assembly, Type I	Each	24
Jack and Remove Existing Bearings	Each	24
Furnishing and Erecting Structural Steel	Pound	4290
Anchor Bolts, 1" φ	Each	48

MODEL: D:\p1\h... FILE NAME: C:\OPERATIONS\Bridges\Bridges\CAD\72M92 - 0690048 & 0049\ecstructural\sheet.dgn

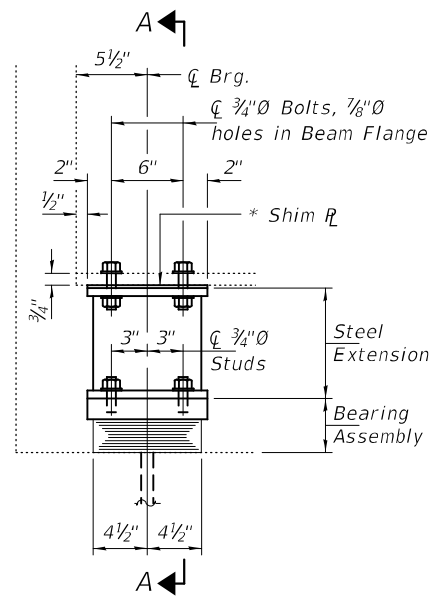
USER NAME = dudleybm	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/4/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE PLAN & ELEVATION  
SN 069-0048 & 0049**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

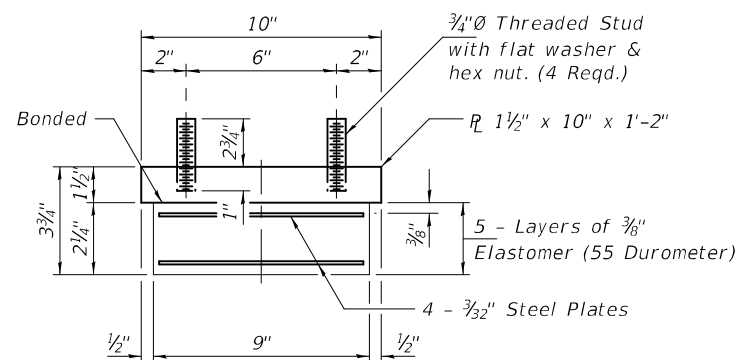
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(69-9B) BRR	MORGAN	5	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M92	



**ELEVATION AT ABUTMENT**

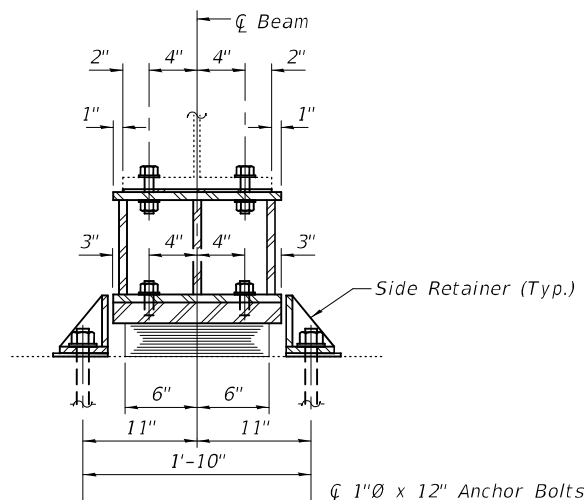
**TYPE I ELASTOMERIC EXP. BRG.**

\* Shim plates to be installed to maintain equal slope across the joint.



**BEARING ASSEMBLY**

Note:  
Shim plates shall not be placed under Bearing Assembly.



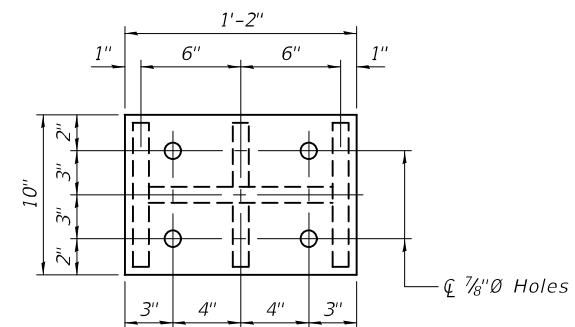
**SECTION A-A**

Side Retainer (Typ.)  
1"Ø x 12" Anchor Bolts with 2 1/4" x 2 1/4" x 5/16" R washer under nut.

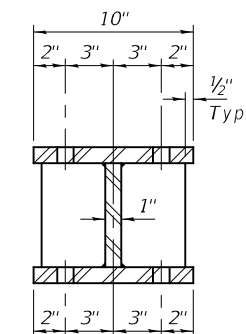
**BEAM REACTIONS**

R <sub>l</sub>	(K)	30.3
R <sub>r</sub>	(K)	39.4
Imp.	(K)	10.5
R (Total)	(K)	80.2

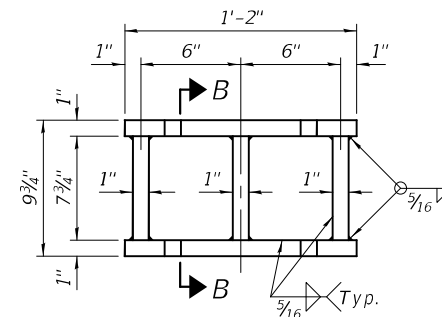
Notes:  
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.  
New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.  
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).  
Min. jack capacity = 42 Tons.  
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 (F<sub>y</sub>=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



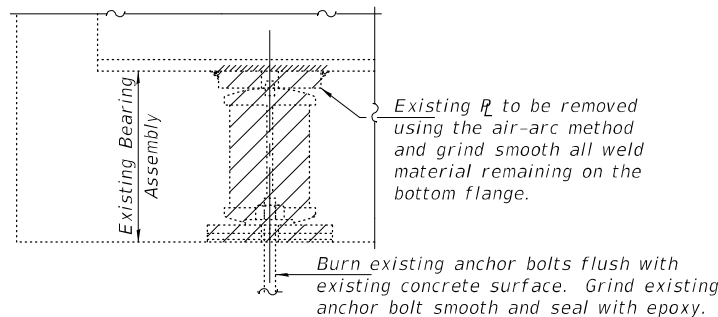
**PLAN TOP AND BOTTOM PLATE**



**SECTION B-B**

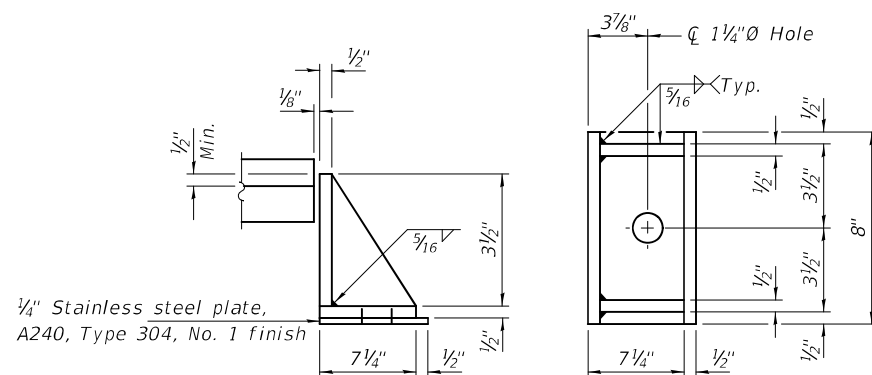


**STEEL EXTENSION DETAIL**



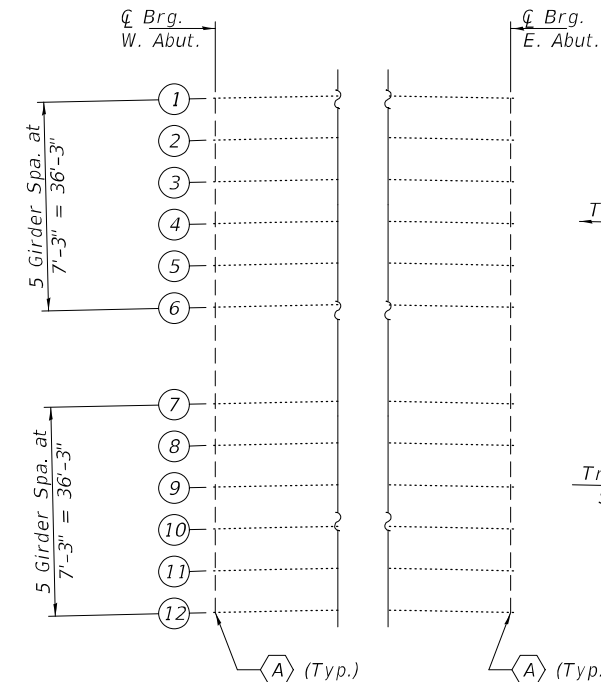
**EXISTING BEARING REMOVAL DETAIL**

Cost included with Jack and Remove Existing Bearings.



**SIDE RETAINER**

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



**PARTIAL PLAN**

(A) - Bearing Replacement

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	12
Jack and Remove Existing Bearings	Each	12
Furnishing and Erecting Structural Steel	Pound	2210
Anchor Bolts, 1"Ø	Each	24

TYI/REPS 5-17-2018

DESIGNED - Victor H. Veliz  
CHECKED - Stephen M. Ryan  
DRAWN - daburdell  
CHECKED - VHV SMR

EXAMINED - Timothy A. [Signature]  
PASSED - [Signature]  
ENGINEER OF STRUCTURAL SERVICES  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - SEPTEMBER 27, 2021  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BEARING REPLACEMENT DETAILS - WEST ABUTMENT  
SN 069-0048 (EB) & 0049 (WB)

SHEET NO. 1 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(69-9B) BRR	MORGAN	5	5
CONTRACT NO. 72M92				
ILLINOIS FED. AID PROJECT				

