

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

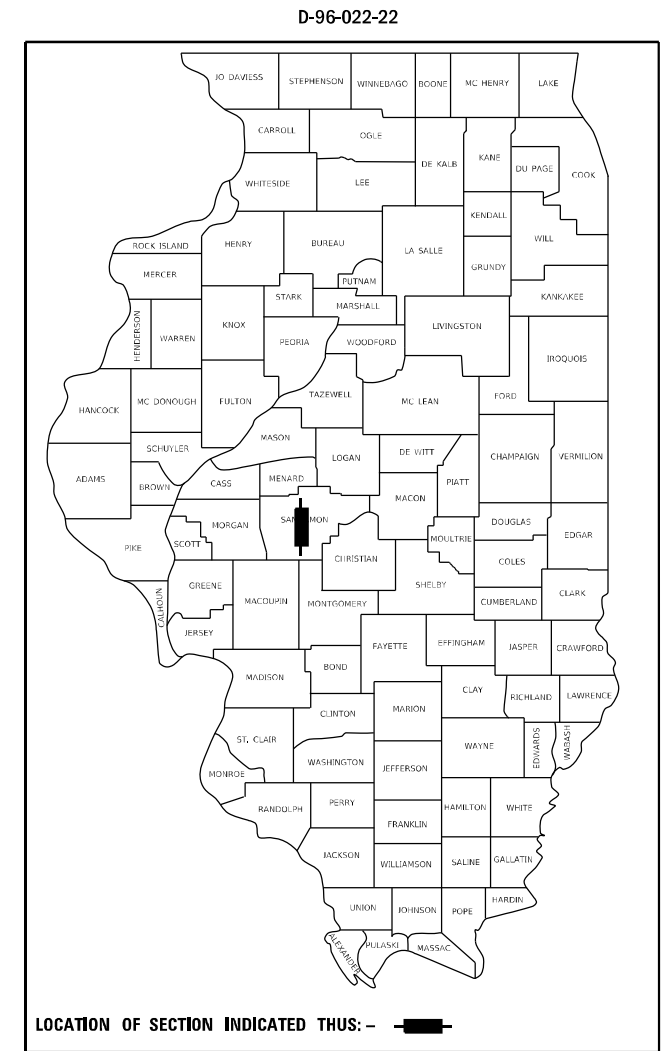
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(3-VB)BRR	SANGAMON	7	1
		ILLINOIS	CONTRACT NO. 72N45	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

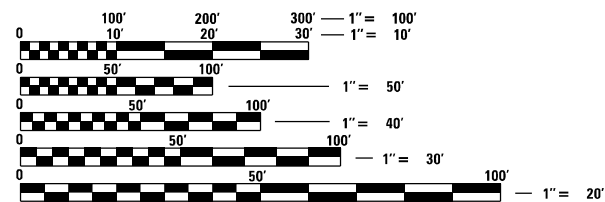
PROPOSED CONTRACT MAINTENANCE

FAP ROUTE 662 (IL 4)
SECTION (3-VB)BRR
PROJECT (STATE ONLY)
BRIDGE BEARING REPLACEMENT
SANGAMON COUNTY

C-96-026-22

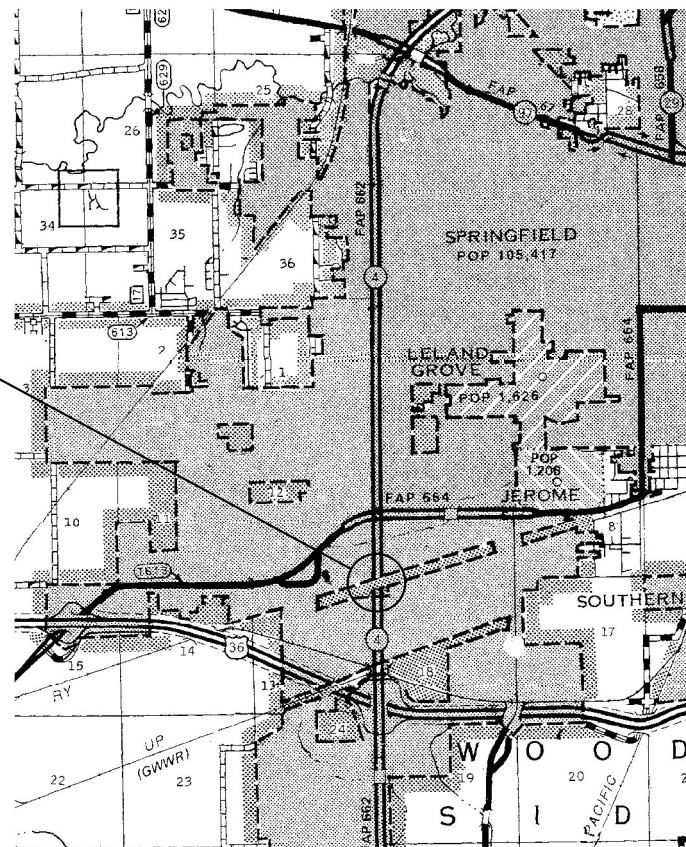


PROJECT LOCATION
SN 084-0134 & 0135
IL 4 OVER ICRR (ABANDONED)
0.3 MI N I-72



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 = 155 FT. = 0.03 MILE
NET LENGTH = 155 FT. = 0.03 MILE

CONTRACT NO. 72N45

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 22, 2023

John P. Meyer
REGIONAL ENGINEER

May 12, 2023 *Scott A. Etkin*
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023 *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
- 4-5 SN 084-0135 TRAFFIC CONTROL PLAN
- 6-7 SN 084-0134 & 0135 BRIDGE PLANS




STANDARDS

- 000001-08
- 001001-02
- 001006
- 701101-05
- 701106-02
- 701422-10
- 701901-08

GENERAL NOTES:

THE CONTRACTOR SHALL CORRECT ELEVATION DIFFERENCES IN THE PROFILE GRADE ACROSS THE EXISTING EXPANSION JOINTS AT THE ENDS OF THE DECK. THIS SHALL BE ACCOMPLISHED BY ADDING SHIM PLATES AT LOCATIONS SHOWN ON THE PLANS. NO MORE THAN 2 SHIM PLATES SHALL BE ADDED TO EACH BEARING LOCATION. HOWEVER, THE CONTRACTOR IS ENCOURAGED TO USE THE MINIMAL NUMBER OF SHIMS AT EACH LOCATION AND MINIMUM SHIM THICKNESS SHALL BE 1/8". THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING DIMENSIONS AND PROPOSE ALL VERTICAL ADJUSTMENTS TO THE ENGINEER PRIOR TO ORDERING THE EXTRA SHIMS. THE ALLOWABLE ELEVATION TOLERANCES BETWEEN THE TWO SIDES OF THE EXPANSION JOINTS SHALL BE ±1/4". RECORDING ACCURATE MEASUREMENTS AND ORDERING PROPERLY SIZED BEARING EXTENSIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

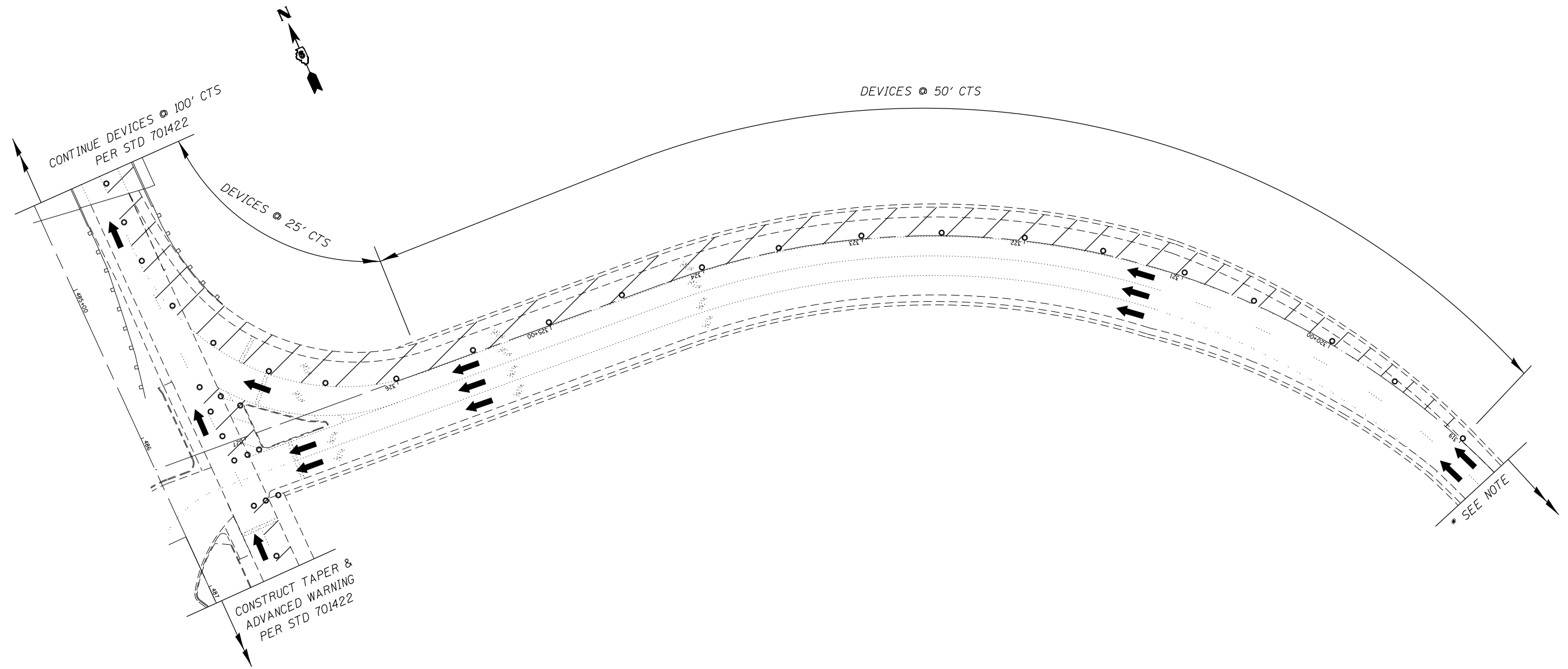
TRAFFIC CONTROL FOR SN 084-0134 (SB) SHALL CONFORM TO STANDARD 701422. TRAFFIC CONTROL FOR SN 084-0135 (NB) SHALL CONFORM TO STANDARD 701422, EXCEPT AS MODIFIED IN THE TRAFFIC PLAN DETAILS.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6	
EXAMINED	March, 17 20 23
 ENGINEER OF OPERATIONS	
EXAMINED	March, 21 20 23
 ENGINEER OF PROJECT IMPLEMENTATION	
EXAMINED	March, 21 20 23
 ENGINEER OF PROGRAM DEVELOPMENT	

MODEL: Default
FILE NAME: S:\Addresses\Bridges\CAD\72N45 - 0840134 & 0135 Bearings\plan sheet.dgn

	USER NAME = Brandon.Dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STANDARDS, GENERAL NOTES, & SIGNATURES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			662	(3-VB)BRR	SANGAMON	7	2	
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 72N45					
	PLOT DATE = 3/22/2023	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:		SHEET OF SHEETS		STA. TO STA.			

MODEL: Default
 FILE NAME: S:\Addresses\Bridges\Barrs_CAD\72N45 - 0840134 & 0135 BarringsPlanSheet.dgn



● TY 2 BARRICADE, DRUM, OR VERTICAL BARRICADE

 DENOTES AREAS CLOSED TO TRAFFIC

* NOTE: ADVANCED WARNING ON THE I-72 OFF RAMP SHALL CONSIST OF A "RIGHT LANE CLOSED AHEAD" AND A "ROAD CONSTRUCTION AHEAD" SIGN SPACED AT 800' EACH.

USER NAME = Brandon.Dudley	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/22/2023	CHECKED -	REVISIED -
	DATE -	REVISIED -

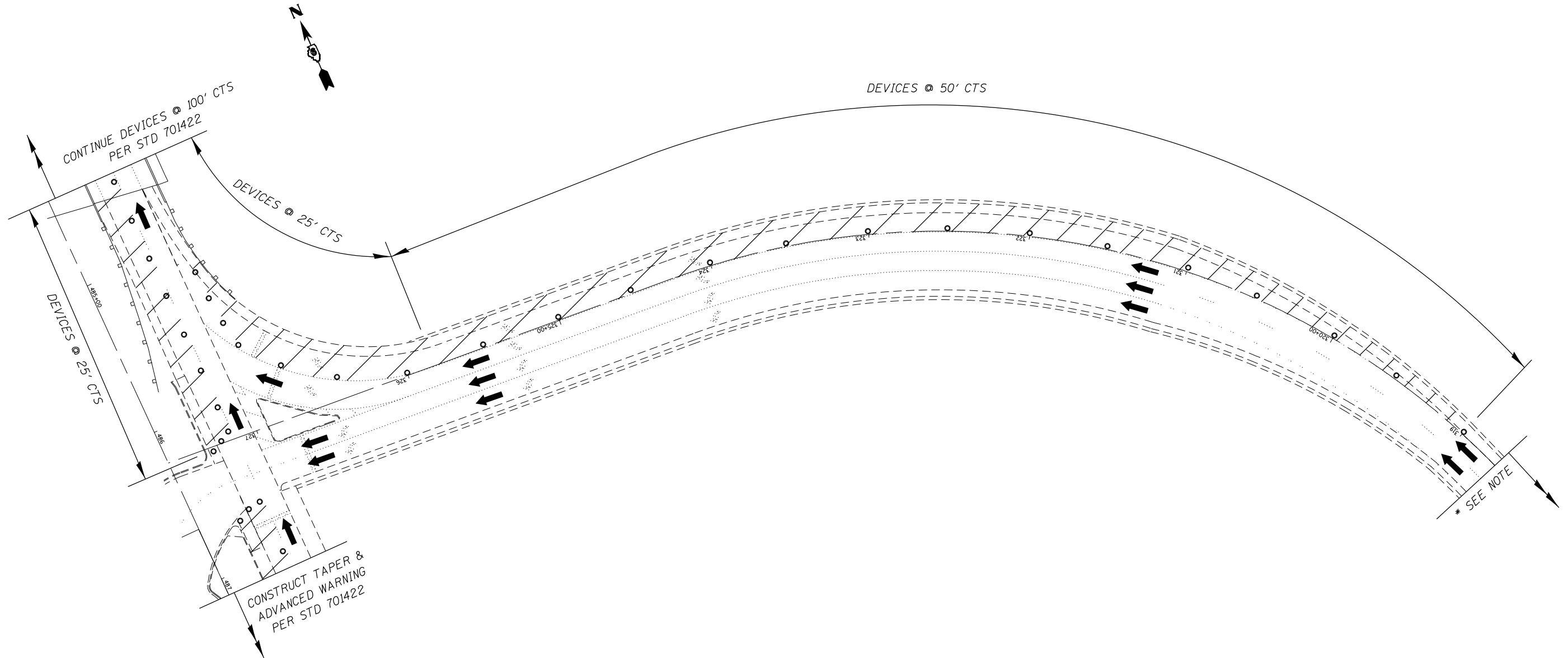
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 084-0135 STAGE I TRAFFIC

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 662	SECTION (3-VB)BRR	COUNTY SANGAMON	TOTAL SHEETS 7	SHEET NO. 4
CONTRACT NO. 72N45				
ILLINOIS FED. AID PROJECT				

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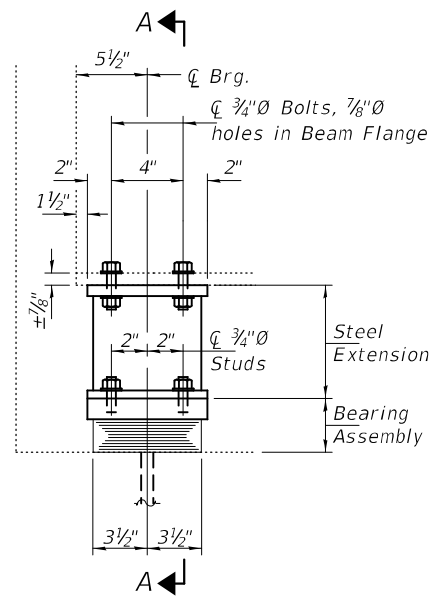
USER NAME = Brandon.Dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SN 084-0135 STAGE II TRAFFIC

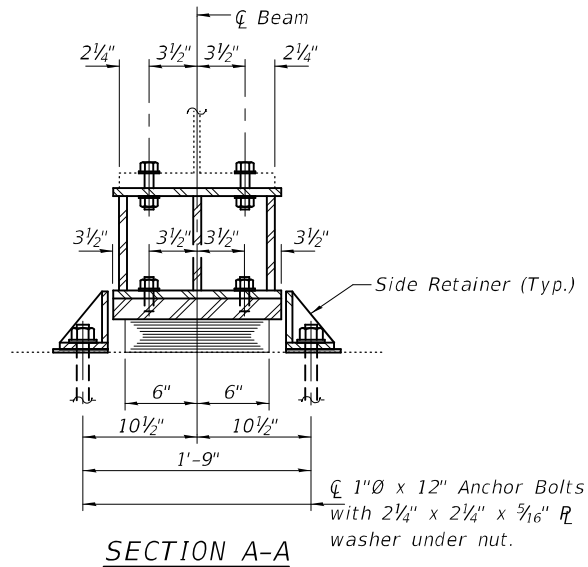
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(3-VB)BRR	SANGAMON	7	5
CONTRACT NO. 72N45				
ILLINOIS FED. AID PROJECT				



ELEVATION AT BOTH ABUTMENT'S

TYPE I ELASTOMERIC EXP. BRG.

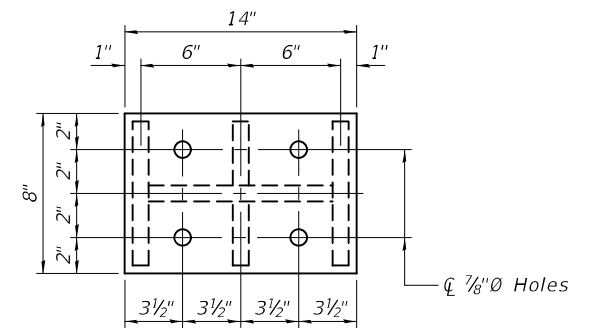


SECTION A-A

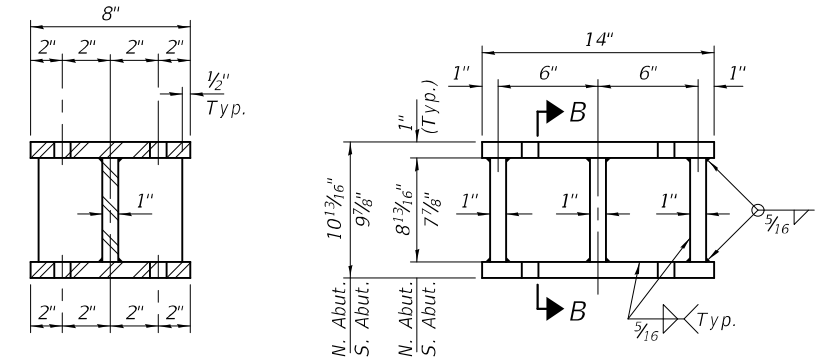
BEAM REACTIONS

		N. Abut.	S. Abut.
R _D	(K)	24.6	24.6
R _L	(K)	41	41
Imp.	(K)	11.8	11.8
R (Total)	(K)	77.4	77.4

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 = 39 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 (Fy=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.

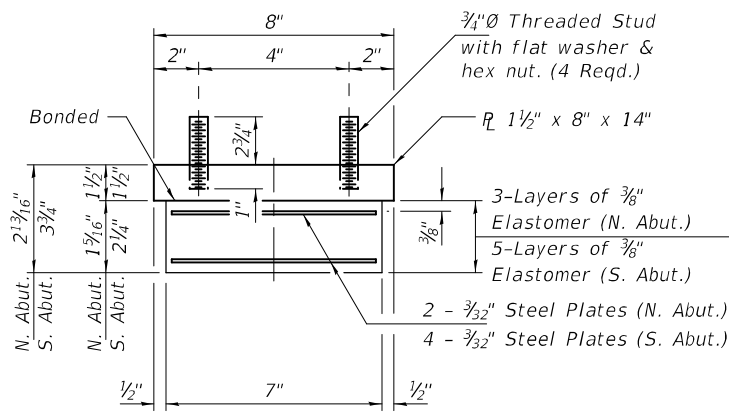


PLAN TOP AND BOTTOM PLATE



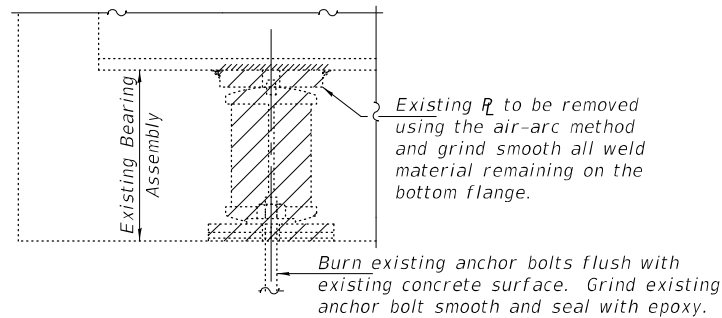
SECTION B-B

STEEL EXTENSION DETAIL



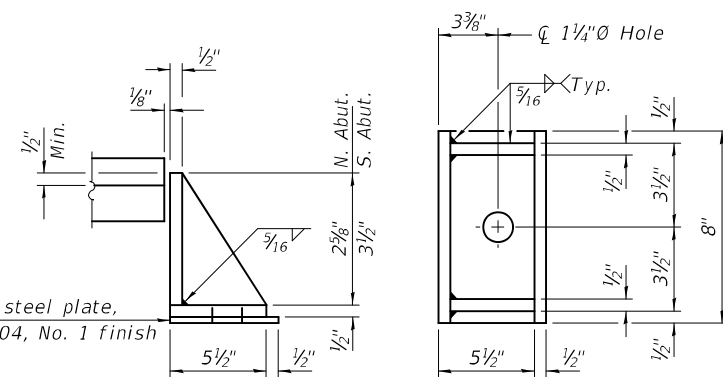
BEARING ASSEMBLY

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



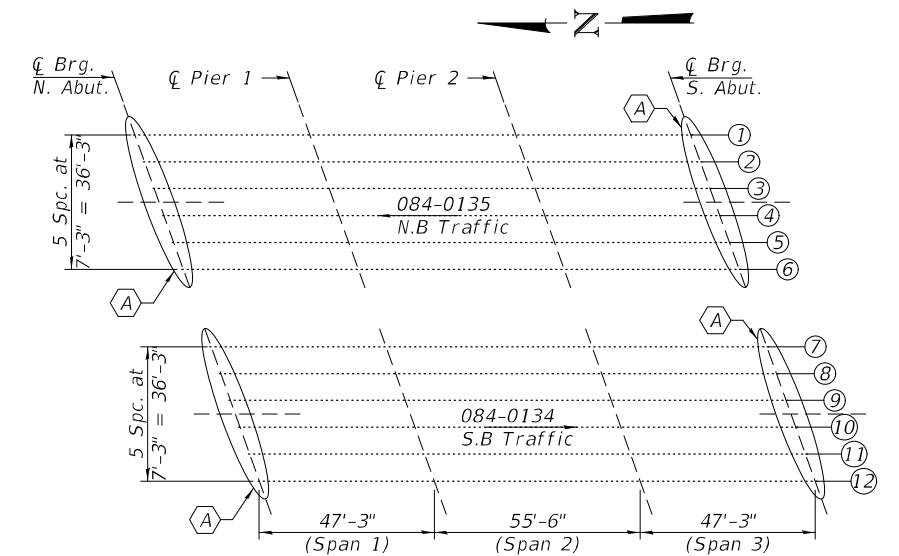
EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



SIDE RETAINER

(48 Required)
 Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



PARTIAL FRAMING PLAN

(A) - Bearing Removal and Replacement.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Jack and Remove Existing Bearings	Each	24
Elastomeric Bearing Assembly, Type I	Each	24
Furnishing and Erecting Structural Steel	Pound	3420
Anchor Bolts, 1"Ø	Each	48



EXPIRES 11-30-2024

DESIGNED - Adrian T. Halloway
 CHECKED - Stephen M. Ryan
 DRAWN - Venkat Ramana Reddy
 CHECKED - ATH SMR

PASSED
 Jayme F. Schiff
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 11, 2023
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
 VETERANS / IL 4 OVER OLD IC RR R.O.W.
 SN 084-0134 (SB) & 0135 (NB)

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D6 Bridge Repairs 2023	SANGAMON	7	6
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 72N45

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DESIGNED - ATH
CHECKED - SMR
DRAWN - Venkat Ramana Reddy
CHECKED - ATH SMR

PASSED


ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 11, 2023

REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLANK SHEET
SN 084-0134 (SB) & 0135 (NB)

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D6 Bridge Repairs 2023	SANGAMON	7	7
			CONTRACT NO. 72N45	
		ILLINOIS	FED. AID PROJECT	