

PROJECT	DESIGNATION
0501212	-
CONTRACT	BRIDGE FILE
R-28940	I-65-054-04651 DNBL & DSBL

INDEX				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
I65-054-04651 DNBL I65-054-04651 DSBL	BRIDGE REHABILITATION TWIN STEEL BEAM & PLATE GIRDER BRIDGES	20 SPANS: 50'-7 1/2", 63'-0", 2 @ 75'-0", 62'-0 1/2", 110'-0", 140'-0", 110'-0", 62'-6", 4 @ 75'-0", 2 @ 62'-6", 3 @ 75'-0", 63'-0", 50'-6" SKEW: 0	EAST FORK WHITE RIVER	STA. 2420+33.74 "A"

KIN DESIGNATION NUMBERS		
PART	DESIGNATION	DESCRIPTION
1	0501212	I-65 ROAD PLANS
2	0501212	I-65 CROSS SECTIONS
3	0501212	I-65 TRAFFIC PLANS
4	1601732 & 1601733	I-65 OVER CSX RAILROAD
5	1592538 & 1592536	I-65 OVER MUTTON CREEK DITCH
6	1601840 & 1601970	I-65 OVER EAST FORK OF WHITE RIVER
7	1601841 & 1601920	I-65 OVER EAST FORK OF WHITE RIVER, OVERFLOW NO. 1
8	1592568 & 1592576	I-65 OVER EAST FORK OF WHITE RIVER, OVERFLOW NO. 2
9	1592575 & 1592589	I-65 OVER EAST FORK OF WHITE RIVER, OVERFLOW NO. 3
10	1592590 & 1592592	I-65 OVER L & I RAILROAD
11	1592595 & 1592594	I-65 OVER ABLE DITCH
12	1592600 & 1592599	I-65 OVER SMALLS CREEK
13	1700256	ENOS ROAD OVER I-65
13	1700257	CR 800 NORTH OVER I-65
13	1700258	REDDING ROAD OVER I-65
13	1700259	SR 11 OVER I-65
13	1700260	COUNTYLINE ROAD OVER I-65
13	1700261	CR 950 SOUTH OVER I-65
13	1700262	CR 625 SOUTH OVER I-65
14	1383528 & 1383529	I-65 OVER DENOIS CREEK

INDIANA DEPARTMENT
OF TRANSPORTATION

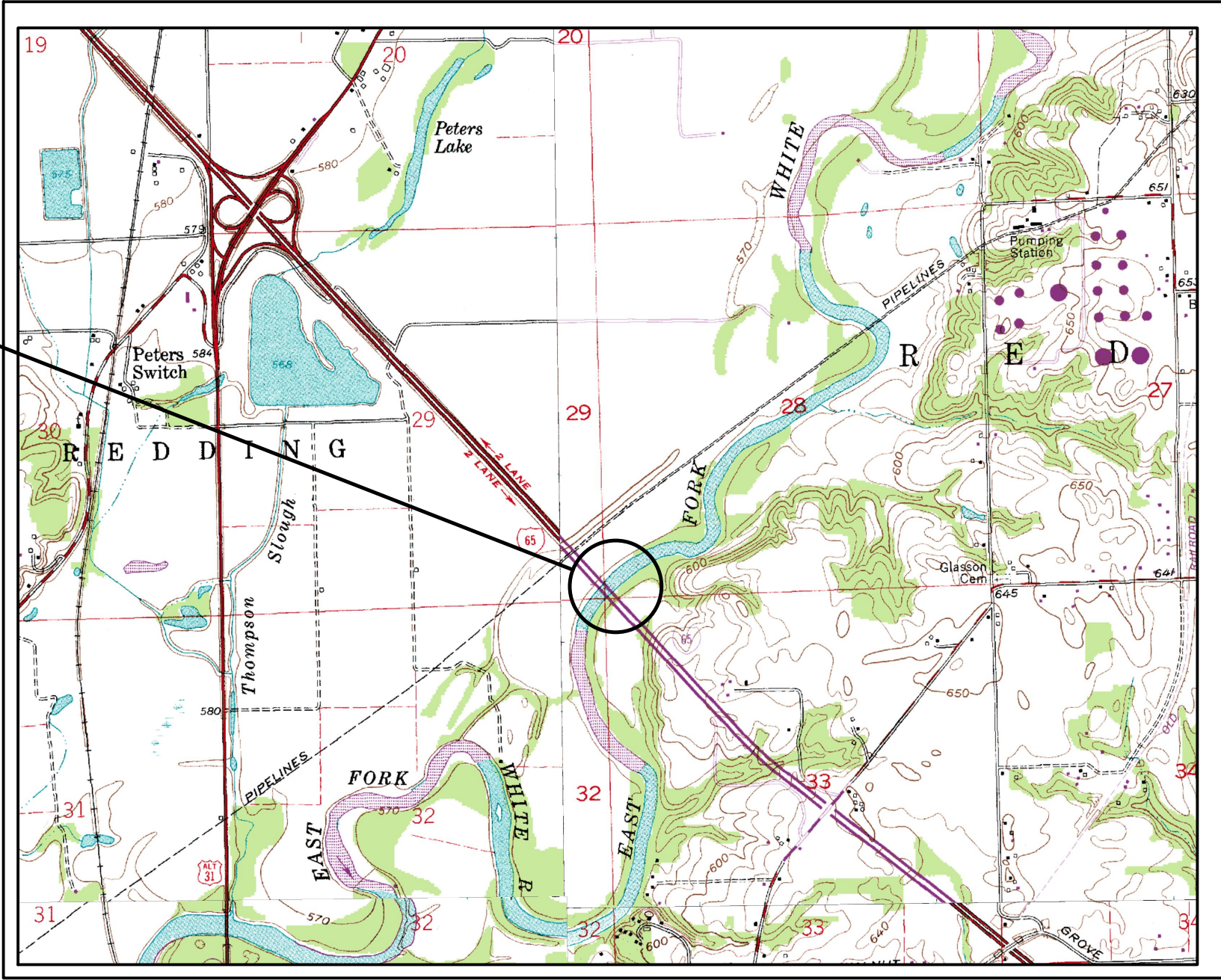


BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET
INTERSTATE 65 OVER
EAST FORK OF WHITE RIVER

PROJECT NO. 0501212 P.E.
PROJECT NO. 0501212 CONST.
RP 53+0.912

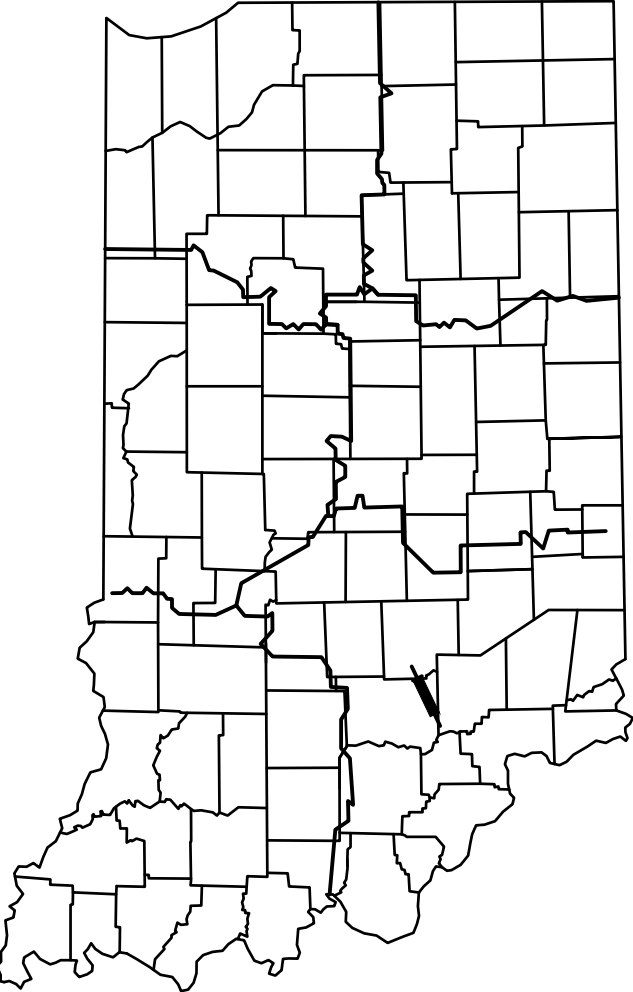
This Bridge Rehabilitation is on Interstate 65 over East Fork White River
Located in Section 28, of Township 7 North, Range 6 East, Redding Township,
in Jackson County Indiana.



LOCATION MAP

R-28940
Part 6 of 14

TRAFFIC DATA		I-65
A.D.T. (2019)		31,320 V.P.D.
A.D.T. (2039)		34,310 V.P.D.
D.H.V. (2039)		2,740 V.P.H.
DIRECTIONAL DISTRIBUTION		50%
TRUCKS		38% A.A.D.T.
		29% D.H.V.
DESIGN DATA		
DESIGN SPEED		70 M.P.H.
PROJECT DESIGN CRITERIA		PARTIAL RECONSTRUCTION 4R (FREEWAY)
FUNCTIONAL CLASSIFICATION		INTERSTATE
RURAL/URBAN		RURAL
TERRAIN		LEVEL
ACCESS CONTROL		FULL



PROJECT LOCATION SHOWN BY —

JACKSON COUNTY

LATITUDE: 39°00'45.25" N LONGITUDE: 85°52'22.48" W

BRIDGE LENGTH : 0.54 MI.
ROADWAY LENGTH : 13.71 MI.
TOTAL LENGTH : 14.25 MI.
MAX GRADE: 2.8%

[INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2016 TO BE
USED WITH THESE PLANS]



1625 N. Post Road
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Phone: 317-895-2585
Fax: 317-895-2596 Web: www.ucindy.com

PLANS
PREPARED BY: UNITED CONSULTING (317) 895-2585
PHONE NUMBER

CERTIFIED BY: _____ DATE

APPROVED
FOR LETTING: _____ DATE

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE FILE
I-65-054-04651 DNBL & DSBL
DESIGNATION
-

SURVEY BOOK		SHEETS	
-		1	of 11
CONTRACT R-28940		PROJECT 0501212	

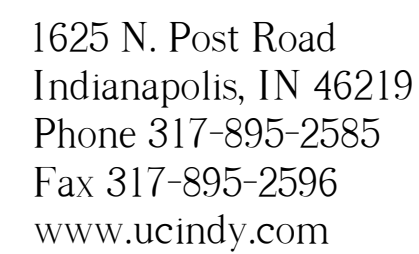
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	UTILITIES

GENERAL NOTES	

[illegible][illegible]

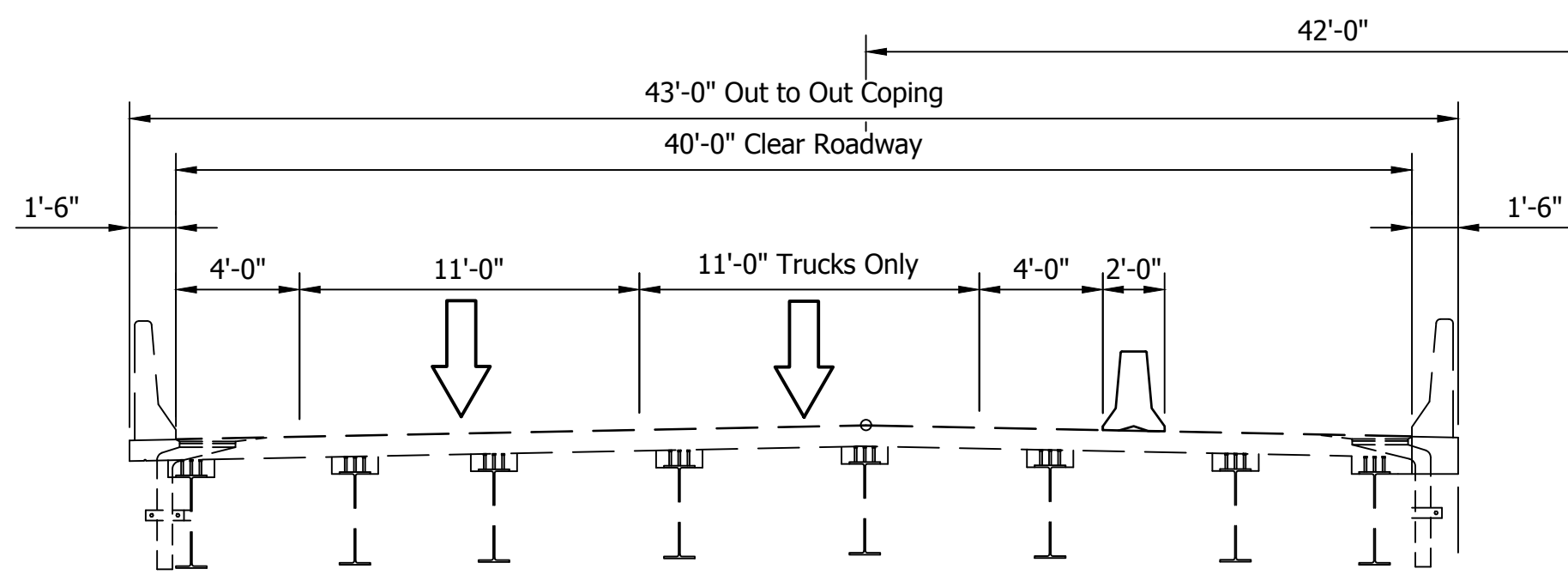
Call 811 or 800-382-5544



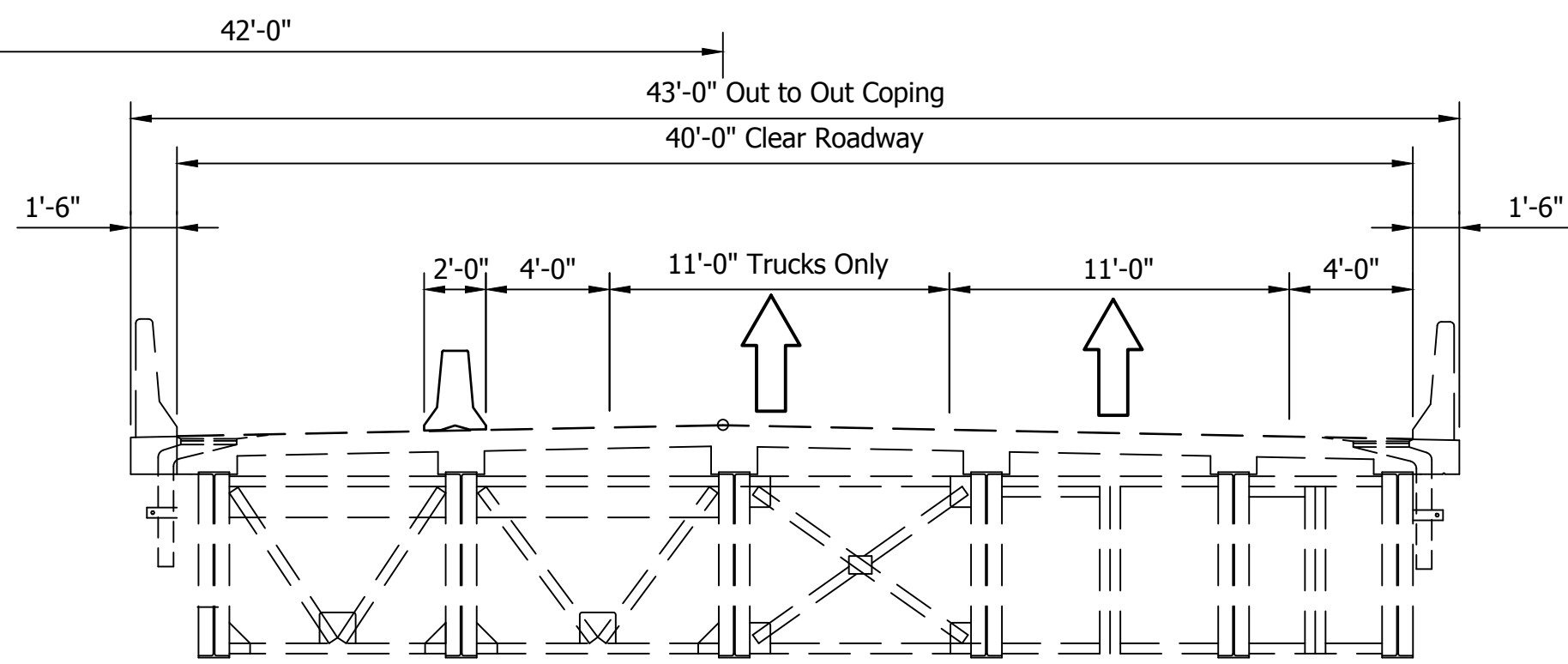
DESIGNED: <u>MRL</u>	DRAWN: <u>DJZ</u>
CHECKED: <u>BSF</u>	CHECKED: <u>MRL</u>

GENERAL PLAN
I-65 OVER EAST FORK WHITE RIVER

File Name: P:\C3D\MK16-465\Bridge\Bridges 10 & 11 - I-65 over East Fork of White River\Dwg\Index 10 & 11.dwg Plot Date: 4/25/2017 Plotted By: Zola, David

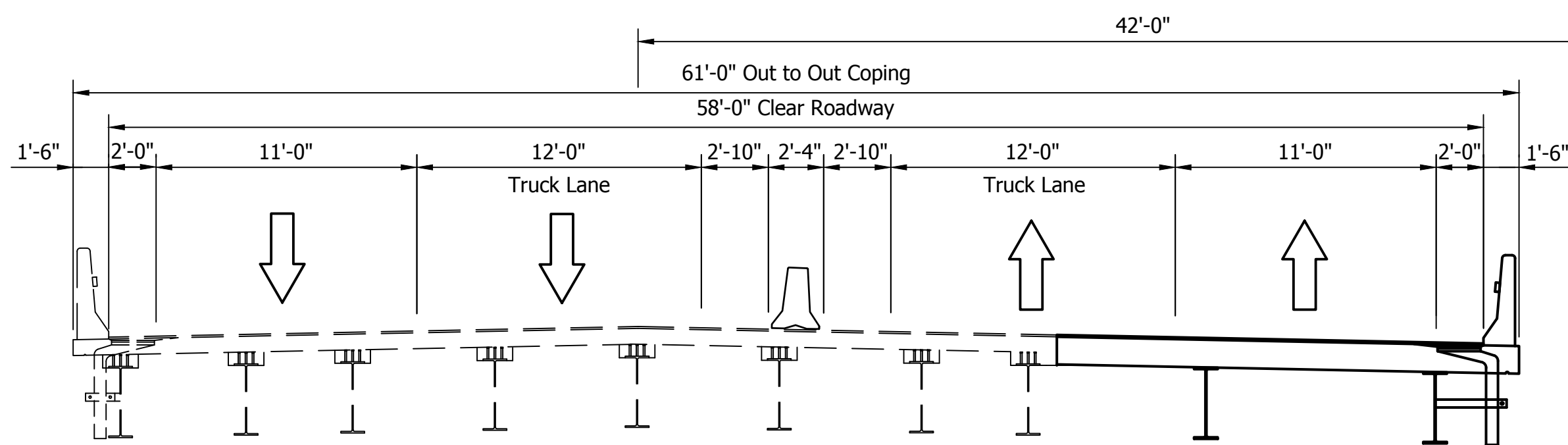


I-65 Southbound

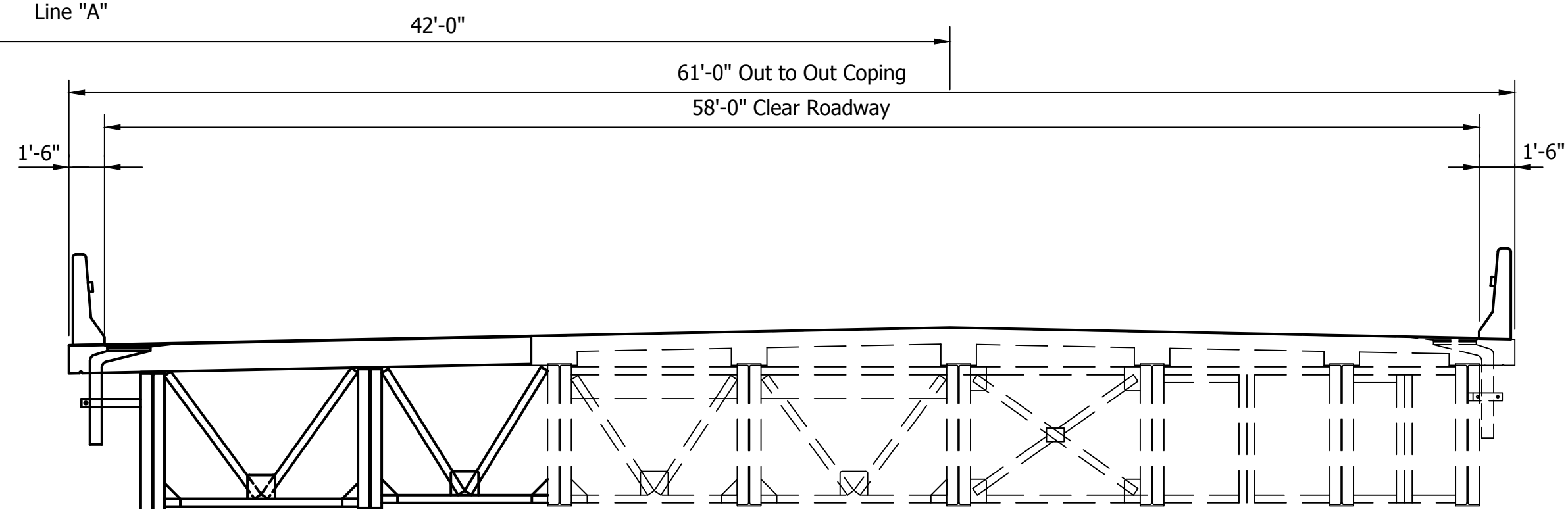


I-65 Northbound

PHASE 2

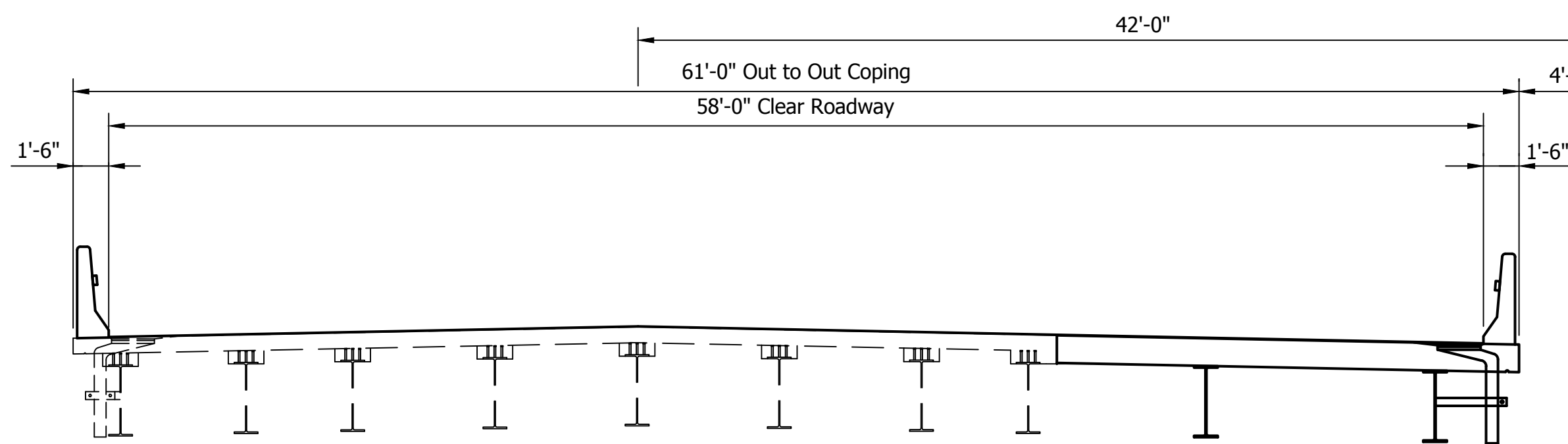


I-65 Southbound

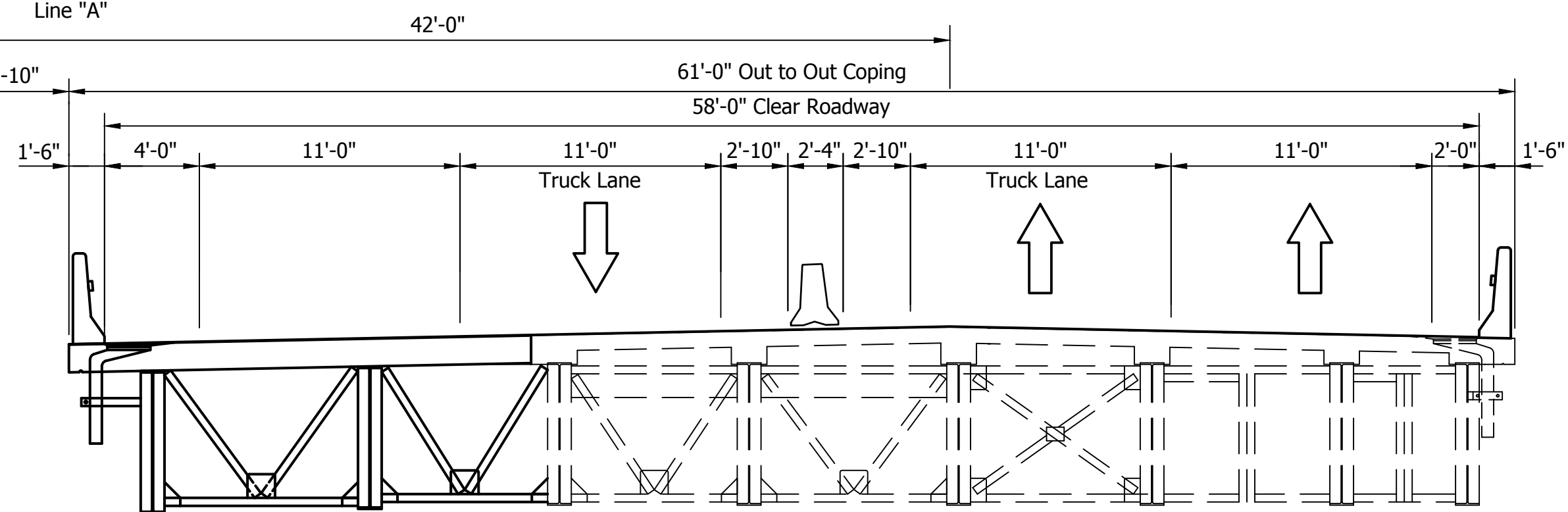


I-65 Northbound

PHASE 3



I-65 Southbound



I-65 Northbound

PHASE 4

Note: Plate Girder Section shown for NB.
W-Beam Section shown for SB.



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RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

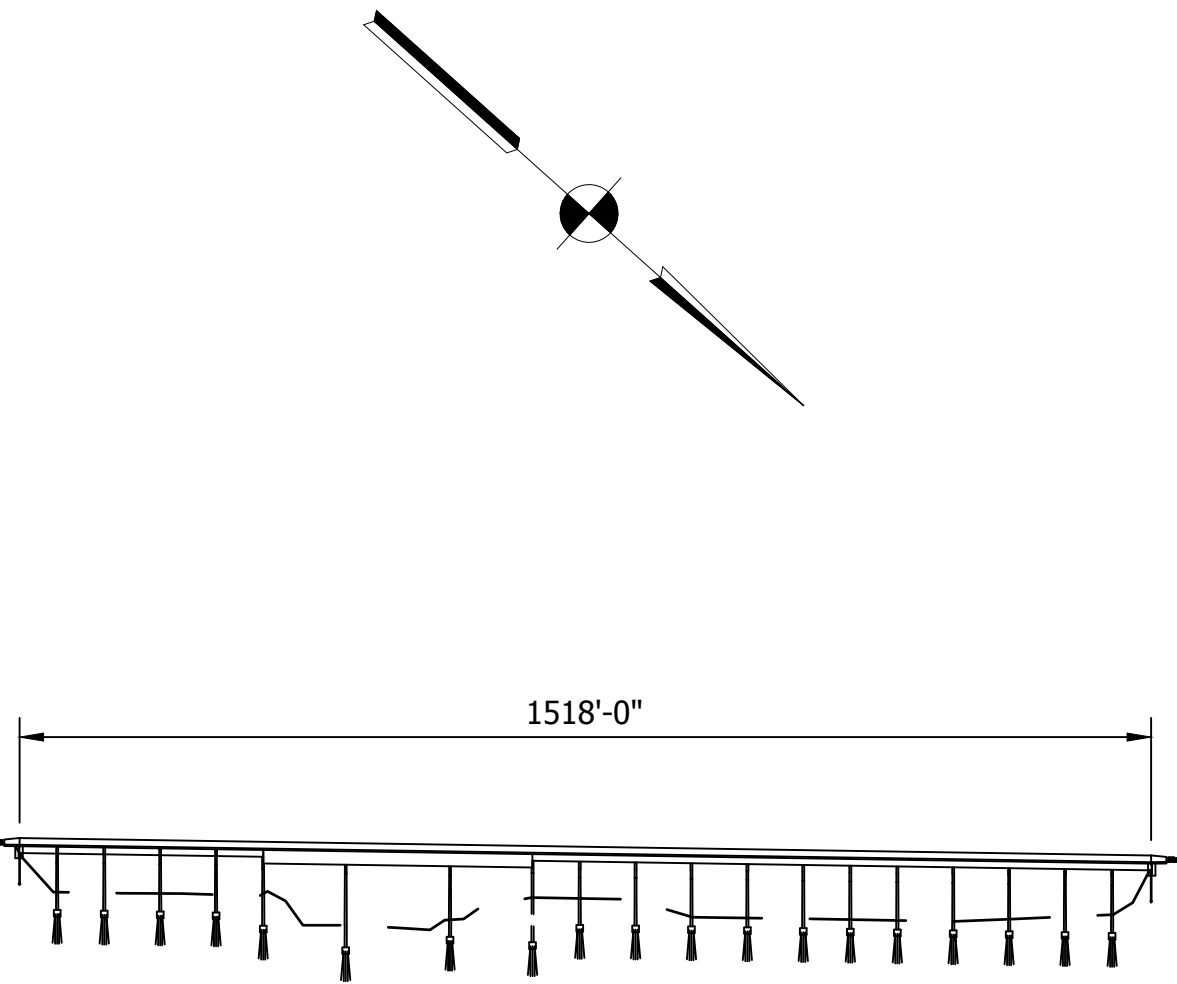
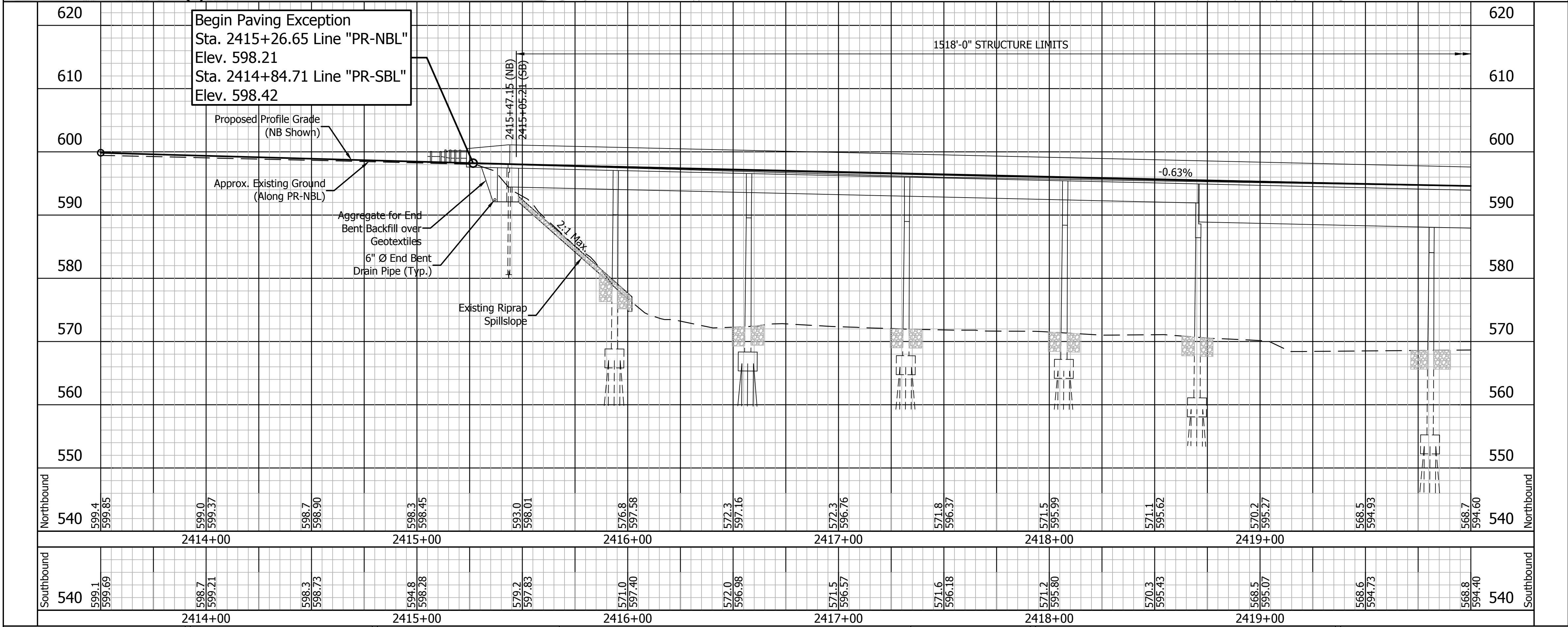
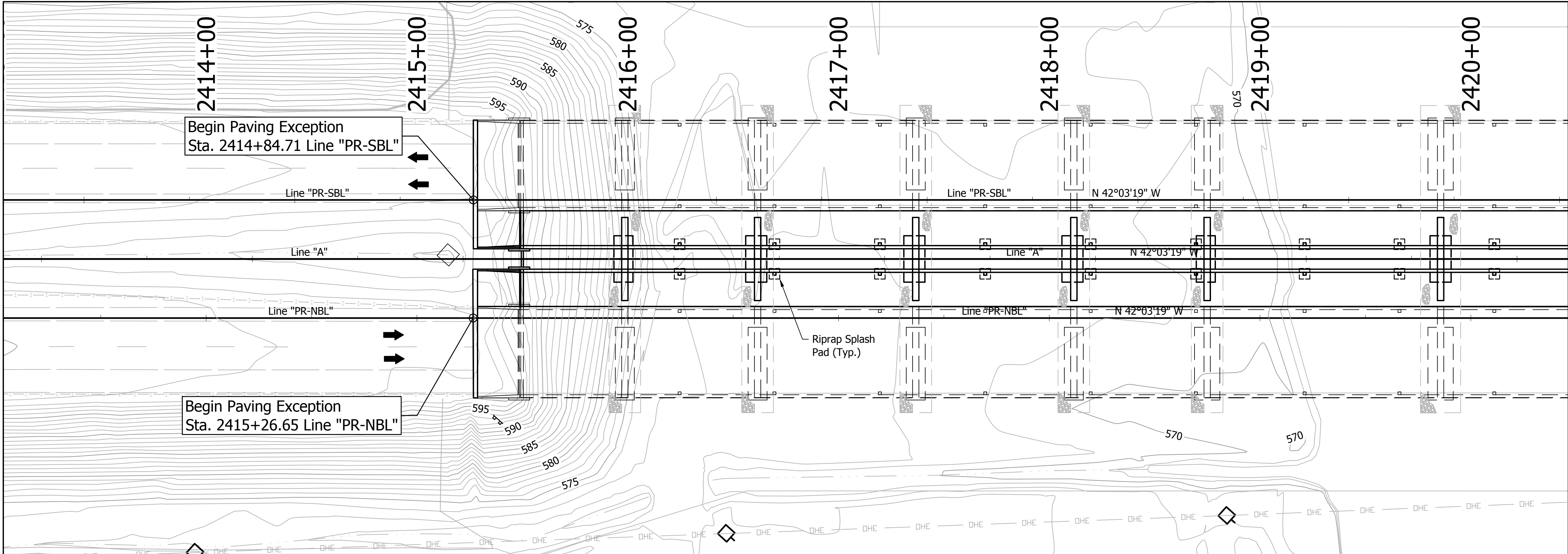
DESIGNED: MRL DRAWN: DJZ
CHECKED: BSF CHECKED: MRL

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
I-65 OVER EAST FORK WHITE RIVER

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	I-65-054-04651 DNBL & DSBL
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	-
SURVEY BOOK	SHEETS
-	3 of 11
CONTRACT	PROJECT
R-28940	0501212

File Name: P:\CD\W616-465\Bridges\10 & 11 - I-65 over East Fork of White River\Drawg\Layout 10 & 11.dwg Plot Date: 4/25/2017 Plotted By: Zolo, David



Existing Clear Roadway Width = 40'-0"
Portions of existing End Bents, Piers, and Bridge Deck to be removed.

EXISTING STRUCTURE
No Scale

Notes: For R/W, Earthwork Summary, and Additional Information see Roadway Plans, Des. No. 0501212.

TWIN CONTINUOUS STEEL BEAM & PLATE GIRDER BRIDGES
20 SPANS: 50'-7 1/2", 63'-0",
2 @ 75'-0", 62'-6", 110'-0", 140'-0",
110'-0", 62'-6", 4 @ 75'-0", 2 @ 62'-6",
3 @ 75'-0", 63'-0", 50'-7 1/2"
SKEW: 0°00'00"
CLEAR ROADWAY: 58'-0"
I-65 OVER EAST FORK WHITE RIVER



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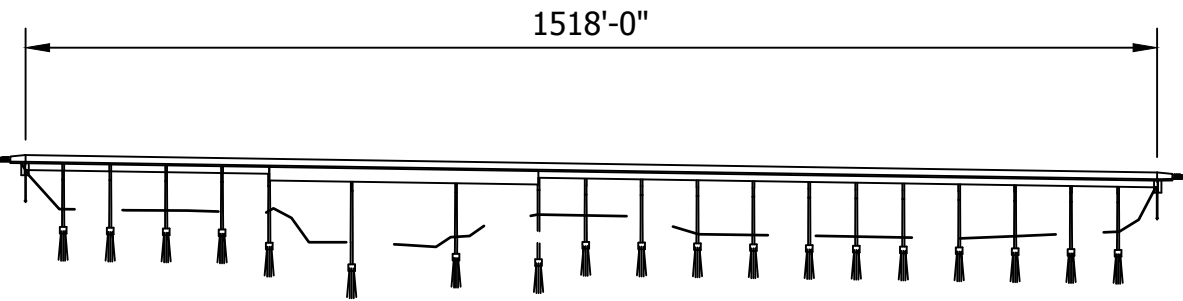
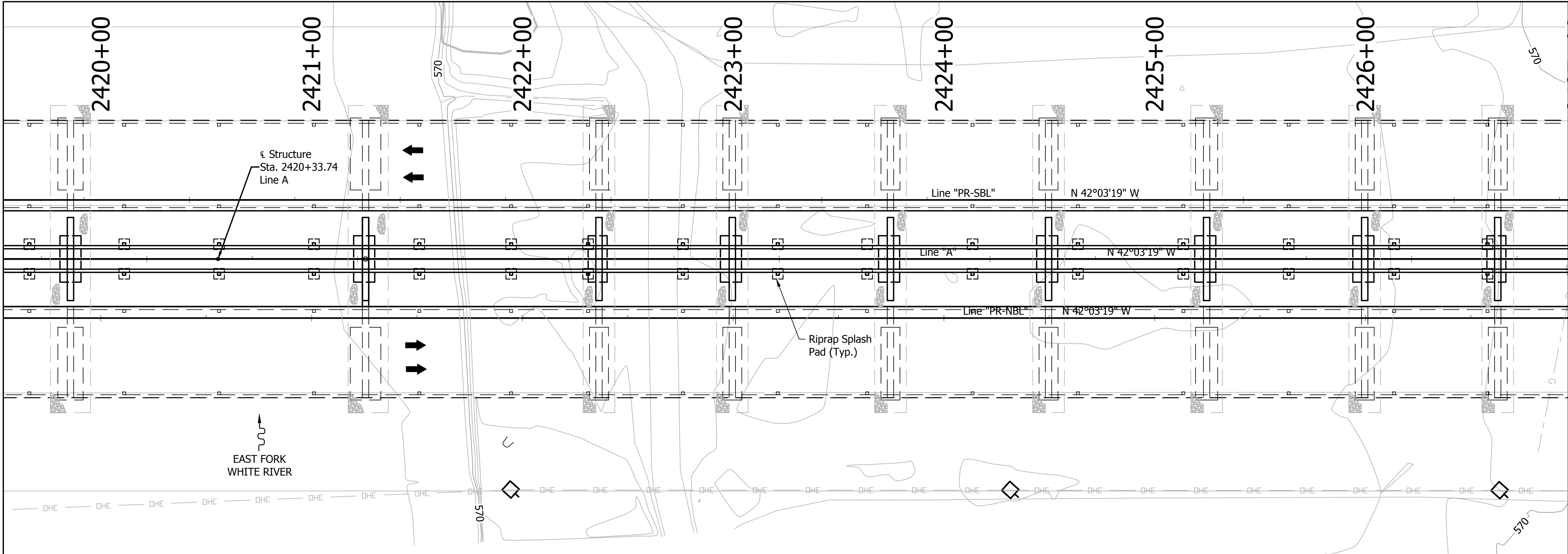
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CHECKED: BSF CHECKED: MRL

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT
I-65 OVER EAST FORK WHITE RIVER

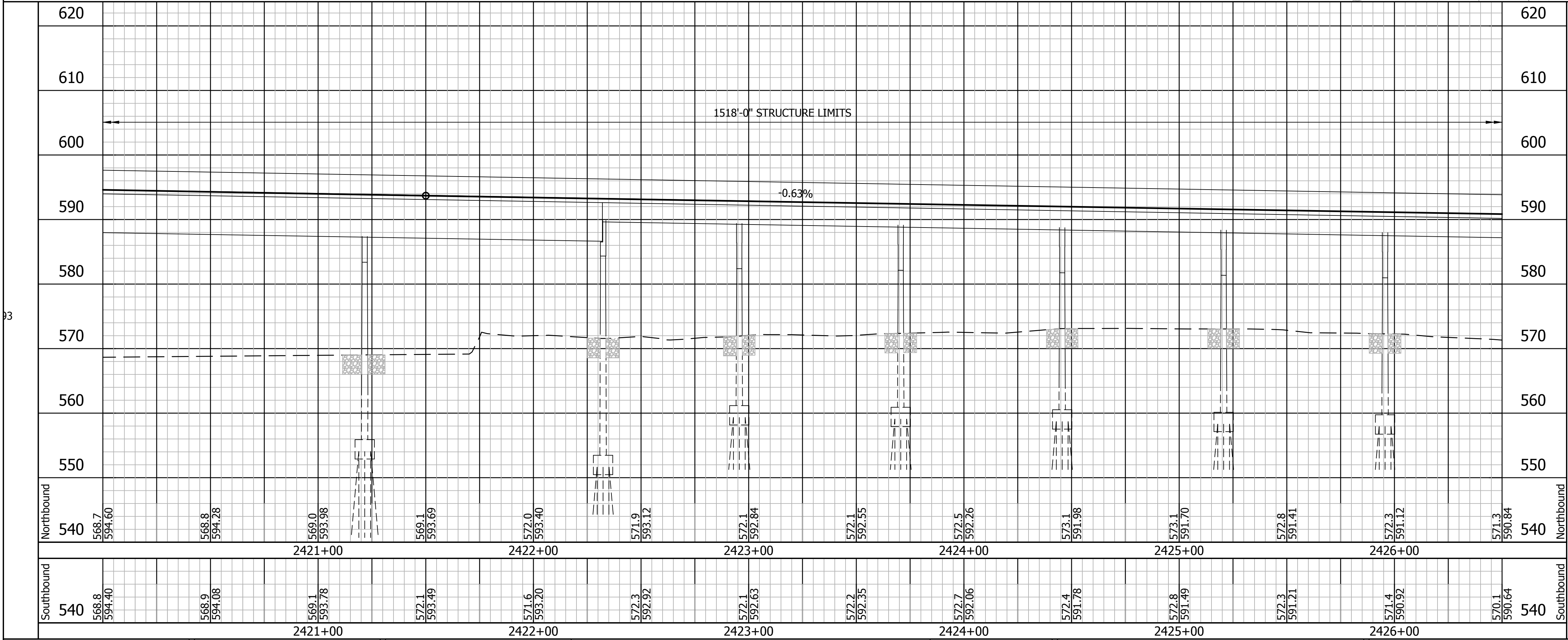
HORIZONTAL SCALE 1" = 30'	BRIDGE FILE I-65-054-04651 DNBL & DSBL
VERTICAL SCALE 1" = 10'	DESIGNATION -
SURVEY BOOK -	SHEETS 4 of 11
CONTRACT R-28940	PROJECT 0501212

File Name: P:\CD\W1616-465\Bridges\10 & 11 - I-65 over East Fork of White River\Drawg\Layout 10 & 11.dwg Plot Date: 4/25/2017 Plotted By: Zolo, David



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110'-0", 62'-6", 4 @ 75'-0", 2 @ 62'-6",
3 @ 75'-0", 63'-0", 50'-7 1/2"
SKEW: 0°00'00"
CLEAR ROADWAY: 58'-0"
I-65 OVER EAST FORK WHITE RIVER



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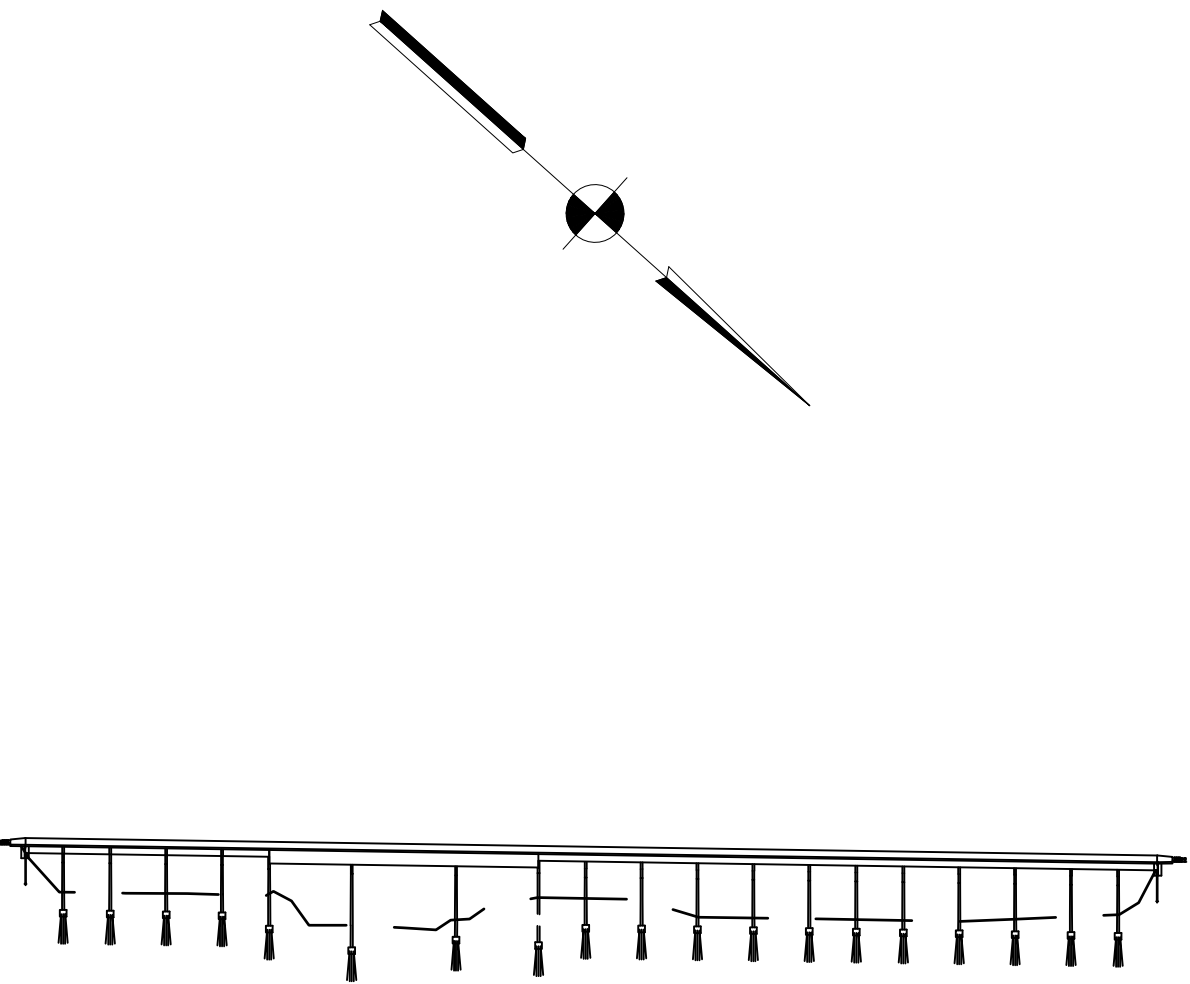
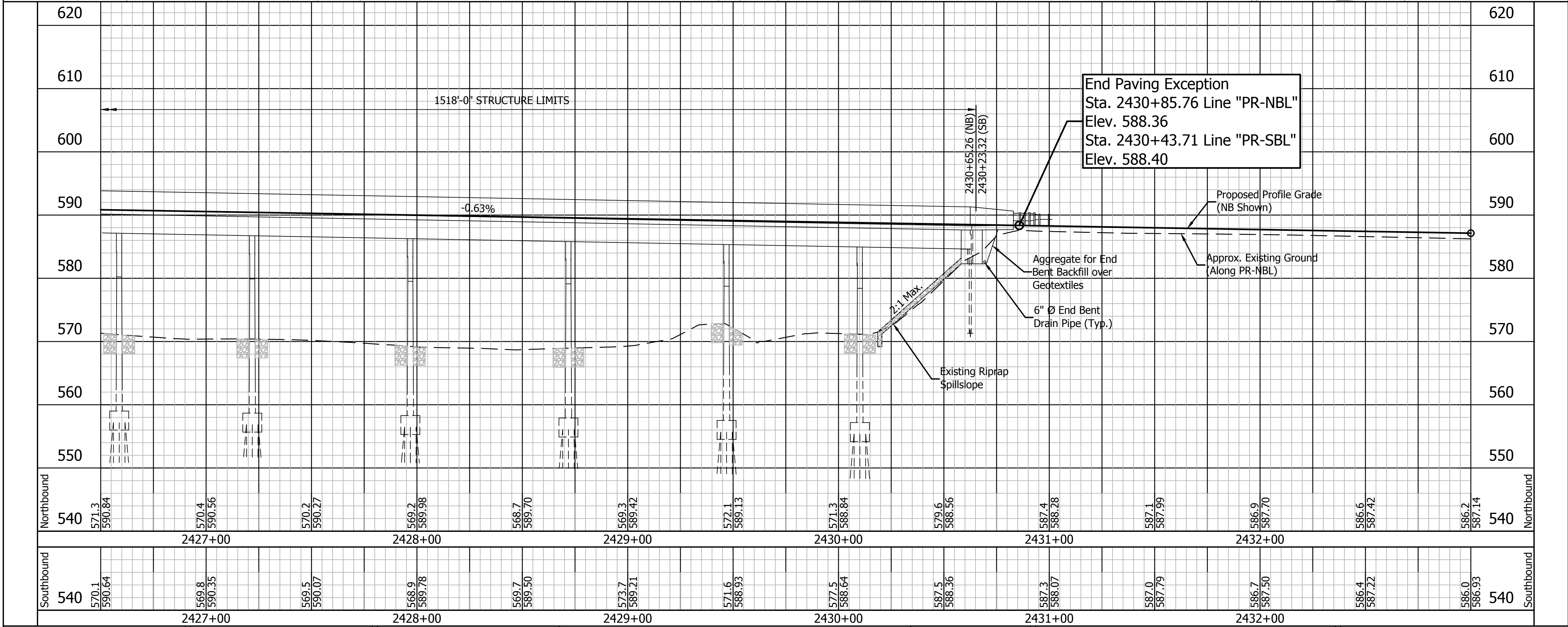
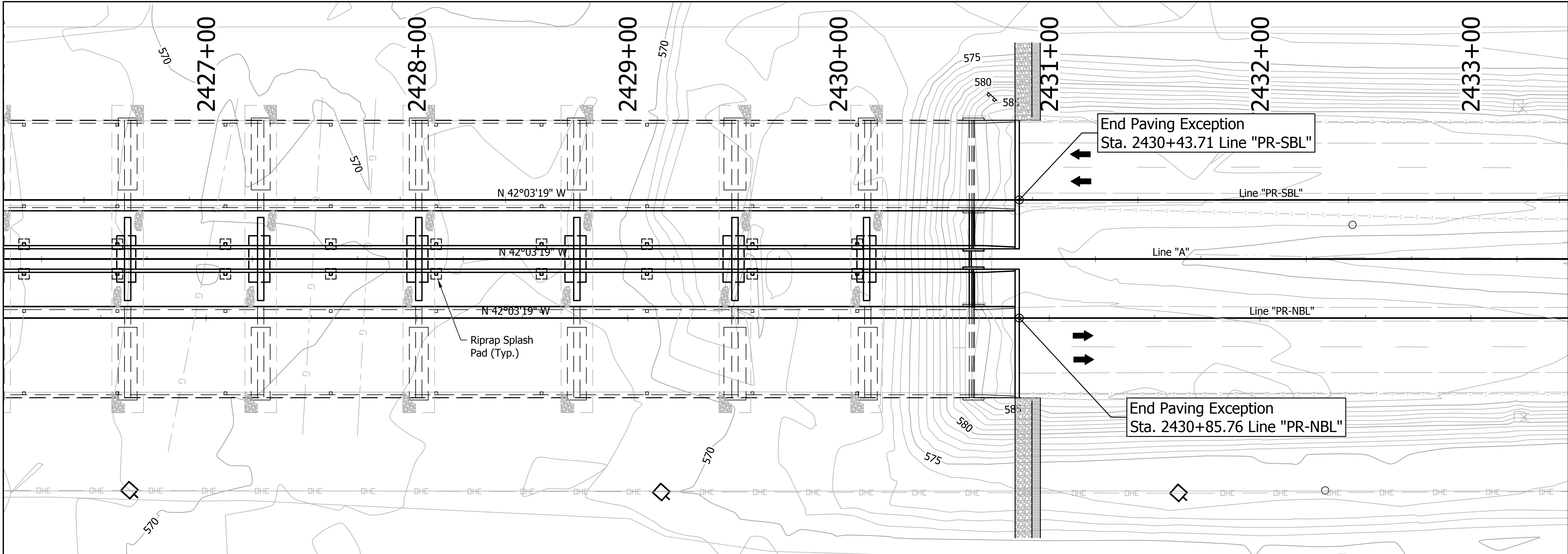
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INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT
I-65 OVER EAST FORK WHITE RIVER

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE I-65-054-04651 DNBL & DSBL
VERTICAL SCALE 1" = 10'	DESIGNATION -
SURVEY BOOK -	SHEETS 5 of 11
CONTRACT R-28940	PROJECT 0501212

File Name: P:\CADD\W16G-465\Bridges\Layout 10 & 11 - I-65 over East Fork of White River\Drawg\Layout 10 & 11.dwg Plot Date: 4/25/2017 Plotted By: Zola, David



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I-65 OVER EAST FORK WHITE RIVER



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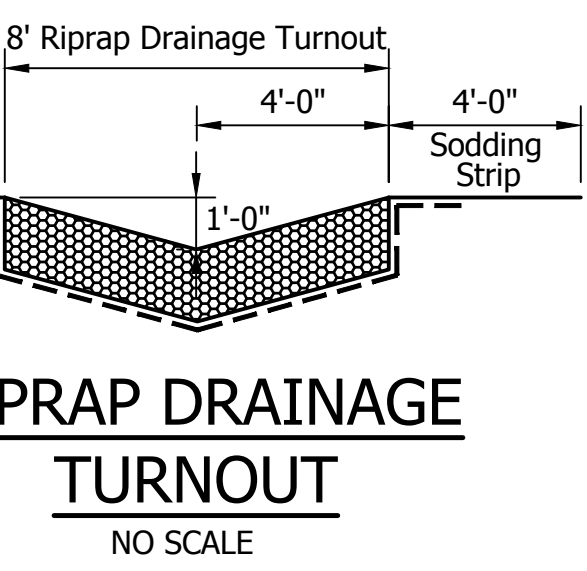
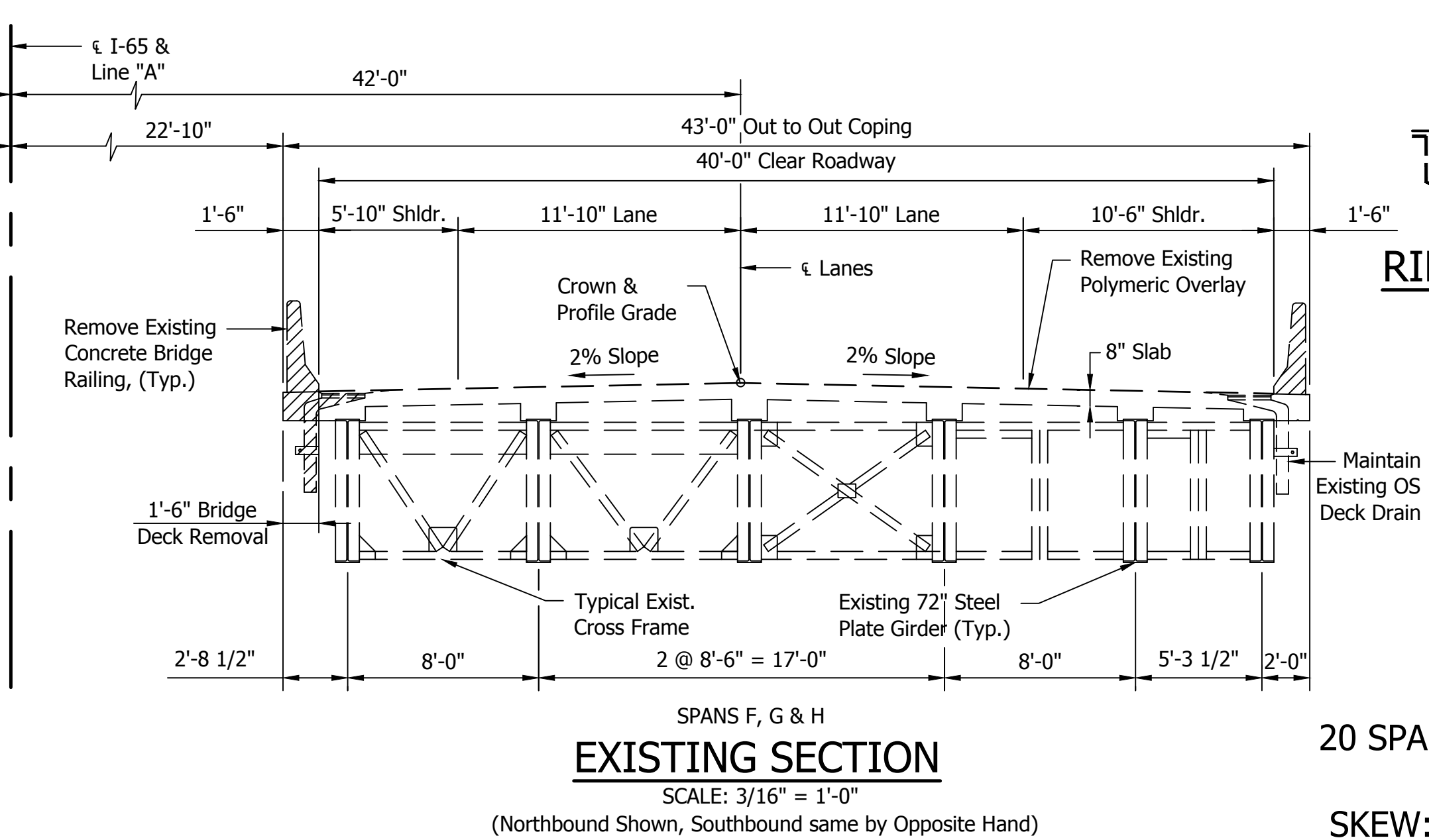
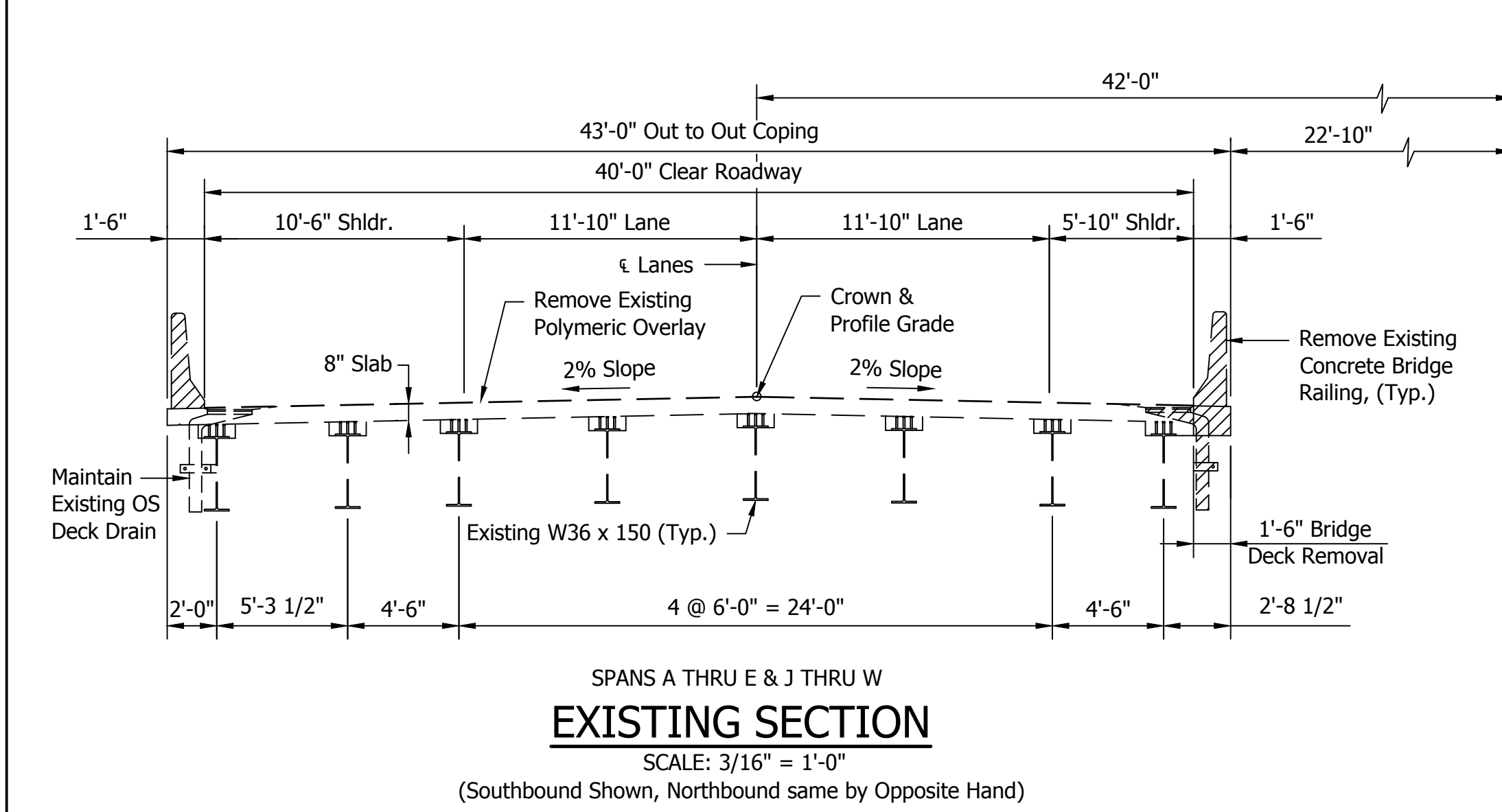
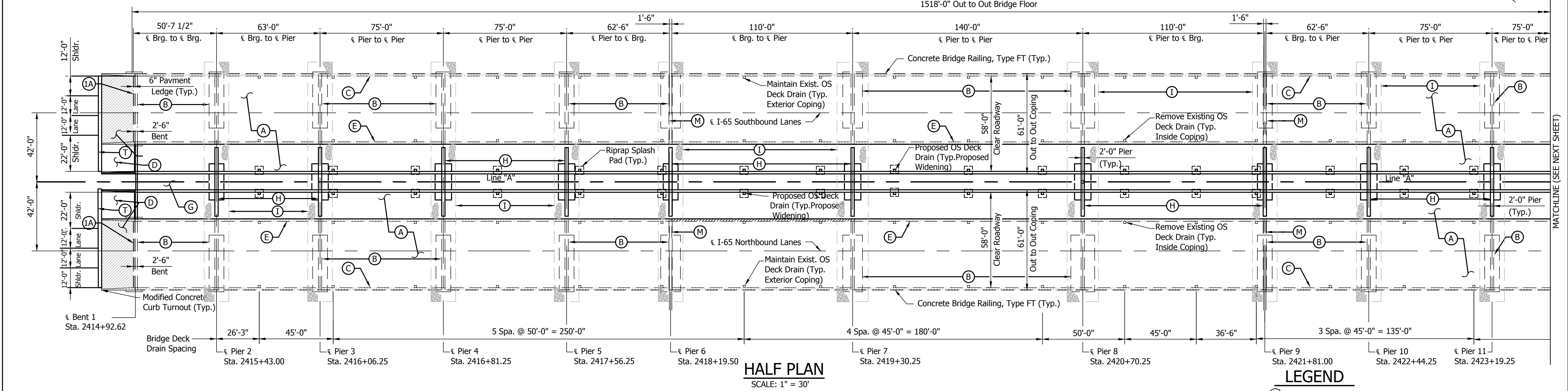
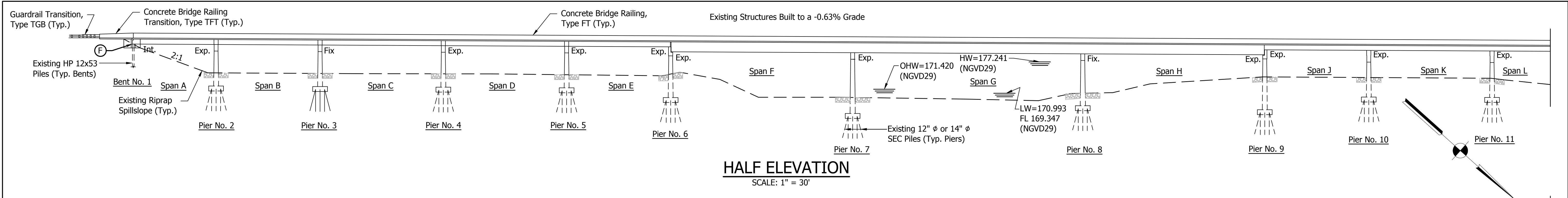
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: MRL DRAWN: DJZ
CHECKED: BSF CHECKED: MRL

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT
I-65 OVER EAST FORK WHITE RIVER

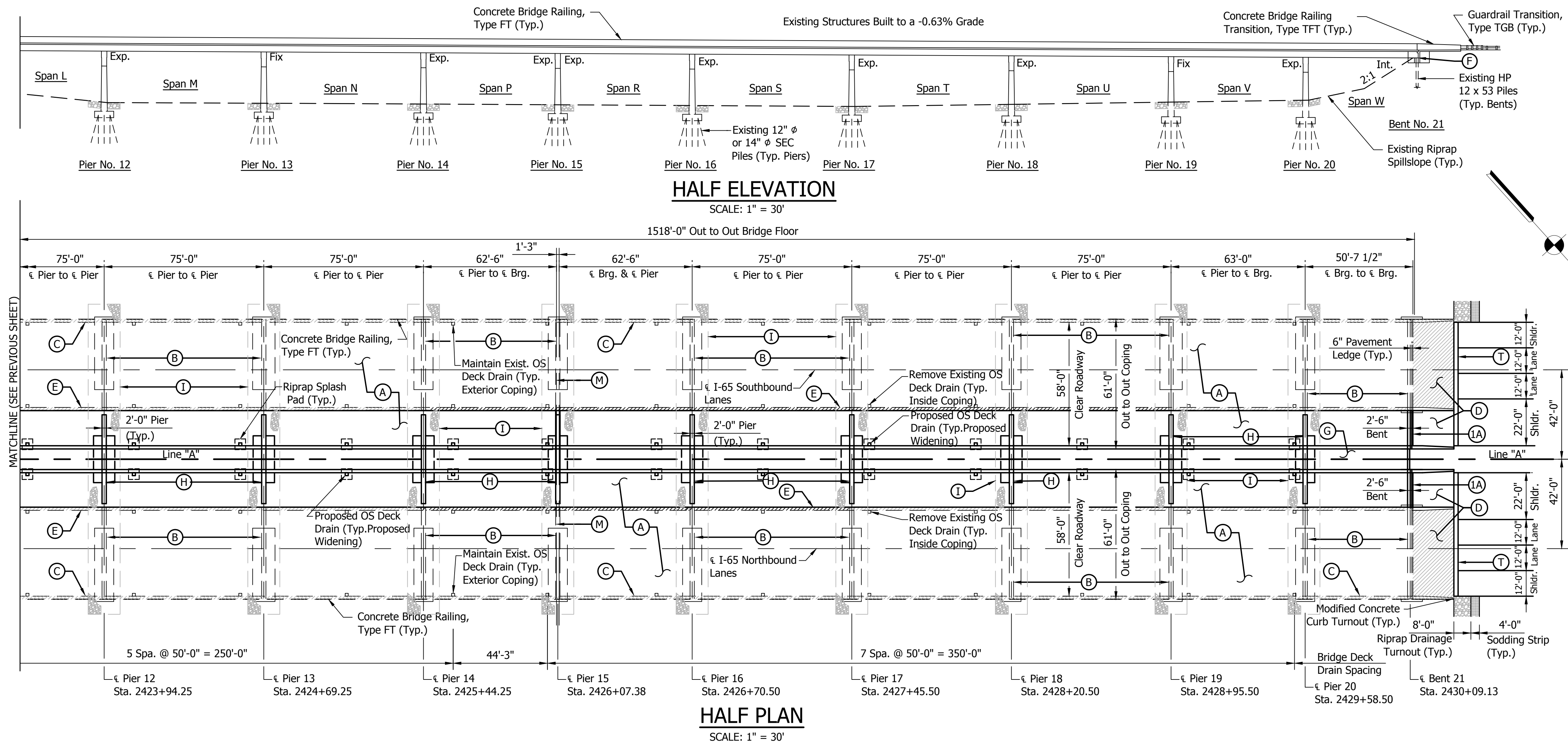
HORIZONTAL SCALE 1" = 30'	BRIDGE FILE I-65-054-04651 DNBL & DSBL
VERTICAL SCALE 1" = 10'	DESIGNATION -
SURVEY BOOK -	SHEETS 6 of 11
CONTRACT R-28940	PROJECT 0501212



- LEGEND**
- (A) Remove the existing polymeric bridge deck overlay, widen the superstructure and end bents toward the median side, widen all joints in-kind and install a new polymeric bridge deck overlay over the entire bridge deck.
 - (B) Patch spalled and delaminated areas on the existing substructure units.
 - (C) Remove and replace the existing concrete bridge railing.
 - (D) Remove and replace the existing reinforced concrete approach slabs.
 - (E) Remove the existing bridge railing and 1'-6" of the bridge coping.
 - (F) Blast, clean and prime ends of Steel Beams a minimum of 5'-0" beyond the face of the bent.
 - (G) Extend riprap across median and widen 2' outside the bridge deck.
 - (H) Construct Piers in median.
 - (I) Excavate around existing piers and place Class 1 riprap around all piers to the depth of 3ft. and a width of 6ft., except at piers 7 and 8, the width shall be 8 ft.
 - (M) Expansion Joint, Type M. Remove the existing rubber membrane from the existing joints and install a continuous rubber membrane through the entire joint.
 - (IA) Type 1A construction Joint
 - (T) 2'-0" Terminal Joint.
- Limits of Removal

TWIN CONTINUOUS STEEL BEAM & PLATE GIRDER BRIDGES
20 SPANS: 50'-7 1/2", 63'-0", 2 @ 75'-0", 62'-6", 110'-0", 140'-0", 110'-0", 62'-6", 4 @ 75'-0", 2 @ 62'-6", 3 @ 75'-0", 63'-0", 50'-7 1/2"
SKEW: 0°00'00" CLEAR ROADWAY: 58'-0" I-65 OVER EAST FORK WHITE RIVER

		1625 N. Post Road Indianapolis, IN 46219 Phone 317-895-2585 Fax 317-895-2596 www.ucindy.com		RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE AS SHOWN		BRIDGE FILE I-65-054-04651 DNBL & DSDL	
								VERTICAL SCALE AS SHOWN		DESIGNATION -	
				DESIGNED: MRL CHECKED: BSF		DRAWN: DJZ CHECKED: MRL		GENERAL PLAN I-65 OVER EAST FORK WHITE RIVER		SURVEY BOOK -	
										SHEETS 7 of 11 PROJECT 0501212	



GENERAL NOTES

- Existing plans for this structure are on file in the records unit of the Indiana Department of Transportation as Bridge File 165-054-04651 CNBL & CSBL.
- Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field and report any discrepancies to the Engineer and assume responsibility for their correctness and fit of the new part to the old.
- Reinforcing steel covering shall be 2 1/2" in top and 1" min. in bottom of floor slabs, and 2" in all other parts, unless noted.
- Surface seal all exposed surfaces of approach slabs, face of deck coping and outer 6" of the underside of deck.
- Stations shown are from the existing plans on file. The stations will be updated for the proposed alignment for Final Deign.

DESIGN DATA

Designed for HS-20-44 loading in accordance with 2002 AASHTO Standard Specifications for Highway Bridges 17th Edition and all Subsequent Interim Specifications.

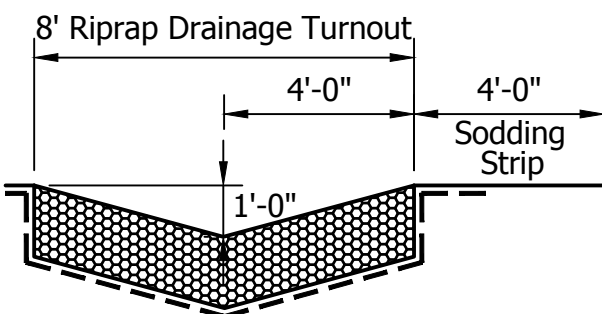
ULTIMATE DESIGN STRESSES

Class "A" Concrete	f'c = 3,500 p.s.i.
Class "B" Concrete	f'c = 3,000 p.s.i.
Class "C" Concrete	f'c = 4,000 p.s.i.
Reinforcing Steel (Grade 60)	fy = 60,000 p.s.i.
Structural Steel ASTM A709 (Grade 50)	fy = 50,000 p.s.i.

LEGEND

- (A) Remove the existing polymeric bridge deck overlay, widen the superstructure and end bents toward the median side, widen all joints in-kind and install a new polymeric bridge deck overlay over the entire bridge deck.
- (B) Patch spalled and delaminated areas on the existing substructure units.
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- (M) Expansion Joint, Type M. Remove the existing rubber membrane from the existing joints and install a continuous rubber membrane through the entire joint.
- (1A) Type 1A construction Joint
- (T) 2'-0" Terminal Joint.

Limits of Removal



RIPRAP DRAINAGE

TURNOUT

NO SCALE

TWIN CONTINUOUS STEEL BEAM & PLATE GIRDER BRIDGES

20 SPANS: 50'-7 1/2", 63'-0",
2 @ 75'-0", 62'-6", 110'-0", 140'-0",
110'-0", 62'-6", 4 @ 75'-0", 2 @ 62'-6",
3 @ 75'-0", 63'-0", 50'-7 1/2"
SKEW: 0°00'00"
CLEAR ROADWAY: 58'-0"
I-65 OVER EAST FORK WHITE RIVER

PROPOSED SECTION

SCALE: 3/16" = 1'-0"

(Northbound Shown, Southbound same by Opposite Hand)

PROPOSED SECTION

SCALE: 3/16" = 1'-0"

(Southbound Shown, Northbound same by Opposite Hand)



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RECOMMENDED
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DESIGN ENGINEER DATE

DESIGNED: MRL

DRAWN: DJZ

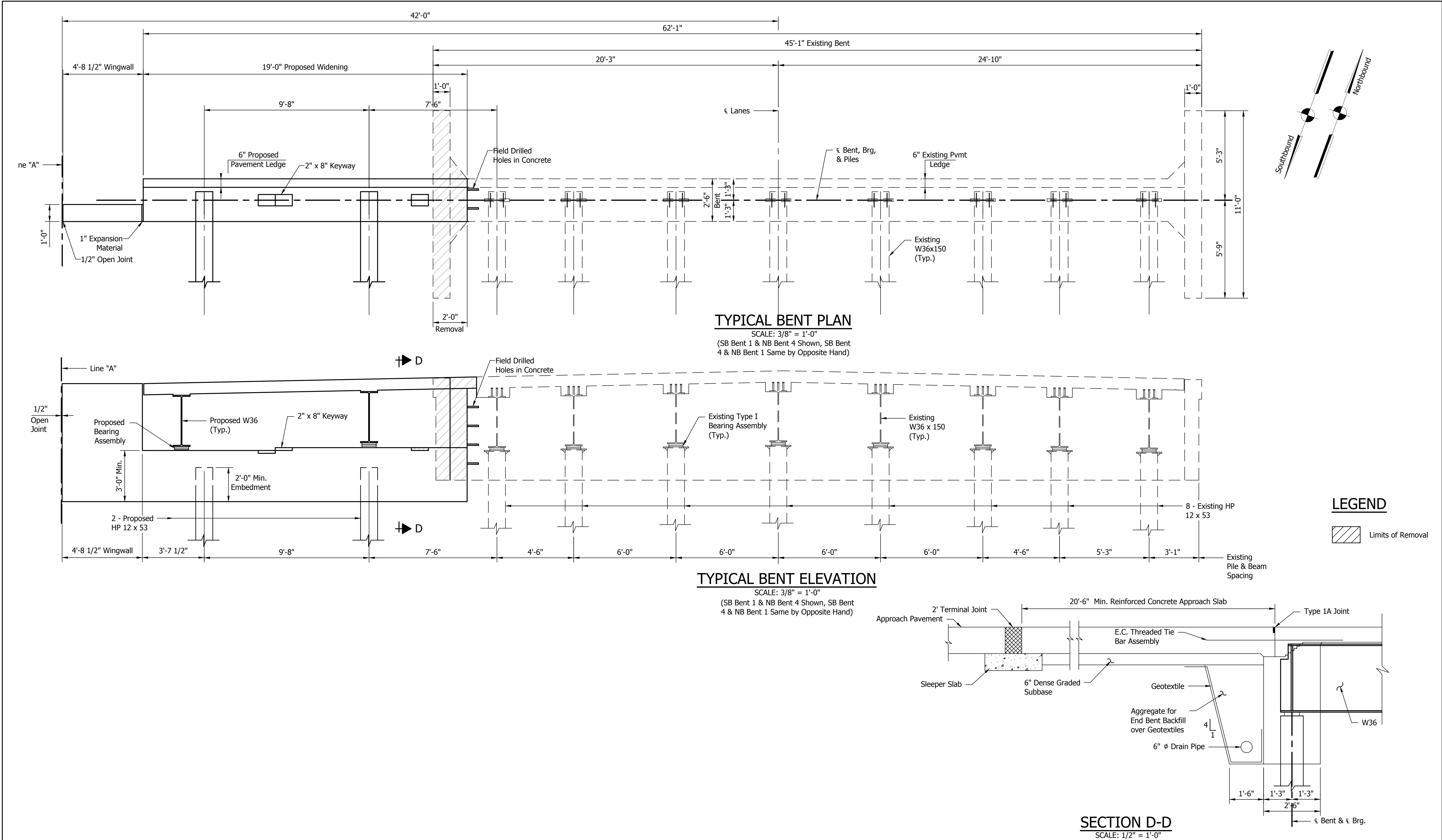
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CHECKED: MRL

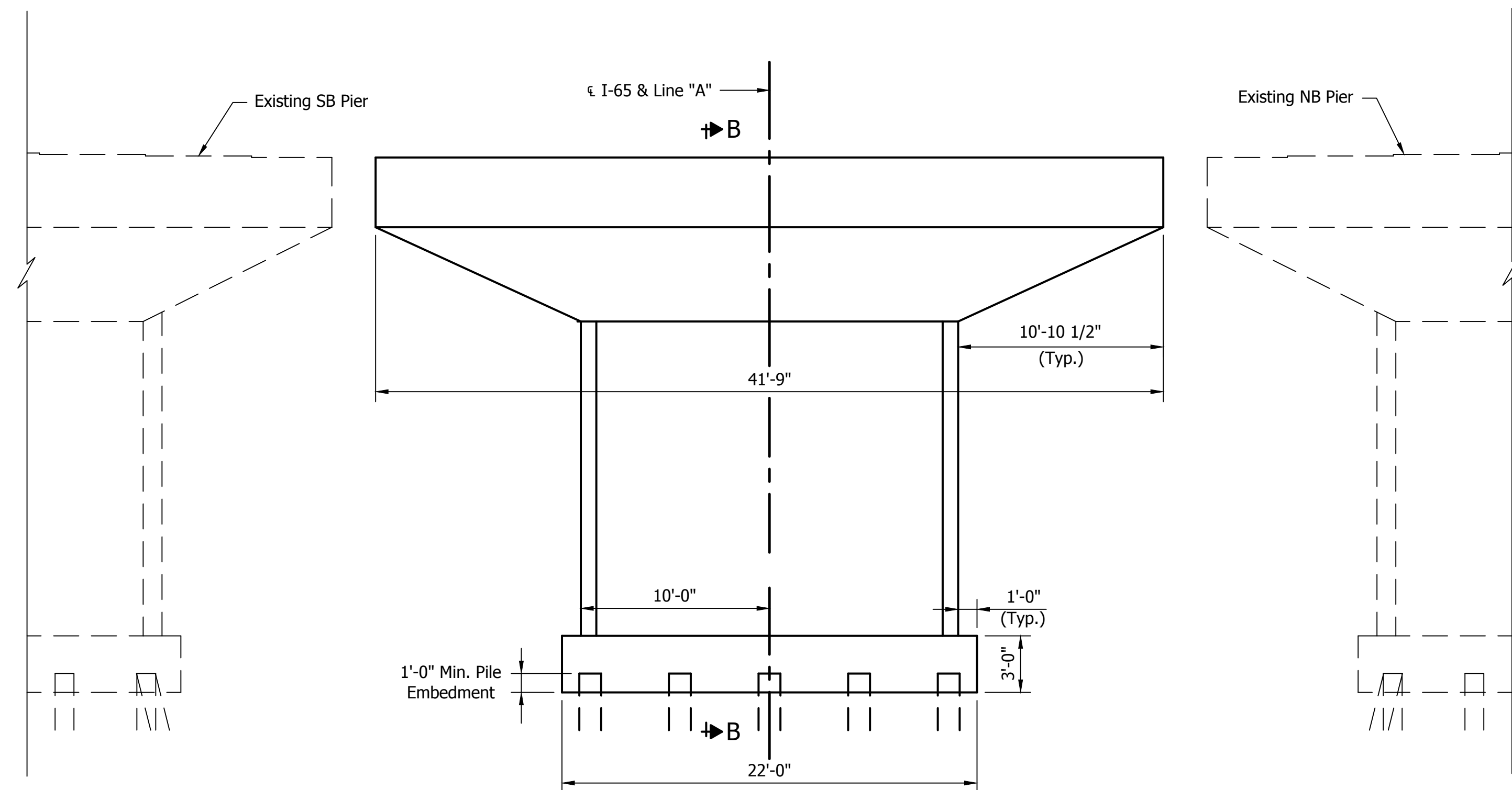
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
I-65 OVER EAST FORK WHITE RIVER

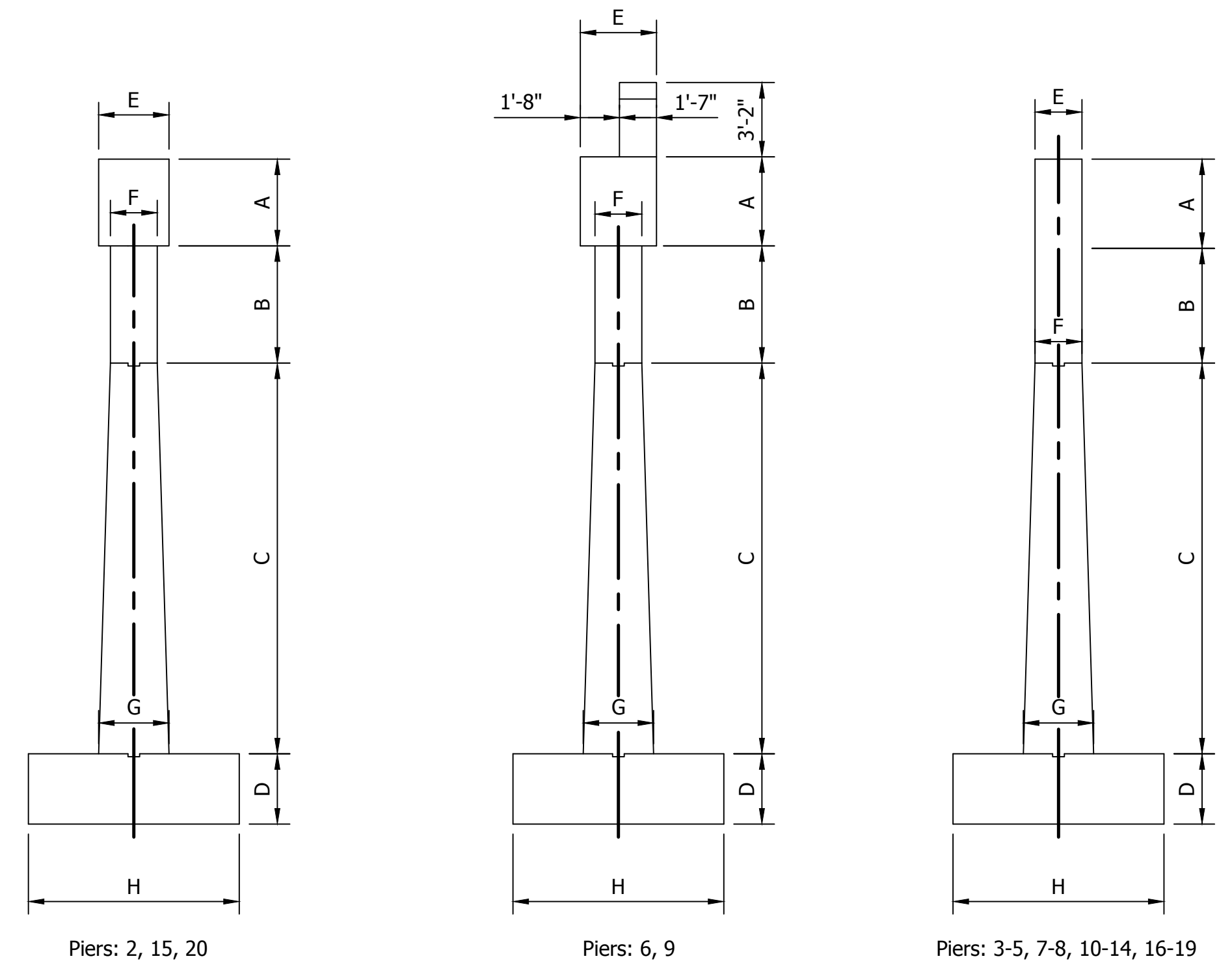
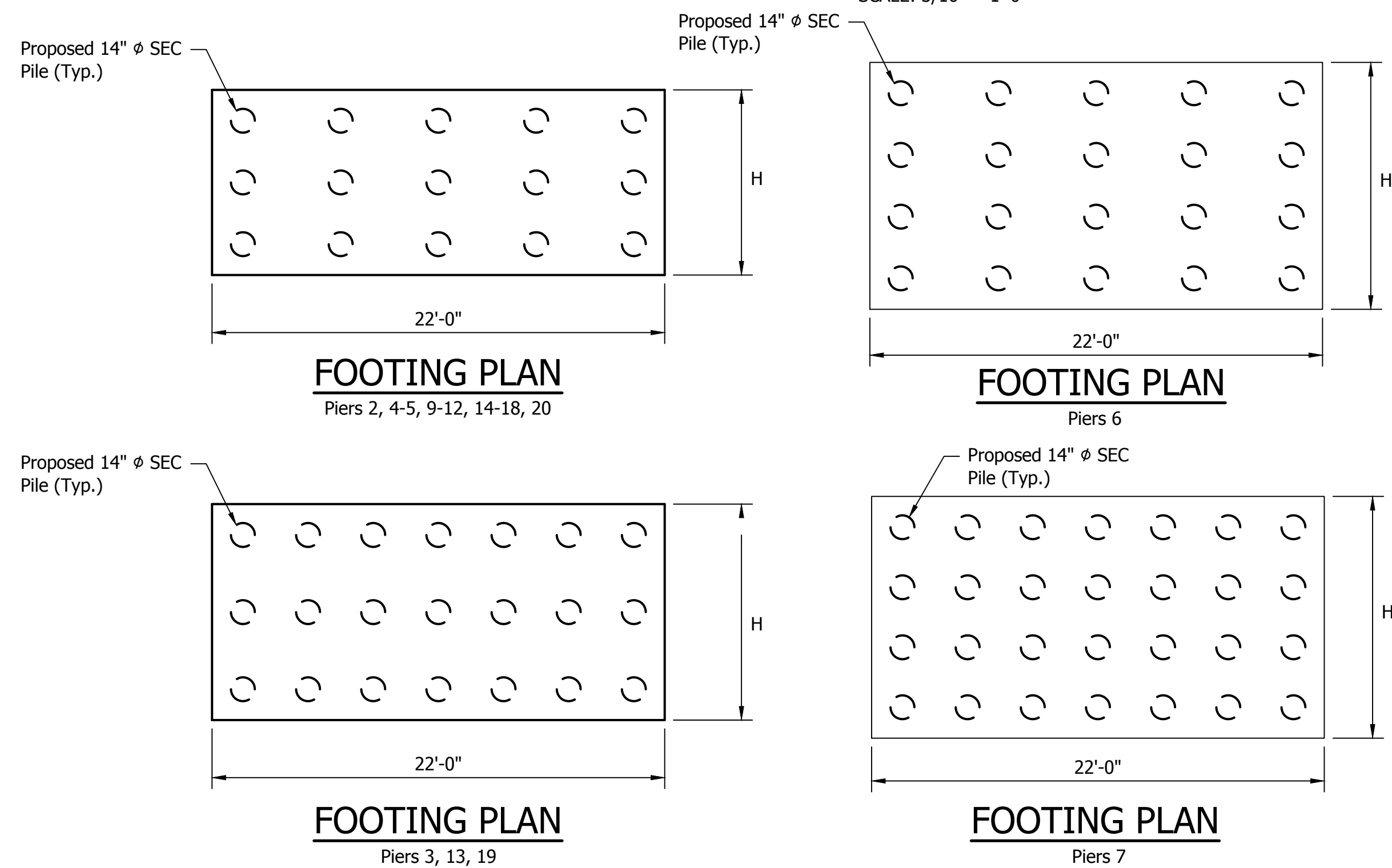
HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	I-65-054-04651 DNBL & DSBL
VERTICAL SCALE	DESIGNATION
AS SHOWN	-
SURVEY BOOK	SHEETS
-	8 of 11
CONTRACT	PROJECT
R-28940	0501212



		 1625 N. Post Road Indianapolis, IN 46219 Phone 317-895-2585 Fax 317-895-2596 www.ucindy.com		RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE AS SHOWN VERTICAL SCALE AS SHOWN	BRIDGE FILE I-65-054-04651 DNBL & DSBL DESIGNATION -	
			DESIGNED: MRL CHECKED: BSF	DRAWN: DJZ CHECKED: MRL		BENT DETAILS I-65 OVER EAST FORK WHITE RIVER	SURVEY BOOK - CONTRACT R-28940	SHEETS 9 of 11 PROJECT 0501212



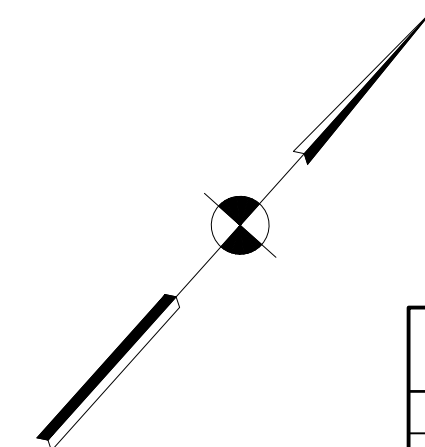
ELEVATION
SCALE: 3/16" = 1'-0"



SECTIONS B-B
SCALE: 3/16" = 1'-0"

PIER DIMENSIONS

PIER	VERTICAL DIMENSION				HORIZONTAL DIMENSION			
	A	B	C	D	E	F	G	H
2	3.7	5	16.67	3	3	2	2.92	9
3	3	5	16.83	3	2	2	2.92	10
4	3	5	17	3	2	2	2.92	9
5	3	5	17	3	2	2	2.92	9
6	3	5	28.67	3.5	3.25	2	3.6	12
7	3	5	27.21	3.5	2	2	3.5	11.75
8	3	5	25.5	4.5	2	2	3.42	14.5
9	3	5	11.83	3	3.25	2	2.67	9
10	3	5	13.92	3	2	2	2.78	9
11	3	5	13.92	3	2	2	2.78	9
12	3	5	13.25	3	2	2	2.74	9
13	3	5	13.75	3	2	2	2.76	10.5
14	3	5	12.25	3	2	2	2.68	9
15	3	5	13	3	2.75	2	2.72	8.5
16	3	5	12.25	3	2	2	2.68	9
17	3	5	13.92	3	2	2	2.78	9
18	3	5	13.25	3	2	2	2.74	9
19	3	5	13.75	3	2	2	2.76	10.5
20	3.7	5	12.75	3	3	2	2.71	9



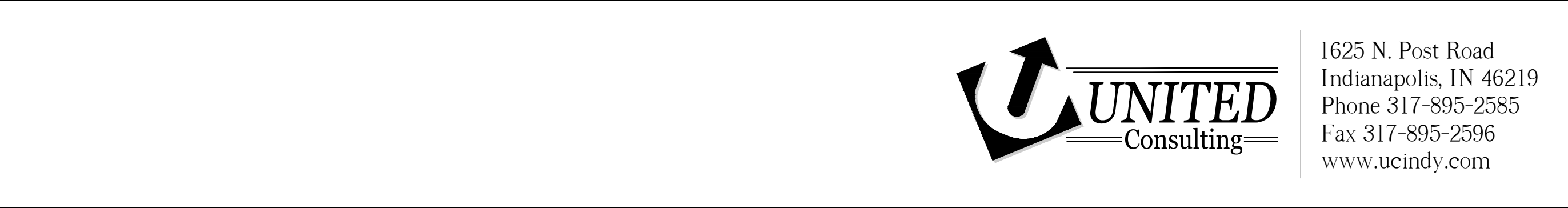
1625 N. Post Road
Indianapolis, IN 46219
Phone 317-895-2585
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RECOMMENDED FOR APPROVAL	
DESIGNED: <u>MRL</u>	DRAWN: <u>DJZ</u>
CHECKED: <u>BSF</u>	CHECKED: <u>MRL</u>

INDIANA
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
I-65 OVER EAST FORK WHITE RIVER

HORIZONTAL SCALE AS SHOWN	BRIDGE FILE I-65-054-04651 DNBL & DSBL
VERTICAL SCALE AS SHOWN	DESIGNATION -
SURVEY BOOK -	SHEETS 10 of 11
CONTRACT R-28940	PROJECT 0501212

[illegible]

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER DATE
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DESIGNED: <u>MRL</u>	DRAWN: <u>DJZ</u>
CHECKED: <u>BSF</u>	CHECKED: <u>MRL</u>

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE SUMMARY TABLE I-65 OVER EAST FORK WHITE RIVER
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HORIZONTAL SCALE	BRIDGE FILE
N/A	I-65-054-04651 DNBL & DSBL
VERTICAL SCALE	DESIGNATION
N/A	-

SURVEY BOOK	SHEETS		
-	11	of	11
CONTRACT	PROJECT		
R-28940	0501212		