

PROJECT	DESIGNATION
1702753	1702753
CONTRACT	BRIDGE FILE
B-41303	RUSH 94

INDEX				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
RUSH 94	TIMBER TRUSS COVERED BRIDGE	ONE SPAN: 119'-2" NO SKEW	FLATROCK RIVER	28+29.47 "A"

INDIANA DEPARTMENT OF TRANSPORTATION



TRAFFIC DATA	CR 150 N
A.A.D.T. (2022)	150 V.P.D.
A.A.D.T. (2042)	190 V.P.D.
D.H.V. (2042)	20 V.P.H.
DIRECTIONAL DISTRIBUTION	50%
TRUCKS	3% D.H.V.
DESIGN DATA	
DESIGN SPEED	40 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	LOCAL ROAD
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

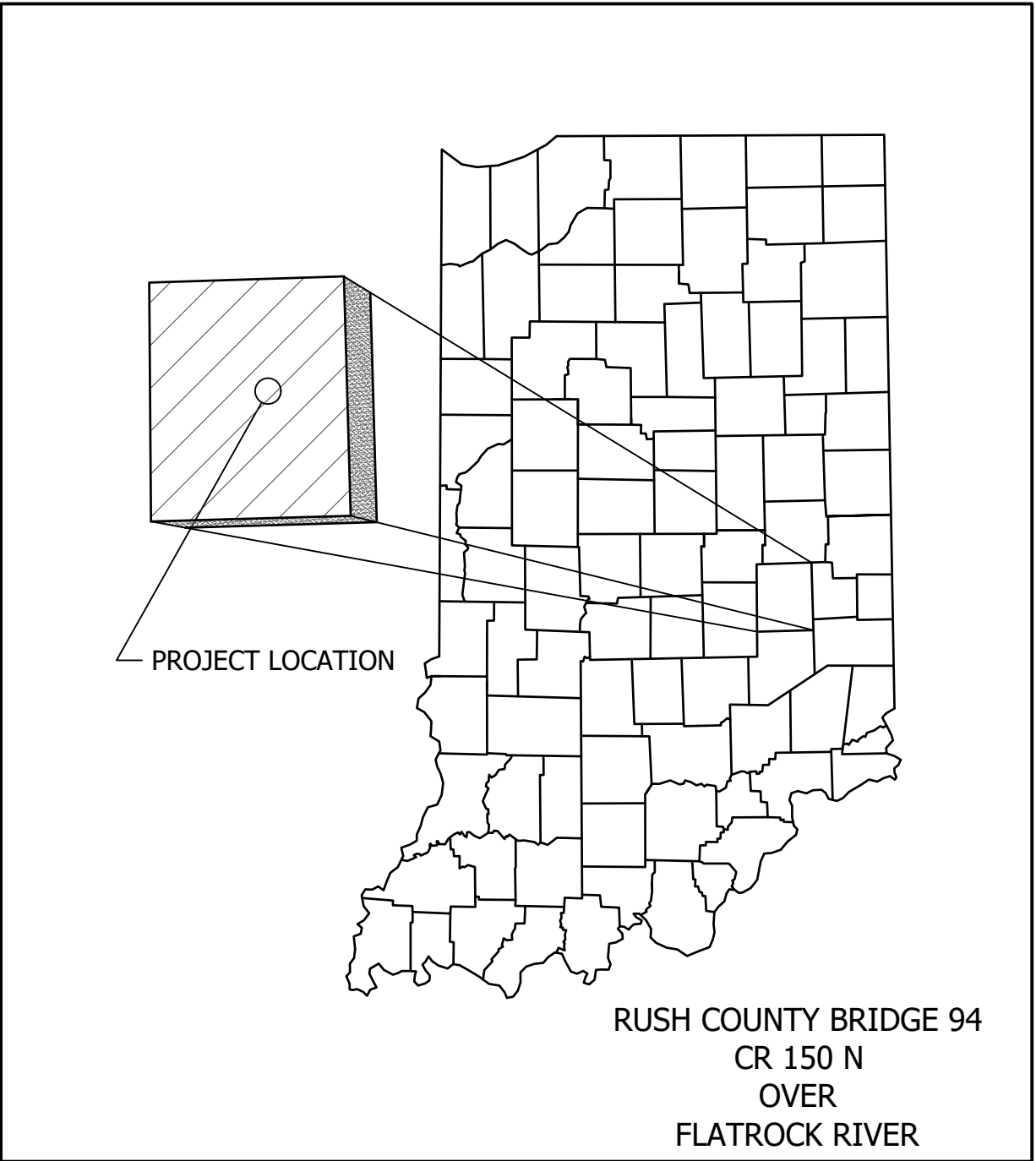
BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET
ROUTE: CR 150 N OVER FLATROCK RIVER

PROJECT NO. 1702753 P.E.

1702753 CONST.

Rehabilitation of Rush County Bridge No. 94 carrying CR 150 N over Flatrock River, Located in Section 28, Township 14 North, Range 10 East, Rushville Township, in Rush County, Indiana.



LATITUDE:	39°38'01"N	LONGITUDE:	85°24'59"W
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BRIDGE LENGTH :	0.02 MI.
ROADWAY LENGTH :	0.06 MI.
TOTAL LENGTH :	0.08 MI.
MAX. GRADE :	+0.04 %
HUC :	05120205020050

[INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2022
TO BE USED WITH THESE PLANS]

RUSH COUNTY BOARD OF COMMISSIONERS

MARK BACON, CHAIRMAN

PAUL WILKINSON, VICE CHAIRMAN

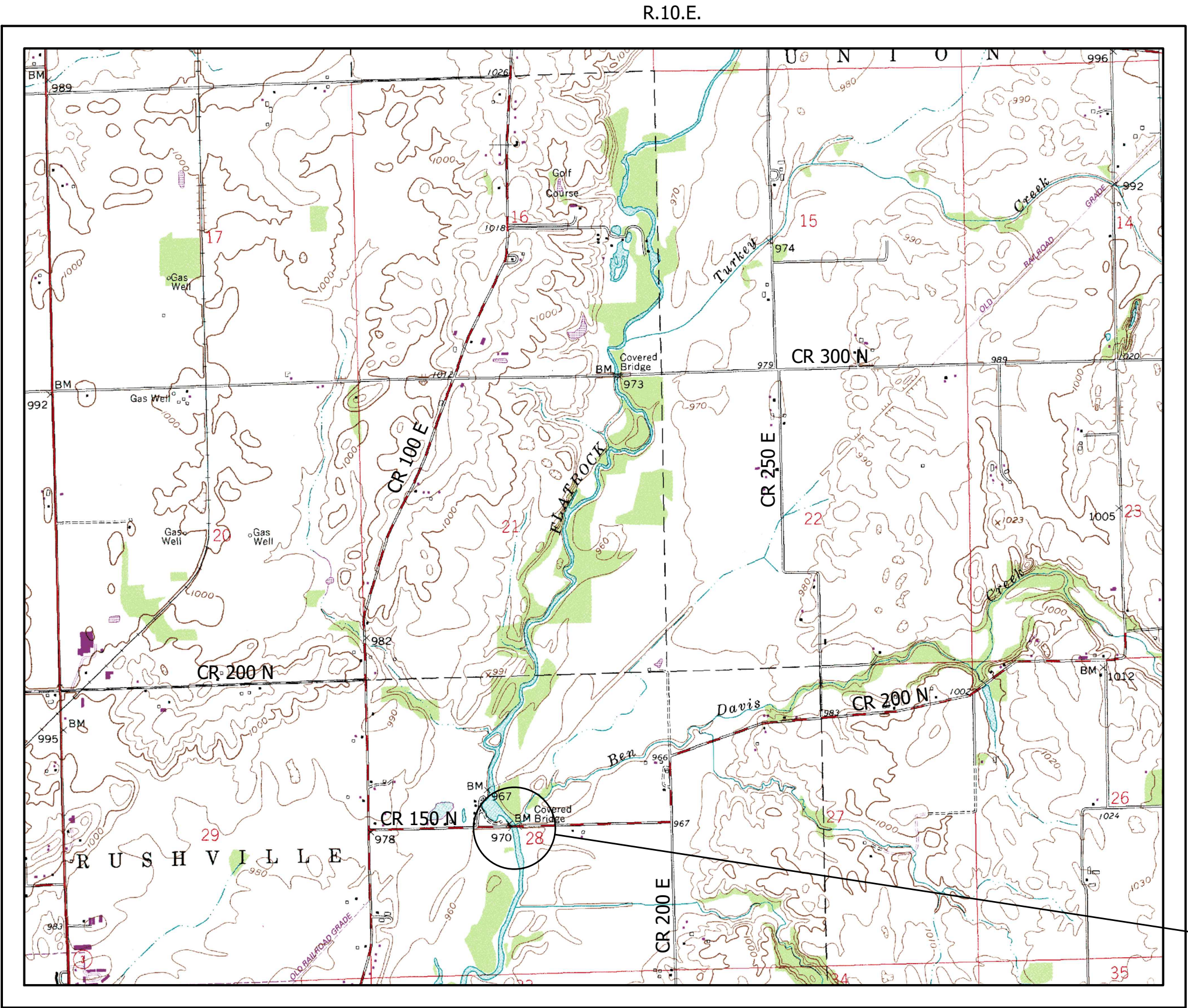
RON JARMAN

ATTEST: DATE: _____

TAMMY JUSTICE, COUNTY AUDITOR

APPROVED: _____

JERRY SITTON, HIGHWAY SUPERINTENDENT



LOCATION MAP



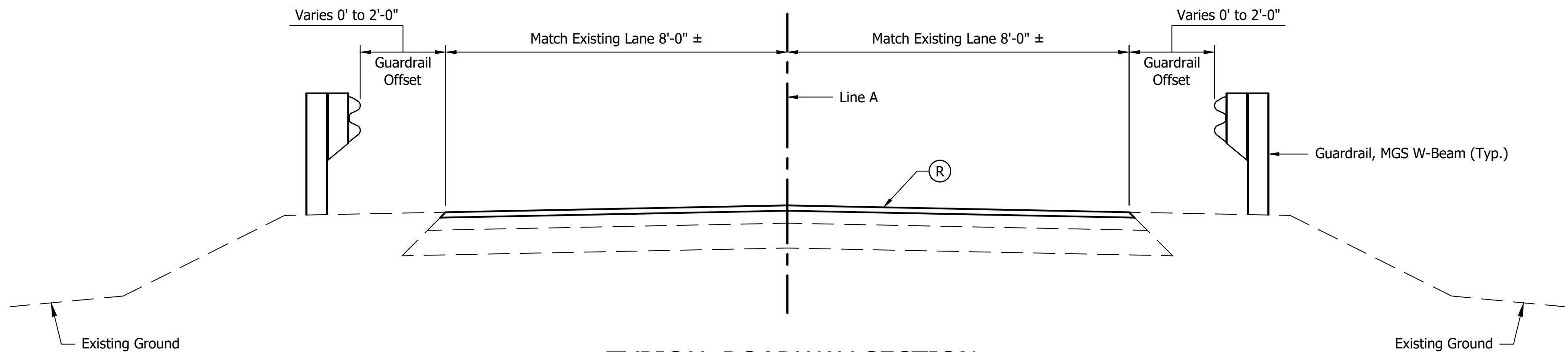
8440 Allison Pointe Boulevard, Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

PLANS PREPARED BY:	UNITED CONSULTING	(317) 895-2585
		PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE	
RUSH 94	
DESIGNATION	
1702753	
SURVEY BOOK	SHEETS
-	1 of 11
CONTRACT	PROJECT
B-41303	1702753

File Name: P:\BR\C3D\18-223\Bridge\Drawg\Plans\Typical Sections.dwg Plot Date: 6/30/2021 Plotted By: Kevin Barry

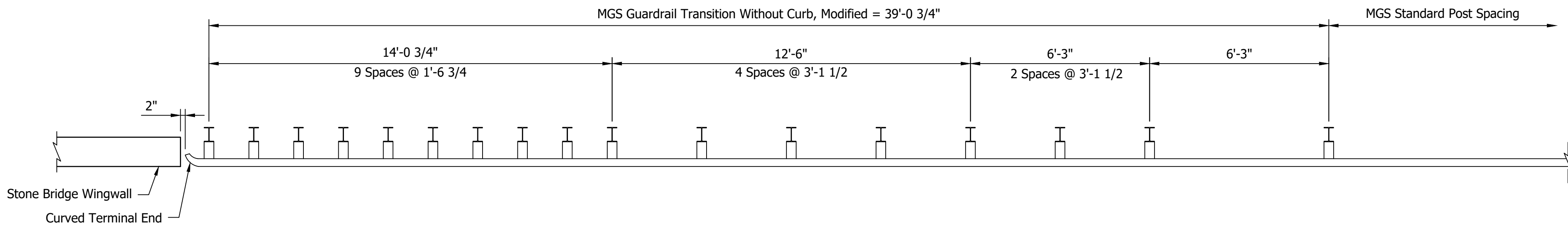
Note to Reviewer:
Existing road has no striping.
No new striping to be added for this project.



TYPICAL ROADWAY SECTION

Scale: 1/2" = 1'-0"
Sta. 26+70.00 "A" to Sta. 27+69.30 "A"
Sta. 28+89.64 "A" to Sta. 29+90.00 "A"

LEGEND
Ⓜ Mill and Resurface



PLAN - GUARDRAIL MGS TRANSITION, WITHOUT CURB, MODIFIED

Scale: 3/8" = 1'-0"
(For additional details, see Std. Dwg. 601-MGSA-12)

DATE	REVISION



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RECOMMENDED FOR APPROVAL	11/27/2018 DATE
DESIGNED: SGM	DRAWN: AJM
CHECKED: JNR	CHECKED: SGM

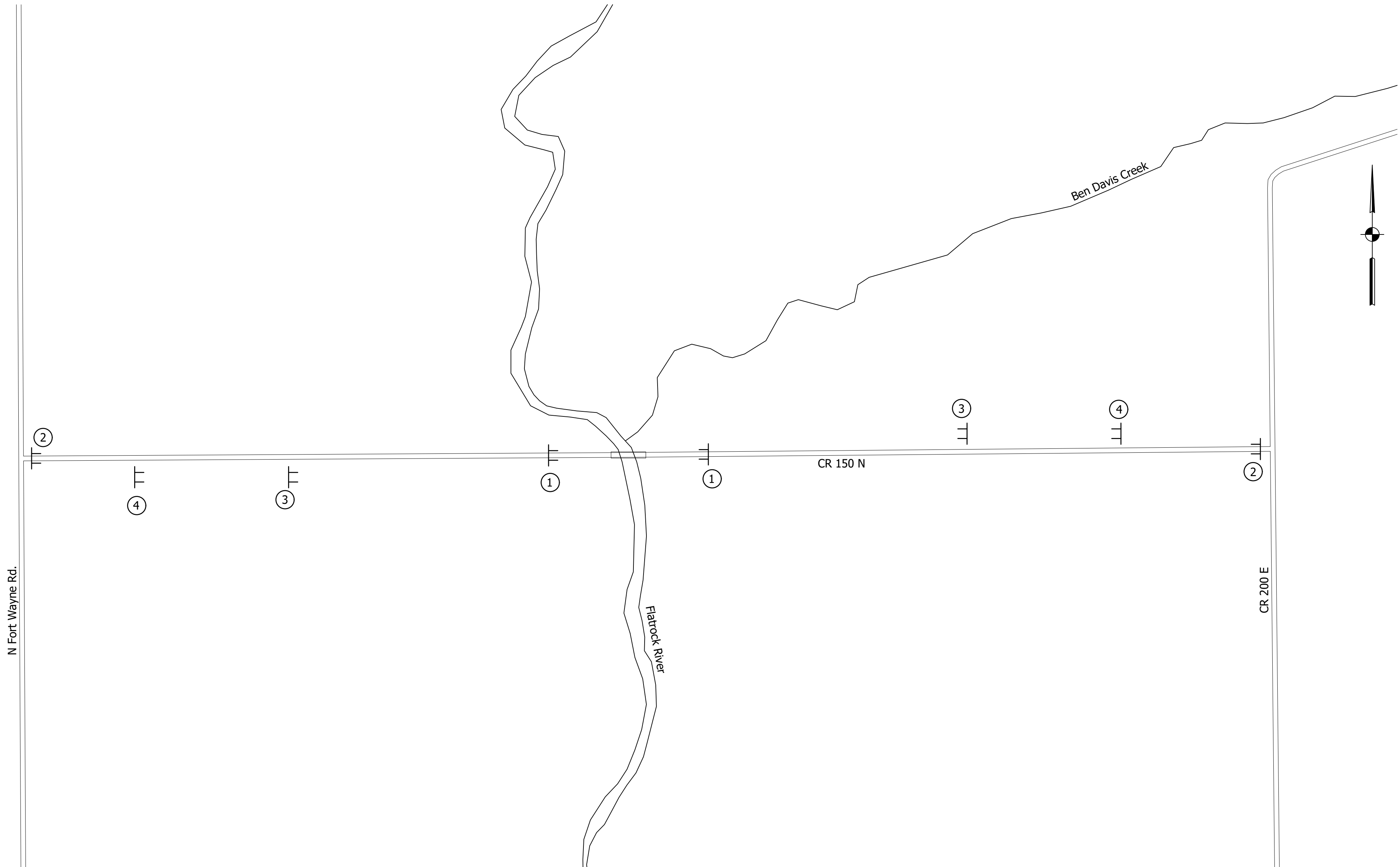
INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
RUSH COUNTY BRIDGE #94

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	RUSH 94
VERTICAL SCALE	DESIGNATION
AS NOTED	1702753
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
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File Name: P:\BR\C3D\18-223\Bridge\Drawg\Plans\MOT.dwg Plot Date: 6/30/2021 Plotted By: Kevin Barry

Note to Reviewer:
Rush County noted at the field check
that a marked detour is not required.



ESTIMATE OF QUANTITIES MAINTENANCE OF TRAFFIC	
ROAD CLOSURE SIGN ASSEMBLY	4 Ea.
CONSTRUCTION SIGN, A	4 Ea.
BARRICADE, III-A	48 Lft.
BARRICADE, III-B	48 Lft.

LEGEND

- ① Type III-A Barricade and Road Closure Sign Assembly (with R11-2)
- ② Type III-B Barricade and Road Closure Sign Assembly (with R11-3 & XG20-5)
- ③ XW20-3 (Road Closed 500 ft.)
- ④ XW20-3 (Road Closed 1000 ft.)

MAINTENANCE OF TRAFFIC PLAN

NOT TO SCALE

NOTES:
Road closure sign notice, XG20-5, to be placed 2 weeks prior to closure of CR 150 N or as directed by the Engineer.

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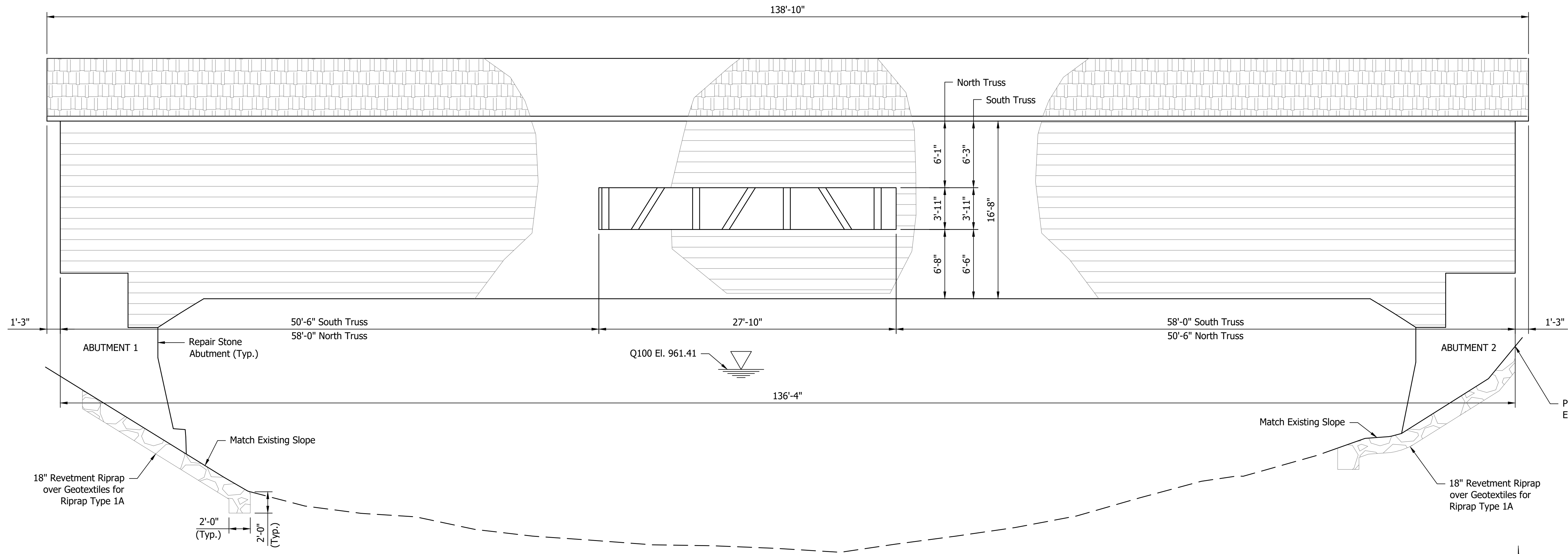
RECOMMENDED FOR APPROVAL _____ 11/27/2018 DESIGN ENGINEER DATE	
DESIGNED: SGM	DRAWN: AJM
CHECKED: JNR	CHECKED: SGM

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DEPARTMENT OF TRANSPORTATION

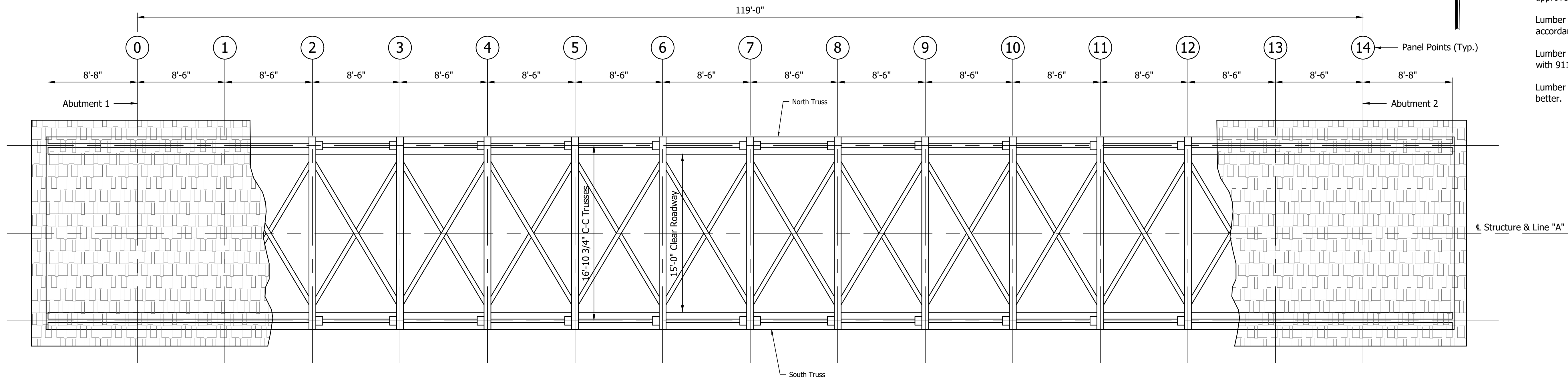
MAINTENANCE OF TRAFFIC
RUSH COUNTY BRIDGE #94

HORIZONTAL SCALE	BRIDGE FILE		
AS NOTED	RUSH 94		
VERTICAL SCALE	DESIGNATION		
AS NOTED	1702753		
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File Name: P:\BR\C3D\18-223\Bridge\Drawings\Plans\GP.dwg Plot Date: 6/30/2021 Plotted By: Kevin Barry



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



PLAN
Scale: 3/16" = 1'-0"

GENERAL NOTES

No plans are available for the existing structure. All dimensions of the existing bridge are based on field measurements. Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field and report any errors or discrepancies to the Engineer and assume responsibility for the corrections and the fit of the new part to the old.

All timbers to be graded per NFPA current National Design Specifications for wood construction.

Any nut or machine bolt in direct contact with timber shall have one plate washer between nut and timber or bolt head and timber.

All bolts shall be A325, type 3 with square heads and shall include one heavy square nut and 2-1/8"x3"x3" A588 square head plate washers unless noted.

Inside timber surfaces shall be treated with a fire retardant. See specifications and sheet xx.

Place riprap up to Elev. 962.0 (Typ.)

DESIGN DATA

The rehabilitation is designed to restore the approximate original conditions of the superstructure and is designed to meet a 10 ton load posting.

All lumber for plank floor shall be rough sawn pressure treated White Oak, Grade No. 2 or better.

All timber for trusses are to be rough sawn and to be one of the following:

- 1) Red Pine select structural
- 2) Eastern White Pine select structural
- 3) Southern Pine, No. 1 or better

Lumber for repairs and replacements may be cut from approved existing truss timbers to be removed.

Lumber for bridge rail and timber bridging shall be in accordance with 911.02.

Lumber for roof rafters and sheathing shall be in accordance with 911.01 and shall be rough sawn Grade No. 2 or better.

Lumber for timber siding shall be Poplar, Grade No. 2 or better.

LEGEND

XX Panel Points

TIMBER TRUSS COVERED BRIDGE
1 SPAN @ 119'-0"
CLEAR ROADWAY = 15'-0"
NO SKEW
CR 150 N OVER FLATROCK RIVER
RUSH COUNTY, INDIANA

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FOR APPROVAL _____ 11/27/2018
DESIGN ENGINEER DATE

DESIGNED: SGM DRAWN: AJM
CHECKED: JNR CHECKED: SGM

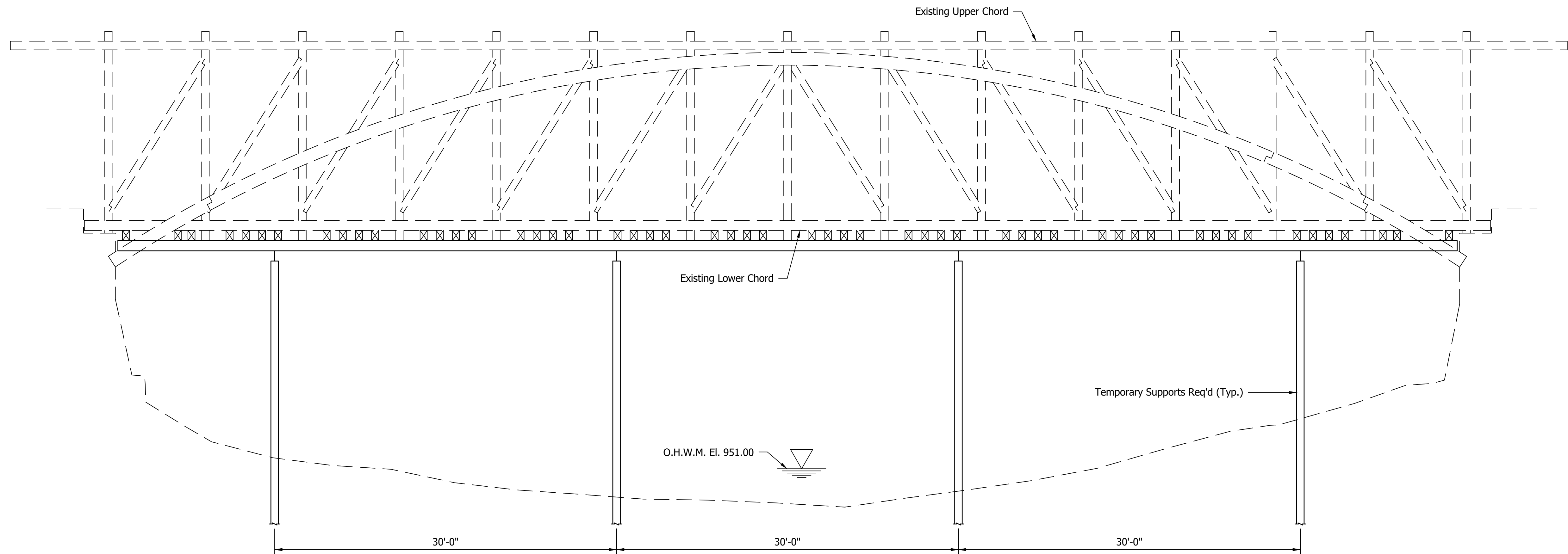
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
RUSH COUNTY BRIDGE #94

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	RUSH 94
VERTICAL SCALE	DESIGNATION
AS NOTED	1702753
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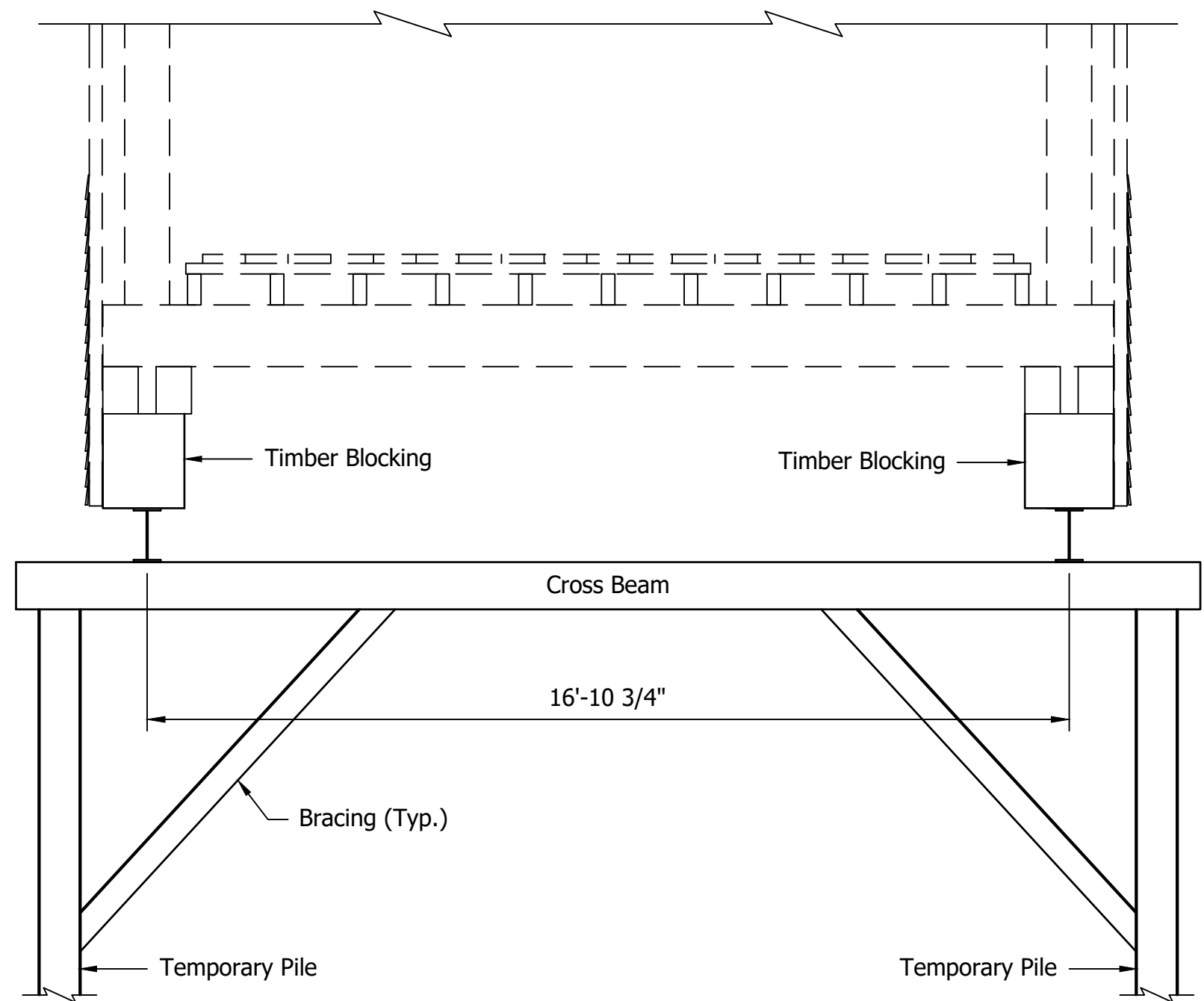
DATE	REVISION	<div></div> <div>8440 Allison Pointe Boulevard, Suite 200 Indianapolis, IN 46250 Phone 317-895-2585 www.ucindy.com</div>			RECOMMENDED FOR APPROVAL		11/27/2018	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE	
						DESIGN ENGINEER	DATE		AS NOTED	RUSH 94	
									VERTICAL SCALE	DESIGNATION	
									AS NOTED	1702753	
					DESIGNED: SGM	DRAWN: AJM	GENERAL PLAN RUSH COUNTY BRIDGE #94	SURVEY BOOK	SHEETS		
					CHECKED: JNR	CHECKED: SGM		-	7	of	11
								CONTRACT B-41303		PROJECT 1702753	

File Name: P:\BR\C3D\18-223\Bridge\Drawg\Plans\Temporary Support.dwg Plot Date: 6/30/2021 Plotted By: Kevin Barry



ELEVATION

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



SECTION A-A

Scale: 3/8" = 1'-0"

TEMPORARY SUPPORT

The Temporary support system for the trusses shall allow room for jacking of the bottom chord.

No more than 4 lines of temporary supports may be used.

The bottom chord support shall allow for replacement of deteriorated portions of the truss.

Any floating debris that may accumulated on the temporary supports shall be removed daily.

The temporary support system shall be completely removed after completion of the work on the superstructure.

Estimated dead load of the bridge at the temporary support locations = xx kips.

DATE	REVISION

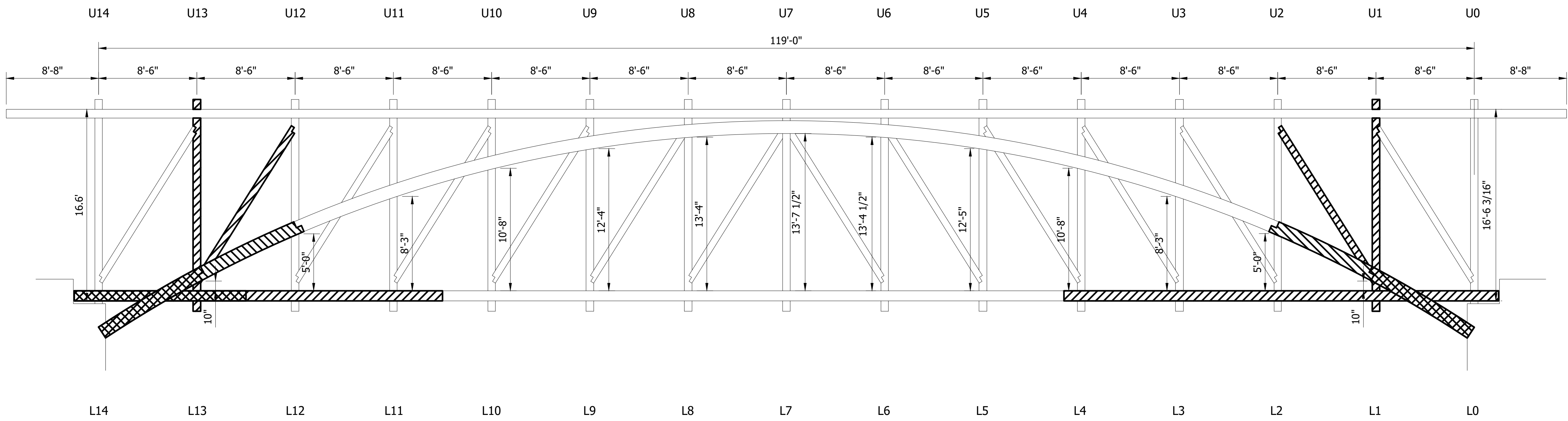


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CHECKED: <u>JNR</u>	CHECKED: <u>SGM</u>	

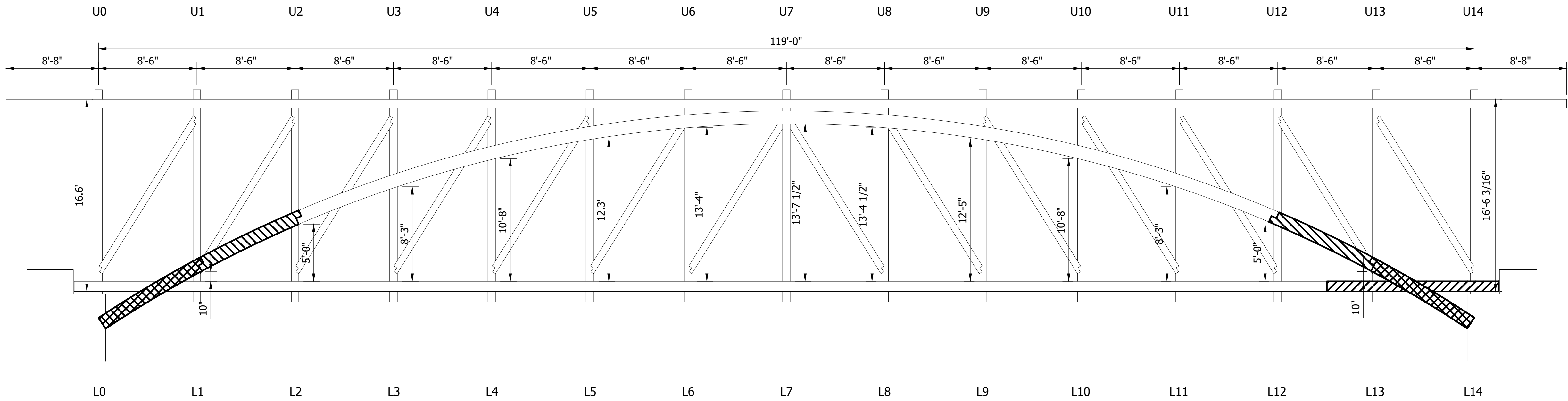
INDIANA	
DEPARTMENT OF TRANSPORTATION	
TEMPORARY SUPPORT DETAIL	
RUSH COUNTY BRIDGE #94	

HORIZONTAL SCALE	BRIDGE FILE		
AS NOTED	RUSH 94		
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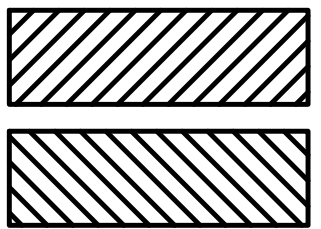
SOUTH TRUSS

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



NORTH TRUSS

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



Replace inside or only member

Replace outside member

File Name: P:\BR\CD\18-223\Bridge\Drawings\Plans\Replacement and Repairs.dwg Plot Date: 6/30/2021 Plotted By: Kevin Barry



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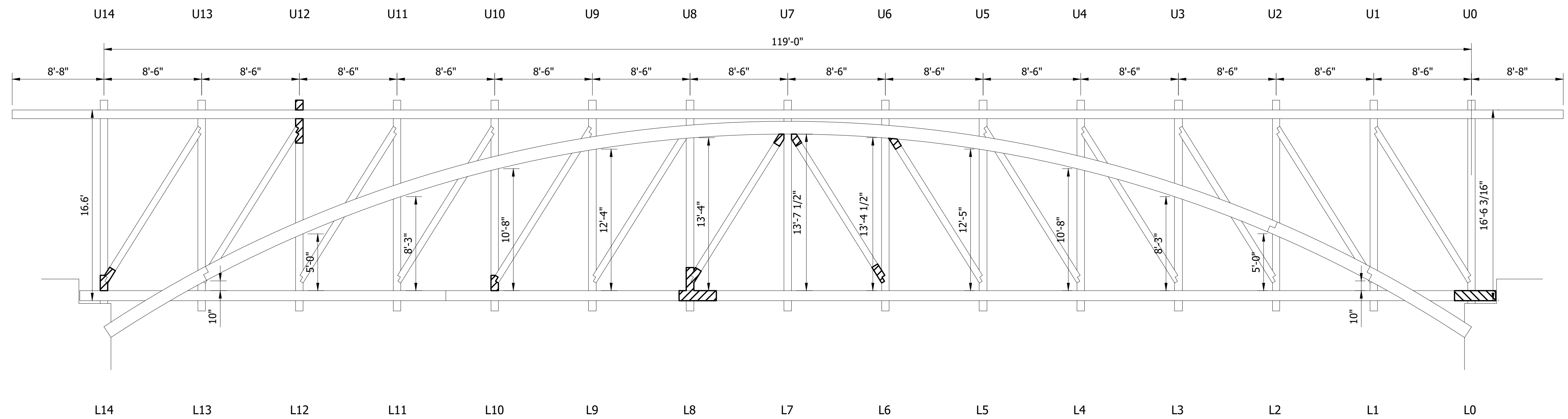
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FOR APPROVAL _____
DESIGN ENGINEER _____ DATE _____

DESIGNED: SGM _____ DRAWN: AJM _____
CHECKED: JNR _____ CHECKED: SGM _____

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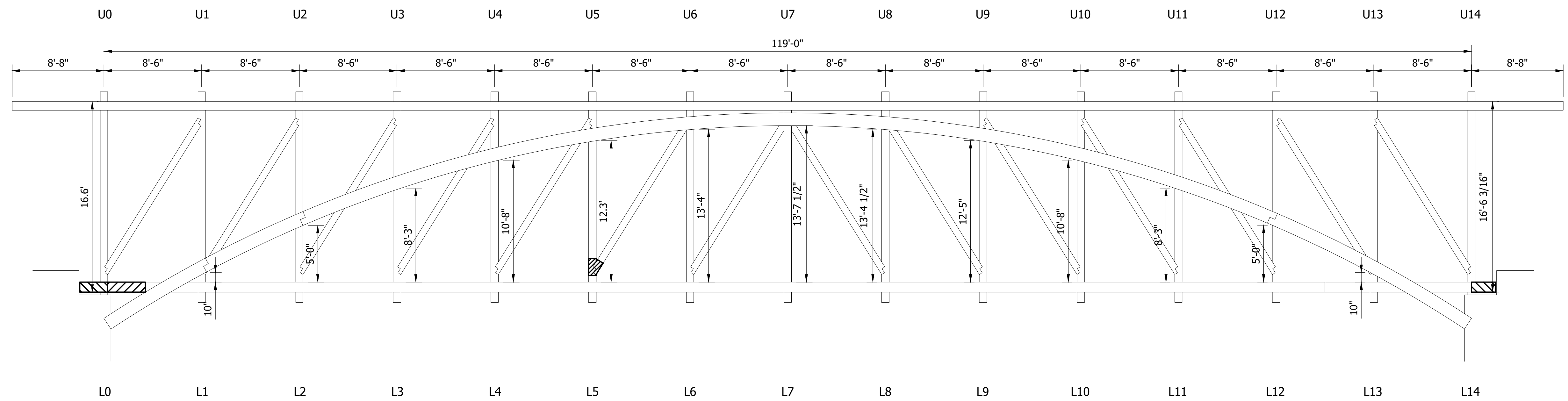
TIMBER REPLACEMENTS
RUSH COUNTY BRIDGE #94

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	RUSH 94
VERTICAL SCALE	DESIGNATION
AS NOTED	1702753
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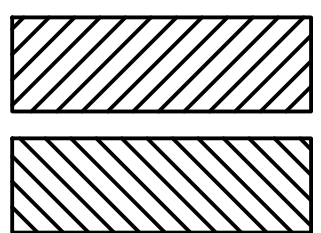
SOUTH TRUSS

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



NORTH TRUSS

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



Repair inside or only member

Repair outside member



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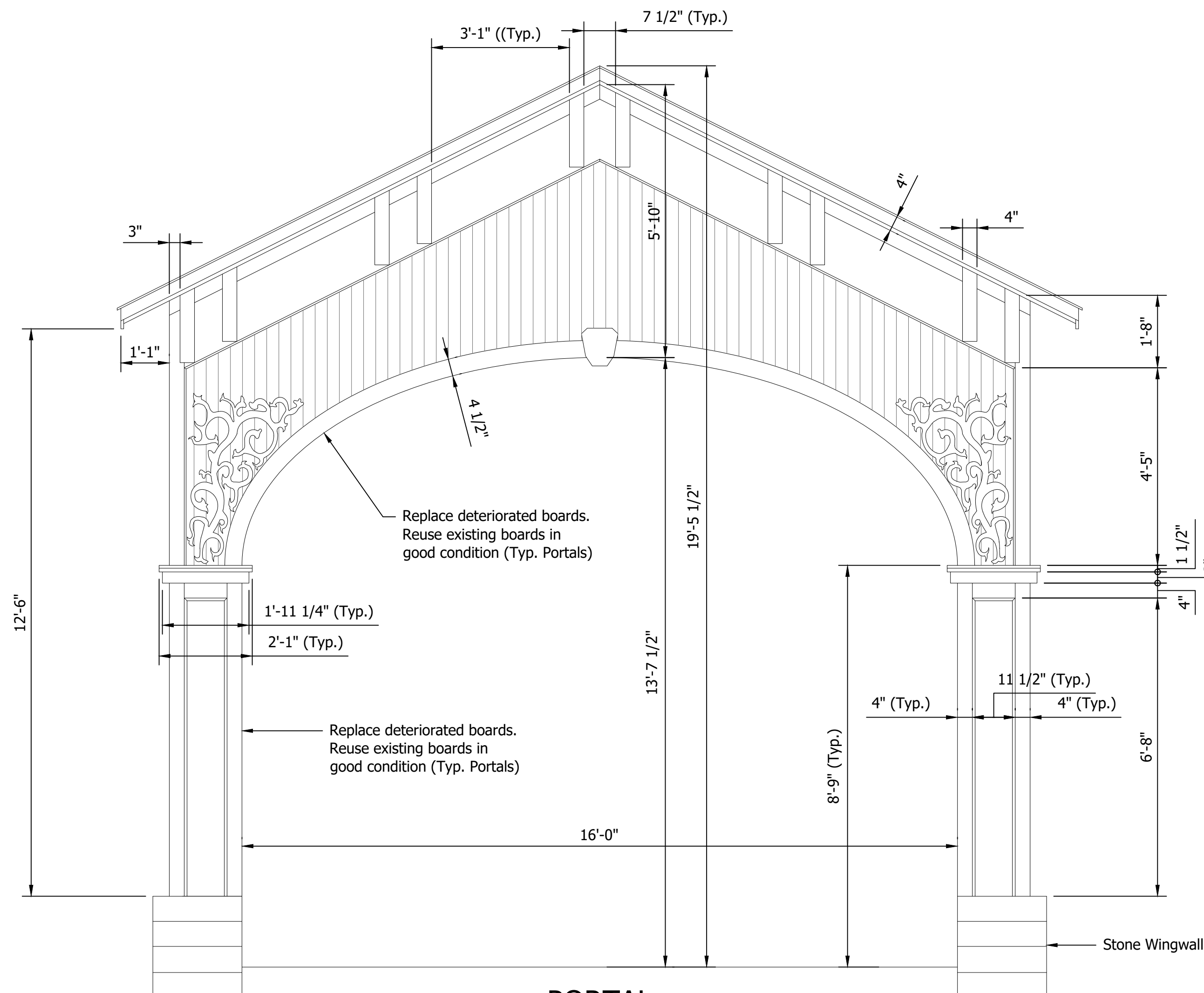
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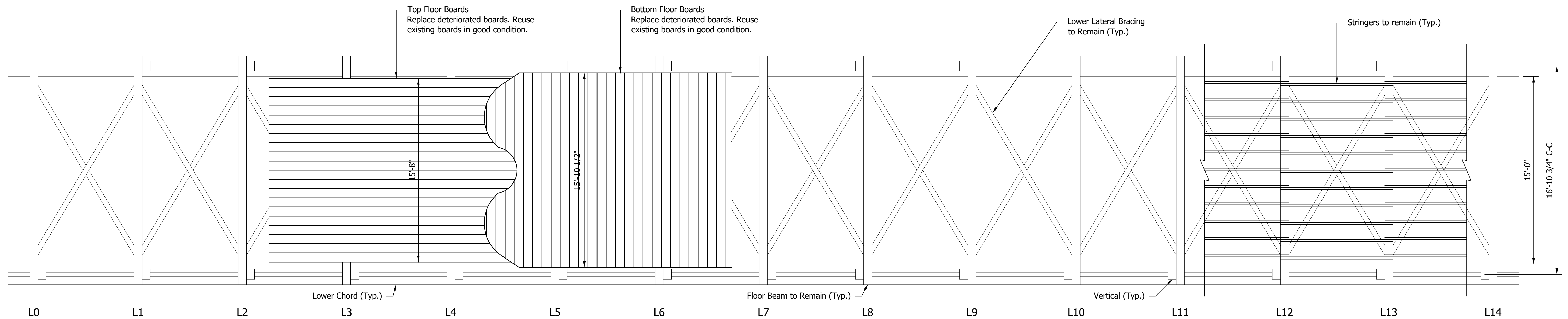
TIMBER REPAIRS
RUSH COUNTY BRIDGE #94

HORIZONTAL SCALE	BRIDGE FILE
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AS NOTED	1702753
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File Name: P:\BR\CD\18-223\Bridge\Drawings\Miscellaneous Details.dwg Plot Date: 6/30/2021 Plotted By: Kevin Barry



PORTAL
Scale: 1/2" = 1'-0"



FLOOR SYSTEM
Scale: 1/4" = 1'-0"



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DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
RUSH COUNTY BRIDGE #94

HORIZONTAL SCALE	BRIDGE FILE
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AS NOTED	1702753
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