

\\bfsr1241\cbs51639000.00001\ProDevelopment\Design\Drawings\63908101.dwg Kathy Coffman Plot:2/11/2021 7:31 AM Save:10/7/2020 2:26 PM

PROJECT	DESIGNATION
1802929	1802929
CONTRACT	BRIDGE FILE
B-43590	RUSH 1

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN & SKEW	OVER	STATION
RUSH 1	CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGE	3 SPANS: 1 @ 42'-0", 1 @ 44'-0", 1 @ 42'-0" SKEW 25°00'00" LT.	SIX MILE CREEK	24+13.00 "PR-1"

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: C.R. 1100 N. OVER SIX MILE CREEK

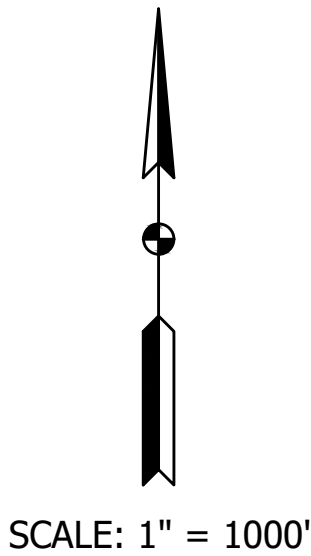
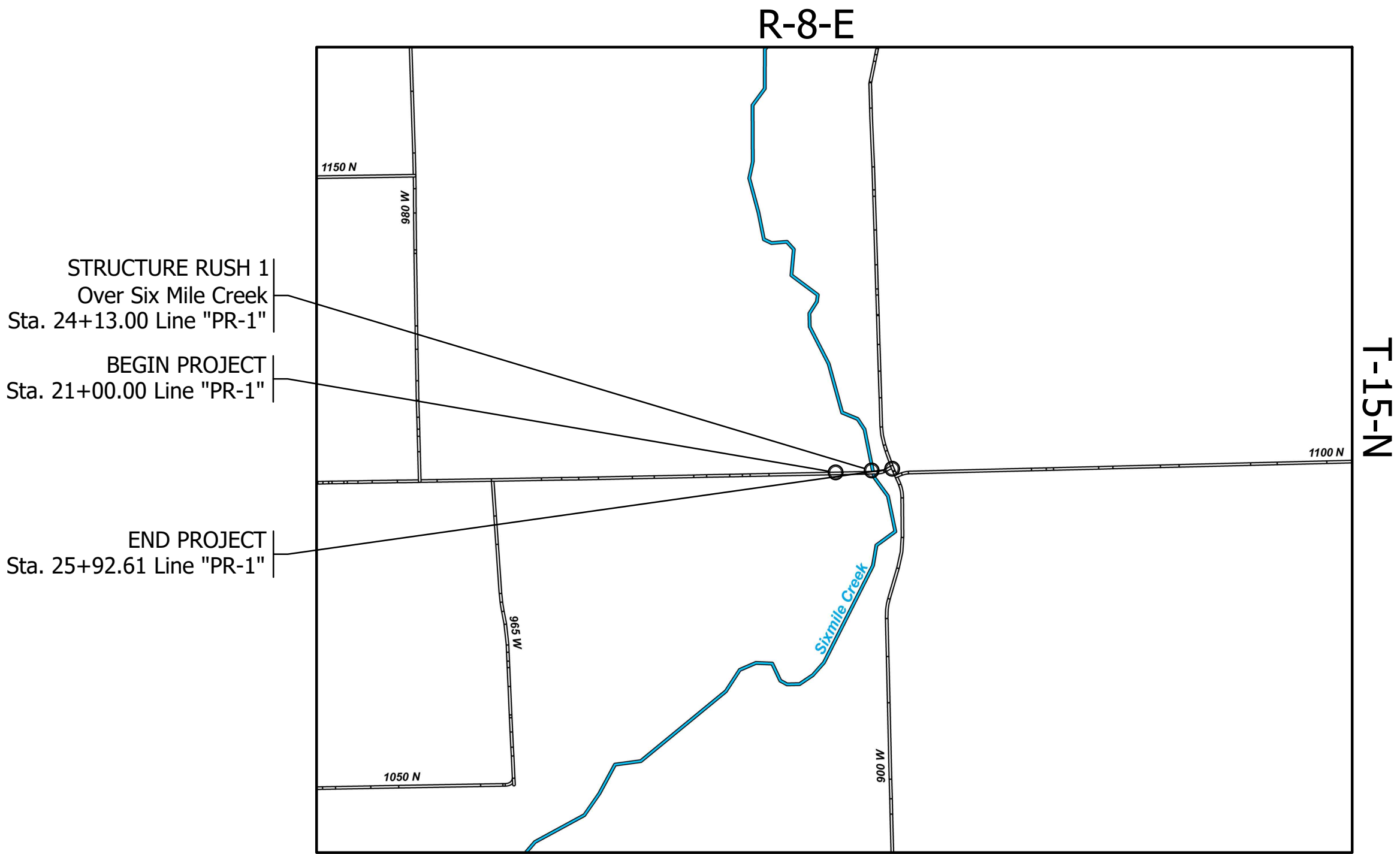
PROJECT NO.

1802929 P.E.

1802929 R/W

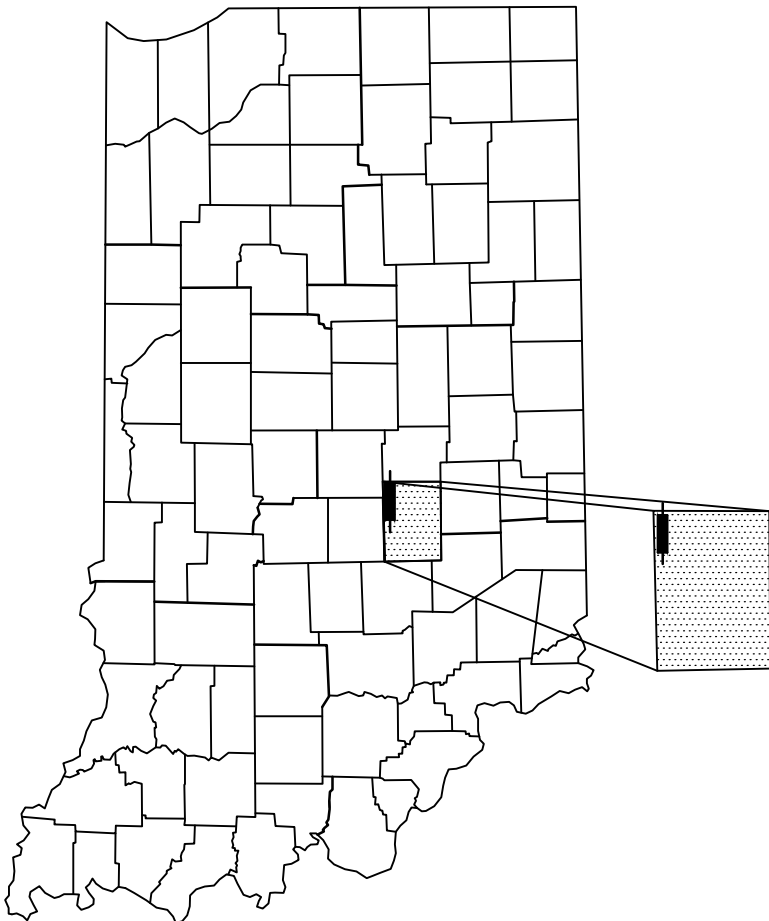
1802929 CONST.

REPLACEMENT OF BRIDGE CARRYING C.R. 1100 N. OVER SIX MILE CREEK
PROJECT IS LOCATED MILES 0.01 MILES WEST OF C.R. 900 WEST
SECTIONS 2, 3, 10 & 11, TOWNSHIP 15 NORTH, RANGE 8 EAST
RIPLEY TOWNSHIP, RUSH COUNTY, INDIANA.



TRAFFIC DATA		
A.A.D.T.	(2017)	672 V.P.D.
A.A.D.T.	(2024)	720 V.P.D.
A.A.D.T.	(2044)	879 V.P.D.
DIRECTIONAL DISTRIBUTION		50 %
COMMERCIAL VEHICLES		5% A.A.D.T.

DESIGN DATA	
DESIGN SPEED	30 M.P.H.
POSTED SPEED	30 M.P.H.
PROJECT DESIGN CRITERIA	3R NON-FREEWAY
FUNCTIONAL CLASSIFICATION	LOCAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE



PROJECT LOCATION SHOWN BY — RUSH COUNTY

LATITUDE: 39° 46' 16" N LONGITUDE: 85° 36' 52" W

BRIDGE LENGTH: 0.025 MI.
ROADWAY LENGTH: 0.068 MI.
TOTAL LENGTH: 0.093 MI.
MAX. GRADE: 2.25 %

HUC: 05120204020020

FULL SIZE PLANS HAVE BEEN PREPARED USING
STANDARD ENGINEERING SCALES. REDUCED SIZED
PLANS WILL NOT CONFORM TO STANDARD SCALES.

PLANS PREPARED BY:	Butler Fairman and Seufert Inc.	(317)713-4615
		PHONE
CERTIFIED BY:		DATE
APPROVED FOR LETTING:		DATE
	INDIANA DEPARTMENT OF TRANSPORTATION	

BRIDGE FILE	
RUSH 1	
DESIGNATION	
1802929	
SURVEY BOOK	SHEET
ELECTRONIC	1 OF 18
CONTRACT	PROJECT
B-43590	1802929

UTILITIES

ELECTRIC: RUSH SHELBY ENERGY
P.O. BOX 55
MANILLA, IN 46150
PH: (765) 544-2600
ATTN: WARREN SHUPPERT
EMAIL: wshuppert@RSE.coop

COMMUNICATION: AT&T
240 N. MERIDIAN STE 179
INDIANAPOLIS, IN 46204
PH: (317) 265-3050
ATTN: MATT SPINDLER
EMAIL: ms4822@att.com

REVISIONS

[illegible]

INDEX

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Note to Reviewer:

A Plat Sheet was determined not to be required since this is a bridge replacement project with a relatively short project length.

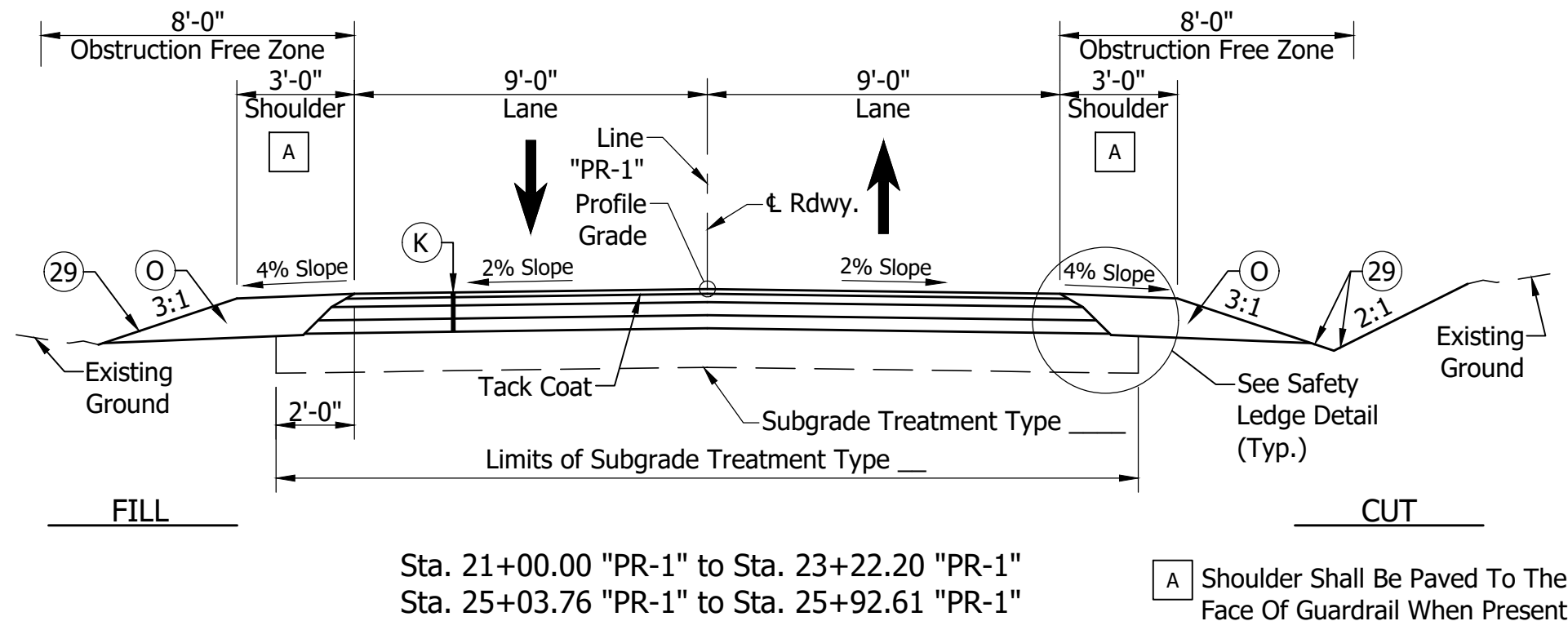
All necessary information can be found on the plan and profile sheets.

Only three property owners are involved.

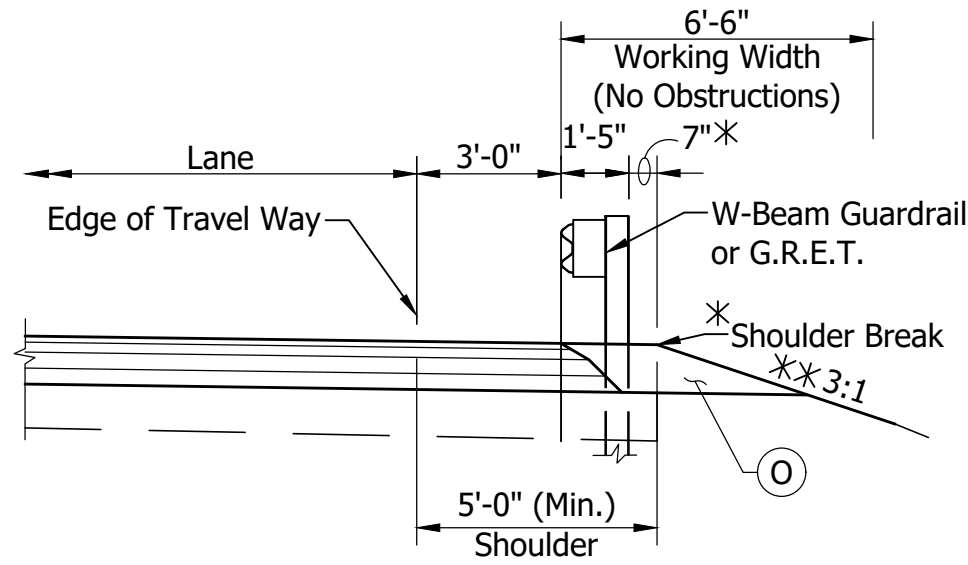
Mike Matel

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE N/A		BRIDGE FILE RUSH 1		6300
			VERTICAL SCALE N/A	DESIGNATION 1802929			
			SURVEY BOOK ELECTRONIC	2	OF	18	
			CONTRACT B-43590	PROJECT 1802929			
	DESIGNED: _____ M. MATEL _____ DRAWN: _____ L. KIRSCH _____	INDEX					
	CHECKED: _____ Q. O'BRIEN _____ CHECKED: _____ M. MATEL _____						

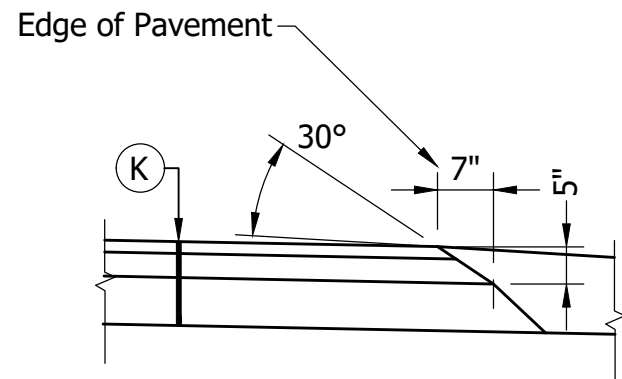
\\bfs1241\jobs51639000.0000\ProDevelopment\Design\Drawings\639021.dwg Kathy Coffman Plot:2/11/2021 7:31 AM Save:2/1/2021 12:56 PM



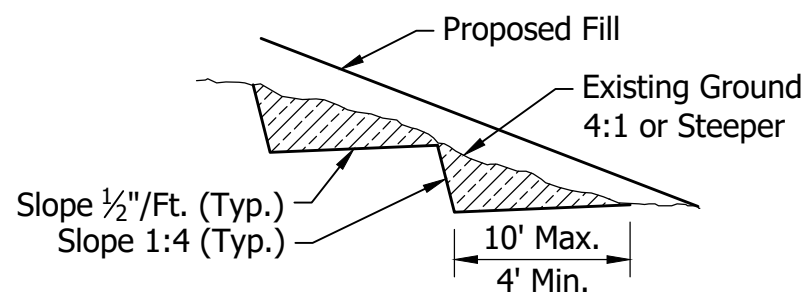
TYPICAL APPROACH SECTION
Scale: 1/4" = 1'-0"



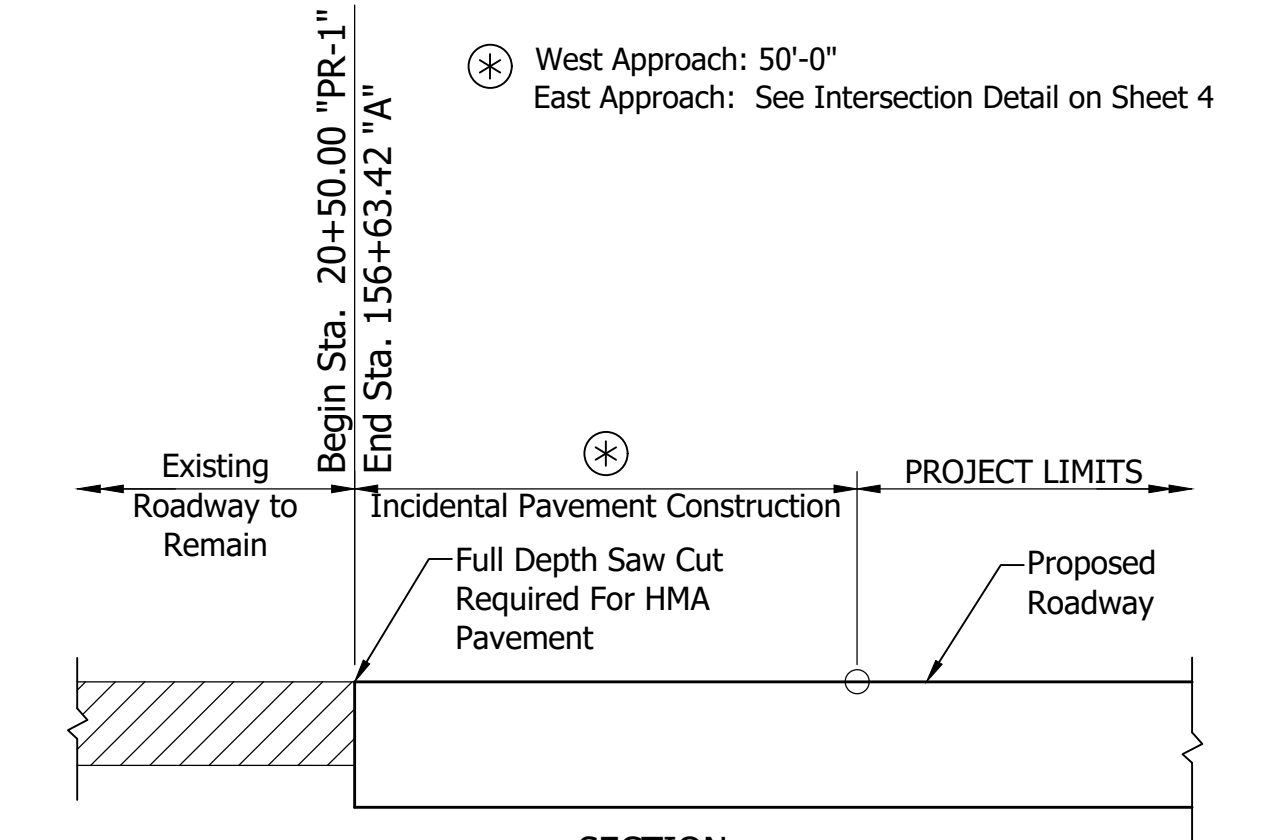
TYPICAL SECTION WITH GUARDRAIL
Scale: 1/4" = 1'-0"



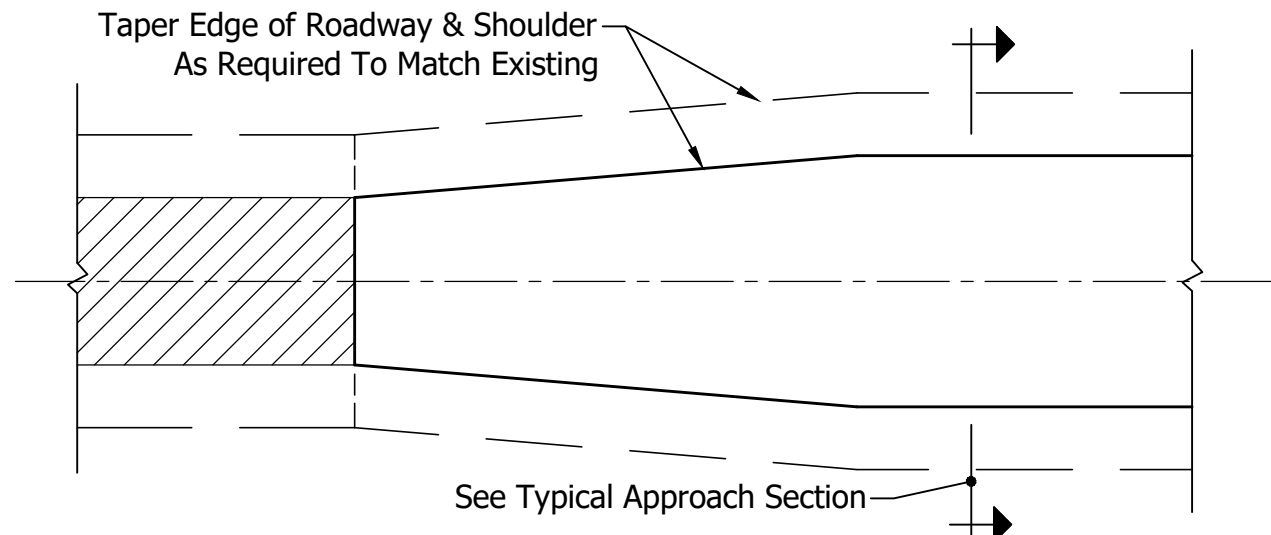
SAFETY EDGE DETAIL
Scale: 1/2" = 1'-0"



TYPICAL BENCHING DETAIL
Not to Scale



SECTION



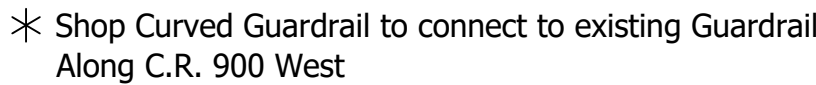
PLAN

TYPICAL INCIDENTAL CONSTRUCTION DETAILS
Not to Scale

- LEGEND**
- (K) HMA FULL DEPTH PAVEMENT
165#/Syd. QC/QA-HMA, 2, 64, Surface 9.5 mm on
275#/Syd. QC/QA-HMA, 2, 64, Intermediate 19.0 mm on
8" Compacted Agg., No. 53 (Place in 2-4" Lifts)
(No Calcium Chloride Req'd.)
 - (O) Variable Depth Compacted Aggregate, No. 53
 - (29) Mulched Seeding, R

- NOTES:**
- A safety edge shall be placed in the surface and intermediate layers of all edges of pavements that are not bound by a curb.
 - Tack Coat required between Intermediate and Surface HMA layers.

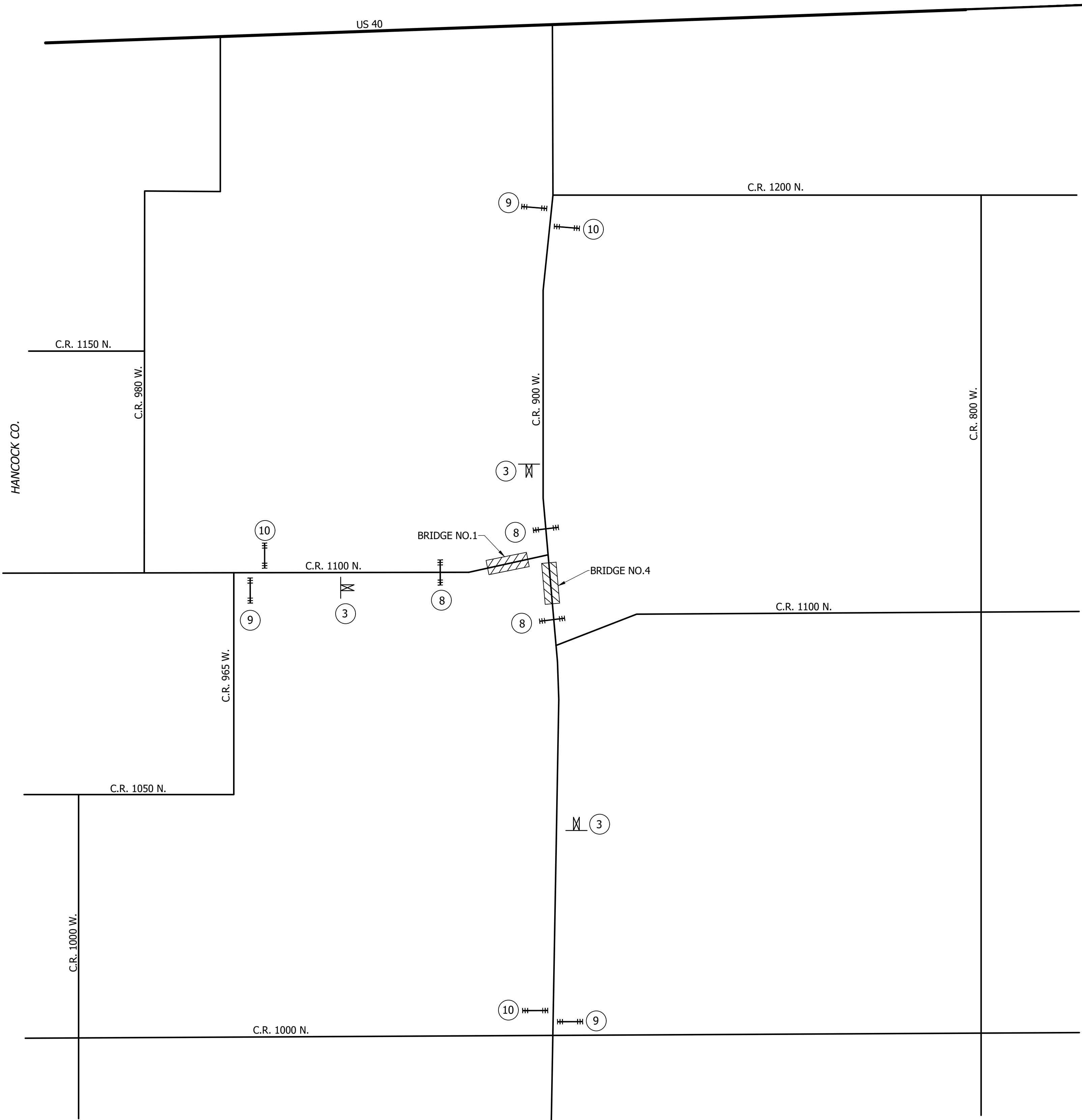
	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE As Noted		BRIDGE FILE RUSH 1		6390
				VERTICAL SCALE N/A		DESIGNATION 1802929		
	DESIGNED: _____ M. MATEL _____ DRAWN: _____ L. KIRSCH _____			SURVEY BOOK ELECTRONIC		SHEET 3 OF 18		
	CHECKED: _____ Q. O'BRIEN _____ CHECKED: _____ M. MATEL _____			CONTRACT B-43590		PROJECT 1802929		
			TYPICAL APPROACH SECTION		DPS NO.			



Scale: 1" = 30'

BFS NO. 6390

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SIGN LEGEND				
SYMBOL	MESSAGE	NUMBER	TYPE	REQ'D.
①	ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY	R11-3	A	
	DETOUR	XM4-10(L)	B	
②	ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY	R11-3	A	
	DETOUR	XM4-10(R)	B	
③	ROAD CLOSED 1000 FT.	XW20-3	A	3
④	ROAD CLOSED 500 FT.	XW20-3	A	
⑤	DETOUR ROUTE MARKER ASSEMBLY (LEFT)			
⑥	DETOUR ROUTE MARKER ASSEMBLY (RIGHT)			
⑦	DETOUR AHEAD	XW20-2	A	
⑧	STANDARD BARRICADE (TYPE III-A) (24'-0" SECTION) *			3
	ROAD CLOSURE SIGN ASSEMBLY (R11-2)			3
⑨	STANDARD BARRICADE (TYPE III-B) (12' SECTION)			3
	ROAD CLOSURE SIGN ASSEMBLY (R11-2)			3
⑩	STANDARD BARRICADE (TYPE III-B) (12' SECTION)			3
⑪	ROUTE CLOSURE NOTICE	XG20-5	A	
⑫	END DETOUR	M4-8a	B	

* 2 BARRICADES REQUIRED PER LOCATION. TOTAL QUANTITY = 72'-0"

LEGEND

-  TYPE III-A/III-B BARRICADE
-  CONSTRUCTION SIGN TYPE AS SHOWN

CONSTRUCTION SIGNAGE
Not to Scale

RECOMMENDED FOR APPROVAL: _____	
DESIGN ENGINEER	DATE
DESIGNED: M. MATEL DRAWN: K. COFFMAN	
CHECKED: Q. O'BRIEN	CHECKED: M. MATEL

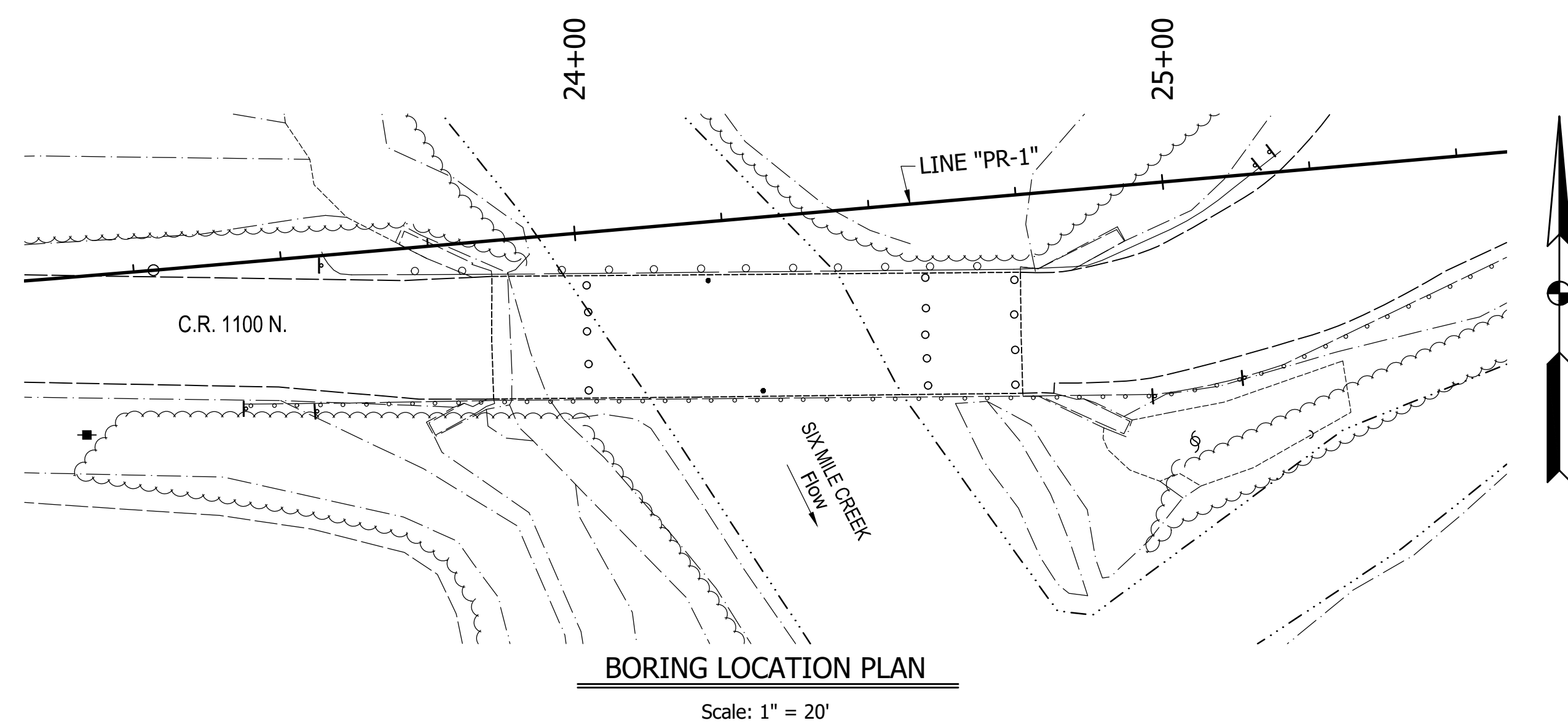
INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION SIGNAGE

HORIZONTAL SCALE	BRIDGE FILE	
As Noted	RUSH 1	
VERTICAL SCALE	DESIGNATION	
N/A	1802929	
SURVEY BOOK	SHEET	
ELECTRONIC	5	OF 18
CONTRACT	PROJECT	
B-43590	1802929	

BFS NO. 6390

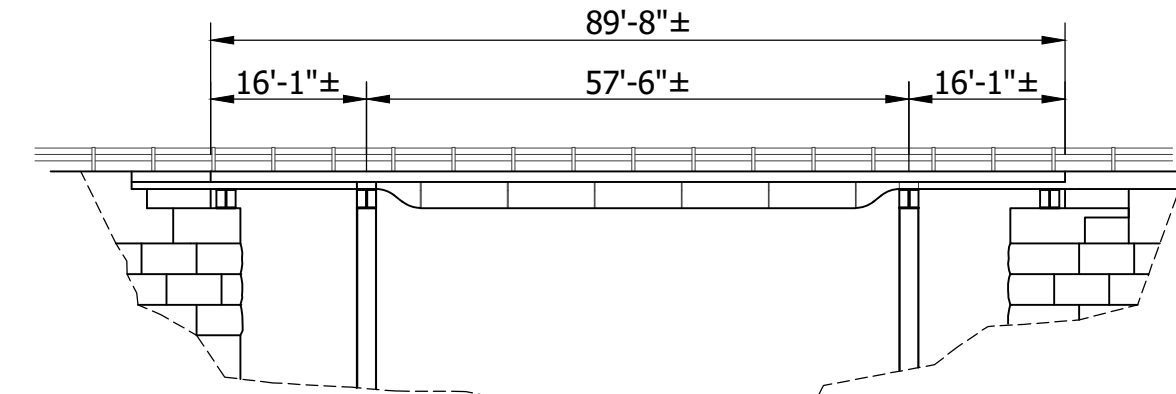
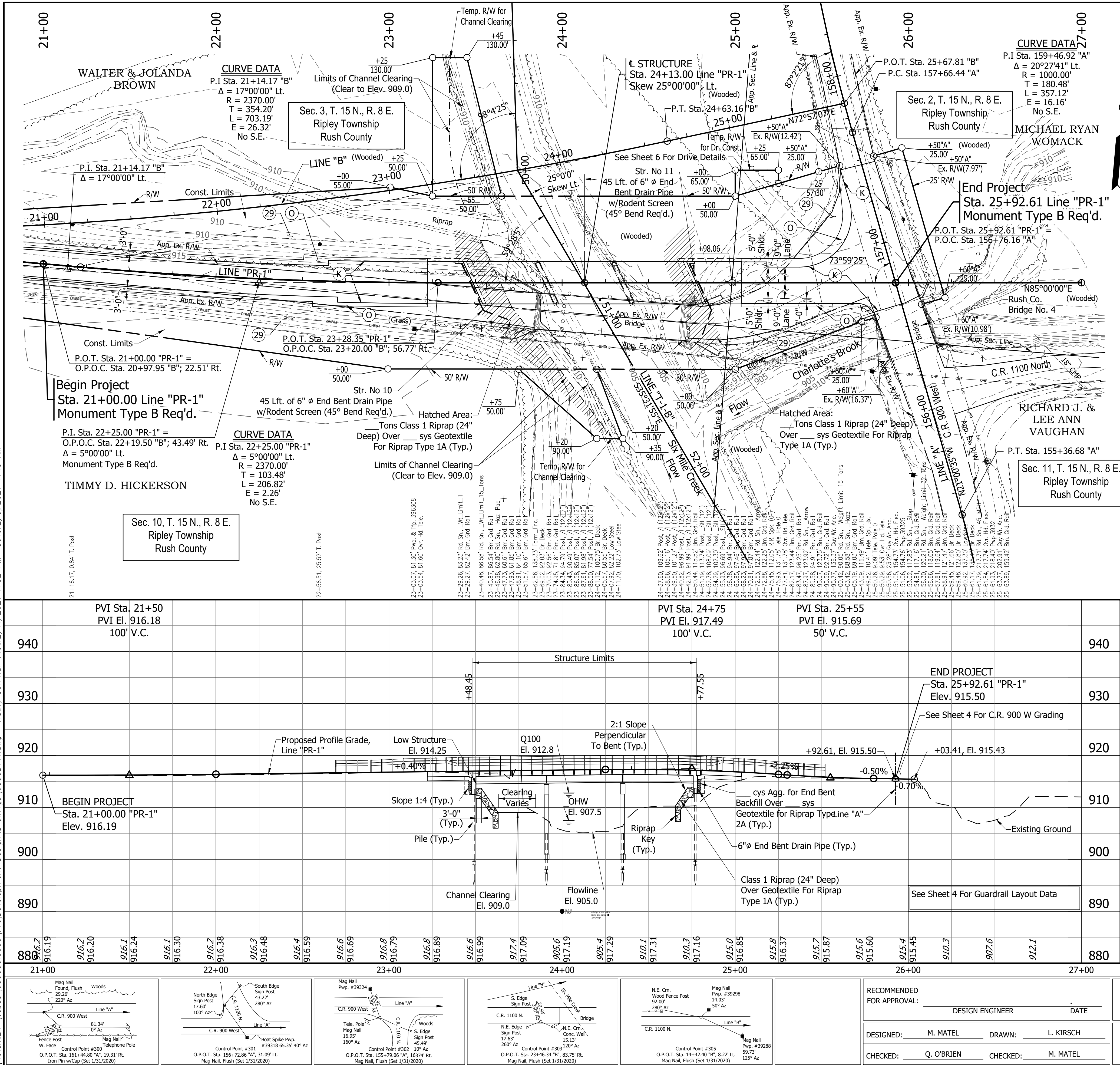
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Note to Reviewer:
The geotechnical consultant has not been able to complete the field work and obtain the soil borings at this time. Stage 2 Plan submittal was not going to be delayed due to this. Soil test borings at the bridge as well as the pile table and associated notes will be placed on this sheet when the geotechnical report is completed prior to Stage 3 submission when all of this information is needed for the design of the bridge.
Mike Matel

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE As Noted	BRIDGE FILE RUSH 1	
	DESIGNED: M. MATEL DRAWN: _____		VERTICAL SCALE N/A	DESIGNATION 1802929	
	CHECKED: ACE CHECKED: ACE	SOIL BORINGS	SURVEY BOOK ELECTRONIC	SHEET 7 OF 18	
			CONTRACT B-43590	PROJECT 1802929	

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The existing steel bridge was built in 1912 & rehabbed in 1992
Span length: 1 @ 16'1"±, 1 @ 57'-6"±, 1 @ 16'1"±
Middle Span Comprised of Two Steel Car Carriers
Clear roadway 21'-0". Total length of 89'-8"±
Existing structure to be removed.

LEGEND

- (K) HMA Full Depth Pavement
- (O) Compacted Aggregate, No. 53
- (29) Mulched Seeding, R

EXISTING STRUCTURE

Not To Scale

BM #2 El.
914.41' Boat Spike "Set" in Power Pole
#39318 Sta. "A", 14.39' Rt. 157+10.14

BM #5 El.
932.42' Boat Spike "Set" in Power Pole
#39296 Sta. "B", 18.09' Lt. 11+94.96

ALL R/W ON THIS SHEET DESCRIBED FROM
LINE "PR-1" UNLESS OTHERWISE NOTED

NOTE: ALL TOPOGRAPHY INFORMATION REFERENCED
TO LINE "B" UNLESS NOTED.

HYDRAULIC DATA

ITEM	EXISTING STRUCTURE	PROPOSED STRUCTURE
DRAINAGE AREA	24.7 Sq. Mi.	24.7 Sq. Mi.
Q100 (TAILWATER)	914.1 Ft.	914.1 Ft.
DESIGN DISCHARGE Q100	4,750 Cu. Ft./Sec.	4,750 Cu. Ft./Sec.
BACKWATER Q100	2.11 Ft.	2.35 Ft.
GROSS WATERWAY AREA PROVIDED BELOW Q100	487.5 Sq. Ft.	426.68 Sq. Ft.
ROADWAY OVERFLOW	0 Sq. Ft.	111.01 Sq. Ft.
TOTAL WATERWAY AREA PROVIDED	514 Sq. Ft.	605 Sq. Ft.
VELOCITY THROUGH STRUCTURE	7.8 Ft./Sec.	6.7 Ft./Sec.
LOW STRUCTURE ELEVATION	914.9 Ft.	914.25 Ft.

SCOUR DATA

Q100 DISCHARGE	4,750 Cu. Ft./Sec.
Q100 ELEVATION	912.82 Ft.
Q100 MAX VELOCITY	8.45 Ft./Sec.
Q100 CONTRACTION SCOUR	12.12 Ft.
Q100 TOTAL SCOUR	28.71 Ft.
Q100 LOW SCOUR ELEVATION	876.07 Ft.
Q500 DISCHARGE	6,200 Cu. Ft./Sec.
Q500 ELEVATION	913.57 Ft.
Q500 MAX VELOCITY	10.72 Ft./Sec.
Q500 CONTRACTION SCOUR	13.05 Ft.
Q500 TOTAL SCOUR	25.54 Ft.
Q500 LOW SCOUR ELEVATION	879.24 Ft.

EARTHWORK

ITEM	QUANTITY
FILL + 15%	Cys.
COMMON EXCAVATION	Cys.
USABLE WATERWAY EXCAVATION (30%)	Cys.
BORROW	Cys.

STRUCTURE EXCAVATION

ITEM	QUANTITY
WATERWAY EXCAVATION	Cys.
WET EXCAVATION	Cys.
FOUNDATION EXCAVATION (UNCLASSIFIED)	Cys.
DRY EXCAVATION	Cys.

Note: Above Quantities Do Not Include ###
Cys. For Benching. Estimated Benching Will Not
Be Paid For Directly. Cost Of Benching Shall Be
Included In Cost Of Common Excavation.

NOTES
See Sheet 2 For Utility Owners
See Sheet 4 For Signage

CONTINUOUS COMPOSITE PRESTRESSED
CONCRETE BOX BEAM BRIDGE
3 SPANS: 1 @ 42'-0", 1 @ 44'-0", 1 @ 42'-0"
24'-0" CLEAR ROADWAY; SKEW 25°00'00" LT.
C.R. 1100 N. OVER SIX MILE CREEK
RUSH COUNTY

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT

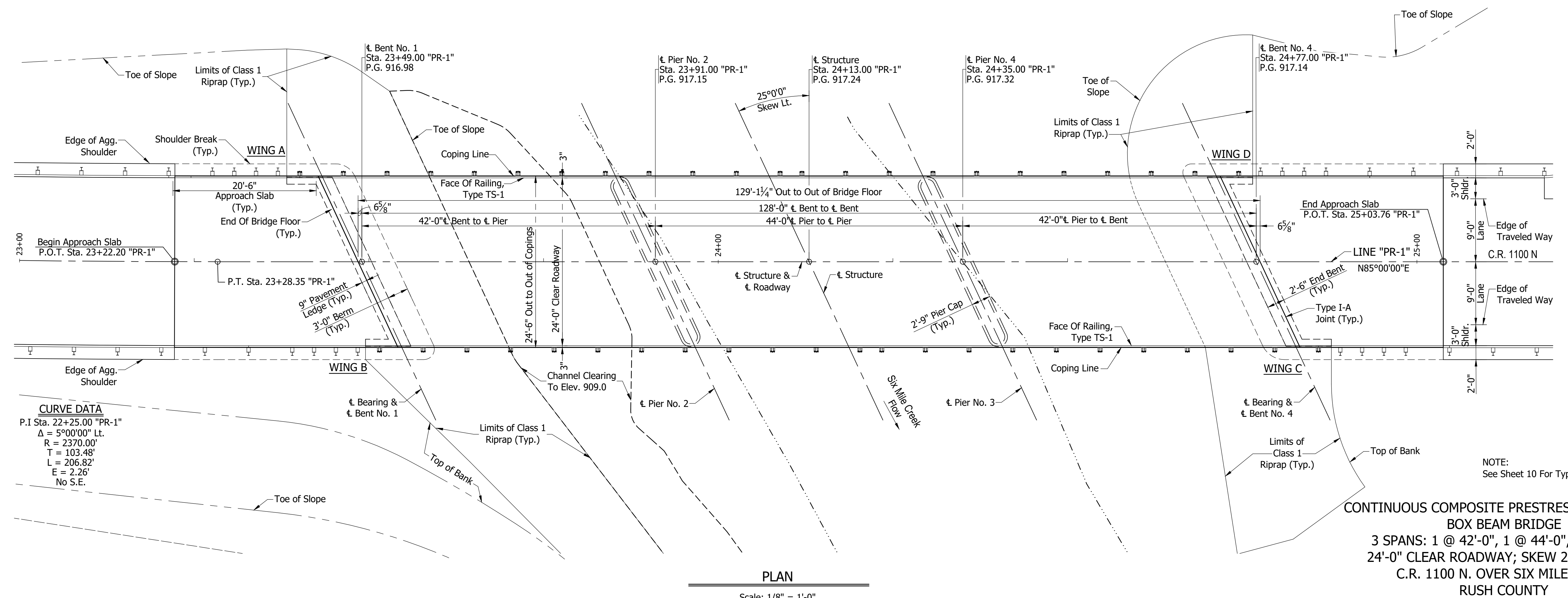
RECOMMENDED
FOR APPROVAL: _____ DATE _____

DESIGNED: M. MATEL DRAWN: L. KIRSCH

CHECKED: Q. O'BRIEN CHECKED: M. MATEL

HORIZONTAL SCALE 1" = 30'-0"	BRIDGE FILE RUSH 1
VERTICAL SCALE 1" = 10'-0"	DESIGNATION 1802929
SURVEY BOOK ELECTRONIC	SHEET 8 OF 18
CONTRACT B-43590	PROJECT 1802929

BFS NO. 6390



CONTINUOUS COMPOSITE PRESTRESSED CONCRETE
BOX BEAM BRIDGE
3 SPANS: 1 @ 42'-0", 1 @ 44'-0", 1 @ 42'-0"
24'-0" CLEAR ROADWAY; SKEW 25°00'00" LT.
C.R. 1100 N. OVER SIX MILE CREEK
RUSH COUNTY

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE N/A		BRIDGE FILE RUSH 1		6390 SHEET NO.
				VERTICAL SCALE N/A		DESIGNATION 1802929		
	DESIGNED: M. MATTEL DRAWN: L. KIRSCH			SURVEY BOOK ELECTRONIC		SHEET 9 OF 18		
	CHECKED: O. Q'BRIEN CHECKED: M. MATTEL			CONTRACT B-43590		PROJECT 1802929		
				GENERAL PLAN - PLAN & ELEVATION VIEWS				

ONLY 3 INCH.

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GENERAL NOTES

DESIGN DATA

4500 lb distributed over 10 ft. along the coping.

SEAT ELEVATIONS

Fillet depth to vary along length of beam to compensate for residual camber of beams, beam notches and Profile Grade Vertical Curve. Actual cambers which are greater or less than design cambers will be accounted for by reducing or increasing the fillets. The beams shall not extend into the slab more than 1"

CONTINUOUS COMPOSITE PRESTRESSED CONCRETE
BOX BEAM BRIDGE
3 SPANS: 1 @ 42'-0", 1 @ 44'-0", 1 @ 42'-0"
24'-0" CLEAR ROADWAY; SKEW 25°00'00" LT.
C.R. 1100 N. OVER SIX MILE CREEK
RUSH COUNTY

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE N/A		BRIDGE FILE RUSH 1		6390
			VERTICAL SCALE N/A	DESIGNATION 1802929			
	DESIGNED: M. MATEL DRAWN: L. KIRSCH		SURVEY BOOK ELECTRONIC		10	OF 18	
	CHECKED: Q. O'BRIEN CHECKED: M. MATEL		CONTRACT B-43590		PROJECT 1802929		
		GENERAL PLAN - TYPICAL SECTION					BFS NO.

SUMMARY OF BRIDGE QUANTITIES									
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[illegible]

** Estimated quantity

BRIDGE SUMMARY

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE		BRIDGE FILE	
			AS NOTED	RUSH		
			VERTICAL SCALE	DESIGNATION		
			N/A	1802929		
	DESIGNED: _____ M. MATTEL _____ DRAWN: _____ K. COFFMAN _____		SURVEY BOOK		SHEET	
CHECKED: _____ Q. O'BRIEN _____ CHECKED: _____ M. MATTEL _____	ELECTRONIC		11	OF	18	
	BRIDGE SUMMARY		CONTRACT		PROJECT	
			B-43590		1802929	

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PAVEMENT QUANTITIES AND APPROACH TABLE																																									
LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE				EXCAVATION		CLEAR ZONE AT DRIVE	HMA FOR APPROACHES				HMA MATERIALS					HMA BASE 25 mm	SEAL COAT TYPE 2	SEAL COAT TYPE 5	HMA MATERIAL FOR:		COMPACTED AGGREGATE FOR BASE NO. 53				COMPACTED AGGREGATE FOR SURFACE NO. 73					REMARKS		
						COMPACTED AGGREGATE BASE	HMA	CONCRETE												SURFACE 9.5 mm	INTERMD. 19.0 mm	BASE 25.0 mm	PRIME COAT	TACK COAT																	
		1	2	3	4	CUT CYS	FILL CYS	LBS. PER SYD.				LBS. PER SYD.				TONS	SYS	SYS	SYS	SYS	DEPTH				DEPTH																
								%	%	%	%	SYS	SYS	SYS							SYS	8 IN	SYS	SYS	SYS	SYS	SYS														
FT	FT	FT	FT	FT	SYS	SYS	SYS	%	%	%	%	CUT CYS	FILL CYS	FT	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	TONS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS							
25+52 "PR-1" LT.	Mod. Cl. V Drive	12	55.0	10, 10	3				8.26																																
MAIN LINE																																									
						0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						

GUARDRAIL SUMMARY TABLE																														
FROM (STATION)	TO (STATION)	LEFT	MEDIAN LEFT	MEDIAN RIGHT	RIGHT	GUARDRAIL LENGTH								GUARDRAIL SHOP CURVED RADIUS	RAILING TRANSITION, TYPE TGS-1	GUARDRAIL TRANSITION TYPE	GUARDRAIL TRNASTION TYPE	TYPE 5 ANCHOR WITH TERMINAL END BUFFER	GUARDRAIL END TREATMENT OS	GUARDRAIL END TREATMENT TYPE I	RVED W-BEAM GUARDRAIL SYSTEM				GUARDRAIL REMOVE	GUARDRAIL RESET	REMARKS			
						STANDARD POST AT 6'-3" SPA.	SHOP CURVED W-BEAM GUARDRAIL AT 6'-3" SPACING	SHOP CURVED W-BEAM GUARDRAIL AT 3'-1 1/2" SPACING	DOUBLE FACED AT 6'-3" SPA.	LONG POST AT 6'-3" SPA.	LONG POST AT 3'-1 1/2" SPA.	LONG POST AT 1'-6 3/4" SPA.	SHOP CURVED AT 6'-3" SPA.								NESTED GUARDRAIL	TERMINAL SYSTEM		CONNECTOR SYSTEM				GUARDRAIL	GUARDRAIL	
						LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT								LFT	EACH	EACH	EACH				EACH	EACH	EACH
22+33.81 "PR-1"	23+40.10 "PR-1"	X				56.25								1				1												
22+39.96 "PR-1"	23+51.53 "PR-1"				X	62.5								1				1												
24+74.48 "PR-1"	25+18.23 "PR-1"	X				43.75	18.75						8'-6"	1			1													
24+85.90 "PR-1"	25+67.15 "PR-1"				X	62.5		15.625					10'-0"	1												Connect to Existing Guardrail				
						225	18.75	15.625						4			1		2											

MONUMENT TABLE	
LOCATION	TYPE
21+00 "PR-1"	B
22+25 "PR-1"	B
25+92.61 "PR-1"	B

TRAFFIC SIGNS										
LINE	STATION	LT./RT.	SIGN	MESSAGE	SIGNS			POSTS		
					SHEET TYPE	THICK. (INCH)	AREA (SFT.)	NO. OF POSTS	POST TYPE	TOTAL (LFT.)
"PR-1"	19+00	RT	W1-2 L	CURVE LEFT	II	0.080	6.3	1	I	14
"PR-1"	25+60	RT	R1-1	STOP	II	0.080	6.3	1	I	14
"PR-1"	26+06	--	W1-7	LARGE ARROW - 2 DIRECTION	II	0.080	8.0	2	I	28
TOTALS					II	0.080	20.6	4	I	56

Note:
Sign locations and post lengths are approximate. Exact locations and lengths to be determined in the field in accordance with the Indiana Manual on Uniform Traffic Control Devices.

STRUCTURE DATA																												
STRUCTURE NUMBER	LOCATION				SIZE	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	FLOWLINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	PAVEMENT REPLACEMENT, HMA	PIPE END SECTION	REVTMENT RIPRAP	GEOTEXTILE	GRATED BOX END SECTION		SAFETY METAL END SECTION		RIMELEVATION	CONNECT TO STRUCTURE	REMARKS
	STATION	LEFT	RIGHT	CROSS						COVER	UP STREAM	DOWN STREAM										TYPE	EA.	SLOPE	EA.			
					IN.			FEET		FEET	ELEV.	ELEV.	YEAR				CYS.	TONS	EA.	TONS	SYS.							
10	23+47 "PR-1"			X	6		END BENT DRAIN PIPE	45.0	25																			LOCATED BEHIND BENT NO. 1
11	24+79 "PR-1"			X	6		END BENT DRAIN PIPE	45.0	25																			LOCATED BEHIND BENT NO. 4

ROAD SUMMARY

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE As Noted		BRIDGE FILE RUSH 1	
	DESIGNED: _____ M. MATEL _____ DRAWN: _____ K. COFFMAN _____		VERTICAL SCALE N/A	DESIGNATION 1802929		
			CHECKED: _____ Q. O'BRIEN _____ CHECKED: _____ M. MATEL _____	SURVEY BOOK ELECTRONIC	12	OF 18
				CONTRACT B-43590		
		ROAD SUMMARY				

