FHWA-Indiana Environmental Document CATEGORICAL EXCLUSION / ENVIRONMENTAL ASSESSMENT FORM GENERAL PROJECT INFORMATION

Road	No./County:	County Road	(CR) 1050 South/Waba	sh County	
Desig	nation Number(s):	2003065			
Projec Descr	ct ription/Termini:	Creek (Nation		I) No. 8500465).	CR 1050 South over Grant /Approximately 375 feet west
X	Categorical Exclusion	, Level 2 – Req	uired Signatories: INDC	OT DE and/or IN	DOT ESD
	Categorical Exclusion	, Level 3 – Req	uired Signatories: INDC	OT ESD	
	Categorical Exclusion	, Level 4 – Req	uired Signatories: INDC	OT ESD and FH	WA
	Environmental Assess	sment (EA) – R	equired Signatories: INI	DOT ESD and F	HWA
					e from the original approved nvironmental approval authority
Appro	val				
	INDO	TDE Signature ar	nd Date	INDOT	ESD Signature and Date
	FHV	VA Signature and	Date		10.10
Release for Public Involvement		nent	N/A	<i></i>	February 8, 2024
			INDOT DE Initials and	Date	INDOT ESD Initials and Date
Certifi	cation of Public Invol	vement			
			INDOT C	onsultant Services	s Signature and Date
INDOT DE/ESD Reviewer Signature and Date:					

Elizabet Biggio, Butler, Fairman, & Seufert, Inc.

Name and Organization of CE/EA Preparer:

County	Wabash		Route	CR 1050 South	Des	. No	2003065	
	er to the most on of this form.	current INDOT CE M	lanual, guida	nce language, and oth	er ESD resource	s for furth	er guidance regarding	í
		<u> </u>	Part I – F	Public Involve	<u>ement</u>			
				ent, providing for early nent should be comm				
If N	lo, then:	have a historic bridg · a Public Hearing Re		under the Historic Bric		es [No X	
	earing is require PO, and the AC		lges process	ed under the Historic E	Bridges Programr	natic Agr	eement between INDC)T,
				ters to affected proper c.) have occurred for t		sidents (i.e. notice of entry),	
about the	project and the	ere mailed to poten at individuals respon is included in Appen	sible for land	d property owners nead surveying and field a	ar the project are activities may be	a on Ap seen in t	ril 13, 2022, notifying he area. A sample co	them py of
Developme comments	ent Public Invo and/or reques	olvement Procedures at a public hearing. T	s <i>Manual</i> whi herefore, a l	ch requires the projec	t sponsor to offe r in a local public	the pub ation con	sportation (INDOT) Prilic an opportunity to su tingent upon the releatents are fulfilled.	ubmit
	olic controversy	y on Environm			ts, including what	is being	done during the projec	t to
At this time	e, there is no s	ubstantial public con	troversy con	cerning impacts to the	community or to	natural r	esources.	
This is	page 2 of 25	Project name:	Wabash Co	. Bridge 143		_ Date:	February 7, 2024	

County	Wabash	Route	CR 1050 South	Des. No.	2003065
Part	t II - General Pr	oject Identific	ation, Descript	ion, and Desig	n Informatio

Sponsor of the Project:	Wabash County	INDOT District:	Fort Wayne
Local Name of the Facility:	Wabash Co. Bridge No. 143		
Funding Source (mark all that	apply): Federal X State Local X	Other*	
*If other is selected, please id	entify the funding source:		

PURPOSE AND NEED:

The need should describe the specific transportation problem or deficiency that the project will address. The purpose should describe the goal or objective of the project. The solution to the traffic problem should NOT be discussed in this section.

Need:

The need for the project is evidenced by the deteriorated condition of Wabash Co. Bridge No. 143 and the limited vehicular crossings of Grant Creek in the vicinity. Wabash Co. Bridge No. 143 provides the only access to properties on the 1.92-mile section of CR 1050 South west of Grant Creek.

The existing bridge is below the base flood elevation of the Mississinewa Reservoir, located approximately 3 miles downstream, resulting in overtopping of the bridge. In 2015 flooding along Grant Creek caused by the operation of the Mississinewa Reservoir led to a failure of Wabash County Bridge No. 144, the former western bridge access to the area, which also crossed Grant Creek approximately 2.5 miles downstream of Wabash Co. Bridge No. 143. Wabash County Bridge No. 144 has not been repaired.

The National Bridge Inventory (NBI) rating system uses a rating scale of 0 to 9. Bridge inspectors give a rating to each major bridge element. A general description of these condition ratings* is shown below:

Rating Code	Condition Description	Description
N	Not Applicable	Component does not exist.
9	Excellent	Isolated inherent defects.
8	Very Good	Some inherent defects.
7	Good	Some minor defects.
6	Satisfactory	Widespread minor or isolated moderate defects.
5	Fair	Some moderate defects; strength and performance of the component are not affected.
4	Poor	Widespread moderate or isolated major defects; strength and/or performance of the component is affected.
3	Serious	Major defects; strength and/or performance of the component is seriously affected. Condition typically necessitates more frequent monitoring, load restrictions, and/or corrective actions.
2	Critical	Major defects: component is severely compromised. Condition typically necessitates frequent monitoring, significant load restrictions, and/or corrective actions in order to keep the bridge open.
1	Imminent Failure	The bridge is closed to traffic due to component condition. Repair or rehabilitation may return the bridge to service.
0	Failed	The bridge is closed due to component condition and is beyond corrective action. Replacement is required to restore service.

^{*}From the Federal Highway Administration, Bridge Inspector's Reference Manual, March 2022, page 240

The substructure of Wabash Co. Bridge No. 143 was given a condition rating of 4 (out of 9), or "poor", in the May 17, 2022, Bridge Inspection Report, and is experiencing advanced deterioration. The deck, wearing surface, and superstructure were given ratings of 5 (out of 9), or "fair". The bank has heavy erosion (Appendix I, I8-I13). The bridge is experiencing transverse and longitudinal cracking on the wearing surface, beams, and piers.

This is page 3 of 25	Project name:	Wabash Co. Bridge 143	Date:	February 7, 2024

County	Wabash		Route	CR 105	O South	Des. No	2003065		
Creek with Reservoir.	Purpose: The purpose of the project is to address the condition of Wabash Co. Bridge No. 143 and to provide an improved crossing of Grant Creek with an overall condition of "good", or at least a 7 (out of 9) which will not be overtopped by operations of the Mississenewa Reservoir. Furthermore, the purpose is to provide an improved crossing that will perpetuate emergency access to the 1.92-mile section of CR 1050 South.								
PROJEC	T DESCRIPTION	N (PREFER	RED ALTERN	ATIVE):					
County:	Wabash		Mun	icipality:	Wabash Co.				
Limits of P	roposed Work:	Approximate	ely 375 feet wes	st and 625	feet east of the center	point of Wa	bash Co. Brid	lge No. 143	
Total Work	Length:	0.19	Mile(s)		Total Work Area:	2.50	Acre(s)		
If y	ceptability?	HWA provide	e a Determination	n of Engin	eering and Operationa		Yes¹ Date:	No X equest for	
current defic	ciencies, roadway	description, s	surrounding feat	ures, etc. I	ads, etc. Existing cond Preferred alternative sh I termini and independ	ould include	the scope o	f work, anticipated	
	ash County Board nt of Wabash Co.				Highway Administrat	ion (FHWA) intend to p	proceed with the	
in Liberty		USGS La Fo			ek. It is located in Sec roject is approximatel				
Wabash C approxima is on a 30-	Existing Conditions: Wabash Co. Bridge No. 143 is a three-span precast concrete channel beam bridge constructed around 1960. The bridge is approximately 67.5 feet long with a clear roadway width of 24.6 feet. It carries two 11.5-foot lanes of traffic with 1-foot shoulders and is on a 30-degree left skew. The deck is paved in asphalt, approximately 2 inches thick. The bridge has a steel w-beam railing and 40 to 60 feet of approach guardrail in each guadrant.								
is forested of CR 105	CR 1050 South is a two lane east-west Rural Local Road with a clear roadway width of approximately 20 feet. Land use in the area is forested, residential, and agricultural. Wabash Co. Bridge No. 143 provides the only access to properties on the 1.92-mile section of CR 1050 South west of Grant Creek. The former western bridge access to the area, on CR 50 East over Grant Creek approximately 2.5 miles downriver of Wabash Co. Bridge No. 143, washed out in 2015 and has not been repaired.							1.92-mile section	
deck has between the spalls on the spalls on the spalls of	peen patched num ne beams has led	erous times. to efflorescer at Pier 2. Tl	There is also s nce. Both end be here is minor e	palling and ents have	udinal cracking on the d exposed reinforceme been underpinned with I silt buildup in the ea	ent on the un	nderside of the	ne deck. Seepage s. There are large	
during floo	d events. The Wa	ıbash Co. Bri	idge No. 143 el	evation is	lower than the base approximately 777.5 for 050 South approximately	eet, while th	e spillway of	the Mississinewa	

Date: February 7, 2024

Wabash Co. Bridge 143

This is page 4 of 25 Project name:

County	Wabash	Route	CR 1050 South	Des. No.	2003065

Preferred Alternative:

The preferred alternative is the replacement of Wabash Co. Bridge No. 143 on the same horizontal alignment. The new bridge will be a single span, concrete structure, 92.33 feet long. The out-to-out coping width will be 44.25 feet in order to accommodate phased construction (see below). The bridge will carry two 12-foot lanes of traffic with 8.63-foot shoulders (Appendix B, B23-B25). The bridge and approach roadway will be elevated to a maximum of 7.25 feet compared to the existing facilities to raise them above the base floodplain elevation.

Approximately 100 linear feet of riprap will be installed along each spill slope to a depth of 1.5 feet. Temporary wire walls will be installed in all quadrants, extending approximately 100 feet west of the bridge and 185 feet east of the bridge, to allow for maintenance of traffic for phased construction (Appendix B, B21-B22). Temporary wire walls consist of welded wire grid or metallic strip reinforcement connected to welded wire facing and may include soil reinforcement mats and/or filter fabric.

Approximately 105 feet of approach guardrail will be placed in each quadrant along CR 1050 South. CR 1050 South will retain its straight east-west horizontal alignment and the lanes widths will not change. A 2-foot-wide aggregate shoulder will be added to both sides of the approaches within the project area.

The total project length will be 0.19 mile. Approximately 1.88 acres of permanent and 0.59 acre of temporary right-of-way (ROW) acquisition will be required. The maximum depth of excavation for the installation of the new bridge, channel clearing, and benching will be approximately 6 feet. Impacts on other resources are discussed in the following sections. Maintenance of traffic (MOT) will require phased construction since Wabash Co. Bridge No. 143 provides the only access to the area west of Grant Creek. The bridge will be constructed one side at a time using an approximately 24-foot-wide causeway and temporary road widening (Appendix B, B12-B16; see MOT section below). Construction is anticipated to begin in the Fall of 2025.

The preferred alternative will meet the project purpose and need by providing Wabash County with a bridge crossing that can maintain access regardless of operations at the Mississinewa Reservoir. The new bridge crossing will have condition ratings greater than 7 (out of 9).

Logical Termini/Independent Utility:

The logical termini are approximately 375 feet west and 625 feet east of the center point of Wabash Co. Bridge No. 143, which compose the approaches to the bridge and are consistent with a bridge replacement project, including the bridge itself with minimal roadway approach work to create a smooth transition between the new bridge and the existing roadway approaches. The project will have independent utility because it will fulfill the purpose of the project to provide an improved crossing of Grant Creek without relying on additional projects.

OTHER ALTERNATIVES CONSIDERED:

Provide a header for each alternative. Describe all discarded alternatives, including the No Build Alternative. Explain why each discarded alternative was not selected. Make sure to state how each alternative meets or does not meet the Purpose and Need and why.

No Build

The No Build Alternative proposes no construction, leaving all elements of Wabash Co. Bridge No. 143 in their current state. No federal funds would be expended. This alternative would result in no environmental impacts. However, this alternative does not meet the project's stated purpose and need. This alternative would allow the condition of the bridge to continue to deteriorate. If no action is taken, weight restrictions and ultimately bridge closure will be necessary within approximately 10-15 years due to the poor condition of the substructure and repeated overloading and undermining of the foundation caused by scour. As a result, no stream crossing would be provided, and access to properties west of Grant Creek would be cut off. Therefore, the No Build Alternative was not considered prudent and was dismissed from further consideration.

Rehabilitation

The Rehabilitation Alternative proposes to repair the bridge by patching spalls in the pier columns and installing a crash tested bridge railing and approach railing. Debris would be removed from the channel. The deck would be milled and overlayed. This alternative would not raise the bridge higher than the base flood elevation. Therefore, the Rehabilitation Alternative would not meet the purpose and need of the project and was dismissed from further consideration.

This is page 5 of 25	Project name:	Wabash Co. Bridge 143	Date:	February 7, 2024	

County	Wabash		Route CR	1050 South	-	Des. No.	2003065		
ap It v It v It v It v	The No Build Alternative is not feasible, prudent, or practicable because (Mark all that apply): It would not correct existing capacity deficiencies; It would not correct existing safety hazards; It would not correct the existing roadway geometric deficiencies; It would not correct existing deteriorated conditions and maintenance problems; or It would result in serious impacts to the motoring public and general welfare of the economy. Other (Describe): Would not meet Purpose & Need								
ROADW	AY CHARACTER:								
If the propo	sed action includes m	ultiple roadways	complete and c	duplicate for eac	ch roadway	/.			
Name of F	Roadway I Classification:	County Road 1	050 South						
Current Al		220	VPD (2022)	Design Year A	NDT:	220	VPD (2045)		
	our Volume (DHV):		ck Percentage (-			V. B (2010)		
	Speed (mph):		al Speed (mph)		osted)				
Č	-								
ENI		Existing		Propose		1			
	imber of Lanes:		<u>2</u>		2	L			
	pe of Lanes: vement Width:	20	Through ft.	20	Through	n			
	oulder Width:	20	ft.	20	ft.				
	edian Width:	N/A	ft.	N/A	ft.				
	dewalk Width:	N/A	ft.	N/A	ft.				
	aorrain Triain	1471	_	1471					
Se	etting:	Urban		Suburban		X Rural			
To	pography:	X Level		Rolling		Hilly			
		<u></u>	<u> </u>						
BRIDGES	S AND/OR SMALL	STRUCTURE	S):						
			-	dunlingto for on	م ما ما ما ما		waters leadered bath		
	sed action includes m d proposed bridge(s) a				on briage a	and/or small str	ucture. Include both		
existing and	i proposed bridge(s) a	and/or sman struc	iuie(s) iii iiiis se	schon.					
Structure/I	NBI Number(s):	85-00143 / 8500	465	Sufficie	ncy Rating	g: 63.9 (202	22 Bridge Inspection Report)		
	., _				, ,		Source of Information)		
							·		
		Existing		Proposed					
	idge/Structure Type:	Concret	e Channel Bean	n Prestresse	ed Concret	te Bulb Tee			
	imber of Spans:	21/2	3	21/2	1				
	eight Restrictions:	N/A	ton	N/A	ton				
	eight Restrictions:	N/A	ft.	N/A	ft.				
	urb to Curb Width: utside to Outside Widt	24.6 h: 26.6	ft. ft.	41.25 44.25	ft. ft.				
	noulder Width:	1.0	ft.	8.63	ft.				
311	IOGIGET VIGUT.	1 1.0	16.	0.00	11.				
Describe im	pacts and work involv	ving bridge(s), cu	lvert(s), pipe(s).	and small struc	cture(s). Pr	ovide details fo	or small structure(s):		
							small structures becomes		

Wabash Co. Bridge No. 143 is a c. 1960 three-span concrete channel beam bridge. The bridge was determined not eligible for the National Register of Historic Places in the Indiana Historic Bridge Inventory. The bridge is 67.5 feet long with a clear roadway width

large. If the table exceeds a complete page, put it in the appendix and summarize the information below with a citation to the table.

This is page 6 of 25

Project name:

County	Wabash	Route	CR 1050 South	Des. No.	2003065
will be repl long. The o	t. It carries two 11.5-foot lanes of trafaced on the same horizontal alignmout-to-out coping will be 44.25 feet in the 8.63-foot shoulders. Approximately	ent and a	raised vertical alignment. Thaccommodate phased const	ne new bridge will truction. The bridge	be a single-span, 92.33 feet e will carry two 12-foot lanes
There is a place.	driveway culvert south of CR 1050	South app	proximately 385 feet west of	of the bridge. No v	work on this culvert will take
No other bi	idges or small structures are presen	t within the	project area.		
MAINTEN	ANCE OF TRAFFIC (MOT) DUF	RING CON	NSTRUCTION:		
WAINTEN	ANCE OF TRAFFIC (MOT) BOIL	KING COI	431KUCTION.		
Is a Will Will Will Is th Will Discuss closs	temporary bridge proposed? temporary roadway proposed? the project involve the use of a deto Provisions will be made for access by Provisions will be made to accommo the proposed MOT substantially chancer substantial controversy associate the project require a sidewalk, curb Provisions will be made for access by Provisions will be made to accommon the proposed made for access by Provisions will be made to accommon the proposed made for access by Provisions will be	y local traffic depedate any local traffic depedate any local dependence of the depe	fic and so posted. Indent businesses. Indent busine	of the action? ? scribe below) osted (describe be of traffic. Any kno	wn impacts from these th as Section 4(f) resources
area, and \constructed	or the project will require three phas Vabash Co. Bridge No. 143 provided done side at a time, using a causew as along CR 1050 on the west side of	s the only ay for con	access to the properties we struction access and tempo	st of Grant Creek.	Therefore, the bridge will be
wide tempor 2 will main bridge and the north steach end of constructed.	ill maintain one lane of two-way trafforary hot mix asphalt (HMA) paveme tain one lane of two-way traffic on approach roadway is constructed. Pide of the new bridge and approach of the project will be used to allow for das part of Phase 2 to allow for the res/lane restrictions will pose a tempowever, no significant delays are an	ent and a te the tempo Phase 3 will n roadway r two-way oadway ele porary inco	emporary causeway is instally array HMA pavement and exit maintain one lane of two-wis constructed (Appendix B, traffic through a single lane evation to be raised. Access	led on the north sincisting bridge while vay traffic on the new B12-B16). Fixed in the work zone, to all properties worksts (including se	de of CR 1050 South. Phase e the south side of the new ew roadway and bridge while temporary signals located at A temporary wire wall will be ill be maintained at all times.
ESTIMAT	ED PROJECT COST AND SCHI	EDULE:			
Engineerin Anticipated	g: \$ 165,000 (FY 2022) Right Start Date of Construction: Fall 2	nt-of-Way: 2025	\$ 100,000 (FY 2024)	Construction:	\$ <u>1,894,000</u> (FY 2026)
This is	page 7 of 25 Project name: W	Vahash Ca	Rridge 143	Date	· Fobruary 7 2024

County	Wabash	Route	CR 1050 South	Des. No.	2003065
RIGHT O	F WAY:				

	Amount (acres)				
Land Use Impacts	Permanent	Temporary			
Residential	0.00	0.00			
Commercial	0.00	0.00			
Agricultural	0.87	0.30			
Forest	1.01	0.29			
Wetlands	0.00	0.00			
Other:					
Other:					
TOTAL	1.88	0.59			

Describe both Permanent and Temporary right-of-way and describe their current use. Typical and Maximum right-of-way widths (existing and proposed) should also be discussed. Any advance acquisition, reacquisition, or easements, either known or suspected, and their impacts on the environmental analysis should be discussed.

The existing typical and maximum ROW on CR 1050 South is approximately 20 feet wide, 10 feet either side of the centerline. The proposed typical ROW is approximately 70 feet, 35 feet either side of the centerline. The proposed maximum ROW is approximately 160 feet, 90 feet north and 70 feet south of the centerline.

The project will require approximately 1.88 acres of permanent ROW acquisition along CR 1050 South, including approximately 0.87 acre of forested land and 1.01 acres of agricultural property. Approximately 0.56 acre of ROW will be from the northeast quadrant, 0.36 acre from the northwest quadrant, 0.37 acre from the southwest quadrant, and 0.59 acre from the southeast quadrant. The project also requires approximately 0.59 acre of temporary ROW, consisting of approximately 0.30 acre of forested land and 0.29 acre of agricultural property. ROW is needed to facilitate the widened bridge and for construction access.

If the scope of work or permanent or temporary ROW amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately.

This is page 8 of 25 Project name: Wabash Co. Bridge 143 Date: February 7, 2024

County	Wabash	Route	CR 1050 South	Des. No.	2003065	
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Part III - Identification and Evaluation of Impacts of the Proposed Action

SECTION A - EARLY COORDINATION:

List the date(s) coordination was sent and all resource agencies that were contacted as a part of the development of this Environmental Study. Also, include the date of their response or indicate that no response was received.

Early coordination letters were sent on April 10, 2023 (Appendix C, C1-C2)

<u>Agency</u>	Date Sent	Date Response Received	<u>Appendix</u>
Federal Highway Administration	April 10, 2023	No Response	N/A
INDOT-Fort Wayne District	April 10, 2023	No Response	N/A
Indiana Department of Natural Resources (IDNR)	April 10, 2023	May 10, 2023	C7-C9
IDNR Oil & Gas Division	April 10, 2023	No Response	N/A
U.S. Department of Housing and Urban Development	April 10, 2023	No Response	N/A
U.S. Fish and Wildlife Service (USFWS)	April 10, 2023	April 24, 2023	C6
Indiana Geological and Water Survey	April 10, 2023	April 10, 2023	C3-C5
Indiana Department of Environmental Management (IDEM)	April 10, 2023	No Response	N/A
National Park Service	April 10, 2023	No Response	N/A
USDA-Natural Resources Conservation Service	April 10, 2023	May 31, 2023	C10-C11
U.S. Army Corps of Engineers-Louisville District	April 10, 2023	No Response	N/A
Wabash County Surveyor	April 10, 2023	No Response	N/A
Wabash County Council	April 10, 2023	No Response	N/A
Wabash County Emergency Management Agency	April 10, 2023	No Response	N/A
Wabash County Floodplain Administrator	April 10, 2023	No Response	N/A

All applicable recommendations are included in the Environmental Commitments section of this CE document.

This is page 9 of 25 Project name: Wabash Co. Bridge 143 Date: February 7, 2024

County	Wabas	sh	Route	CR 1050 Sou	<u>ith</u> De	es. No.	2003065	
SECTION	N B – E0	COLOGICAL RE	SOURCES:					
Sti			ses & Other Juris	dictional Featur	Presence es X	<u>e</u>	Impa Yes	cts No
	State Na Nationw Outstand	Wild and Scenic Ratural, Scenic or Roide Rivers Inventoding Rivers List for Waterways	ecreational Rivers ry (NRI) listed					
Total strea	am(s) in p	project area:	420 Lir	near feet Tota	impacted stream(s):		400	Linear feet
Stream I	Name	Classification	Total Size in	Impacted	Comments (i.e. loca		direction, I	ikely Water of the

Grant Creek	Perennial	1/0	150	Appendix F.
UNT to Grant Creek	Ephemeral (not mapped)	250	250	Flows east; see Waters of the U.S. Determination in Appendix F.
Describe all streams	, rivers, watercour	ses, and other juris	sdictional features	adjacent or within the project area. Include whether or not

Flows northwest; see Waters of the U.S. Determination in

(linear feet)

Describe all streams, rivers, watercourses, and other jurisdictional features adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if the streams or rivers are listed on any federal or state lists for Indiana. Include if features are likely subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

Based on the desktop review, the aerial map of the project area, and the red flag investigation (RFI) report (Appendix E, E1-E8), there are 11 streams, rivers, watercourse, or other jurisdictional features within the 0.5-mile search radius. There are two streams within the project area. That number was confirmed by a site visit on April 19, 2023 by Butler, Fairman, & Seufert, Inc. (BF&S).

There are no Federal, Wild and Scenic Rivers; State Natural, Scenic, and Recreational Rivers; Outstanding Rivers for Indiana; navigable waterways or National Rivers Inventory waterways present in the project area. Therefore, no impacts are expected.

A Waters of the U.S. Determination / Wetland Delineation Report was completed for the project on May 1, 2023. Please refer to Appendix F for the Waters of the U.S. Determination / Wetland Delineation Report. It was determined that there are two likely Waters of the U.S. within the project area. The U.S. Army Corps of Engineers (USACE) makes all final determinations regarding jurisdiction.

Grant Creek is a perennial stream that flows northwest across the project area. It is of poor quality due to a lack of an intact riparian corridor, moderate sinuosity, and extreme bank erosion. Additionally, the stream channel is entrenched. Grant Creek has an ordinary high-water mark (OHWM) width of approximately 18 feet and an OHWM depth of 1.5 feet. Approximately 100 feet of Grant Creek will be permanently impacted by the installation of riprap along the length of the proposed riprap toe. Approximately 50 linear feet (LFT) of temporary impacts are anticipated due to the causeway and dewatering. All areas impacted from temporary measures will be returned to their original condition before construction is complete.

An Unnamed Tributary (UNT) to Grant Creek is an unmapped stream beginning approximately 700 feet southwest of Wabash Co. Bridge No. 143 and flowing northeast to CR 1050 South and then east to discharge into Grant Creek. It is of poor quality due to heavy entrenchment. UNT to Grant Creek has an OHWM width of approximately 2.5 feet and an OHWM depth of 5 inches. Due to the low flowline, UNT to Grant Creek will be raised to prevent ponding and maintain drainage between the drive culvert located approximately 385 feet west of Grant Creek and Grant Creek. Approximately 250 linear feet of permanent impacts are anticipated (Appendix B, B17). No temporary impacts are expected.

Total permanent stream impacts include 150 linear feet to Grant Creek and 250 linear feet to UNT to Grant Creek. No temporary impacts are anticipated. These impacts will require permits from the USACE and IDEM. As a result, mitigation will likely be required, but will be determined during the permitting process.

This is page 10 of 25 Project name: Wabash Co. Bridge 143 Date: February 7, 2024

County	Wabash	Route	CR 1050 South	Des. No	o. <u>2003065</u>
	made recommendations to				to early coordination on May 10 izing impacts to riparian habita
proposed p Service Int	project will have minor impac	ts on natural resou	ırces (Appendix C, 0	C6). This project will no	would be provided because the t meet the <i>U.S. Fish and Wildlife</i> 2013 because it will impact more
All applicat	ole recommendations are inc	cluded in the Enviro	onmental Commitme	ents section of this CE d	locument.
			D.	resence Imp	acts
Ор	en Water Feature(s)		<u> </u>	Yes	No
-	Reservoirs				
	Lakes				
	Farm Ponds				
	Retention/Detention Basin				
	Storm Water Management F	acilities			
	Other:				
					impacts (both permanent and urisdiction. Discuss measures to
	nize, and mitigate if impacts v			,	
features wi		ius. There are no d	pen water features		-E8), there are three open water . That number was confirmed by

Date: February 7, 2024

This is page 11 of 25 Project name: Wabash Co. Bridge 143

County	Waba	sh	R	oute C	R 1050 S	outh	Des.	No2	2003065	<u> </u>	
						D			lmmaat		
						<u> </u>	<u>esence</u>	Yes	Impact	No	
We	etlands										
Total wetla	and area	:	N/A	_ Acre(s)	Total	wetland area imp	pacted:	N	I/A	Acre	(s)
(If a detern	mination	has not been ma	ade for non-isola	ited/isolate	ed wetland	ls, fill in the total	l wetland are	ea impac	ted abov	/e.)	
Wetland	No.	Classification	Total Size (Acres)	Impacte	ed Acres	Comments (i.e reference)	e. location, li	ikely Wa	ter of the	US, app	pendix
N/A											
	l.			•		•					
Wa	atlands	(Mark all that ap	nlıλ	<u>D</u>	ocument	ation	<u>_E</u>	SD App	roval Da	<u>ites</u>	
***		Determination	ρι y)		Х]	N/A, L	PA Proje	ect		1
		Delineation]
	USACE	Isolated Waters	Determination]
Ima	m # 0 \ / 0 m	anta that will no	at recult in any	wetlend i	mnosto o	ra nat nraatiaah	مام مام	augh a	valdana		
			ot result in any nat apply and ex		iipacis ai	e not practicat	Die Decause	s Sucii a	voluaric		
			pacts to adjacer	nt homes,	business,	or other improve	ed properties	s;			
		antially increased e engineering, tra	a project costs; affic, maintenand	ce. or safe	tv problem	ns:					
	Substa	antial adverse so	cial, economic,	or environ							
	The pr	oject not meetin	g the identified n	ieeds.							
will occur to	the feat		cent or within the nclude if feature Il occur.								
						the DEL second /	/ A == = = = = = = = = = = = = = = = = =	· [4 [0)	41		
within the	0.5-mile	search radius. 7	aerial map of th Two wetlands ard Vetland Scientist	e located v	within the	project area. No	wetlands w	vere ider			
						Presence		Impacts	<u> </u>		
Ta		Habitat					Ye	sl	NO		
ıe	rrestriai	Habitat				X	Х				
Total terre	strial hal	oitat in project ar	ea: <u>2.</u>	07	_ Acre(s)	Total tree	clearing: _		0.90		_ Acre(s)
or not impac	cts will o	ccur to habitat id	(i.e. forested, gra dentified. Include iitigate if impacts	total terre	strial habi						
Based on	a deskto	n review a site	visit on April 19,	2023 by F	RESS and	the aerial man	of the projec	rt area (Annandiy	v B B3)	there are
			he project area:					ot area (7	тррепал	(D, DO),	there are
forested, to	errestria uring con	l, agricultural lan	arily agricultural ad will be impacte nting indirect im	ed by the b	oridge rep	lacement and M	IOT. Tempo	rary wire	walls w	vill be use	ed to limit
This is	page 12	of 25 Proiect	t name: Wab	ash Co. B	ridge 143			Date:	Februa	ary 7, 202	24

County	Wabash	Route	CR 1050 South	Des. No.	2003065		
mitigation (Acer sacci because a north side The IDNR-impacts to	will likely be required, but will charum), northern hackberry of the bridge of the bridge, where less clear. -DFW responded to early cootterrestrial habitats (Appendix	Il be determined d (Celtis occidentalis ge contain tree covering will be require ordination on May C, C7-C9).	00 feet of the roadway for construring the permitting process. The s), and black walnut (<i>Juglans nigver</i> . Tree clearing will be minimid. Mitigation is not anticipated.	e dominant togra). Avoidand sed by consti	ree species are sugar maple be of impacts is not practical ructing the causeway on the avoid, minimize, and mitigate		
Fed	otected Species derally Listed Bats Information for Planning and Section 7 informal consultation Section 7 formal consultation	on completed (IPaC		Yes	No X X		
De	termination Received for Liste	ed Bats from USFV	VS: NE N	LAA X	LAA		
	her Species not included in Additional federal species found State species (not bird) found	und in project area	(based on IPaC species list) ased upon consultation with IDN	Yes	No X X		
	gratory Birds Known usage or presence of State bird species based upo		n IDNR	Yes	No X X		
bat and nort	thern long-eared bat impacts.	Discuss if other fe	USFWS Section 7 consultation of derally listed species were identiful if migratory birds have been obse	fied. If so, inc	lude consultation that has		
County En response I have been	Based on a desktop review and the RFI report (Appendix E, E1-E8) completed by BF&S on December 30, 2022 the IDNR Wabash County Endangered, Threatened, and Rare (ETR) Species List has been checked. According to the IDNR-DFW early coordination response letter dated May 10, 2023 (Appendix C, C7), the Natural Heritage Program's Database has been checked and no species have been documented within 0.5 mile of the project area. An INDOT 0.5-mile bat review occurred on May 24, 2022, and did not indicate the presence of endangered bat species.						
Indiana Bat and Northern Long-Eared Bat Project information was submitted through the USFWS's Information for Planning and Consultation (IPaC) portal, and an official species list was generated (Appendix C, C12-C19). The project is within range of the federally endangered Indiana bat (Myotis sodalis) and northern long-eared bat (NLEB) (Myotis septentrionalis). Two other species, the monarch butterfly (Danaus plexippus), which is listed as a candidate species, and the Tricolored bat (TCB) (Perimyotis subflavus), which is listed as proposed endangered, were generated in the IPaC species list along with the Indiana bat and NLEB.							
February 2	2018), between FHWA, Fed	eral Railroad Adm	ormal Consultation for the Indian ninistration (FRA), Federal Tran o evidence of bats was observed	sit Administra	ation (FTA), and USFWS. A		
Likely to A finding on review per workers, li	Adversely Affect (NLAA)" the June 16, 2023, and requeste riod; therefore, it was conclude	Indiana bat and th d USFWS's review ded they concur w	2023, and based on the response NLEB (Appendix C, C20-C32 or of the finding. No response wavith the finding. Avoidance and emporary lighting are included a). INDOT revise received from Minimization	iewed and verified the effect m USFWS within the 14-day Measures (AMMs) to inform		

This is page 13 of 25 Project name: Wabash Co. Bridge 143

Date: February 7, 2024

County Wabash	Route	CR 1050 South	_ Des. No	
Wabash County Bridge 143 and the the Migratory Bird Treaty Act (MBT of birds. If birds or signs of birds are the start of and during the nesting nesting season (September 8 – Approximately cannot be removed or disturbed dubuffered from active construction. USP/RSP.	A). Prior to the start of e found during the insp season. Nests withou oril 30) and during the uring the nesting seaso	inesting season (May ection avoidance and it eggs or young sho nesting season if no e n (May 1 – Septembe	(1) the structure must minimization measure uld be removed prior teggs or young are present. (7) Nests with eggs or	be inspected for birds or signs s must be implemented prior to to construction during the non- sent. Nests with eggs or young or young should be screened or
The official species list generated the TCB. The bridge replacement recommends that the effects of pro as regulations would take effect wit been developed, the USFWS Indianand/or NLEB would not rise to the lipeopardy to the TCB is not anticipated.	project is not anticipate jects on TCBs and the thin 30 days of publicate na Field Office recomme level of jeopardy for TC	ed to significantly imp ir habitat be analyzed ion of the final rule. Fo nends that any project	act the monarch butte pending the final deter urther, since guidance that does not result in	orfly or its habitat. The USFWS rmination of status for the TCB, specific to the TCB has not yet adverse impacts to Indiana bat
This precludes the need for further amended. If new information on encontacted for consultation. This precludes a transportation of Projects in Indiana of the Indiana of t	ndangered species at the oject will not meet the	he site becomes avail e <i>U.S. Fish and Wildl</i> i	able, or if project plan ife Service Interim Pol	s are changed, USFWS will be licy for the Review of Highway
Geological and Mineral Re Project located within the Karst features identified Oil/gas or exploration/ab	e Indiana Karst Region within or adjacent to th	e project area	Ye	s No X X X
Date Karst Evaluation revie	wed by INDOT EWPO	(if applicable):	N/A	
Discuss if project is located in the Inc Discuss response received from IGV if impacts will occur. Include discuss current Protection of Karst Features	VS coordination. Discusion of karst study/repoi	ss if any mines, oil/gas t was completed and	s, or exploration/aband results. (Karst investiga	loned wells were identified and attention must comply with the
Based on a desktop review and the outlined in the most current <i>Protect</i> the project area (Appendix B, B2) at the project area. In the early coord indicate that karst features exist in sand and gravel resources and a petroleum well is located approximation. No impacts to petrole project activities. The response from expected.	tion of Karst Features of and the RFI report (Applination response dated to the project area (Applination proderate liquification protested to the court of the c	during Project Developmendix E, E1-E8), there de April 10, 2023, the leader of the C3-C5). IGN potential. Petroleum e of the project area. Tated because they are	ment and Construction of are no karst features of and Geological and WS identified a high p exploration wells are lo of the IDNR Oil & Gas Di of outside the project a	n. According to the topo map of a identified within or adjacent to a Water Survey (IGWS) did not otential for bedrock as well as cated in the area. The nearest vision did not respond to early area and will be avoided by all

Date: February 7, 2024

This is page 14 of 25 Project name: Wabash Co. Bridge 143

County Wabash	Route	CR 1050 South	Des. No.	2003065
SECTION C - OTHER RESOURCE	ES .			
Drinking Water Resources Wellhead Protection Area(s) Source Water Protection Are Water Well(s) Urbanized Area Boundary Public Water System(s)		Pres	ence Imp	No X
Is the project located in the St. of If Yes, is the FHWA/EPA SS If Yes, is a Groundwater Ass Check the appropriate boxes and discuss coordination responses and any mitigation	A MOU Applicable? essment Required? s each topic below.	Provide details about		No X e resource-specific
The project is located in Wabash Coun designated sole source aquifer in the Understanding (MOU) is not applicable expected.	ty, which is not loca	ited within the area of a. Therefore, the F	the St. Joseph Sole So HWA/EPA Sole Source	e Aquifer Memorandum of
The IDEM Wellhead Proximity Determ 15, 2023 by BF&S. This project is not impacts are expected.	located within a Wo	ellhead Protection Are	ea and is not located w	ith a Source Water Area. No
The Indiana Department of Natural Reaccessed on March 15, 2023 by BF&S construction limits. Therefore, no imparbe affected, a cost to cure will likely be	 Two wells are loc cts are expected. 	ated near the project hould it be determine	area; however, they ard during the right-of-wa	e located outside the project
Based on a desktop review by BF&S or Area Boundary. No impacts are expected		the RFI report (Apper	ndix E, E1-E8), this proj	ect is not located in an Urban
Based on a desktop review, a site visit coordination, no public water systems v				(Appendix B, B3), and early
Floodplains Project located within a regu Longitudinal encroachment Transverse encroachment Homes located in floodplain If applicable, indicate the Floodplain	within 1000' up/dow	nstream from project	Ye X X	Impacts s No X X
Level 1 Level 2	Level 3	Level 4	4 X Level 5	
Use the IDNR Floodway Information Pon according to the classification system. If during design to insure consistency with	encroachment on a	flood plain will occur,		
Based on a desktop review of The IDNI (https://indnr.maps.arcgis.com/apps/we			3461983e196d56a213c	1e) by BF&S on May 11,
This is page 15 of 25 Project nam	ne: <u>Wabash Co.</u>	Bridge 143	Date	: February 7, 2024

		Indiana Depa	artment of Trai	nsportation		
County	Wabash	Route	CR 1050 South	Des. No.	2003065	
(Appendix	If the RFI report, this property that the RFI report, this property that the RFI respond within the RFI report, th	dination letter was ser	nt on April 10, 2023			
structures feet down expected values; th terminatio substantia	ct qualifies as a Catego on essentially the same stream of the bridge. The to substantially increase ere will be no substantin of emergency service al. A hydraulic design studies included with the Stage	e alignment. No homes e proposed structure wi e. As a result, there w al change in flood risk or emergency evacuat dy that addresses vario	are located within the last are located within the last are effective of the last are are located within the last	ne base floodplain within capacity such that backwadverse impacts on na no substantial increase , it has been determined	n 1,000 feet upstream vater surface elevation atural and beneficial in potential for inter d that this encroachm	n or 1,000 ns are not floodplain ruption or nent is not
Fa	rmland			<u>Presence</u>	<u>Impacts</u> Yes No	
	Agricultural Lands	200)		X	Х	
	Prime Farmland (per NI Total Points (from Section Fig. 160 or greater, see CE M	n VII of CPA-106/AD-10	006*)141		Х	
Discuss exi considered	isting farmland resources	s in the project area, im	pacts that will occur	to farmland, and mitigati	on and minimization r	neasures
farmland a 2023, to the cause a c (Appendix Since this result from	the desktop review, the as defined by the Farmla he Natural Resources Conversion of prime farmla C, C11). NRCS's thres project score is less that this project. No alterng impacts to prime farm	and Protection Policy A conservation Services (Nand (Appendix C, C10) hold score for significal an the threshold, no s contines other than the	ct adjacent to the province of the NRCS report of t	oject. An early coordinatesponded on May 31, 2 NRCS resulted in a scornd that result in the consider, unique, statewide, or	tion letter was sent or 023, and stated the period of 141 on the AD 1 sideration of alternativer local important farrors.	n April 10, project will 006 Form ves is160. mland will

Version: December 2021

Date: February 7, 2024

This is page 16 of 25 Project name: Wabash Co. Bridge 143

County	Wabash	Route	CR 1050 S	outh	Des. N	No. 20	003065	
SECTION	I D – CULTURAL RESOURCES	3						
Mir	Category(ie nor Projects PA B-12	es) and Type	e(s)		INDOT Appr June 12, 202		ite(s) N//	A
	II 106 Effect Finding No Historic Properties Affected	No	Adverse Eff	ect	Adverse E	ffect		
	gible and/or Listed Resources Pr NRHP Building/Site/District(s)		chaeology		NRHP Brid	dge(s)		
	cumentation Prepared (mark all the APE, Eligibility and Effect Determine 800.11 Documentation Historic Properties Report or Short Archaeological Records Check and Archaeological Phase Is Survey Reachaeological Phase Is Sur	ation Report I Assessment	x	June 12	2, 2023		Approval Date(s)
	Memorandum of Agreement (MOA))		MOA Signat	ture Dates (Li	ist all sig	natories)	
full Section local newsp	t falls under the MPPA, describe the 106, use the headings provided. Th apers. Please indicate the publicati work which must be completed at a	e completion on date, nam	of the Section	on 106 process er(s) and the c	s requires that omment period	a Legal d deadlin	Notice be publis ne. Include any f	hed in
12 under t properties conducted Historic Pla (Appendix	2, 2023, the INDOT Cultural Resounce Minor Projects Programmatic A eligible for the National Register a desktop review of above-ground aces were identified (Appendix D, D, D7-D9). No archaeological sites	greement (A) of Historic II resources a D4-D5). An a were located	ppendix D, I Places are p and no prope Archaeologic d.	01-D6). Catego present within erties listed in cal Report was	ory B-12 cove or adjacent t or eligible for s completed o	rs bridge to the pr listing in n June 9	e replacements roject area. IND the National R 9, 2023, by Gra	where no OT-CRO egister of / & Pape
No further have been	consultation is required. This comp fulfilled.	letes the Se	ction 106 pro	cess and the	responsibilities	s of the F	-HWA under Se	ction 106

County	Wabash	Route CR	1050 South	Des. No.	2003065
SECTION	N E - SECTION 4(f) RESOURCES	S/ SECTION 6(f) RESOURCES		
Parks and Publicly Other (Wildlife an National State V State N Historic P	d Other Recreational Land y owned park y owned recreation area school, state/national forest, bikeway, nd Waterfowl Refuges al Wildlife Refuge al Natural Landmark Vildlife Area Jature Preserve	Present	Yes Use	No	
"De mir Individu Any ex	mmatic Section 4(f) nimis" Impact ual Section 4(f) ception included in 23 CFR 774.13 eggrammatic Section 4(f) and "de minin	Prepare	<u>d</u>	an balaw, Individus	al Section 4/f) documentation
must be inc FHWA has Section 4(Induded in the appendix and summarize identified various exceptions to the results of the U.S. Department of Transportation facilities unless there is	d below. Discuss quirement for Se ortation Act of 19	s proposed alternatives ction 4(f) approval. Ref	that satisfy the refer to 23 CFR § 77	equirements of Section 4(f). 74.13 - Exceptions. d historic lands for federally
parks, rec subject to Based on resource I Therefore,	reation areas, wildlife / waterfowl refuthis law are considered Section 4(f) rethe desktop review, the aerial map of located within the 0.5-mile search. Moreon to 4(f) resources, by BF&S, there are no potential	uges, and NRHP esources. f the project area lississinewa Lak irces. According	a, and the RFI report (A e is located approxima to additional research,	Appendix E, E1-E8 ately 0.30 mile no Section 106 cool	B), there is one potential 4(f) orthwest of the project area. rdination, and a site visit on
	ection 6(f) Involvement		Prese		<u>Use</u> Yes No
	ction 6(f) resources present or not pre liscuss the conversion approval.	sent. Discuss if a	any conversion would o	occur as a result of	f this project. If conversion
created to	Land and Water Conservation Fund preserve, develop, and assure acces chased with LWCF monies to a non-re	sibility to outdoo			
revealed e	of Section 6(f) properties on the on eight properties in Wabash County (A, there will be no impact to 6(f) resource.	Appendix I, I1). I			
This is	page 18 of 25 Project name: W	/abash Co. Bridg	ge 143	Date:	February 7, 2024

County _	Wabash	Route	CR 1050 South	Des. No.	2003065
SECTION	F – Air Quality				
Is th Is th Is th If Ye I:	P/TIP and Conformity Statuse project in the most current be project located in an MPO be project in an air quality notes, then: Is the project in the most current the project exempt from conformation from the most current the project exempt from the from the the project in the Transplant is a hot spot analysis requires.	STIP/TIP? Area? n-attainment or ma ent MPO TIP? nformity? portation Plan (TP		Yes No X X X X	
Loca	ation in STIP:			p. 264 (2024-2028 STIP)	
Nam	ne of MPO (if applicable):			N/A	
Loca	ation in TIP (if applicable):			N/A	
Leve	el of MSAT Analysis required	1?			
Leve	el 1a X Level 1b	Level 2	Level 3	Level 4 Level 5	5
located. Indic	e project is listed in the STIF ate whether the project is ex IP. Describe if a hot spot and	cempt from a confo	ormity determinati	on. If the project is not exen	ty(ies) where the project is npt, include information about
This project is included in the Fiscal Year (FY) 2024-2028 Statewide Transportation Improvement Program (STIP) (Appendix H, H1). The project is located in Wabash County, which is currently in attainment for all criteria pollutants according to IDEM's Current Nonattainment Areas map (https://www.in.gov/idem/sips/files/nonattainment areas map.pdf). Therefore, the conformity procedures of 40 CFR Part 93 do not apply. This project is of a type qualifying as a categorical exclusion (Group 1) under 23 CFR 771.117(c) or exempt under the Clean Air Act conformity rule under 40 CFR 93.126, and as such, a Mobile Source Air Toxics analysis is not required.					
SECTION	G - NOISE				
Noise Is a noise analysis required in accordance with FHWA regulations and INDOT's traffic noise policy? Date Noise Analysis was approved/technically sufficient by INDOT ESD:					
					ed to date and if noise impacts lude a statement of likelihood.
	is a Type III project. In acco			rrent <i>Indiana Department</i> o	Transportation Traffic Noise
This is p	page 19 of 25 Project nam	e: Wabash Co	o. Bridge 143	Dat	e: February 7, 2024

County	Wabash	Route	CR 1050 South	Des. No.	2003065	
SECTION	N H - COMMUNITY IM	PACTS				
Re	egional, Community & N	eighborhood Factors	i		Yes	No
Wi	ill the proposed action cor	nply with the local/regi	onal development patterns	for the area?	X	
Wi	III the proposed action res	ult in substantial impac	cts to community cohesion	?		Х
Wi	III the proposed action res	ult in substantial impac	cts to local tax base or pro	perty values?		Х
Wi	ill construction activities in	npact community even	ts (festivals, fairs, etc.)?			Х
Do	es the community have a	n approved transition	olan?		X	
	If No, are steps being m	ade to advance the co	mmunity's transition plan?			
Do	es the project comply with	h the transition plan? (explain in the discussion b	elow)	Х	

Discuss how the project complies with the area's local/regional development patterns; whether the project will impact community cohesion; and impact community events. Discuss how the project conforms with the ADA Transition Plan.

This project is not of regional significance and will not have a significant impact on community cohesion or property values. The Wabash County and Town of La Fontaine websites were reviewed on March 15, 2023 by BF&S and no community events were identified. The project is in a rural environment, and it is not anticipated the project will divide a community or impact any areas where the community hosts events.

It is not anticipated that the proposed project will result in substantial impacts to community cohesion, viewshed, property values, or community events. No increase in local taxes will occur as a result of this project, as all funds will come from the FHWA and established accounts (Appendix H, H1-H2). The project does not divide a community or impair any areas where the community hosts events. Access to all properties will be maintained.

Wabash County adopted an Americans with Disabilities (ADA) transition plan in 2013. There are no pedestrian facilities in the area and there are no proposed pedestrian facilities included in this project. Therefore, ADA compliance is not applicable to this project.

No response to early coordination was received from the Wabash County Council or the Wabash County Commissioners.

Based on the above investigations and coordination, no community or economic impacts are anticipated from this project.

Public Facilities and Services

Discuss what public facilities and services are present in the project area and impacts (such as MOT) that will occur to them. Include how the impacts have been minimized and what coordination has occurred. Some examples of public facilities and services include health facilities, educational facilities, public and private utilities, emergency services, religious institutions, airports, transportation or public pedestrian and bicycle facilities.

Based on a desktop review, and the RFI report (Appendix E, E1-E8), completed by BF&S on December 30, 2022, there are no public facilities within the 0.5-mile search radius. This number was confirmed by the site visit on April 19, 2023 by BF&S. There are no public facilities within or adjacent to the project area; therefore, no impacts are expected. Access to all properties will be maintained during construction.

Initial notices to utilities were sent on November 7, 2022. There are two utilities within the project area: overhead electric lines owned by Heartland Rural Electric Membership Cooperative (REMC) and underground communications owned by Brightspeed. Utility relocations are expected. Work plans are currently in development with these utility providers.

It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access.

	This is page 20 of 25 Project na	me: Wabash Co. Bridge 143	Date: Februa	ry 7, 2024
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County	Wabash	Route	CR 1050 South	Des. No.	2003065	
	During the deve Does the projec f YES, then: Are any E	Justice (EJ) (Presidential EO 1 lopment of the project were EJ it require an EJ analysis? J populations located within the oject result in adversely high and	ssues identified? project area?	acts to EJ populations?	Yes No X X X X	
vas requi	ndicate if EJ issues were identified during project development. If an EJ analysis was not required, discuss why. If an EJ analysis vas required, describe how the EJ population was identified. Include if the project has a disproportionately high or adverse effect on EJ populations and explain your reasoning. If yes, describe actions to avoid, minimize and mitigate these effects.					
Under FHWA Order 6640.23A, FHWA and the project sponsor, as a recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT Categorical Exclusion Manual, an Environmental Justice (EJ) Analysis is required for any project that has two or more relocations or 0.5 acre of additional permanent ROW. The project will require approximately 1.88 acres of permanent ROW. Therefore, an EJ Analysis is required.						
Potential EJ impacts are detected by locating minority and low-income populations relative to a reference population to determine if populations of EJ concern exists and whether there could be disproportionately high and adverse impacts to them. The reference population may be a county, city or town and is called the community of comparison (COC). In this project, the COC is Wabash County, Indiana. The community that overlaps the project area is called the affected community (AC). In this project, the AC is Census Tract 1029, Wabash County (Appendix I, I3). An AC has a population of concern for EJ if the population is more than 50% minority or low-income or if the low-income or minority population is 125% of the COC. Data from the U.S. Census Bureau 2219 ACS 5-year Estimates was obtained from the U.S. Census Bureau website on December 20, 2022, by BF&S (Appendix I, I4-I7). The data collected for minority and low-income populations within the AC are summarized in the below table.						
			COC - Wabash	AC - Census Tract 1029		
			County, Indiana	Wabash County, Indian	<u>a</u>	
		Percent Low-Income	12.4 %	12.8 %		
		125% of COC	15.4 %	AC < 125% COC		
		EJ Population of Concern		No		
		Percent Minority	6.4 %	4.3 %		
		125% of COC	8.0 %	AC < 125% COC		
		EJ Population of Concern		No		
AC does Census	not contain a l Tract 1029 ha	a percent low-income of 12.8% ow-income population of EJ con as a percent minority population of contain a minority population	cern. on of 4.3%, which is			
	sus data shee	ts, map, and calculations can		(I (I2-I7). No further enviro	nmental justice analysis is	
Relocation of People, Businesses or Farms Will the proposed action result in the relocation of people, businesses, or farms? Is a BIS or CSRS required? X X						
	Number of reloc		D Businesses: _	0 Farms: 0	Other:0	
		that will occur due to the project.		•	n the discussion below.	
NO reloc	ations of people	e, businesses, or farms will take	place as a result of th	іѕ ргојест.		
This	is page 21 of 2	5 Project name: Wabash	Co. Bridge 143	Date:	February 7, 2024	

	Indiana Department of Trans	enortation
County Wabash	Route CR 1050 South	Des. No. <u>2003065</u>
SECTION I - HAZARDOUS M	IATERIALS & REGULATED SUBSTANC	ES
Red Flag Investigation (RI Phase I Environmental Sit Phase II Environmental Si Design/Specifications for I	te Assessment (Phase I ESA) te Assessment (Phase II ESA)	Documentation X
adjacent to, or ones that could impa		iew. Discuss in depth sites found within, directly AM guidance. If additional documentation (special licable commitments.
provided their concurrence on Jasites involved with regulated subs	nuary 3, 2023 (Appendix E, E1-E8). No sites	d on December 30, 2022, by BF&S and INDOT SAM with hazardous material concerns (hazmat sites) or the project area. Further investigation of hazardous

This is page 22 of 25 Project name: Wabash Co. Bridge 143 Date: February 7, 2024

County Wabash Route CR 1000 South Des. No. 2000000	County	Wabash	Route	CR 1050 South	Des. No.	2003065	
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Part IV – Permi	its and Commitments
PERMITS CHECKLIST	
Permits (mark all that apply)	Likely Required
Army Corps of Engineers (404/Section10 Permit) Nationwide Permit (NWP) Regional General Permit (RGP) Individual Permit (IP) Other IN Department of Environmental Management (401/Rule 5)	X
Nationwide Permit (NWP) Regional General Permit (RGP) Individual Permit (IP) Isolated Wetlands Rule 5 Other	X
IN Department of Natural Resources Construction in a Floodway Navigable Waterway Permit Other Mitigation Required US Coast Guard Section 9 Bridge Permit Others (Please discuss in the discussion below)	X
ist the permits likely required for the project and summarize w	why the permits are needed, including permits designated as "Other."
It is anticipated an IDEM Construction Stormwater General P project will disturb more than 1 acre of land.	Permit (CSGP) permit (formerly known as Rule 5) will be required, as the
	from USACE will be required for the construction of the causeway and litigation related to stream impacts will likely be required and will be
	necessary due to the impact on the regulated floodway associated with is will likely be required and will be determined during the permitting
If permits are found to be necessary, the conditions of the recommendations.	e permit will be requirements of the project and will supersede these
It is the responsibility of the project sponsor to identify and ob	otain all required permits.

County	Wabash	Route	CR 1050 South	Des. No.	2003065
•				-	

ENVIRONMENTAL COMMITMENTS

List all commitments and include the name of agency/organization requesting/requiring the commitment(s). Listed commitments should be numbered.

Firm:

- If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately. (INDOT ESD and INDOT- Fort Wayne District)
- 2. It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that will block or limit access. (INDOT ESD)
- 3. (General AMM 1) Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs. (USFWS)
- 4. (Tree Removal AMM 1) Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- 5. (Tree Removal AMM 2) Apply time of year restrictions (November 15 to March 31) for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/ rail surface and outside of documented roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed. (USFWS, IDNR)
- 6. (Tree Removal AMM 3) Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits). (USFWS)
- 7. (Tree Removal AMM 4) Do not remove documented Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or documented foraging habitat any time of year. (USFWS)
- 8. (Lighting AMM 1) Direct temporary lighting away from suitable habitat during the active season. (USFWS)
- 9. If construction will begin after April 19, 2025, an inspection of the structure by a qualified individual, must be performed. Inspection of the structure should check for presence of bats/bat indicators and/or presence of birds. The results of the inspection must indicate no signs of bats or birds. If signs of bats or birds are documented during this inspection, the INDOT District Environmental Manager must be contacted immediately. (INDOT-ESD)
- 10. Wabash Co. Bridge 143 and the project's surrounding habitat is conducive for use (i.e. nests) by a bird species protected under the Migratory Bird Treaty Act (MBTA). Prior to the start of nesting season (May 1) the structure must be inspected for birds or signs of birds. If birds or signs of birds are found during the inspection avoidance and minimization measures must be implemented prior to the start of and during the nesting season. Nests without eggs or young should be removed prior to construction during the non-nesting season (September 8 April 30) and during the nesting season if no eggs or young are present. Nests with eggs or young cannot be removed or disturbed during the nesting season (May 1 September 7). Nests with eggs or young should be screened or buffered from active construction. Details of the required procedures are outlined in the "Potential Migratory Bird on Structure" USP/RSP. (INDOT-ESD)

For Further Consideration:

- 11. For crossing replacements, the new structure must include wildlife passage appropriate for the type of replacement structure being proposed. If the existing structure is sized to accommodate white-tailed deer passage, then it should be included in the design of the new structure. If whitetail deer passage is not possible with the existing structure, deer passage still needs to be considered in the design and at minimum the bank lines must be restored within structures to allow for smaller wildlife passage above the ordinary high-water mark. Minimum structure dimensions for white-tailed deer passage are 20 feet of width clearance (overall size of the structure span) and 8 feet of height clearance measured from the OHWM to the low chord elevation and where deer passage is provided. (IDNR-DFW)
- 12. All wildlife passage designs must include a smooth level pathway preferably 3 feet wide but a minimum of 1-2 feet in width composed of natural substrate (soil, sand, gravel, etc.) or compacted aggregate fill over riprap (#2, #53, #73, etc.) tied into existing elevations both upstream and downstream. The stream crossing repairs or modifications, and any bank stabilization under or around the structure, must not create conditions that are less favorable for wildlife passage when compared to existing conditions. Upgrading wildlife passage for rehabilitated/modified structures is encouraged whenever possible to improve wildlife/vehicle safety. (IDNR-DFW)
- 13. While hard armoring alone (e.g., riprap, glacial stone) may be required in certain instances, soft armoring and bioengineering techniques should be considered first. Establishing vegetation along the banks is critical for stabilization and erosion control. A variety of methods to accomplish this include planting plugs, whips, container stock, seeding, and live stakes. In addition to vegetation establishment, floodway construction projects often require some level of bank stabilization. Combining vegetation with any of the following bank stabilization methods can provide additional bank protection while not

This is page 24 of 25	Project name:	Wabash Co. Bridge 143	Date: February 7 2024	

County	Wabash	Route	CR 1050 South	Des. No.	2003065	

- compromising the benefits to fish, wildlife, and botanical resources: geotextiles (erosion control blankets, turf reinforcement mats; biodegradable preferred), vegetated geogrids or soil lifts, glacial stone, fiber rolls, or riprap. (IDNR-DFW)
- 14. Do not excavate in the low flow area except for the placement of piers, foundations, and riprap, or removal of the old structure. Maintain the natural shape of the channel. (IDNR-DFW)
- 15. Leave in place or cut at the waterline any fallen trees, roots, logs, and/or stumps that are anchored or embedded in the bank or bottom of the waterway. (IDNR-DFW)
- 16. All excavated material must be properly spread or completely removed from the project site such that erosion and off-site sedimentation of the material is prevented. (IDNR-DFW)
- 17. Impacts to non-wetland forest of one (1) acre or more in a rural or urban area should be mitigated at a minimum 2:1 ratio based on area of impact. Impacts to non-wetland forest under one (1) acre but at least 0.10 acre in a rural or urban area should be mitigated at a minimum 1:1 ratio based on area of impact. Impacts under 0.10 acre in a rural area typically do not require mitigation or additional plantings beyond seeding and stabilizing disturbed areas, though there are exceptions for high quality habitat sites. Seeding and stabilizing disturbed areas is required regardless of the impact amount and location. If floodway impacts to forested wetland and non-wetland habitat areas combine to be 0.10 acres or more, mitigation should be done and coordinated with the biologist, as needed. (IDNR-DFW)
- 18. Avoid all work within the inundated part of the stream channel (in perennial streams and larger intermittent streams) during the fish spawning season (April 1 through June 30), except for work within sealed structures such as caissons or cofferdams that were installed prior to the spawning season. No equipment shall be operated below Ordinary High-Water Mark during this time unless the machinery is within the caissons or on the cofferdams. (USFWS)
- Evaluate wildlife crossings under bridge/culverts projects in appropriate situations. Suitable crossings include flat areas below bridge abutments with suitable ground cover, high water shelves in culverts, amphibian tunnels and diversion fencing. (USFWS)
- 20. Minimize the extent of hard armor (riprap) in bank stabilization by using bioengineering techniques whenever possible. If riprap is utilized for bank stabilization, extend it below low-water elevation to provide aquatic habitat. (USFWS)
- 21. Restrict below low-water work in streams to placement of culverts, piers, pilings and/or footings, shaping of the spill slopes around the bridge abutments, and placement of riprap. (USFWS)
- 22. Culverts should span the active stream channel, should be either embedded or a 3-sided or open-arch culvert, and be installed where practicable on an essentially flat slope. When an open-bottom culvert or arch is used in a stream, which has a good natural bottom substrate, such as gravel, cobbles and boulders, the existing substrate should be left undisturbed beneath the culvert to provide natural habitat for the aquatic community. (USFWS)

This is page 25 of 25 Project name: Wabash Co. Bridge 143 Date: February 7, 2024

APPENDIX TABLE OF CONTENTS Wabash Co. Bridge 143

Wabash Co. Bridge 143 Wabash County, Indiana Des. No. 2003065

Appendix A: INDOT Supporting Documentation	
CE Level Thresholds Chart	A1
Appendix B: Graphics	
Indiana State Map	B1
USGS Rossville Quadrangle Map	B2
Aerial Map	B3
Photo Key Map	B4
Photo Reference Pages	B5-B8
Preliminary Plan Sheets	B9-B25
Appendix C: Early Coordination	
Early Coordination Letter/List of Recipients	C1-C2
Indiana Geological and Water Survey Response	C3-C5
USFWS Response	C5
USDA-NRCS Response	C6
IDNR, Division of Fish and Wildlife Response	C7-C9
NRCS Response	C10-C11
USFWS IPaC Species List	C12-C19
USFWS IPaC Concurrence Verification Letter	C12-C17 C20-C32
Bridge Bat Assessment Form	C33
Bridge Bat Assessment Form	C33
Appendix D: Section 106 of the NHPA	
MPPA Form	D1-D6
Archaeology Report Excerpt	D7-D9
The material of the post 2 most per	2, 2,
Appendix E: Red Flag Investigation	
Red Flag Investigation Report	E1-E8
Appendix F: Ecological and Water Resources	
Waters of the US Report	F1-F25
Appendix G: Public Involvement	
Notice of Survey	G1
Appendix H: Air Quality	
STIP Excerpt from FY 2024 – 2028	H1
Appendix I: Additional Studies	
List of Section 6(f) Properties	I1
Environmental Justice Data	I2-I7
Excerpt from 2022 Bridge Inspection Report	I8-I13

Appendix A
INDOT Supporting Documentation

Categorical Exclusion Level Thresholds

	PCE	Level 1	Level 2	Level 3	Level 4 ¹
Section 106	Falls within guidelines of Minor Projects PA	"No Historic Properties Affected"	"No Adverse Effect"	-	"Adverse Effect" Or Historic Bridge involvement ²
Stream Impacts	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	Individual 404 Permit
Wetland Impacts	No adverse impacts to wetlands	< 0.1 acre	-	< 1 acre	≥ 1 acre
Right-of-way ³	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations	None	-	-	< 5	≥ 5
Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat)	"No Effect", "Not likely to Adversely Affect" (Without AMMs ⁴ or with AMMs required for all projects ⁵)	"Not likely to Adversely Affect" (With any other AMMs)	-	"Likely to Adversely Affect"	Project does not fall under Species Specific Programmatic
Threatened/Endangered Species (Any other species)	Falls within guidelines of USFWS 2013 Interim Policy	"No Effect", ""Not likely to Adversely Affect"	-	-	"Likely to Adversely Affect"
Environmental Justice	No disproportionately high and adverse impacts	-	-	-	Potential ⁶
Sole Source Aquifer	Detailed Assessment Not Required	-	-	-	Detailed Assessment
Floodplain	No Substantial Impacts	-	-	-	Substantial Impacts
Coastal Zone Consistency	Consistent	-	-		Not Consistent
National Wild and Scenic River	Not Present	-	-	-	Present
New Alignment	None	_	-	-	Any
Section 4(f) Impacts	None	-	-	-	Any
Section 6(f) Impacts	None	-	-	-	Any
Added Through Lane	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Coast Guard Permit	None	=	-	-	Any
Noise Analysis Required	No No	-	-	-	Yes
Air Quality Analysis Required	No No	-	-	-	Yes ⁷
Approval Level	Concurrence by INDOT District				
 District Env. Supervisor 	Environmental or	Yes	Yes Yes	Yes	Yes
 Env. Services Division 	Environmental			Yes	Yes
FHWA Coordinate with INDOT Environmental Section 1.	Services				Yes

¹Coordinate with INDOT Environmental Services. INDOT will then coordinate with the appropriate FHWA Environmental Specialist.

²Any involvement with a bridge processed under the Historic Bridge Programmatic Agreement.

³Permanent and/or temporary right-of-way.

⁴AMMs = Avoidance and Mitigation Measures.

⁵AMMs determined by the IPAC decision key to be needed that are listed in the USFWS *User's Guide for the Range-wide Programmatic Consultation* for Indiana bat and Northern long-eared bat as "required for all projects".

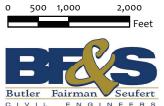
Potential for causing a disproportionately high and adverse impact.

⁷Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

^{*}Substantial public or agency controversy may require a higher-level NEPA document.

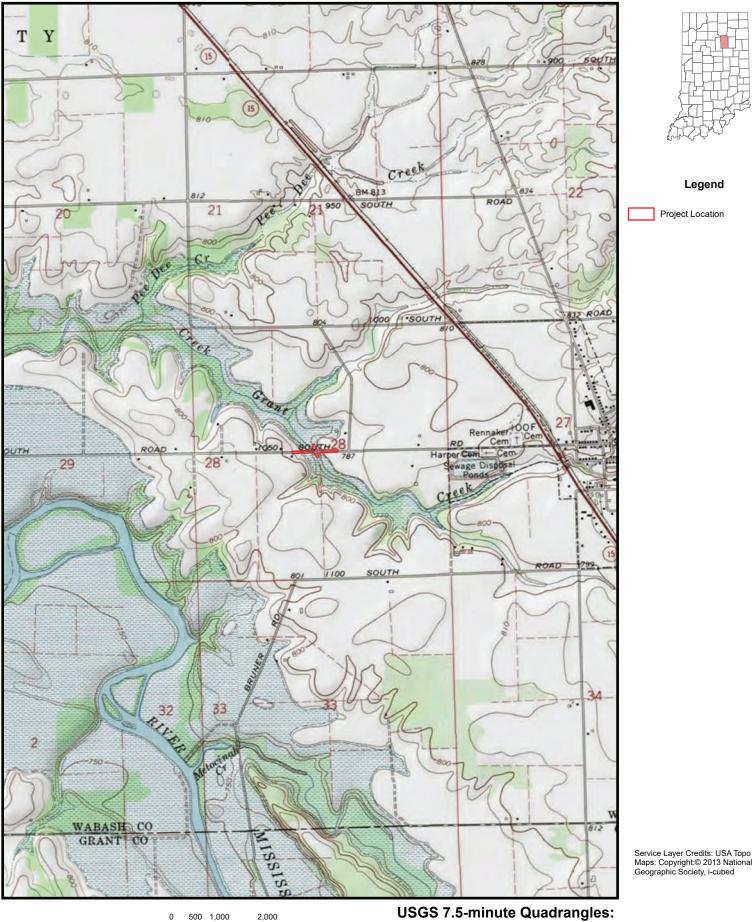
Appendix B Graphics







State Map
Wabash Co. Bridge 143 Replacement
County Road 1050 South over Grant Creek
Des. 2003065

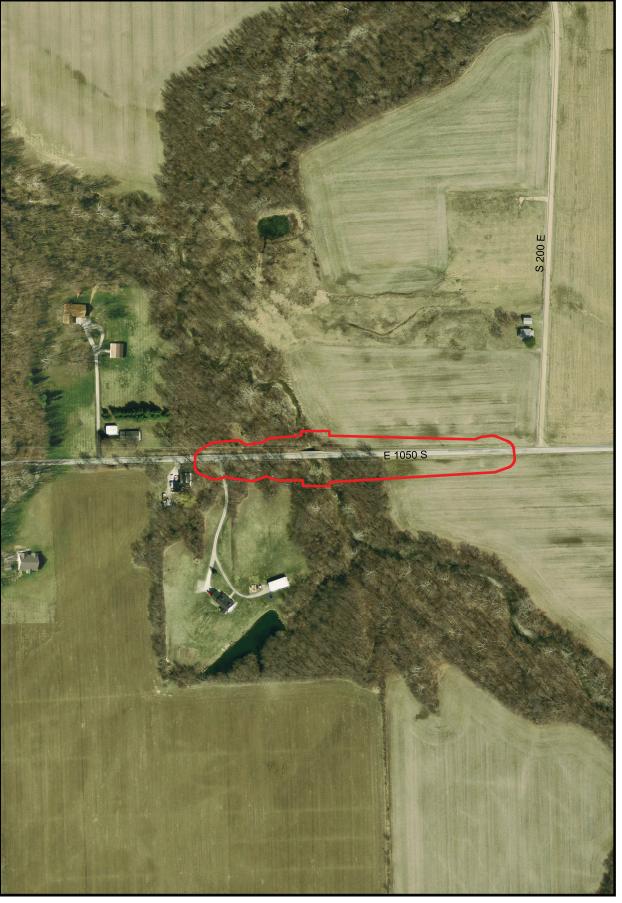






La Fontaine and Somerset

Wabash Co. Bridge 143 Replacement County Road 1050 South over Grant Creek Section 28, Township 26 North, Range 7 East Des. 2003065





Legend

Project Location

Service Layer Credits: Orthos - Full Resolution - 2011-2013:

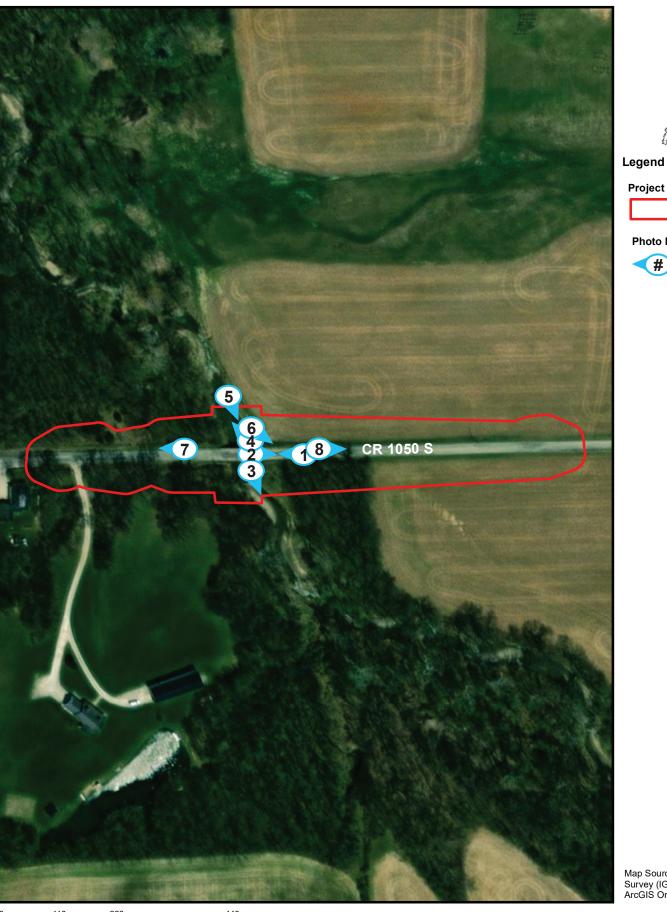


Aerial Map





Wabash Co. Bridge 143 Replacement County Road 1050 South over Grant Creek Des. 2003065





Project Area

(#)

Photo Numbers







Wabash County Bridge 143

CR E 1050 S over Grant Creek Section 28, Township 26N, Range 7E Wabash County, Indiana

Site Photographs Des 2003065



Photo 1: Looking west along the deck of Wabash County Bridge 143.



Photo 2: Looking east along the deck of Wabash County Bridge 143.



Site Photographs Des 2003065



Photo 3: Looking upstream along Grant Creek from Wabash County Bridge 143.



Photo 4:: Looking downstream along Grant Creek from Wabash County Bridge 143.



Site Photographs Des 2003065



Photo 5: North elevation of Wabash County Bridge 143..



Photo 6: Looking east at the east pier of Wabash County Bridge 143.



Site Photographs Des 2003065



Photo 7: Looking east along the western approach to Wabash County Bridge 143.



Photo 8: Looking west along the western approach to Wabash County Bridge 143.



PROJECT	DESIGNATION
2003065	2003065
CONTRACT	BRIDGE FILE
B-43610	85-00143

BARRY EPPLEY, Commissioner

BRIAN HAUPERT, Commisisoner

JEFF DAWES, Commissioner

COLE WYATT, Employee In Responsible Charge

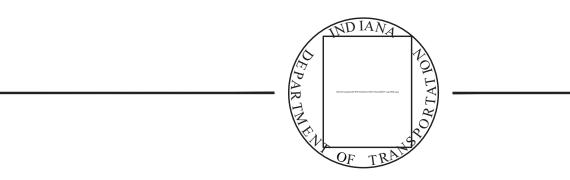
STRUCTURE INFORMATION								
STRUCTURE	TYPE	SPAN & SKEW	OVER	STATION				
85-00143	PRESTRESSED COMPOSITE CONCRETE BULB-TEE BEAM BRIDGE	1 SPAN: 90'-0" SKEW: 15°00'00" LT	GRANT CREEK	34+49.16 LINE "A"				

Date

Date

Date

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: CR EAST 1050 SOUTH OVER GRANT CREEK

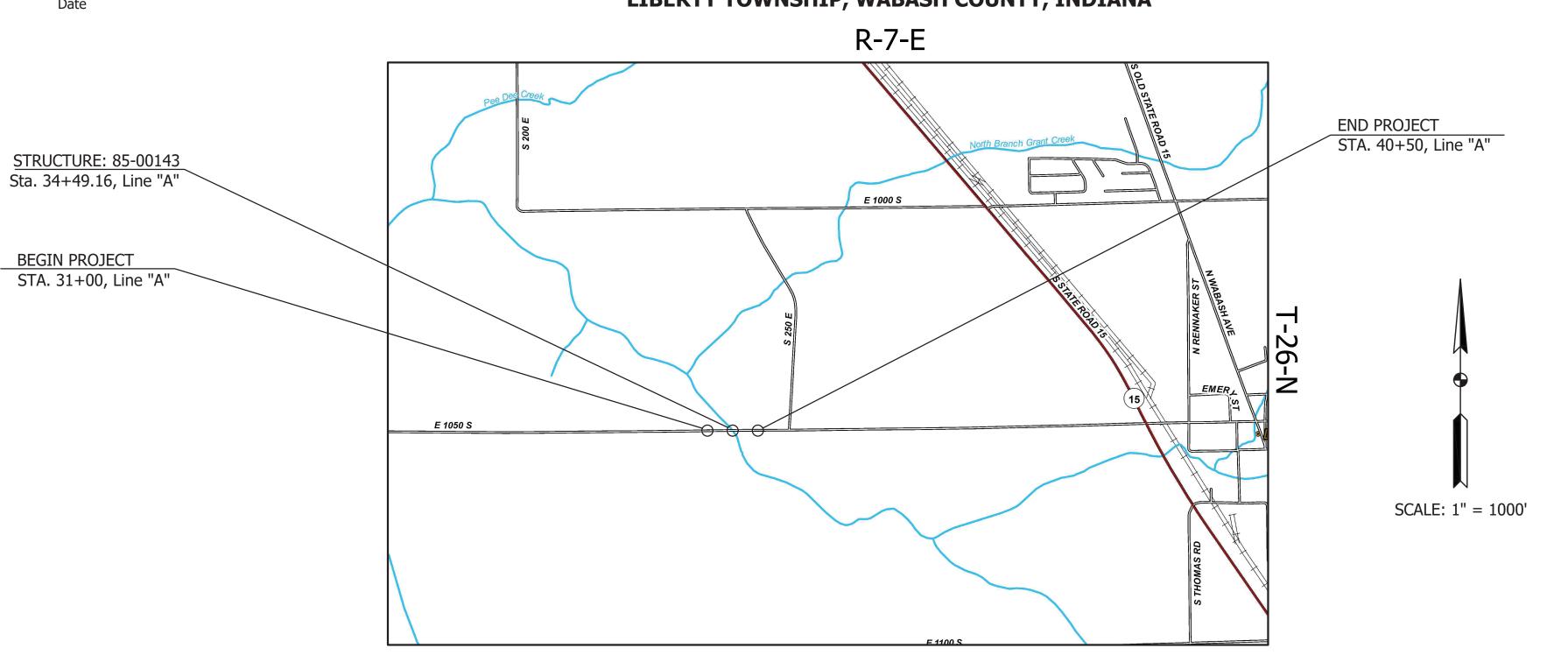
PROJECT NO.

2003065 P.E.

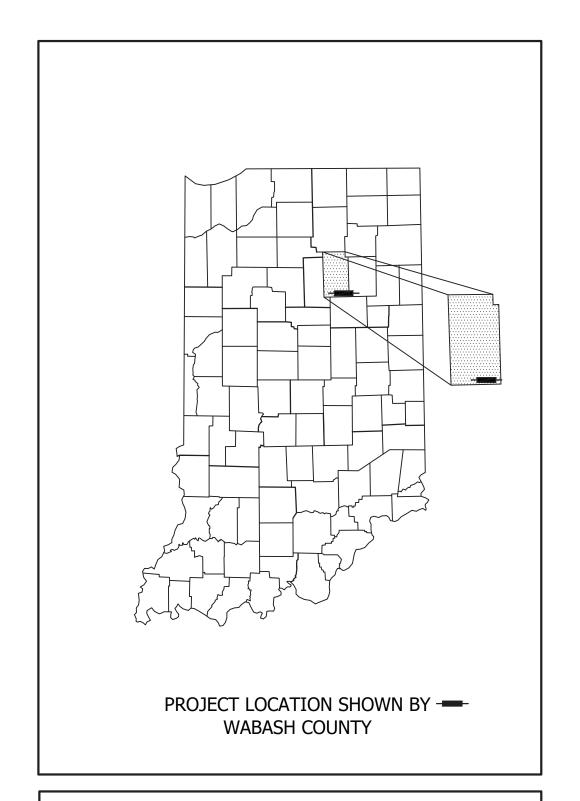
2003065 R/W

2003065 CONST.

REPLACEMENT OF BRIDGE CARRYING CR EAST 1050 SOUTH OVER GRANT CREEK PROJECT IS LOCATED 0.10 MILES WEST OF LAFONTAINE SECTION 28, TOWNSHIP 26 NORTH, RANGE 7 EAST LIBERTY TOWNSHIP, WABASH COUNTY, INDIANA



TRAFFIC	C DATA		
A.A.D.T.	(2025)	220 V.P	.D.
A.A.D.T.	(2045)	220 V.P	D.
D.H.V.	(2045)	20 V.P	γ.Н.
DIRECTIONAL DIST	TRIBUTION	50 %	
COMMERCIAL VEHI	CLES	5% A.A	N.D.T.
		50% D	.H.V.
DESIGN			
DESIGN SPEED		55 M.P	P.H.
PROJECT DESIGN (CRITERIA	RECONSTRUCTION (NON-FREEW)	AY)
FUNCTIONAL CLAS	SIFICATION	LOCAL RO	AD
RURAL/URBAN		RUF	RAL
TERRAIN		LEV	/EL
ACCESS CONTROL		NC	NE



LATITUDE: 40°40'26.4"N LONGITUDE: 85°44'39.4"W

BRIDGE LENGTH: 0.017 MI.

ROADWAY LENGTH: 0.162 MI.

TOTAL LENGTH: 0.179 MI.

MAX. GRADE: 4.25 %

HUC 12: 051201030603

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
CERTIFIED BY:		PHONE
APPROVED FOR LETTING:		DATE
1 311 22 1 121131	INDIANA DEPARTMENT OF TRANSPORTATI	ON DATE

	BRII	OGE FI	LE	
	85	5-00143		
	DESI	GNATI	ON	6778
	20	003065		9
SURVEY BOOK	SHEET			
ELECTRONIC	1	OF	28	
CONTRACT	PR	OJECT	•	
B-43610	20			

BE USED WITH THESE PLANS.

INDIANA DEPARTMENT OF TRANSPORTATION

STANDARD SPECIFICATIONS DATED 2024 TO

	UTILITIES						
	UTILITIES						
ELECTRIC:	HEARTLAND REMC 4563 E. MARKLE RD. MARKEL, IN 46770 PH: (260) 758-3652 ATTN: ERIC WILSON EMAIL: ewilson@HeartlandREMC.com						
COMMUNICATIONS:	LUMEN EMAIL: relocations@lumen.com						

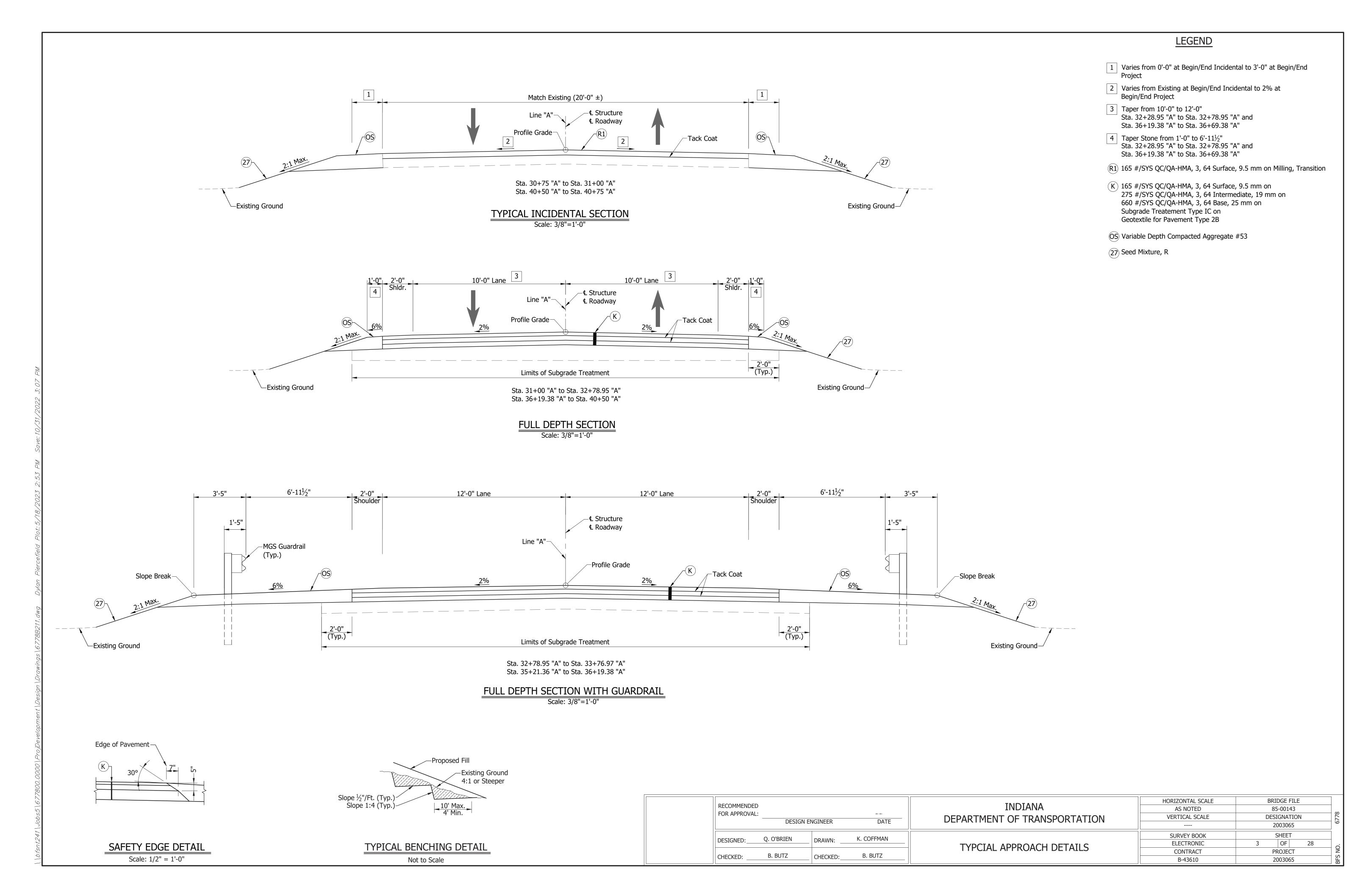
GENERAL NOTES
All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified.
This set of Plans shall not be construed to be a property retracement survey. Where apparent property lines, corners, subdivision or section corner information are shown, they are based on physical evidency or testimony.
These plans show the location of utilities as existing in the field by the respective utility companies; therefore, the firm of BF&S does not accept any responsibility for the accuracy of this information.
In accordance with Indiana Code 8-1, Chapter 26, the Contractor shall notify the Indiana Underground Plant Protection Service at 1-800-382-5544 at least two (2) full working days prior to any excavation or demolition

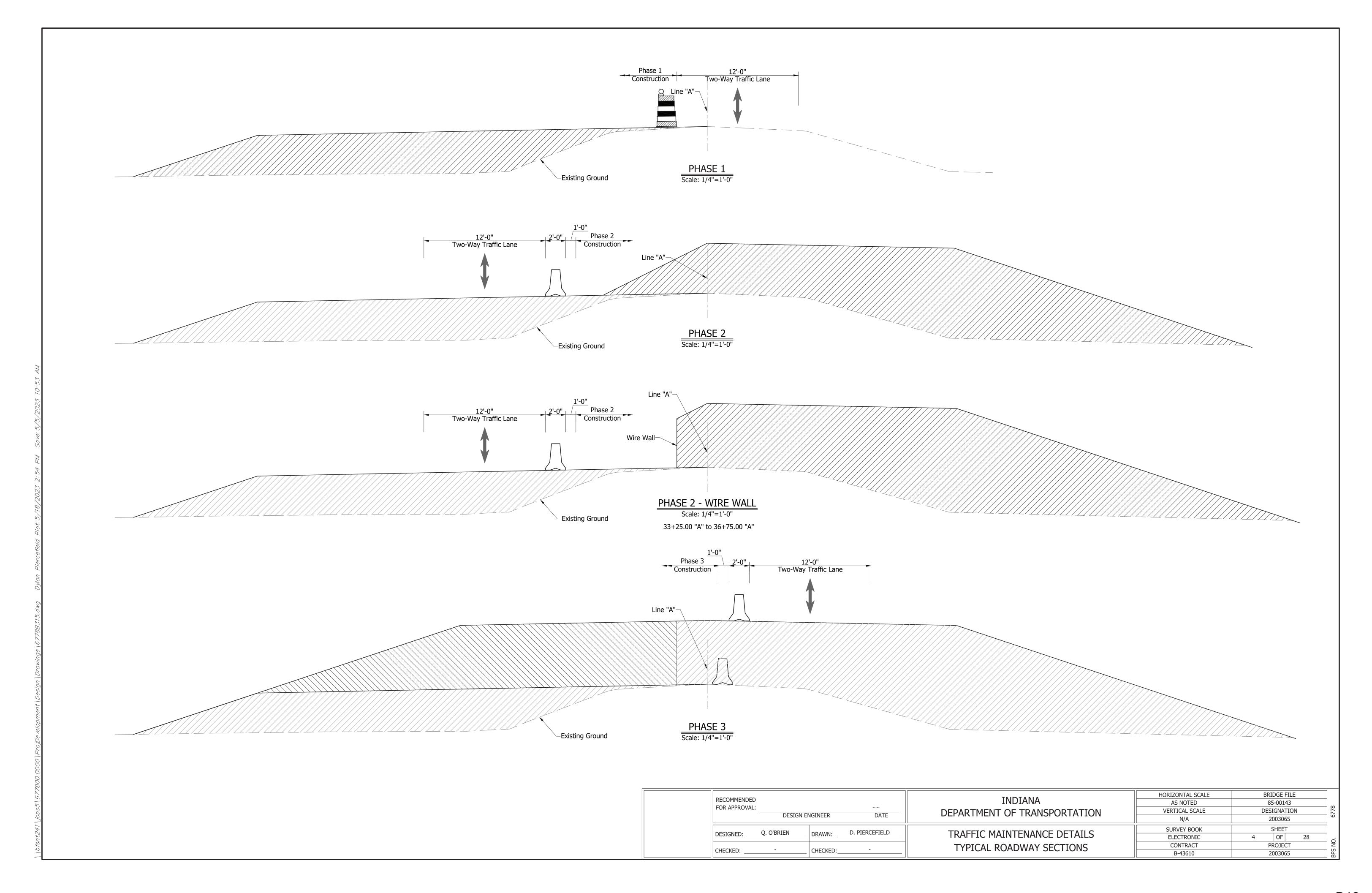
INDEX									
SHEET NO.									
1	TITLE SHEET								
2	INDEX								
3	TYPCIAL APPROACH DETAILS								
4-8	TRAFFIC MAINTENANCE DETAILS								
9-10	PLAN & PROFILE - LINE "A"								
11-15	EROSION CONTROL DETAILS								
16-17	WIRE WALL DETAILS								
18	LAYOUT								
19	GENERAL PLAN - PLAN & ELEVATION								
20	GENERAL PLAN - TYPICAL SECTION								
21-28	CROSS-SECTIONS								

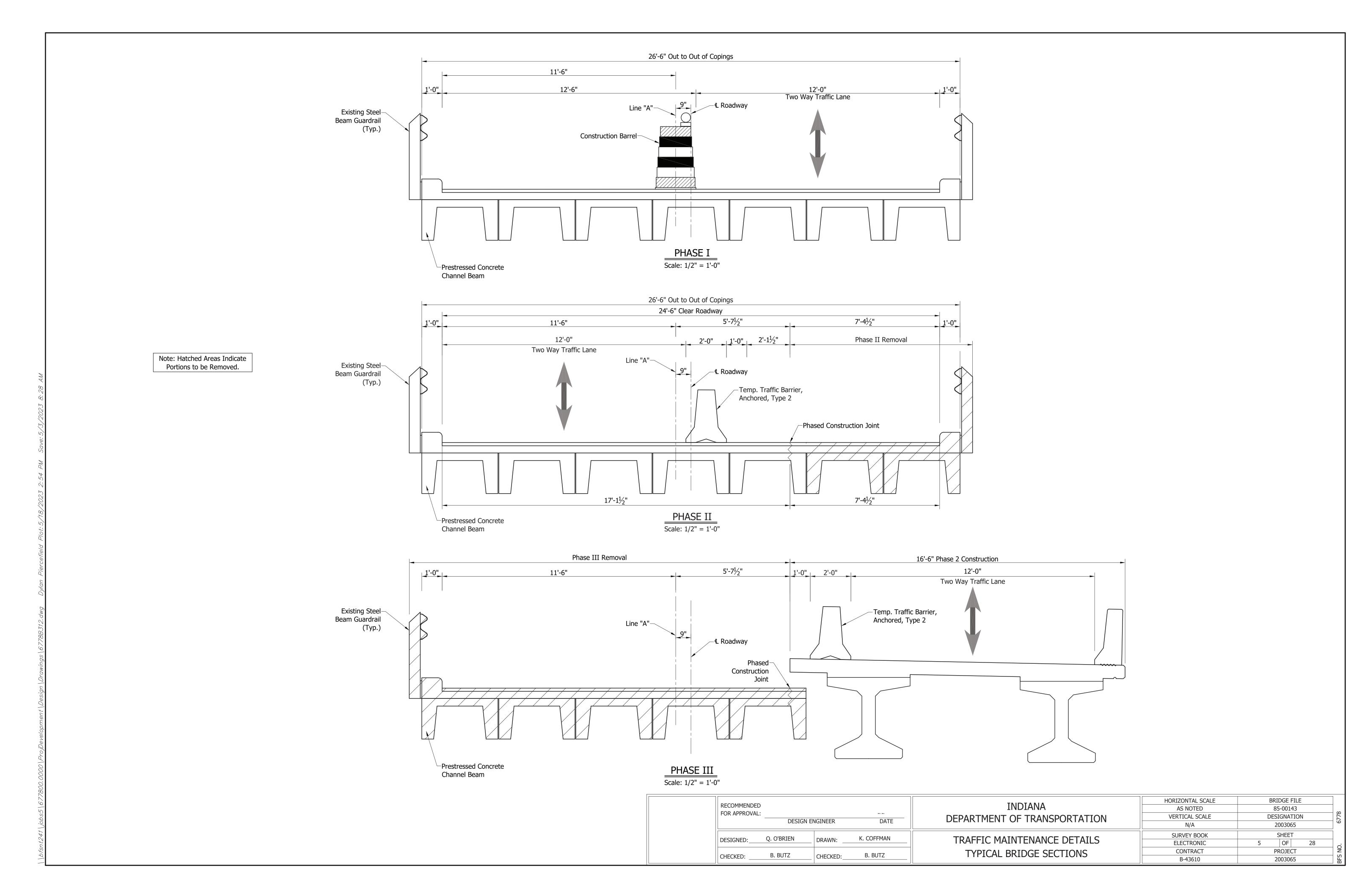
	REVISIONS						
SHEET NO.	DATE	REVISED					

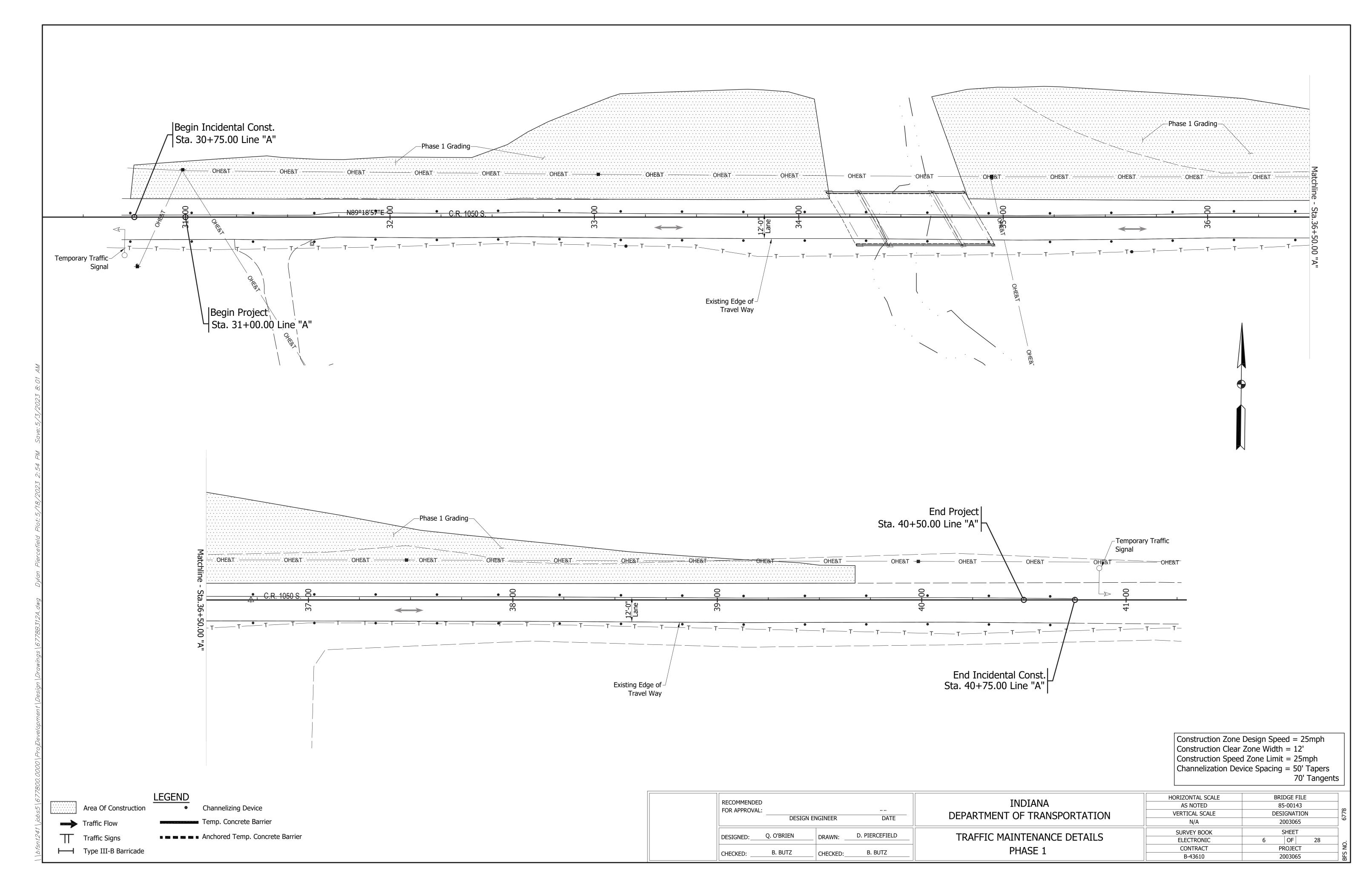


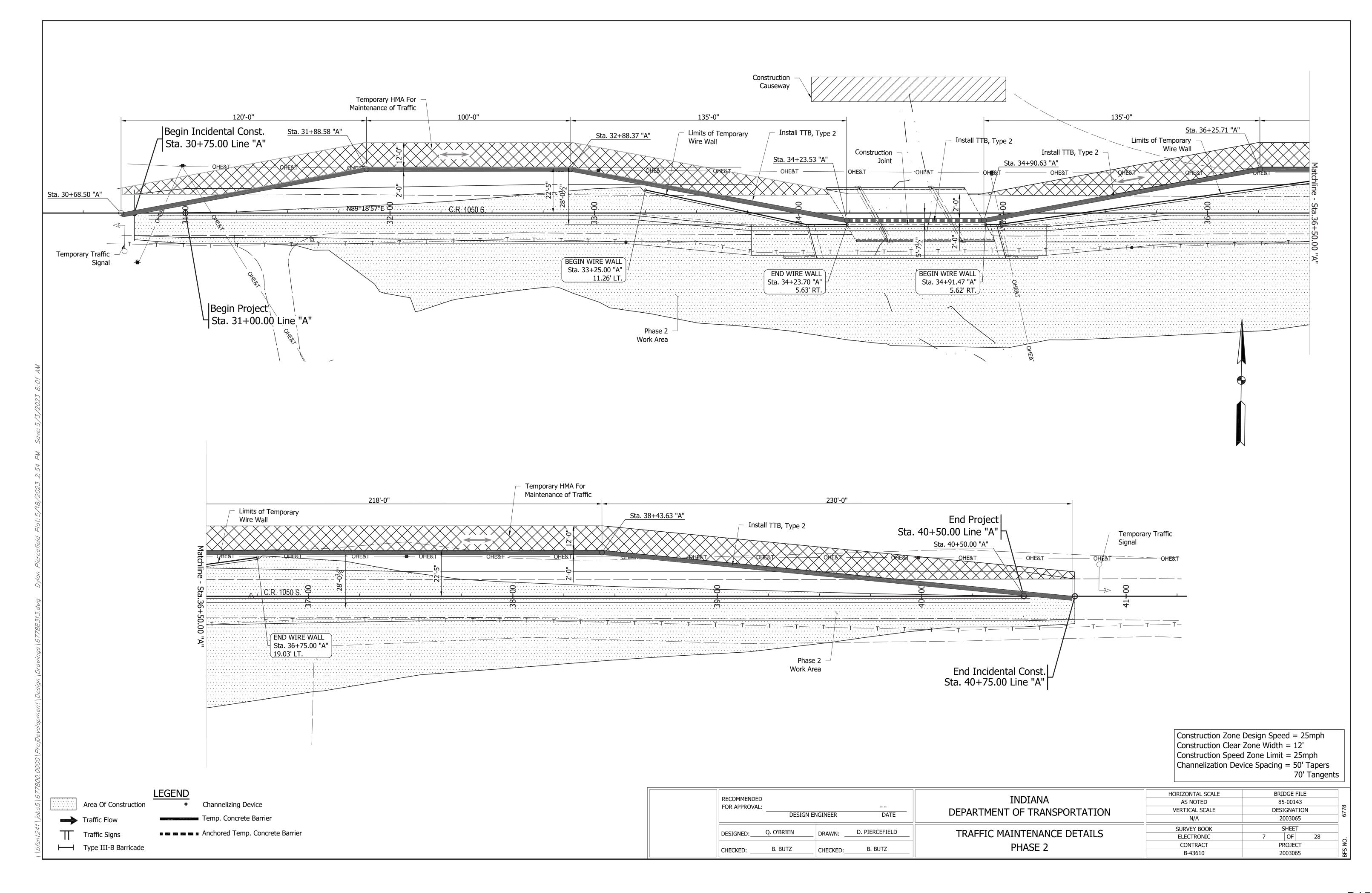
RECOMMENDED FOR APPROVAL:		 DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE N/A VERTICAL SCALE N/A	BRIDGE FILE 85-00143 DESIGNATION 2003065	6778
DESIGNED:	Q. O'BRIEN DRAWN:	K. COFFMAN	TNIDEV	SURVEY BOOK ELECTRONIC	SHEET 2 OF 28	-
CHECKED:	HECKED: B. BUTZ CHECKED: BUTZ		BUTZ		PROJECT 2003065	BFS NC

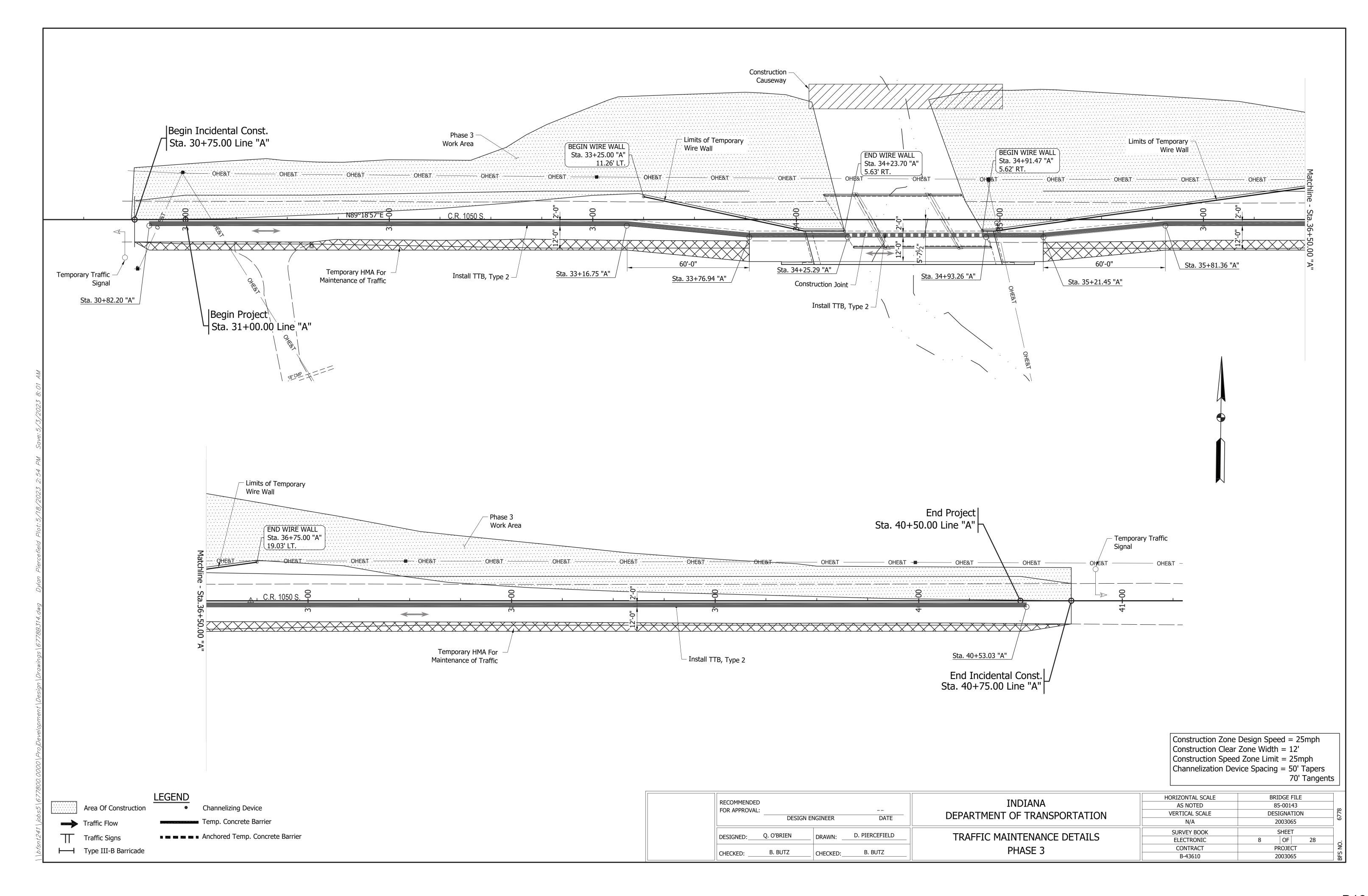


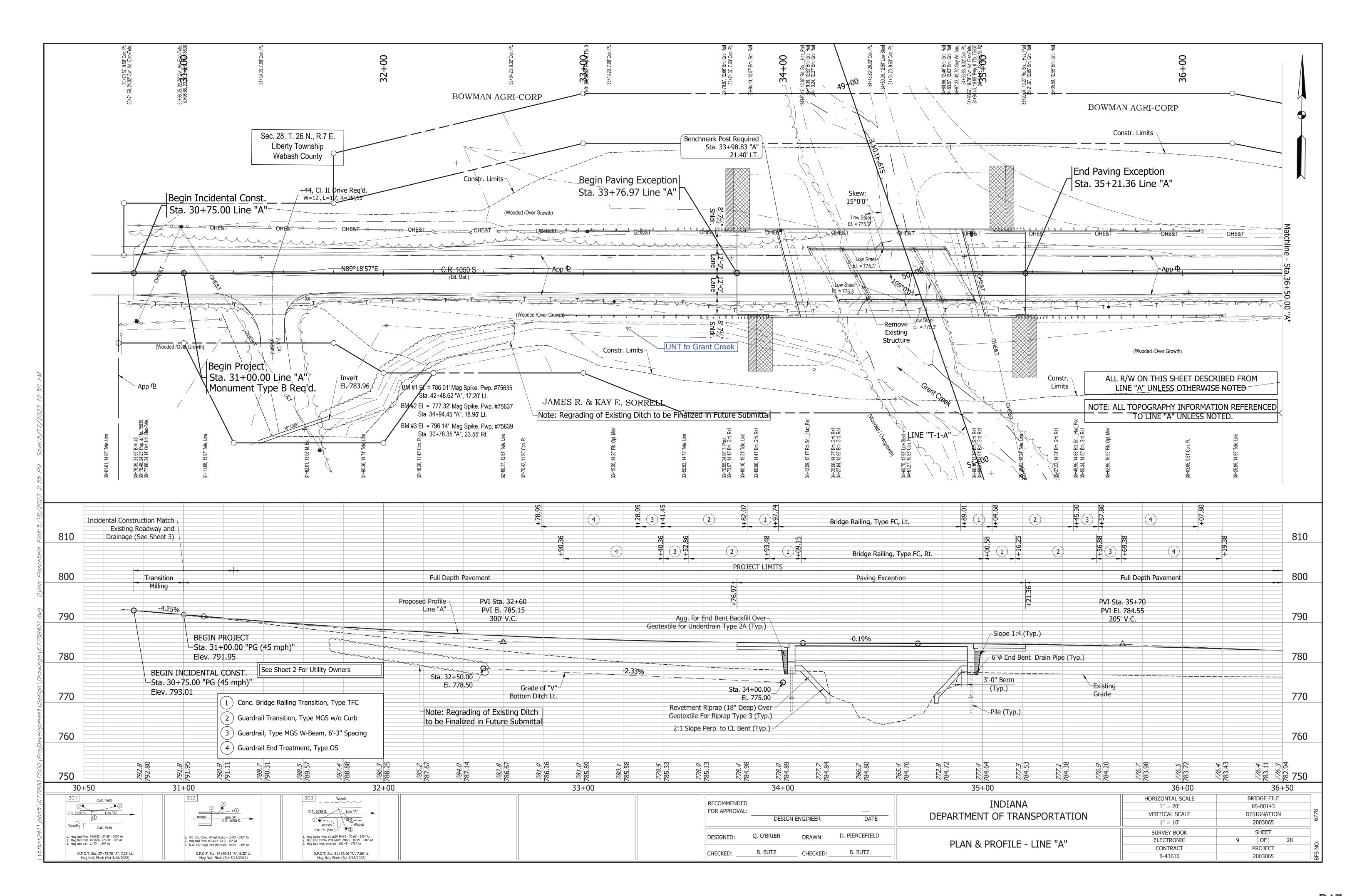


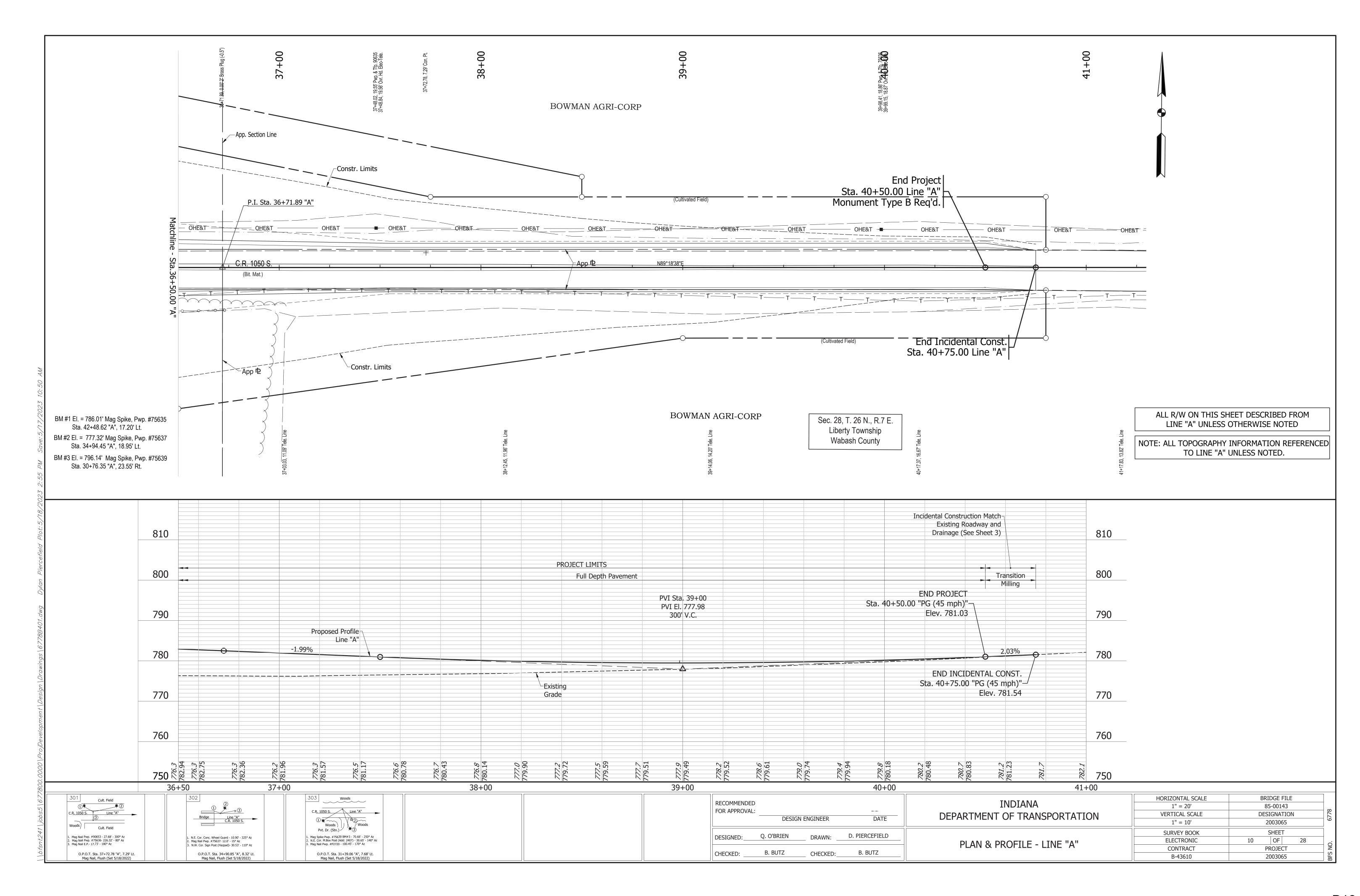


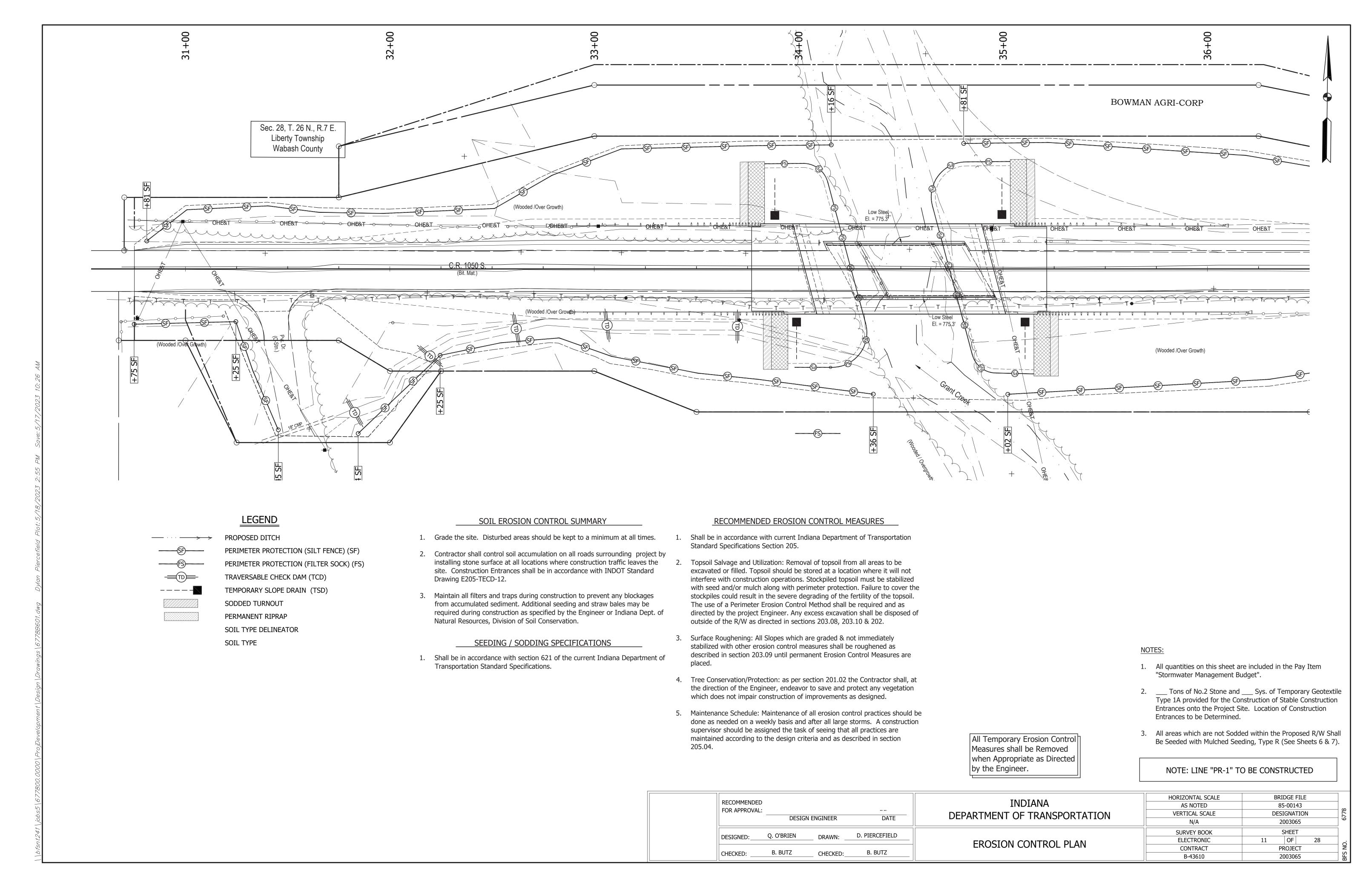


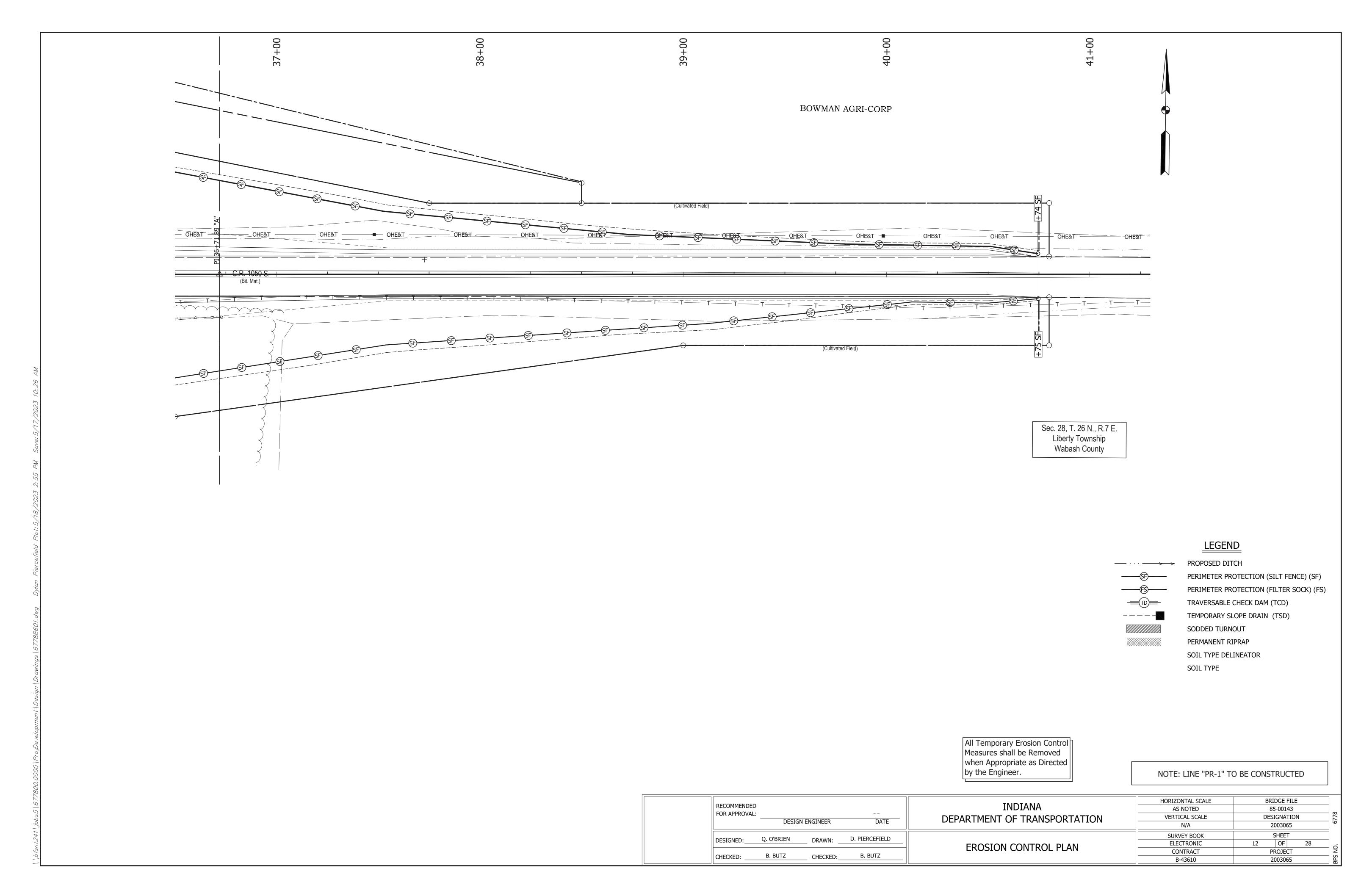


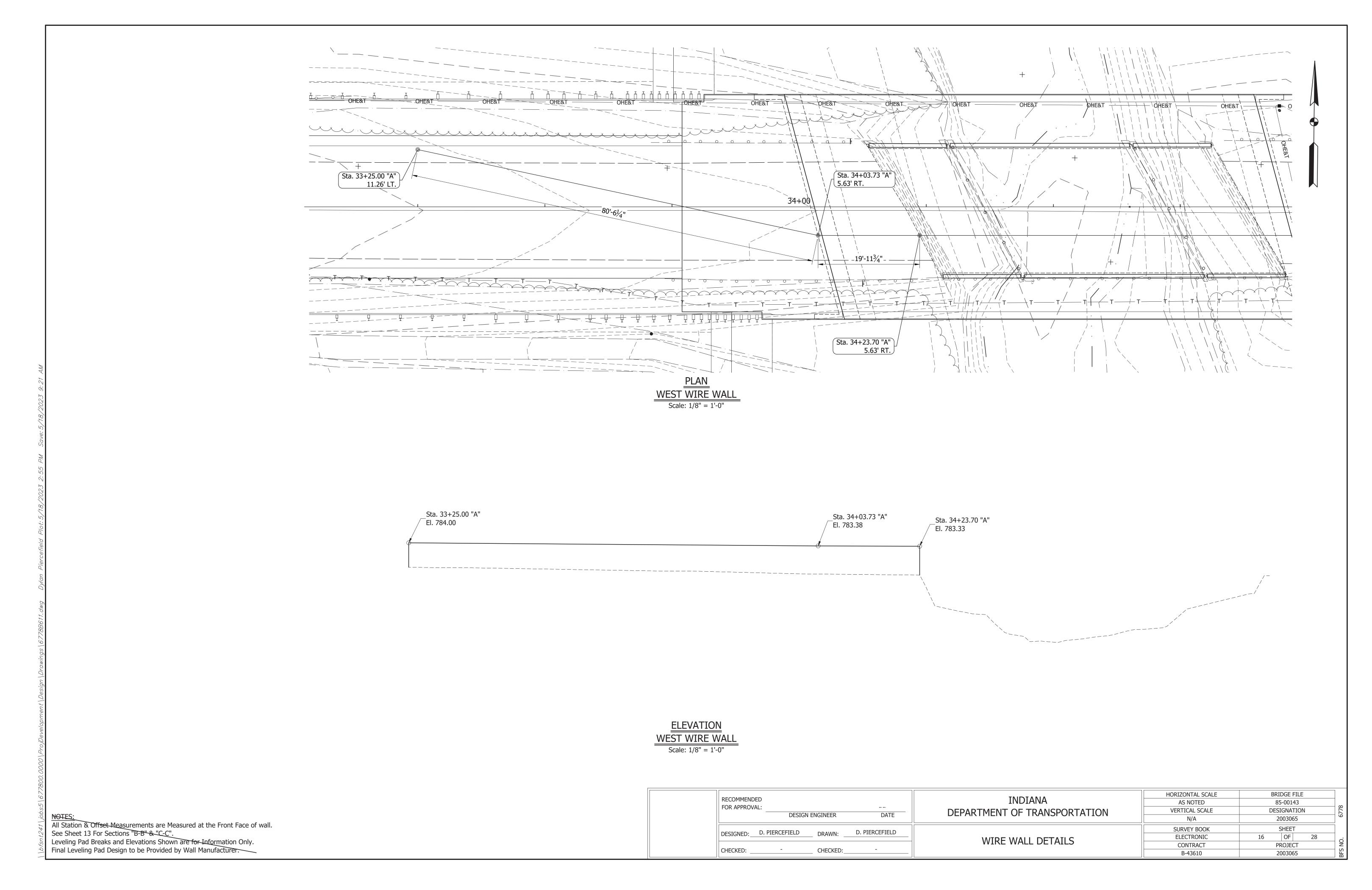


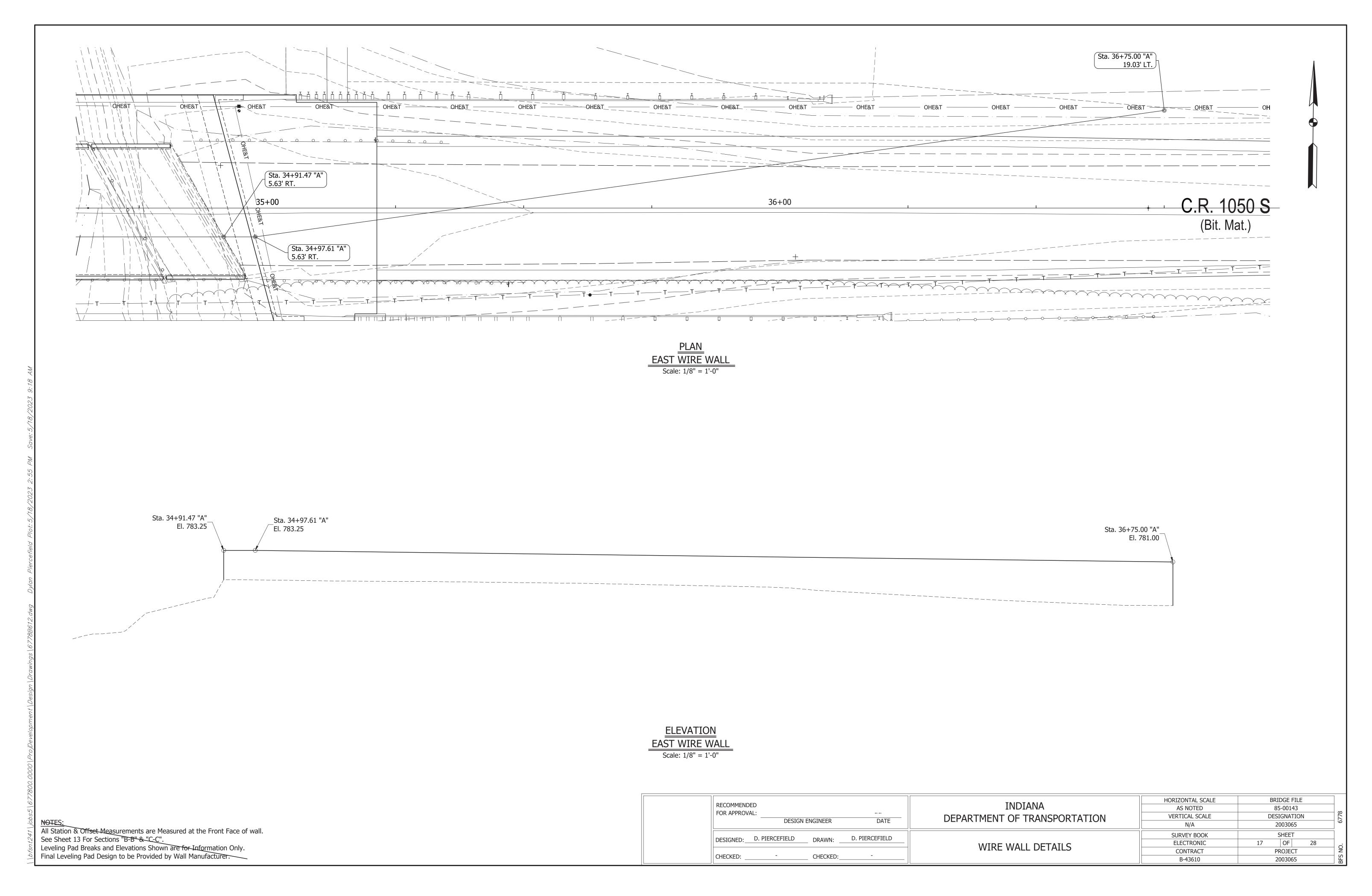


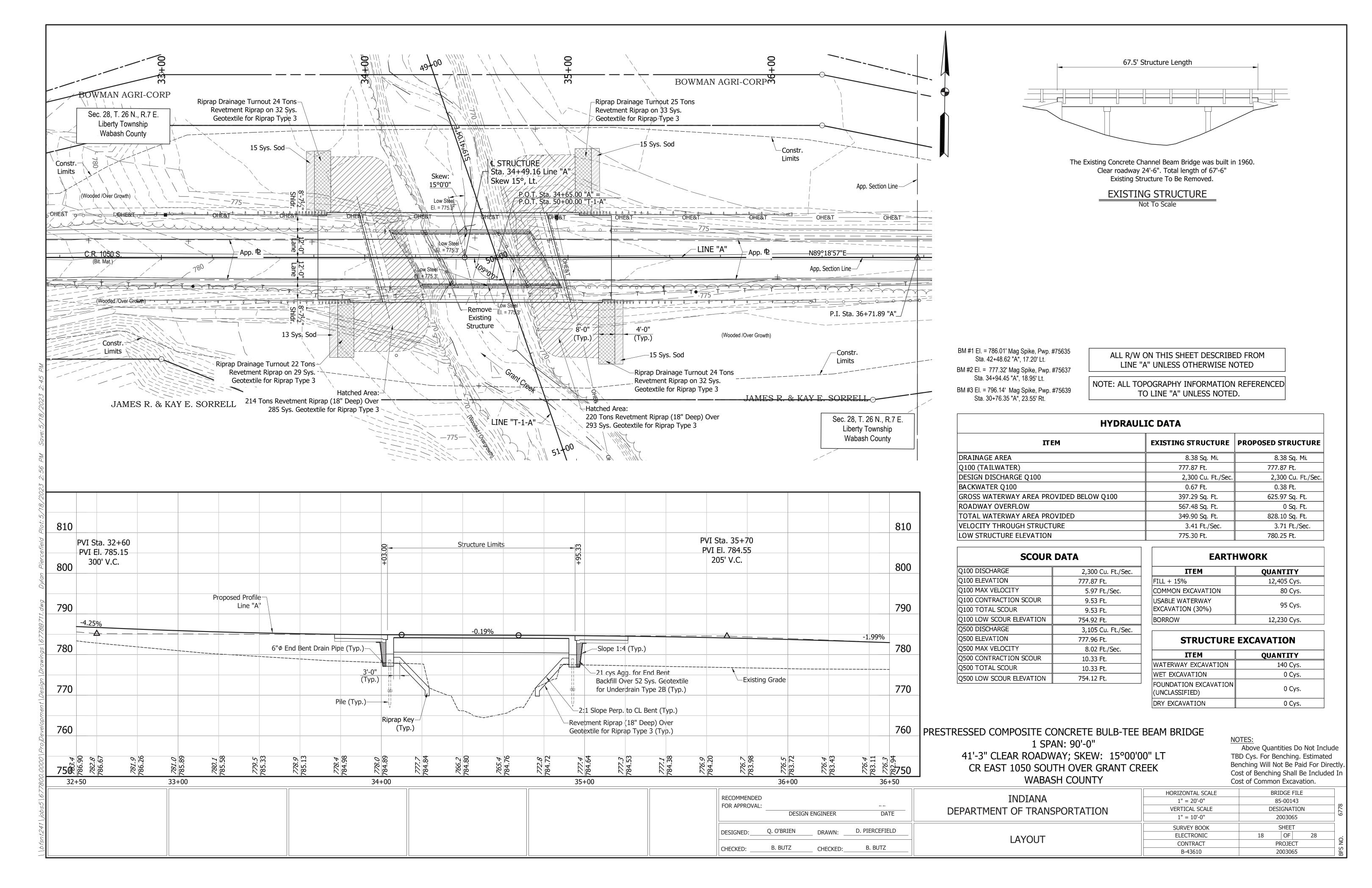


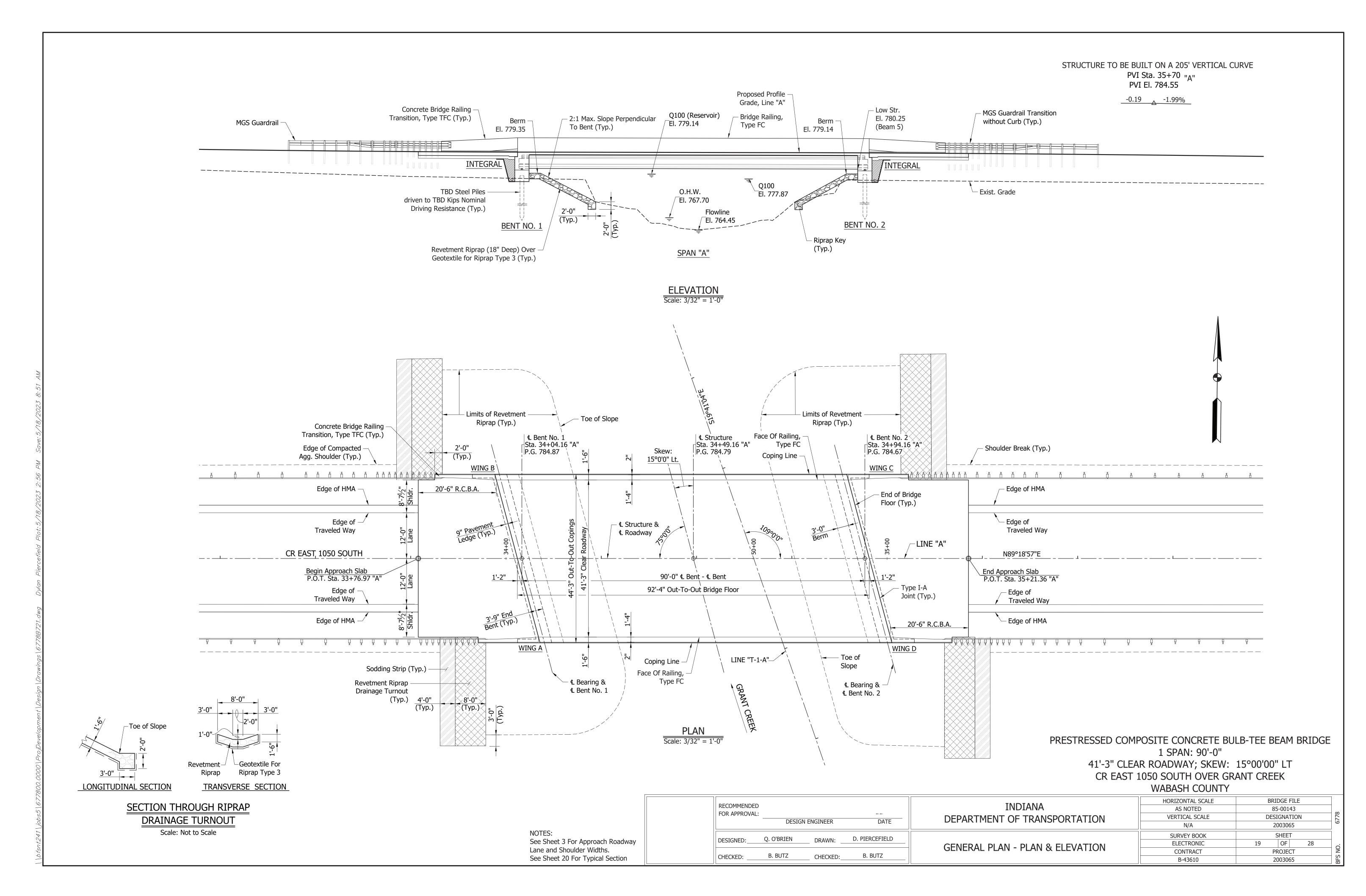


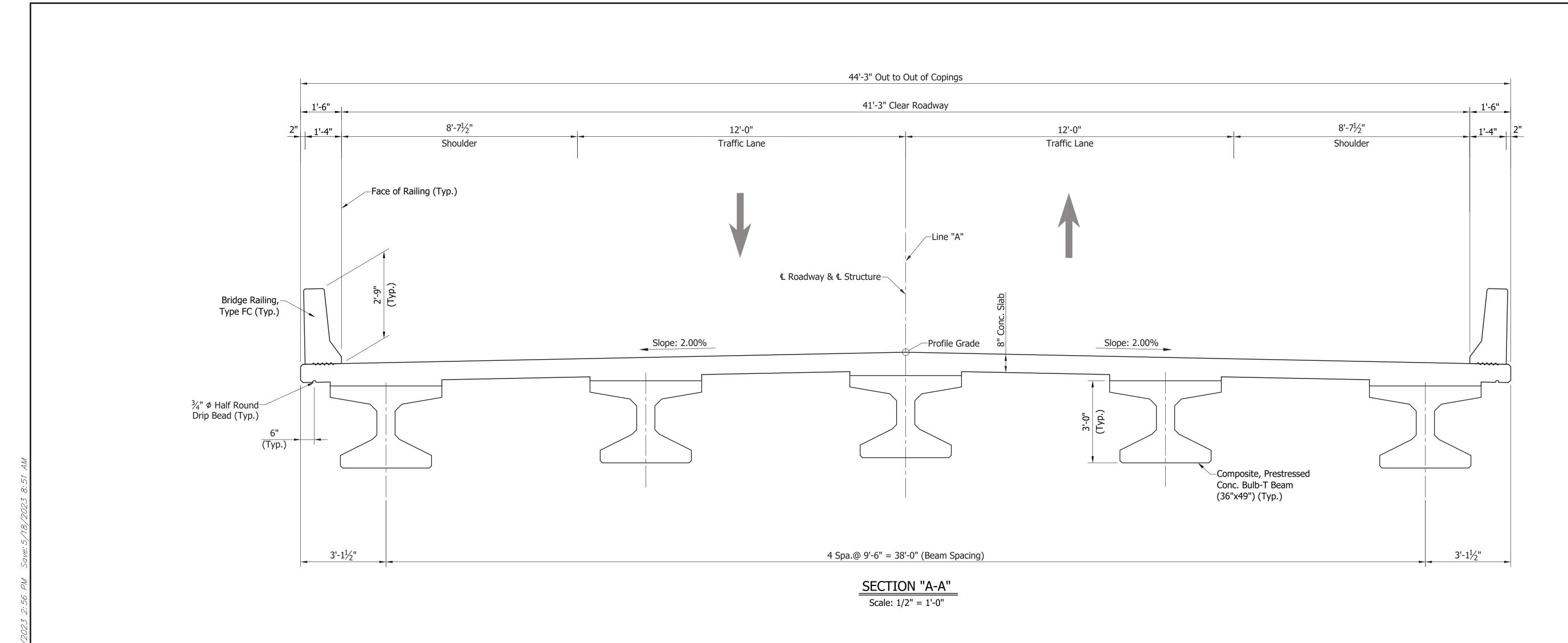












GENERAL NOTES

Epoxy coated reinforcing bars shall be required in various portions of the structure as shown.

Reinforcing bars covering shall be $2\frac{1}{2}$ " in top of approach slabs.

Reinforcing bars covering shall be $2\frac{1}{2}$ " in top and 1" in bottom of floor slabs and 2" in all other areas unless noted.

Reinforcing bars shall be A.S.T.M. A615, Grade 60.

Concrete shall be Class C in end bents and floor slab.

Concrete shall be Class A in all portions of the project not noted above.

Chamfer exposed corners of concrete 1" unless noted.

As an alternative, permanent metal deck forms may be utilized.

nd floor slab. <u>FLOOR SLAB:</u>

LIVE LOAD:

DEAD LOAD:

SEAT ELEVATIONS

Designed with a structural depth of $7\frac{1}{2}$ " plus $\frac{1}{2}$ " sacrificial wearing surface.

All bridge seat elevations were calculated using design camber of beams, dead load deflection of slab and, where applicable, an allowance for Profile Grade Vertical curve and beam notches so that the top of beam will be 3/4" minimum below the bottom of slab at the center of span unless otherwise noted on the floor details.

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"

DESIGN DATA MATERIAL DESIGN STRENGTHS:

Designed for HL-93 loading, in accordance with the AASHTO LRFD Bridge

Class "C" Concrete
Design Specifications, 9th Edition, 2020 and its subsequent revisions.

Class "A" Concrete

SEISMIC DESIGN DATA:

Actual weight plus 35 psf (composite) for future wearing surface and 15 psf
for permanent metal deck forms.

Seismic Performance Zone TBD
Acceleration Coefficient TBD

WIND LOAD:

Designed for 70 mph horizontal wind load in accordance with LRFD 3.8.1.

TBD

Reinforcing Steel (Grade 60) Fy = 60,000 p.s.i.

F'c = 4,000 p.s.i.

F'c = 3,500 p.s.i.

CONSTRUCTION LOADING:

Seismic Soil Profile Type

The exterior girder has been checked for strength, deflection, and overturning using the construction loads shown. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. Finishing machine was assumed to be supported 6 in. outside the vertical coping form. The top overhang brackets were assumed to be located 6 in. past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

DESIGN STRESSES

Designed for 15 psf for permanent metal stay-in-place deck forms, removable deck forms, and 2 ft. exterior walkway.

CONSTRUCTION LIVE LOAD:

DECK FALSEWORK LOADS:

Designed for 20 psf extending 2 ft. past the edge of coping and 75 lb/ft vertical force applied at a distance of 6 in. outside the face of coping over a 30 foot length of the deck centered with the finishing machine.

FINISHING-MACHINE LOAD:

4500 lb distributed over 10 ft. along the coping.

DECOMMEND				TAIDTANIA	HORIZONTAL SCALE	BRIDGE FILE]
RECOMMENDED FOR APPROVAL:		PROVAL:		INDIANA	85-00143]	
				DEPARTMENT OF TRANSPORTATION	VERTICAL SCALE	DESIGNATION] 2/2
	DESIGN E	DESIGN ENGINEER DATE		DELITATION TRANSPORTING	N/A	2003065	9
DECICNED	Q. O'BRIEN	DD ALA/AL	K. COFFMAN		SURVEY BOOK	SHEET	
DESIGNED:	Q. O DRILIN	DRAWN:	R. COLLINAN	GENERAL PLAN - TYPICAL SECTION	ELECTRONIC	20 OF 28] . [
CLIECKED	B. BUTZ	CLIECKED	B. BUTZ	GLINLINAL FLAIN - ITPICAL SECTION	CONTRACT	PROJECT]
CHECKED:	D. DUIZ	CHECKED:	D. DOTZ		B-43610	2003065	K

Appendix C Early Coordination

8450 Westfield Blvd, Suite 300 Indianapolis, IN 46240 317.713.4615 bfsengr.com



INDIANAPOLIS | LAFAYETTE | MERRILLVILLE FORT WAYNE | PLAINFIELD | SOUTH BEND | LOUISVILLE

April 10, 2023

Elizabet Biggio Butler, Fairman, & Seufert, Inc. 8450 Westfield Blvd., Suite 300 Indianapolis, IN 46240 ebiggio@bfsengr.com

Re: Early Coordination Letter, Des. No.: 2003065, Wabash County Bridge 143 carrying County Road 1050 South over Grant Creek, Wabash County, Indiana

Dear Interested Agency:

The Wabash County Commissioners and the Federal Highway Administration (FHWA) intend to proceed with a project involving the aforementioned bridge in Wabash County. This letter is part of the early coordination phase of the environmental review process. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. **Please use the above designation number and description in your reply.** We will incorporate your comments into a study of the project's environmental impacts.

This project is located on County Road 1050 North over Grant Creek, approximately 1.2 miles west of La Fontaine in Wabash County. Indiana. Wabash County Bridge 143 is a c. 1960 three-span concrete channel beam bridge. The bridge is approximately 67.5 feet long with a clear roadway width of 24.6 feet. It carries two 11.5-foot lanes of traffic with 1-foot curbs and is on a 30-degree skew. County Road 1050 North is a two lane Local Road and has a clear roadway width of 18 feet.

The need for the project derives from the condition of the bridge, particularly the substructure, which was given a condition rating of 4 (out of 9) or "poor" in the May 17, 2022 Bridge Inspection Report. The purpose of the project is to provide an improved crossing of Grant Creek.

The proposed project will replace Wabash Co. Bridge 143. The new bridge will be a single span, approximately 92.33 feet long. The out to out coping will be approximately 44.25 feet. The bridge will carry two 12-foot lanes of traffic with 8.63-foot shoulders. Riprap will be installed. In order to construct the bridge one side at a time, use of a causeway and temporary road widening is anticipated. CR 1050 dead-ends to the west of the project area, and Wabash Co. Bridge 143 provides the only access to the properties west of Grant Creek.

CR 1050 North will retain its straight horizontal alignment. The total project length will be approximately (0.25 mile) long. Approximately 2.1 acres of permanent and 0.6 acre of temporary right-of-way acquisition will be required. The maximum depth of excavation for the installation of the new bridge, channel clearing, and benching will be approximately 6 feet. Approximately 0.9 acre of tree clearing is required. Construction is anticipated to begin in the Fall of 2025.

The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to "Using the USFWS's Information for Planning and Consultation (IPaC) System for Listed Bat Consultation for INDOT Projects". Butler, Fairman, & Seufert, Inc. will perform waters and wetlands determinations and a biological assessment to identify any ecological resources that may be present. Butler, Fairman, & Seufert, Inc. will also investigate the areas of additional right-of-way for archaeological and historic resources for Section 106



compliance. The results of this investigation will be forwarded to the State Historic Preservation Officer (SHPO) for review and concurrence.

Should we not receive your response within thirty (30) calendar days from the date of this letter, it will be assumed that your agency feels that there will be no adverse effects incurred as a result of the proposed project. However, should you find that an extension to the response time is necessary, a reasonable amount may be granted upon request. If you have any questions regarding this matter, please feel free to contact Elizabet Biggio at ebiggio@bfsengr.com or (317) 713-4616, or 8450 Westfield Blvd, Suite 300, Indianapolis, IN 46240. Alternatively, you may contact Phil Adams, Wabash County Employee in Responsible Charge (ERC), at 260-563-2091 or padams@wabashcounty.in.gov. Thank you in advance for your input.

On behalf of INDOT, Butler, Fairman, & Seufert,

Elizabet Biggio Architectural Historian II

Enclosures:

USGS La Fontaine Quadrangle Map Aerial Map Site Photographs Photo Key

C:

Federal Highway Administration, Indiana Division
INDOT Fort Wayne District
Midwest Regional Environmental Coordinator, National Park Service
Indiana Geological and Water Survey
Indiana Department of Natural Resources Division of Fish and Wildlife
Indiana Department of Natural Resources Oil and Gas Division
Chicago Regional Office, US Department of Housing & Urban
Development Natural Resources Conservation Service
U.S. Army Corps of Engineers Louisville District
Wabash County Commissioners
Wabash County Council
Wabash County Surveyor



Organization and Project Information

Project ID: 6778

Des. ID: 2003065

Project Title: Wabash Co. Bridge 143 Name of Organization: Butler, Fairman, & Seufter

Requested by: Elizabet Biggio

Environmental Assessment Report

- 1. Geological Hazards:
 - Moderate liquefaction potential
 - 1% Annual Chance Flood Hazard
- 2. Mineral Resources:
 - Bedrock Resource: High Potential
 - Sand and Gravel Resource: High Potential
- 3. Active or abandoned mineral resources extraction sites:
 - Petroleum Exploration Wells

DISCLAIMER:

This document was compiled by Indiana University, Indiana Geological Survey, using data believed to be accurate; however, a degree of error is inherent in all data. This product is distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of these data and document to define the limits or jurisdiction of any federal, state, or local government. The data used to assemble this document are intended for use only at the published scale of the source data or smaller (see the metadata links below) and are for reference purposes only. They are not to be construed as a legal document or survey instrument. A detailed on-the-ground survey and historical analysis of a single site may differ from these data and this document.

This information was furnished by Indiana Geological Survey

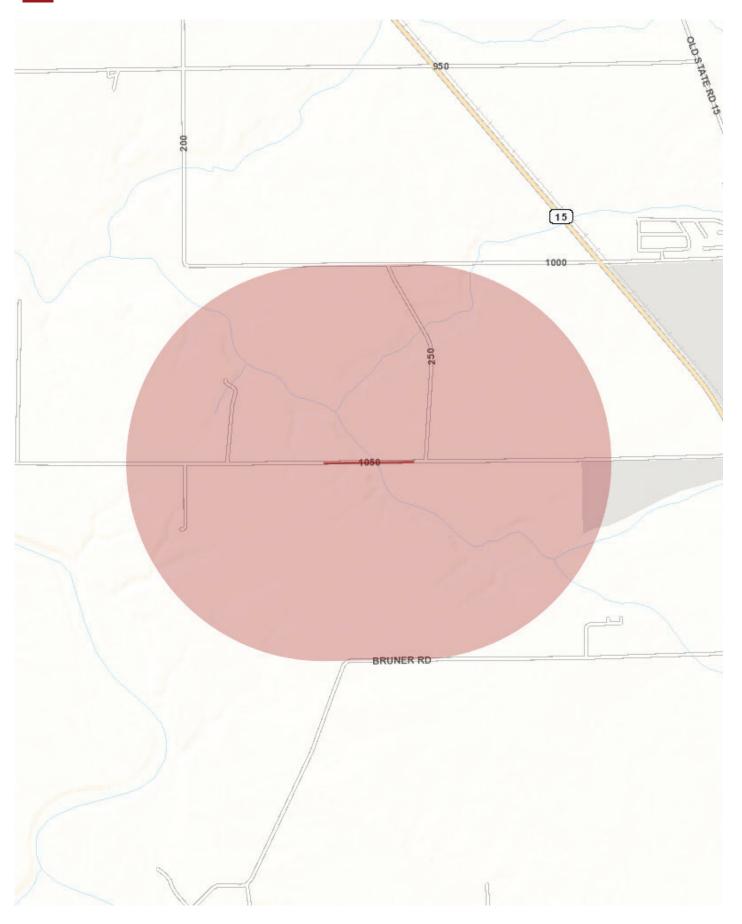
Address: 1001 E. 10th St., Bloomington, IN 47405

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428 Date: April 10, 2023

^{*}All map layers from Indiana Map (maps.indiana.edu)







Metadata:

- https://igws.indiana.edu/pdms/
- https://portal.igs.indiana.edu/arcgis/rest/services/Industrial_Minerals_SandAndGravel_Resources/MapServer/info/metadata/metadata.xml?format=default&output=html
- $\bullet \ https://portal.igs.indiana.edu/arcgis/rest/services/Bedrock_Geology//MapServer/info/metadata/metadata.xml?format=default&output=html=final-final$

Elizabet Biggio

From: McCloskey, Elizabeth <elizabeth_mccloskey@fws.gov>

Sent: Monday, April 24, 2023 2:08 PM

To: Elizabet Biggio

Subject: Re: [EXTERNAL] FHWA Project; INDOT Des 2003065; Wabash Co. Bridge 143 Early Coordination

Letter

Good afternoon, because the proposed project will have minor impacts on natural resources, and no Federally listed endangered species are known to be present, the U.S. Fish and Wildlife Service will not be providing a comment letter.

Elizabeth McCloskey U.S. Fish and Wildlife Service Northern Indiana Suboffice Ecological Services Chesterton, Indiana

THIS IS NOT A PERMIT

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife

Early Coordination/Environmental Assessment

DNR#: ER-25532

Request Received: April 10, 2023

Requestor:

Elizabet Biggio Butler Fairman and Seufert Inc 8450 Westfield Boulevard, Suite 300 Indianapolis, IN 46240

Project:

CR 1050 South bridge (#143) replacement over Grant Creek, 1.2 miles west of La Fontaine; Des #2003065

County/Site Info: Wabash County

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

If our agency has regulatory jurisdiction over the project, the recommendations contained in this letter may become requirements of any permit issued. If we do not have permitting authority, all recommendations are voluntary.

Regulatory Assessment:

This proposal will require the formal approval of our agency for construction in a floodway pursuant to the Flood Control Act (IC 14-28-1), unless it qualifies for a bridge exemption (see enclosure). Please include a copy of this letter with the permit application if the project does not meet the bridge exemption criteria.

Natural Heritage Database:

The Natural Heritage Program's data have been checked. To date, no plant or animal species listed as state or federally threatened, endangered, or rare have been reported to occur in the project vicinity.

Fish and Wildlife Comments:

Avoid and minimize impacts to fish, wildlife, and botanical resources to the greatest extent possible, and compensate for impacts. The following are recommendations that address potential impacts identified in the proposed project area:

A) Wildlife Passage and Crossing Structures:

Maintaining or improving fish and wildlife passage at existing and proposed crossings is a priority for the Division of Fish and Wildlife (DFW) to reduce wildlife mortality along roadways. The DFW has outlined different requirements for different types of crossing structure impacts. For brand new crossings in areas that currently do not have a crossing, the new structure must accommodate white-tailed deer passage where appropriate. Minimum structure dimensions for white-tailed deer passage are 20 feet of width clearance (overall size of the structure span) and 8 feet of height clearance measured from the OHWM to the low chord elevation and where deer passage is provided. For crossing replacements, the new structure must include wildlife passage appropriate for the type of replacement structure being proposed. If the existing structure is sized to accommodate white-tailed deer passage then it should be included in the design of the new structure. If white-tailed deer passage is not possible with the existing structure, deer passage still needs to be considered in the design and at minimum the bank lines must be restored within structures to allow for smaller wildlife passage

above the ordinary high water mark. All wildlife passage designs must include a smooth level pathway preferably 3 feet wide but a minimum of 1-2 feet in width composed of natural substrate (soil, sand, gravel, etc.) or compacted aggregate fill over riprap (#2, #53, #73, etc.) tied into existing elevations both upstream and downstream. The stream crossing repairs or modifications, and any bank stabilization under or around the structure, must not create conditions that are less favorable for wildlife passage when compared to existing conditions. Upgrading wildlife passage for rehabilitated/modified structures is encouraged whenever possible to improve wildlife/vehicle safety.

B) Bank Stabilization:

There are numerous bank stabilization techniques available which fall under hard or soft armoring. While hard armoring alone (e.g., riprap, glacial stone) may be required in certain instances, soft armoring and bioengineering techniques should be considered first. Establishing vegetation along the banks is critical for stabilization and erosion control. A variety of methods to accomplish this include: planting plugs, whips, container stock, seeding, and live stakes. In addition to vegetation establishment, floodway construction projects often require some level of bank stabilization. Combining vegetation with any of the following bank stabilization methods can provide additional bank protection while not compromising the benefits to fish, wildlife, and botanical resources: geotextiles (erosion control blankets, turf reinforcement mats; biodegradable preferred), vegetated geogrids or soil lifts, glacial stone, fiber rolls, or riprap. The following is a link to a USDA / NRCS website that outlines many different bioengineering techniques for streambank stabilization: http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17553.wba

C) Riparian Habitat:

We recommend a mitigation plan be developed (and submitted with the permit application, if required) for any unavoidable habitat impacts that will occur. The DNR's Habitat Mitigation Guidelines (and plant lists) can be found online at: https://www.in.gov/nrc/files/IB-17.pdf.

Impacts to non-wetland forest of one (1) acre or more in a rural or urban area should be mitigated at a minimum 2:1 ratio based on area of impact. Impacts to non-wetland forest under one (1) acre but at least 0.10 acre in a rural or urban area should be mitigated at a minimum 1:1 ratio based on area of impact. Impacts under 0.10 acre in a rural area typically do not require mitigation or additional plantings beyond seeding and stabilizing disturbed areas, though there are exceptions for high quality habitat sites. Impacts under 0.10 acre in an urban area should be mitigated by replacing trees that are 10" diameter-at-breast height (dbh) or greater by planting five trees, 1" to 2" in dbh, for each tree which is removed that is 10" dbh or greater. Seeding and stabilizing disturbed areas is required regardless of the impact amount and location. If floodway impacts to forested wetland and non-wetland habitat areas combine to be 0.10 acres or more, mitigation should be done and coordinated with the biologist, as needed.

The additional measures listed below should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources:

- 1. Revegetate all bare and disturbed areas with a mixture of grasses (excluding all varieties of tall fescue), legumes, and native shrub and hardwood tree species as soon as possible upon completion.
- 2. Minimize and contain within the project limits in-channel disturbance and the clearing of trees and brush.
- 3. Do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife. If possible, avoid removing sediment from May-October to prevent disturbance of turtle nests.
- 4. Do not cut any trees suitable for Indiana Bat or Northern Long-eared Bat roosting (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
- 5. Do not excavate in the low flow area except for the placement of piers, foundations, and riprap, or removal of the old structure. Maintain the natural shape of the channel.
- 6. Leave in place or cut at the waterline any fallen trees, roots, logs, and/or stumps that are anchored or embedded in the bank or bottom of the waterway.
- 7. All excavated material must be properly spread or completely removed from the project site such that erosion and off-site sedimentation of the material is prevented.
- 8. Minimize the movement of resuspended bottom sediment from the immediate project area.

- 9. Do not deposit or allow construction/demolition materials or debris to fall or otherwise enter the waterway. Any incidental fallen material or debris in the waterway must be removed within 24 hours using best management practices, particularly lifting material out of the waterway and not dragging it across the streambed whenever possible.
- 10. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the waterbody or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
- 11. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.
- 12. Do not excavate or place fill in any riparian wetland.

Contact Staff:

Our agency appreciates this opportunity to be of service. Please contact me at mbuffington@dnr.in.gov or (317) 233-4666 if we can be of further assistance.

Date: May 10, 2023

<u>Matt Buffington</u>

Matt Buffington
Environmental Unit Supervisor
Division of Fish and Wildlife



Farm Production and Conservation Natural Resources Conservation Service Indiana State Office 6013 Lakeside Boulevard Indianapolis, Indiana 46278 317-295-5800

May 31, 2023

Elizabet Biggio Butler, Fairman & Seufert 8450 Westfield Boulevard, Suite 300 Indianapolis, Indiana 46240

Dear Ms. Biggio:

The proposed Wabash Co. Bridge 143 project in Wabash County, Indiana, (Des. No. 2003065) as referred to in your letter received May 24, 2023, will cause a conversion of prime farmland.

The attached packet of information is for your use competing Parts VI and VII of the AD-1006. After completion, the federal funding agency needs to forward one copy to NRCS for our records.

If you need additional information, please contact John Allen at 317-295-5859 or john.allen@usda.gov.

Sincerely,

JOHN ALLEN

Digitally signed by JOHN ALLEN Date: 2023.05.31 11:51:24 -04'00'

JOHN ALLEN State Soil Scientist

Enclosures

FA	U.S. Departmen			ATING					
PART I (To be completed by Federal Agency)			Date Of Land Evaluation Request						
Name of Project DES2003065_Wabas	Federal Agency Involved								
Proposed Land Use	County a	and State Waba	ısh County,	Indiana					
PART II (To be completed by NRCS)		Date Re	quest Received	Ву	Person C	ompleting For	m:		
Does the site contain Prime, Unique, Statewid (If no, the FPPA does not apply - do not comp	·	? ,	YES NO	Acres Ir	rigated				
Major Crop(s)	Farmable Land In Govt.			Amount of F	armland As	Defined in FP	DDΔ		
Corn	Acres: 250263 % 93		·	Acres: 21					
Name of Land Evaluation System Used LESA	Name of State or Local S	ite Assess	sment System			eturned by NF	RCS		
PART III (To be completed by Federal Agency	/)					Site Rating			
A. Total Acres To Be Converted Directly	,			Site A	Site B	Site C	Site D		
B. Total Acres To Be Converted Indirectly									
C. Total Acres In Site									
PART IV (To be completed by NRCS) Land B	Evaluation Information								
A. Total Acres Prime And Unique Farmland				1.48					
B. Total Acres Statewide Important or Local In	nportant Farmland			0.00					
C. Percentage Of Farmland in County Or Loca				<0.001					
D. Percentage Of Farmland in Govt. Jurisdiction		ve Value		86					
PART V (To be completed by NRCS) Land E	valuation Criterion			66					
Relative Value of Farmland To Be Con- PART VI (To be completed by Federal Agenc (Criteria are explained in 7 CFR 658.5 b. For Co	y) Site Assessment Criteria	,	Maximum Points	Site A	Site B	Site C	Site D		
Area In Non-urban Use	maer project ace form rin tee	<u> </u>	(15)	15					
2. Perimeter In Non-urban Use			(10)	10					
3. Percent Of Site Being Farmed			(20)	10					
4. Protection Provided By State and Local Go	vernment		(20)	0					
5. Distance From Urban Built-up Area			(15)	10					
6. Distance To Urban Support Services			(15)	15					
7. Size Of Present Farm Unit Compared To A	verage		(10)	10					
8. Creation Of Non-farmable Farmland			(10)	0					
9. Availability Of Farm Support Services			(5)	5					
10. On-Farm Investments			(20)	0					
11. Effects Of Conversion On Farm Support S	ervices		(10)	0					
12. Compatibility With Existing Agricultural Us	e		(10)	0					
TOTAL SITE ASSESSMENT POINTS			160	75	0	0	0		
PART VII (To be completed by Federal Age	ency)								
Relative Value Of Farmland (From Part V)			100	66	0	0	0		
Total Site Assessment (From Part VI above or	local site assessment)		160	75	0	0	0		
TOTAL POINTS (Total of above 2 lines)			260	141	O L Sito Acces	0	0		
Site Selected: A Date Of Selection June 1, 2023 Was A Local Site Assessr YES Output Date Of Selection June 1, 2023						NO V			
Reason For Selection:									
No significant impacts to prime	farmland								
Name of Federal agency representative comple	ting this form: Elizabet B	iaaio			Da	ate: June	1, 2023		



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office 620 South Walker Street Bloomington, IN 47403-2121 Phone: (812) 334-4261 Fax: (812) 334-4273

In Reply Refer To: April 27, 2023

Project Code: 2023-0064640

Project Name: Wabash Co. Bridge No. 143 carrying CR 1050 South over Grant Creek, Wabash

Co, IN; Des 2003065

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at - http://www.fws.gov/midwest/endangered/section7/

s7process/index.html. This website contains step-by-step instructions which will help you determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process. For all wind energy projects and projects that include installing towers that use guy wires or are over 200 feet in height, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of

Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Indiana Ecological Services Field Office 620 South Walker Street Bloomington, IN 47403-2121 (812) 334-4261

PROJECT SUMMARY

Project Code: 2023-0064640

Project Name: Wabash Co. Bridge No. 143 carrying CR 1050 South over Grant Creek,

Wabash Co, IN; Des 2003065

Project Type: Bridge - Replacement

Project Description: Wabash County proposes the replacement of Wabash County Bridge No.

143 carrying CR 1050 South over Grant Creek on the existing alignment.

The existing bridge is is a three-span concrete channel structure,

approximately 67.5 feet long with a clear roadway width of 24.6 feet. The new bridge will be a single span, approximately 92.33 feet long. The out to out coping will be approximately 44.25 feet. The bridge will carry two

12-foot lanes of traffic with 8.63-foot shoulders. Bridge railing

approximately 2.75 feet high will be mounted on both sides of the bridge. Riprap will be installed. In order to construct the bridge one side at a time, use of a causeway and temporary road widening is anticipated. CR 1050 dead-ends to the west of the project area, and Wabash Co. Bridge 143 provides the only access to the properties west of Grant Creek. Land use

in the area is forested, residential, and agricultural.

The total project length is approximately 0.25 mile. Approximately 2.1 acres of permanent and 0.6 acre of temporary right-of-way acquisition will be required. The maximum depth of excavation for the installation of the new bridge, channel clearing, and benching will be approximately 6 feet. Construction is anticipated to begin in the Fall of 2025.

Suitable summer bat habitat is located adjacent to the project area. Wabash County Bridge No. 143 was inspected on inspected on April 19, 2023, and no bats or signs thereof were present. Approximately 0.9 acre of tree clearing is expected. The majority of these street trees are sugar maple (Acer saccharum), Hackberry (Celtis occidentalis), or black walnut (Juglans nigra). A review of the USFWS database on May 24, 2022 did not indicate the presence of endangered bat species in or within 0.5 mile of the project area.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@40.6740264,-85.74382981690046,14z



Counties: Wabash County, Indiana

ENDANGERED SPECIES ACT SPECIES

There is a total of 5 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515 BIRDS	Proposed Endangered
NAME	STATUS
Whooping Crane <i>Grus americana</i> Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/758	Experimental Population, Non- Essential

INSECTS

NAME

Monarch Butterfly Danaus plexippus

Candidate

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office 620 South Walker Street Bloomington, IN 47403-2121 Phone: (812) 334-4261 Fax: (812) 334-4273

In Reply Refer To: June 16, 2023

Project code: 2023-0064640

Project Name: Wabash Co. Bridge 143; Bridge Project, Wabash Co, IN; Des 2003065

Subject: Concurrence verification letter for the 'Wabash Co. Bridge 143; Bridge Project,

Wabash Co, IN; Des 2003065' project under the amended February 5, 2018, FHWA,

FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) for

Transportation Projects within the Range of the Indiana Bat and Northern Long-eared

Bat (NLEB).

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request dated June 16, 2023 to verify that the **Wabash Co. Bridge 143**; **Bridge Project, Wabash Co, IN**; **Des 2003065** (Proposed Action) may rely on the concurrence provided in the amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, and may affect, but is <u>not likely to adversely affect</u> (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the endangered northern long-eared bat (*Myotis septentrionalis*). Consultation with the Service pursuant to section 7(a)(2) of ESA (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required.

The Service has 14 calendar days to notify the lead Federal action agency or designated non-federal representative if we determine that the Proposed Action does not meet the criteria for a NLAA determination under the PBO. If we do <u>not</u> notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Proposed Action under the terms of the NLAA concurrence provided in the PBO. This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may identify a small subset of actions having impacts that were unanticipated. In such instances,

Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO.

For Proposed Actions that include bridge/culvert or structure removal, replacement, and/or maintenance activities: If your initial bridge/culvert or structure assessment documented signs of bat use or occupancy, or an assessment failed to detect Indiana bats and/or NLEBs, yet are later detected prior to, or during construction, please submit the Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form (User Guide Appendix E) to this Service Office within 2 working days of any potential take. In these instances, potential incidental take of Indiana bats and/or NLEBs is covered under the Incidental Take Statement in the 2018 FHWA, FRA, FTA PBO (provided that the take is reported to the Service).

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required.

For Proposed Actions that include bridge/culvert or structure removal, replacement, and/or maintenance activities:

If your initial bridge/culvert or structure assessments failed to detect Indiana bats and/or NLEB use or occupancy, yet bats are later detected prior to, or during construction, please submit the Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form (User Guide Appendix E) to this Service Office within 2 working days of the incident. In these instances, potential incidental take of Indiana bats and/or NLEBs may be exempted provided that the take is reported to the Service.

If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation between the lead Federal action agency and this Service Office is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

The following species may occur in your project area and **are not** covered by this determination:

- Monarch Butterfly *Danaus plexippus* Candidate
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered
- Whooping Crane *Grus americana* Experimental Population, Non-Essential

PROJECT DESCRIPTION

The following project name and description was collected in IPaC as part of the endangered species review process.

NAME

Wabash Co. Bridge 143; Bridge Project, Wabash Co, IN; Des 2003065

DESCRIPTION

Wabash County proposes the replacement of Wabash County Bridge No. 143 carrying CR 1050 South over Grant Creek on the existing alignment. The existing bridge is is a three-span concrete channel structure, approximately 67.5 feet long with a clear roadway width of 24.6 feet. The new bridge will be a single span, approximately 92.33 feet long. The out to out coping will be approximately 44.25 feet. The bridge will carry two 12-foot lanes of traffic with 8.63-foot shoulders. Bridge railing approximately 2.75 feet high will be mounted on both sides of the bridge. Riprap will be installed. In order to construct the bridge one side at a time, use of a causeway and temporary road widening is anticipated. CR 1050 dead-ends to the west of the project area, and Wabash Co. Bridge 143 provides the only access to the properties west of Grant Creek. Land use in the area is forested, residential, and agricultural.

The total project length is approximately 0.19 mile. Approximately 2.1 acres of permanent and 0.9 acre of temporary right-of-way acquisition will be required. The maximum depth of excavation for the installation of the new bridge, channel clearing, and benching will be approximately 6 feet. Construction is anticipated to begin in the Fall of 2025. No permeant lighting will be installed. Temporary lighting may be utilized during construction.

Suitable summer bat habitat is located within the project area. Wabash County Bridge No. 143 was inspected on inspected on April 19, 2023, and no bats or signs thereof were present. Approximately 0.9 acre of tree clearing is expected from within 100 feet of the existing road during the inactive bat season. The majority of these street trees are sugar maple (Acer saccharum), Hackberry (Celtis occidentalis), or black walnut (Juglans nigra). A review of the USFWS database on May 24, 2022 did not indicate the presence of endangered bat species in or within 0.5 mile of the project area.

DETERMINATION KEY RESULT

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the endangered Indiana bat and/or the endangered northern long-eared bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

QUALIFICATION INTERVIEW

- 1. Is the project within the range of the Indiana bat^[1]?
 - [1] See Indiana bat species profile

Automatically answered

Yes

- 2. Is the project within the range of the northern long-eared bat^[1]?
 - [1] See northern long-eared bat species profile

Automatically answered

Yes

- 3. Which Federal Agency is the lead for the action?
 - A) Federal Highway Administration (FHWA)
- 4. Are *all* project activities limited to non-construction^[1] activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)
 - [1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting. No
- 5. Does the project include *any* activities that are **greater than** 300 feet from existing road/rail surfaces^[1]?
 - [1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

No

- 6. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum^[1]?
 - [1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

- 7. Is the project located **within** a karst area? *No*
- 8. Is there *any* suitable^[1] summer habitat for Indiana Bat or NLEB **within** the project action area^[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)
 - [1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat.
 - [2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the <u>User's Guide for the Range-wide Programmatic Consultation for Indiana Bat and Northern Long-eared Bat.</u>

Yes

- 9. Will the project remove *any* suitable summer habitat^[1] and/or remove/trim any existing trees **within** suitable summer habitat?
 - [1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat. *Yes*
- 10. Will the project clear more than 20 acres of suitable habitat per 5-mile section of road/rail? *No*
- 11. Have presence/probable absence (P/A) summer surveys^{[1][2]} been conducted^{[3][4]} **within** the suitable habitat located within your project action area?
 - [1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat.
 - [2] Presence/probable absence summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate distance from hibernacula) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.
 - [3] For projects within the range of either the Indiana bat or NLEB in which suitable habitat is present, and no bat surveys have been conducted, the transportation agency will assume presence of the appropriate species. This assumption of presence should be based upon the presence of suitable habitat and the capability of bats to occupy it because of their mobility.
 - [4] Negative presence/probable absence survey results obtained using the <u>summer survey guidance</u> are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

- 12. Does the project include activities within documented Indiana bat habitat^{[1][2]}?
 - [1] Documented roosting or foraging habitat for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)
 - [2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

13. Will the removal or trimming of habitat or trees occur **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors?

Yes

- 14. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors occur^[1]?
 - [1] Coordinate with the local Service Field Office for appropriate dates.
 - B) During the inactive season
- 15. Does the project include activities within documented NLEB habitat^{[1][2]}?
 - [1] Documented roosting or foraging habitat for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)
 - [2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

16. Will the removal or trimming of habitat or trees occur **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors?

Yes

- 17. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors occur?
 - *B)* During the inactive season
- 18. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces? *Yes*
- 19. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

20. Are *all* trees that are being removed clearly demarcated?

Yes

21. Will the removal of habitat or the removal/trimming of trees include installing new or replacing existing **permanent** lighting?

No

22. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?

No

23. Does the project include slash pile burning?

No

- 24. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)?

 Yes
- 25. Is there *any* suitable habitat^[1] for Indiana bat or NLEB **within** 1,000 feet of the bridge? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)
 - [1] See the Service's current <u>summer survey guidance</u> for our current definitions of suitable habitat. *Yes*
- 26. Has a bridge assessment^[1] been conducted **within** the last 24 months^[2] to determine if the bridge is being used by bats?
 - [1] See <u>User Guide Appendix D</u> for bridge/structure assessment guidance
 - [2] Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges that meet the physical characteristics described in the Programmatic Consultation, regardless of whether assessments have been conducted in the past. Due to the transitory nature of bat use, a negative result in one year does not guarantee that bats will not use that bridge/structure in subsequent years.

Yes

SUBMITTED DOCUMENTS

Bridge Culvert Bat Assessment Form April 2020 - fillable.pdf https://ipac.ecosphere.fws.gov/project/LW5OUEQERZDR3BNPZFCJDUWAJM/projectDocuments/125665343

- 27. Did the bridge assessment detect *any* signs of Indiana bats and/or NLEBs roosting in/under the bridge (bats, guano, etc.)^[1]?
 - [1] If bridge assessment detects signs of *any* species of bats, coordination with the local FWS office is needed to identify potential threatened or endangered bat species. Additional studies may be undertaken to try to identify which bat species may be utilizing the bridge prior to allowing *any* work to proceed.

Note: There is a small chance bridge assessments for bat occupancy do not detect bats. Should a small number of bats be observed roosting on a bridge just prior to or during construction, such that take is likely to occur or does occur in the form of harassment, injury or death, the PBO requires the action agency to report the take. Report all unanticipated take within 2 working days of the incident to the USFWS. Construction activities may continue without delay provided the take is reported to the USFWS and is limited to 5 bats per project.

No

28. Will the bridge removal, replacement, and/or maintenance activities include installing new or replacing existing **permanent** lighting?

No

29. Does the project include the removal, replacement, and/or maintenance of *any* structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.)

No

30. Will the project involve the use of **temporary** lighting *during* the active season?

31. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **temporary** lighting will be used?

Yes

32. Will the project install new or replace existing **permanent** lighting?

No

33. Does the project include percussives or other activities (**not including tree removal**/ **trimming or bridge**/**structure work**) that will increase noise levels above existing traffic/ background levels?

No

34. Are *all* project activities that are **not associated with** habitat removal, tree removal/ trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives, limited to actions that DO NOT cause any additional stressors to the bat species?

Examples: lining roadways, unlighted signage, rail road crossing signals, signal lighting, and minor road repair such as asphalt fill of potholes, etc.

Yes

35. Will the project raise the road profile **above the tree canopy**?

36. Are the project activities that are not associated with habitat removal, tree removal/ trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives consistent with a No Effect determination in this key?

Automatically answered

Yes, other project activities are limited to actions that DO NOT cause any additional stressors to the bat species as described in the BA/BO

37. Is the habitat removal portion of this project consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because the tree removal/trimming that occurs outside of the Indiana bat's active season occurs greater than 0.5 miles from the nearest hibernaculum, is less than 100 feet from the existing road/rail surface, includes clear demarcation of the trees that are to be removed, and does not alter documented roosts and/or surrounding summer habitat within 0.25 miles of a documented roost.

38. Is the habitat removal portion of this project consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because the tree removal/trimming that occurs outside of the NLEB's active season occurs greater than 0.5 miles from the nearest hibernaculum, is less than 100 feet from the existing road/rail surface, includes clear demarcation of the trees that are to be removed, and does not alter documented roosts and/or surrounding summer habitat within 0.25 miles of a documented roost.

39. Is the bridge removal, replacement, or maintenance activities portion of this project consistent with a No Effect determination in this key?

Automatically answered

Yes, because the bridge has been assessed using the criteria documented in the BA and no signs of bats were detected

40. General AMM 1

Will the project ensure *all* operators, employees, and contractors working in areas of known or presumed bat habitat are aware of *all* FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable Avoidance and Minimization Measures?

Yes

41. Tree Removal AMM 1

Can *all* phases/aspects of the project (e.g., temporary work areas, alignments) be modified, to the extent practicable, to avoid tree removal^[1] in excess of what is required to implement the project safely?

Note: Tree Removal AMM 1 is a minimization measure, the full implementation of which may not always be practicable. Projects may still be NLAA as long as Tree Removal AMMs 2, 3, and 4 are implemented and LAA as long as Tree Removal AMMs 3, 5, 6, and 7 are implemented.

[1] The word "trees" as used in the AMMs refers to trees that are suitable habitat for each species within their range. See the USFWS' current summer survey guidance for our latest definitions of suitable habitat.

Yes

42. Tree Removal AMM 3

Can tree removal be limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits)?

Yes

43. Tree Removal AMM 4

Can the project avoid cutting down/removal of *all* (1) **documented**^[1] Indiana bat or NLEB roosts^[2] (that are still suitable for roosting), (2) trees **within** 0.25 miles of roosts, and (3) documented foraging habitat any time of year?

- [1] The word documented means habitat where bats have actually been captured and/or tracked.
- [2] Documented roosting or foraging habitat for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

Yes

44. Lighting AMM 1

Will *all* **temporary** lighting be directed away from suitable habitat during the active season?

Yes

PROJECT QUESTIONNAIRE

1. Have you made a No Effect determination for *all* other species indicated on the FWS IPaC generated species list?

N/A

2. Have you made a May Affect determination for *any* other species on the FWS IPaC generated species list?

N/A

- 3. How many acres^[1] of trees are proposed for removal between 0-100 feet of the existing road/rail surface?
 - [1] If described as number of trees, multiply by 0.09 to convert to acreage and enter that number. 0.9
- 4. Please describe the proposed bridge work:

Wabash Co. Bridge 143 will be replaced on the same alignment.

5. Please state the timing of all proposed bridge work:

Fall 2025

6. Please enter the date of the bridge assessment:

April 19, 2023

AVOIDANCE AND MINIMIZATION MEASURES (AMMS)

This determination key result includes the committment to implement the following Avoidance and Minimization Measures (AMMs):

TREE REMOVAL AMM 3

Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits).

TREE REMOVAL AMM 4

Do not remove **documented** Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or

documented foraging habitat any time of year.

GENERAL AMM 1

Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs.

TREE REMOVAL AMM 1

Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal.

LIGHTING AMM 1

Direct temporary lighting away from suitable habitat during the active season.

TREE REMOVAL AMM 2

Apply time of year restrictions for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/rail surface and **outside of documented** roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with <u>no bats observed</u>.

DETERMINATION KEY DESCRIPTION: FHWA, FRA, FTA PROGRAMMATIC CONSULTATION FOR TRANSPORTATION PROJECTS AFFECTING NLEB OR INDIANA BAT

This key was last updated in IPaC on April 03, 2023. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) for the endangered **Indiana bat** (*Myotis sodalis*) and the endangered **northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should <u>only</u> be used to verify project applicability with the Service's <u>February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects</u>. The programmatic biological opinion covers limited transportation activities that may affect either bat species, and addresses situations that are both likely and not likely to adversely affect either bat species. This decision key will assist in identifying the effect of a specific project/activity and applicability of the programmatic consultation. The programmatic biological opinion is <u>not</u> intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.

IPAC USER CONTACT INFORMATION

Agency: Indiana Department of Transportation

Name: Arianna Gill

Address: 5333 Hattfield Road

City: Fort Wayne

State: IN Zip: 46808

Email agill@indot.in.gov

Phone: 2609698262

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

Da of <i>i</i>	te & Time Assessment 4/19/23 10:15am	DOT Project Number 2003065	Ro Ca	oute/Facility arried	₹ 1	050 S		ounty Waba	
Fe Str	<u>deral</u> <u>ucture ID</u> 85-00465	Structure Coordinates (latitude and longitude) 40.674; -85.74429	_	ructure Height pproximate)			St Le	ructure ngth 36 fe	et
St	ructure Type (check one)		St	tructure Mat	eri	al (check al	l th	at apply)	
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	Seasonal water	Other:	X	Woodland/foreste	ed			Other:	
Ar	eas Assessed (check all that ap	oply)							
		present in the structure, check the "not pres	ent	" box.					
Do	cument all bat indicators observed during	g the assessment. Include the species prese	ent,	if known, and p	rovi	de photo docu	mei	ntation as indic	ated.
Ar	ea (check if assessed)	Assessment Notes	E۱	vidence of B	at	s (include pl	not	os if presen	t)
	All crevices and cracks:	Not present	F			•		Audible	Species
	Bridges/culverts: rough surfaces or		L	Visual - live #		dead #		Odor	
X	imperfections in concrete			Guano			L	Photos	_
	Other structures: soffits, rafters, attic		H	Staining			J		
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	and the bridge deck			Guano Staining			┢	Photos	-
	Crack between concrete railings on top	X Not present		Stairing			┢	Audible	Species
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Appendix D Section 106 of the National Historic Preservation Act (NHPA)

SECTION 1

Submittal of this form is only required for projects where Category B applies. Projects qualifying under Category A do not require submittal of this form. SECTION 2 (for Conditions of Category B.1 for curb/sidewalk) or SECTION 3 (for Conditions of Category B.9 for drainage structures) may be required as determined by INDOT-Cultural Resources Office (INDOT-CRO) review. INDOT-CRO will notify applicant if the Minor Projects PA does not apply.

Part 1: Project Information-Completed by Applicant (Consultant/PM/Project Sponsor/INDOT District Staff)*

*A qualified professional historian (QP) is not required to complete Part I INDOT-Cultural Resources Office (INDOT-CRO) staff will be responsible for completion of Part II.

Original Submission Date: April 1, 2023 Amended Submission Date*:

*Consult with INDOT-CRO to determine whether an amendment is required. For revisions/updates to original form, please detail in applicable sections below. Please use red font to distinguish the revisions/updates.

Submitted By (Provide Name and Firm/Organization):

Elizabet Biggio Architectural Historian II Butler, Fairman, & Seufert, Inc. ebiggio@bfsengr.com

Project Designation Number: 2003065

Route Number: County Road 1050 South

Feature crossed (if applicable): Grant Creek

City/Township: Liberty Township County: Wabash County

Project Description:

The Wabash County Board of Commissioners proposes a project involving Wabash Co. Bridge 143 carrying County Road (CR) 1050 South over Grant Creek in Wabash County, Indiana (NBI #8500465). The project is within Liberty Township on the USGS La Fontaine Quadrangle, in Section 28, Township 26 North, Range 7 East.

Wabash County Bridge 143 is a c. 1960 three-span concrete channel beam bridge. The bridge is approximately 67.5 feet long with a clear roadway width of 24.6 feet. It carries two 11.5-foot lanes of traffic with 1-foot shoulders and is on a 30-degree skew. Bridge 134 was determined non-historic in the Indiana Historic Bridge Inventory. CR 1050 South is a two-lane, east-west rural local road. The clear roadway width is 18 feet. The detour length is 3 miles. Land use in the area is forested, agricultural, and residential.

The need for the project derives from the condition of the bridge, particularly the substructure, which was given a condition rating of 4 (out of 9) or "poor" in the May 17, 2022 Bridge Inspection Report. The purpose of the project is to provide an improved crossing of Grant Creek.

The proposed project will replace Wabash Co. Bridge 143. The new bridge will be a single span, approximately 92.33 feet long. The out to out coping will be approximately 44.25 feet. The bridge will carry two 12-foot lanes of traffic with 8.63-foot shoulders. Riprap will be installed. In order to construct the bridge one side at a time, use of a causeway and temporary road widening is anticipated. CR 1050 dead-ends to the west of the project area, and Wabash Co. Bridge 143 provides the only access to the properties west of Grant Creek.

CR 1050 North will retain its straight horizontal alignment. The total project length will be approximately (0.25
mile) long. Approximately 2.1 acres of permanent and 0.6 acre of temporary right-of-way acquisition will be
required. The maximum depth of excavation for the installation of the new bridge, channel clearing, and benching
will be approximately 6 feet. Approximately 0.9 acre of tree clearing will be required. Construction is anticipated
to begin in the Fall of 2025.

If the project includes any curb, curb ramp, or sidewalk work, please specify the location(s) of such work: N/A

For bridge or small structure projects, please list feature crossed, structure number, NBI number, and structure type:

Grant Creek NBI No. 8500465 Structure No. 85-00143 Concrete Beam

For bridge project (<u>https://www.in.go</u>		included in INDOT's His tm)?	toric Bridge Inventory
⊠ Yes		0	
of Historic	•	9 9	le for or listed in the National Register n Historic Bridge Inventory.
☐ Yes		⊠ No	
Inventory P	age #1044_		
Will there be right	-of-way acquis	ition as part of this projec	rt?
⊠ Yes		1 0	
☑ Permanent If applicable, ident	ify right-of-wa much (both te	mporary and permanent)	☐ Reacquisition text below and in attached mapping. and indicate what activities are
Approximately 1.16 a	cres of permanered on all sides of	nt and 0.10 acre of temporary	right-of-way acquisition will be required. nodate the new structure and for construction
Is there <u>any</u> potent as access, staging,		nal temporary right-of-wa	y to be needed later for purposes such
☐ Yes	⊠ N	0	
IND	roposed activit	-	in previously disturbed soils isturbed soils and requires an archaeological

Project takes place in undisturbed soils and the archaeology report is included in submission or will be forthcoming*

* If an archaeology report is required, the Minor Projects PA Form will not be finalized until the report is reviewed and approved by INDOT-CRO. For INDOT-sponsored projects, INDOT-CRO may be able to complete the archaeological investigation. If you would like to request that INDOT-CRO complete an archaeological investigation, please contact the INDOT-CRO archaeology team lead. See CRM Pt. 1 Ch. 3 for current contact information.

Please specify all applicable categories and condition(s) (highlight applicable conditions in yellow)*:

B-12. Replacement, widening, or raising the elevation of the superstructure on existing bridges, and bridge replacement projects (when both the superstructure and substructure are removed), under the following conditions [BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied]:

Condition A (Archaeological Resources)

One of the two conditions listed below must be met (EITHER Condition i or Condition ii must be satisfied):

- i. Work occurs in previously disturbed soils; OR
- Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.

Condition B (Above-Ground Resources)

The conditions listed below must be met (BOTH Condition i and Condition ii must be satisfied)

- i. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; AND
- ii. With regard to the subject bridge, at least one of the conditions listed below is satisfied (AT LEAST one of the conditions a, b or c, must be fulfilled):
 - a. The latest Historic Bridge Inventory identified the bridge as non-historic (see http://www.in.gov/indot/2531.htm);
 - b. The bridge was built after 1945, and is a common type as defined in Section V. of the Program Comment Issued for Streamlining Section 106 Review for Actions Affecting Post-1945 Concrete and Steel Bridges issued by the Advisory Council on Historic Preservation on November 2, 2012 for so long as that Program Comment remains in effect AND the considerations listed in Section IV of the Program Comment do not apply;
 - c. The bridge is part of the Interstate system and was determined not eligible for the National Register under the Section 106 Exemption Regarding Effects to the Interstate Highway System adopted by the Advisory Council on Historic Preservation on March 10, 2005, for so long as that Exemption remains in effect.

Minor Projects PA Project Submittal and Assessment Form Check ☐ if SECTION 2: Minor Projects PA Category B-1, Condition B-ii Submission is included Check ☐ if SECTION 3: Minor Projects PA Category B-9, Condition B-i-c-2 or B-ii-b-3 Submission is included Part II: Completed by INDOT-CRO Amendments will be shown in red font. Information reviewed (please check all that apply): Soil survey data General project area photos \boxtimes Historic Property Reports Indiana Historic Buildings, Bridges, and Cemeteries Map/Interim Report Bridge inspection information/BIAS Historic Bridge Inventory Database Streetview Imagery SHAARD \boxtimes

Connolly, Jocelyn

Other (please specify):

2023 Phase Ia Archaeological Reconnaissance Survey for the Proposed CR E 1050 S over Grant Creek Bridge #143 Project, Wabash County, Indiana (INDOT Des. No. 2003065). Report on file, Indiana Department of Transportation, Cultural Resources Office, Indianapolis, IN.

Are there any commitments associated with this project? If yes, please explain and include in the Additional Comments Section below. $yes \square no \boxtimes$

Does the project result in a de minimis impact to a Section 4(f) protected historic resource? If yes, please explain in the Additional Comments Section below. yes \Box no \boxtimes

Additional Comments:

Above-ground Resources

With regard to above-ground resources, an INDOT Cultural Resources Office (CRO) architectural historian, who meets the Secretary of the Interior's Professional Qualification Standards per 36 CFR Part 61, performed a desktop review. An area of potential effects (APE) of 0.25 mile was examined. First, the historian checked the Indiana Register of Historic Sites and Structures (State Register) and National Register of Historic Places (National Register) lists for Wabash County. No listed properties are located within the APE.

The Wabash County data for the Indiana Historic Sites and Structures Inventory (IHSSI) was reviewed through the Indiana State Historic Architectural and Archaeological Research Database (SHAARD), and the Indiana Historic Buildings, Bridges, and Cemeteries Map (IHBBCM). No IHSSI properties are recorded within the APE.

According to the IHSSI rating system, generally properties rated "contributing" do not possess the level of historical or architectural significance necessary to be considered individually National Register eligible, although they would contribute to a historic district. If they retain material integrity, properties rated "notable" might possess the necessary level of significance after further research. Properties rated "outstanding" usually possess the necessary level of significance to be considered National Register eligible, if they retain material integrity. Historic districts identified in the IHSSI are usually considered eligible for the National Register.

The eastern half of the APE, located on the north and south sides of CR 1050 S east of Grant Creek, is composed of wooded areas and agricultural fields. The western half of the APE, located on the north and south sides of CR 1050 S west of Grant Creek, contains six residential properties. Property record cards, which include photographs, found online for Wabash County were examined. The first property west of the bridge is 2407 E 1050 S, which contains a 1 ½-story house built in 1988 and outbuildings from the 2010s. The next house property is 2373 E 1050 S, which contains an early 20th century wood-frame house with modern outbuildings. The house has a hipped roof with a shed-roof front dormer. It also has a modern porch, vinyl siding and windows, and a large garage addition. The next house is located at 2326 E 1050 S. It is a 1970 ranch house with a pole barn. It appears to have some replacement doors and windows, and perhaps new siding. The next property is 2318 E 1050 S, which contains a 1988 ranch house and modern outbuildings. The next house is located at 2291 E 1050 S. It is a one-story structure built in 2009 with contemporary outbuildings. The final house within the APE is located at 2258 E 1050 S. It is an early 20th century T-plan structure that has been heavily altered. It has vinyl siding and windows and multiple additions that obscure its original massing. Based on their alterations and/or their lack of significance, none of the properties within the APE appear to rise to the level of significance to be considered National Register eligible individually; nor does the potential for a historic district appear to exist. None of the properties warrant an IHSSI rating higher than contributing.

With regard to the bridge itself, Wabash County No. 143 (NBI No. 8500465) is a 3-span reinforced concrete channel beam structure that was built in 1960. It was determined not to be National Register eligible in the Indiana Historic Bridge Inventory.

Based on the available information, as summarized above, no above-ground concerns exist.

Archaeological Resources

An INDOT-CRO archaeologist who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 reviewed the Phase Ia archaeological reconnaissance submitted by Gray & Pape, Inc. on behalf of Butler, Fairman & Seufert, Inc. (Connolly 2023).

A 3.7-acre survey area was examined through a combination of systematic shovel probing (n=55), soil coring (n=2), and visual inspection of disturbed areas. The area encompassing CR E 1050 S and Wabash County Bridge #143 has been previously disturbed from the construction of the country road, existing bridge, Grant Creek, embankment, a gravel driveway, and buried utilities. The north and south sides of CR E 1050 S within the survey area boundaries were subject to visual inspection and shovel probing in 15 m intervals within untilled agricultural fields with 30 percent visibility and wooded tract areas. Two bucket auger probes were excavated on the northside of CR E 1050 S on a narrow floodplain west of Grant Creek due to the presence of alluvial soils. One of the augers was excavated by extending the floor of one of the shovel probes. All shovel tests and bucket augers were negative. No archaeological sites were documented as a result of the survey and no further investigation is recommended (Connolly 2023).

Therefore, there are no archaeological concerns as long as the project scope and footprint do not change.

<u>Accidental Discovery</u>: If any archaeological artifacts or human remains are uncovered during construction, demolition, or earth moving activities, construction within 100 feet of the discovery will be stopped, and INDOT-CRO and the Division of Natural Resources-Division of Historic Preservation and Archaeology (DNR-DHPA) will be notified immediately.

INDOT-CRO staff reviewer(s): Mary Kennedy, Matt Coon, and KayLee Blum

INDOT Approval Date: 6/12/2023

Amendment Approval Date (if applicable):

^{***}Be sure to attach this form to the National Environmental Policy Act documentation for this project. Also, the NEPA documentation shall reference and include the description of the specific stipulation in the PA that qualifies the project as exempt from further Section 106 review.



INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF HISTORIC PRESERVATION AND ARCHAEOLOGY

402 West Washington Street, Room W274
Indianapolis, Indiana 46204-2739
Telephone Number: (317) 232-1646
Fax Number: (317) 232-0693
E-mail: dhpa@dnr.IN.gov

Where applicable, the use of this form is recommended but not required by the Division of Historic Preservation and Archaeology (DHPA).

Name(s) of author(s) Jocelyn Connolly	,				Date (month, day 6/9/2023	, year)	
Title of project Phase Ia Archaeological Reconnaissance Survey for the Proposed CR E 1050 S over Grant Creek Bridge #143 Project,							
Wabash County,	Indiana (INDO	T Des. No. 2003065)	the Proposed CR	E 1050 S over Gr	ant Creek Bridge #	143 Project,	
This document is being Records check or An addendum to	nly 🛚 🖂 Recor	results of: rds check and Phase 1a ar rlogical report. <i>For an adde</i>					
Name(s) of author(s) of		g					
Title of previous report							
Date of previous report	(month day year)		DHPA nun	nher			
Date of provious report	monus, day, your,		Jrii / triaii				
			PROJECT OVERVIEV	V			
Description of project	aiaat will mamlaa				aiaat dawiyaa fuaya	the condition of	
		e Wabash Co. Bridge the substructure, whi					
2022 Bridge Insp	ection Report.	The bridge is experie	ncing transverse a	and longitudinal cra	acking on the wear	ing surface,	
		oridge is also below th am, resulting in overto					
		condition of "good", or					
		he bridge will carry t					
		proximately 0.21 mile					
		der to construct the bi					
		050 S dead-ends to thest of Grant Creek.	ne west of the proj	ect area, and vvac	asn Co. Bridge 14	3 provides the	
INDOT designation num	ber(s)	Project number	DHPA nun	nber	DHPA plan numb	er	
2003065		22-89006.001					
Prepared for: (Company Butler, Fairman &)					
Name of contact Elizabet Biggio							
1		^(IP code) Indianapolis, IN 462	40-8302				
Telephone number (317)713-4615		E-mail address ebiggio@b	fsengr.com				
Name of principal invest Jocelyn Connolly		33 C					
Name of company / institution Gray & Pape, Inc.							
Address (number and street, city, state, and ZIP code) 1318 Main St., Ste. 1							
Telephone number E-mail address							
Signature of principal investigator (Required) Date (month, day, year)							
forely loundly 6/9/2023							
PROJECT LOCATION							
County Wabash		USGS 7.5' series topographic La Fontaine, IN			Civil township Liberty		
			Legal Location				
Grid alignment	Grid alignment						
1/4	1/4	1/4	1/4	Section	Township	Range	

The pre- and industrial history of Wabash County through the 19th and early 20th centuries largely reflects broader					
statewide trends of shifts from subsistence agriculture to indus	stry.				
Records check (Check all that apply) The project area does not have the potential to contain archaeological resources. Provide explanation / justification. There are previously recorded archaeological resources within the project area, but those resources do not warrant additional archaeological investigation. Provide explanation / justification.					
	that warrant additional investigation and/or the project area has the potential conducted.				
Explanation / justification A 1/2-mile radius of the survey area was examined for this Literature Review. Historical mapping suggests basic continuity over the past century in this region as an agricultural/residential area (USGS 1953a, 1953b). The earliest available maps of the project area show it as just east of the Mo-Shin-go-ma-sha Reserve No. 22, and not far north of the "Old Indian Village," located above the confluence of Josina/Jocinah Creek and the Mississinewa River (Figure 3) (Andreas 2022[1876]:64, Paul 2022[1875]:50). The records check did not identify any previously recorded archaeological resources within the project area, but, based on previous cultural resource surveys conducted in the general vicinity (Figure 2), and the presence of possible undisturbed soils, the project area has the potential to contain archaeological resources.					
Phase 1a archaeological reconnaissance (Check all that apply) No Phase 1a reconnaissance was conducted. Phase 1a reconnaissance located no archaeological resources. Previously recorded sites were in the project area. Artifacts and/or features at a previously recorded site(s) within the project area were not discovered. List the site(s) below. Phase 1a reconnaissance has identified landforms conducive to buried archaeological deposits. Describe below.					
List sites.					
Describe landforms. The project area consists of the Grant Creek floodplain on the	otherwise flat to rolling till plain.				
Number of shovel probes excavated 55	Number of cores / auger probes 2 auger probes (1 of which was in the floor of a shovel test pit)				
Describe disturbances. Attach photographs documenting disturbances. Much of the survey area was disturbed (Figure 4). The most significant agent of disturbance was the construction of Bridge 143 over Grant Creek. Field 2 experienced landscaping when the adjacent house and driveways were constructed. Installation of additional infrastructure including roadside ditches and above- and below-ground utility lines, have all been sources of disturbance in the survey areas. The disturbance was revealed by visual inspection, and is documented in the following section (Figures 4-7).					
Actual area surveyed (hectares) 1.5	Actual area surveyed (acres) 3.7				
Explain results of fieldwork. Field 1 is in corn stubble with 30% visibility and was shovel tested at 15-m intervals (Figures 4 and 5). Field 1 is on the east					

Field 1 is in corn stubble with 30% visibility and was shovel tested at 15-m intervals (Figures 4 and 5). Field 1 is on the east side of the creek. Soils were eroded and very shallow. A total of 41 shovel tests were excavated in this area, which contained 5–25 cmbs of dark brown (10YR 3/3) silt loam over yellowish brown (10YR 5/6) clay subsoil. No artifacts or sites were identified.

Field 2 is in a wooded tract with a drainage cut on the south side of the road that was surveyed through visual walkover (Figures 4 and 6). The area on the immediate north side of the road has 30% slope and was pedestrian surveyed. The remainder of the wooded area was covered in leaf litter and was shovel tested at 15-m intervals. Soils were eroded and very shallow. Three shovel tests were excavated in this area, which contained 5–15 cmbs of dark brown (10YR 3/3) silt loam over yellowish brown (10YR 5/4) silty clay subsoil. No artifacts or sites were identified.

Field 3 is in a wooded tract located on both sides of the creek and was shovel tested at 15-m intervals (Figures 4 and 7). Two auger tests were excavated on the narrow floodplain west of the creek, one of which was placed in the floor of a shovel test pit (A14). Areas of excessive slope and the drainage were not shovel tested. Soils on the east side of the creek were eroded and very shallow. Eleven shovel tests were excavated in this area, two of which contained subsoil at the surface. The nine remaining shovel tests contained 5–20 cmbs of dark brown (10YR 3/3) silt loam over yellowish brown (10YR 5/6) clay subsoil. The auger found the aforementioned subsoil continued to a depth of 80 cmbs, followed by extremely compact sediments with redoximorphic features. The auger test was terminated at 80–90 cmbs. No artifacts or sites were identified.

RECO	DMMEND.	ATIONS
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No archaeological investigation is recommended before the project is allowed to proceed because the records check has determined that the project area does not have the potential to contain archaeological resources. A Phase 1a archaeological reconnaissance is recommended. Based upon the records check results, a Phase 1a archaeological reconnaissance was recommended and has been conducted. A cemetery development plan may be required under Indiana Code 14-21-1-26.5 because project ground disturbance will be within 100 feet of a cemetery.
Phase 1a archaeological reconnaissance (Check all that apply) It is recommended that the project be allowed to proceed as planned because the Phase 1a archaeological reconnaissance has located no archaeological sites within the project area and/or previously recorded sites that were investigated warrant no additional investigation. It is recommended that Phase 1c archaeological subsurface reconnaissance be conducted before the project is allowed to proceed. The Phase 1a archaeological reconnaissance has determined that the project area includes landforms which have the potential to contain buried archaeological deposits.
Other recommendations / commitments

Pursuant to IC-14-21-1, if any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days. In that event, please call (317) 232-1646.

REQUIRED	ATTACHMENTS

- Figure showing project location within Indiana
- ☐ USGS topographic map showing the project area (1:24,000 scale)
- Aerial photograph showing the project area, land use and survey methods
- Photographs of the project area, including, if applicable, photographs documenting disturbances
- Project plans (if available)

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Other attachments

Project landowners, historical map.

References cited (See short report instructions for required references to be consulted)

Andreas, Alfred Theodore

2022[1876] Map of Wabash County. Page 64 in Illustrated historical atlas of the State of Indiana. Baskin, Forster & Co., Chicago, Illinois. Reproduced by the David Rumsey Collection. https://www.davidrumsey.com/luna/servlet/s/627t6g. Accessed December 2022.

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1934 Indians of Wabash County, Indiana, edited 1959 by Mary C. O'Hair. Wabash County Historical Society, Wabash, Indiana.

Cunningham, Wilbur M.

1948 A Study of the Glacial Kame Culture of Michigan, Ohio, and Indiana. Museum of Anthropology Occasional Contributions 12:31–32. University of Michigan Press, Ann Arbor.

Environmental Systems Research Institute (ESRI)

2018 Aerial Imagery flown May 2, 2018. ESRI, Redlands, California.

Faulkner, Charles H.

The Late Prehistoric Occupation of Northwestern Indiana: A Study of the Upper Mississippian Cultures of the Kankakee Valley. Prehistory Research Series No. 5(1):13–122, Indiana Historical Society, Indianapolis.

Glenn, Elizabeth J.

1977 Ethnohistoric Report on the Battle of Mississinewa. In Ethnohistorical and archaeological descriptive accounts of the War of 1812 Mississinewa Campaign and aftermath: project report, edited by B. K. Swartz, Jr. Ball State University Archaeological Report 14.

Hixson, W. W. & Company

1920 Plat Books of Indiana Counties, Volume 6 (T–W). W. W. Hixson & Company, Rockford, Illinois.

Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology 2022a Guidebook for Indiana Historic Sites and Structures Inventory – Archaeological Sites. https://www.in.gov/dnr/historic/files/hp-archaeology_guidebook.pdf. Accessed December 2022.

Page 6 of 8 D9

Appendix E Red Flag Investigation

8450 Westfield Blvd, Suite 300 Indianapolis, IN 46240 317.713.4615 bfsengr.com





INDIANAPOLIS | LAFAYETTE | MERRILLVILLE FORT WAYNE | PLAINFIELD | SOUTH BEND | LOUISVILLE

Date: December 30, 2022

To: Site Assessment & Management

Environmental Policy Office - Environmental Services Division (ESD)

Indiana Department of Transportation 100 N Senate Avenue, Room 758-ES

Indianapolis, IN 46204

From: Elizabet Biggio

Butler, Fairman, & Seufert, Inc. 8450 Westfield Boulevard, Suite 300

Indianapolis, IN 46240 ebiggio@bfsengr.com

Re: RED FLAG INVESTIGATION

DES 2003065, Local Project Wabash Co. Bridge 143

CR 1050 South over Grant Creek

Wabash County, Indiana

PROJECT DESCRIPTION

Brief Description of Project:

The Wabash County Board of Commissioners proposes a project involving Wabash Co. Bridge 143 carrying County Road (CR) 1050 South over Grant Creek in Wabash County, Indiana (Structure #85-00465). The project is within Liberty Township on the USGS La Fontaine Quadrangle, in Section 28, Township 26 North, Range 7 East.

Wabash County Bridge 143 is a c. 1960 three-span concrete channel beam bridge. The bridge approximately is 67.5 feet long with a clear roadway width of 24.6 feet. The need for the project derives from the condition of the bridge, particularly the substructure, which was given a condition rating of 4 (out of 9) or "poor" in the May 17, 2022 Bridge Inspection Report. The purpose of the project is to provide an improved crossing of Grant Creek.

The proposed project will replace Wabash Co. Bridge 143. The new bridge will be a single span, approximately 92.33 feet long. The out to out coping will be approximately 44.25 feet. The bridge will carry two (2) 12-foot lanes of traffic with 8.63-foot shoulders. Riprap will be installed. The project area is approximately 0.25 mile long. In order to construct the bridge one side at a time, use of a causeway and temporary road widening is anticipated. CR 1050 dead-ends to the west of the project area, and Wabash Co. Bridge 143 provides the only access to the properties west of Grant Creek.

Bridge and/or Culvert Project: Yes ⊠ No □ Structure #85-00465	
If this is a bridge project, is the bridge Historical? Yes \square No \boxtimes , Select \square Non-Select	t 🗆
(Note: If the project involves a historical bridge, please include the bridge informatio	n in the Recommendations
Section of the report).	

Proposed right of way: Temporary \boxtimes # Acres <u>0.10</u> Permanent \boxtimes # Acres <u>1.16</u> , Not Applicable \square
Type and proposed depth of excavation: To removal the existing and install a new bridge, channel clearing, and benching
to a depth of approximately 6 feet
Maintenance of traffic (MOT): Phased construction, keeping one lane of traffic open at all times.
Work in waterway: Yes $oxtimes$ No $oxtimes$ Below ordinary high water mark: Yes $oxtimes$ No $oxtimes$
State Project: □ LPA: ⊠
Any other factors influencing recommendations: The project description is subject to change

INFRASTRUCTURE TABLE AND SUMMARY

Infrastructure Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:						
Religious Facilities N/A Recreational Facilities N/A						
Airports ¹	N/A	Pipelines	N/A			
Cemeteries N/A Railroads N/A						
Hospitals	N/A	Trails	N/A			
Schools	N/A	Managed Lands	1			

¹In order to complete the required airport review, a review of public-use airports within 3.8 miles (20,000 feet) is required.

Explanation:

Managed Lands: One (1) managed land is located within the 0.5 mile search radius. Mississinewa Lake is located approximately 0.30 mile northwest of the project area. No impact is expected.

WATER RESOURCES TABLE AND SUMMARY

Water Resources Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:					
NWI - Points	N/A	Canal Routes - Historic	N/A		
Karst Springs	N/A	NWI - Wetlands	8		
Canal Structures – Historic	N/A	Lakes	3		
NPS NRI Listed	N/A	Floodplain - DFIRM	3		
NWI-Lines	3	Cave Entrance Density	N/A		
IDEM 303d Listed Streams and Lakes (Impaired)	N/A	Sinkhole Areas	N/A		
Rivers and Streams	11	Sinking-Stream Basins	N/A		

Explanation:

NWI-Wetlands: Eight (8) wetlands are located within the 0.5 mile search radius. Two (2) wetlands are located within the project area. A Waters of the U.S. Report is recommended and coordination with the appropriate agency, if applicable, will occur.

Lakes: Three (3) lakes are mapped within the 0.5-mile search radius. The nearest lake is approximately 0.33 mile northwest of the project area. No impact is expected.

Floodplain-DFIRM: Three (3) floodplain polygons are located within the 0.5 mile search radius. The project is located within one (1) floodplain polygon. Coordination with the appropriate agency occur.

NWI-Lines: Three (3) NWI-Line segments are located within the 0.5-mile search radius. One (1) NWI-Line segment is located within the project area along Grant Creek. A Waters of the U.S. Report is recommended and coordination with the appropriate agency, if applicable, will occur.

Rivers and Streams: Eleven (11) stream segments are located within the 0.5 mile search radius. Grant Creek is located within the project area. A Waters of the U.S. Report is recommended and coordination with the appropriate agency, if applicable, will occur.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:					
Petroleum Wells	4	Mineral Resources	N/A		
Mines – Surface	N/A	Mines – Underground	N/A		

Explanation:

Petroleum Wells: Four (4) petroleum wells are located within the 0.5 mile search radius. The nearest petroleum well is located approximately 0.04 mile south of the project area. Coordination with IDNR Oil and Gas Division will occur.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns Indicate the number of items of conce please indicate N/A:	ern found wit	thin the 0.5 mile search radius. If there	are no items,
Superfund	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	N/A	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	N/A	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	N/A	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	N/A	Brownfields	N/A
Construction Demolition Waste	N/A	Institutional Controls	N/A
Solid Waste Landfill	N/A	NPDES Facilities	N/A
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	N/A
Leaking Underground Storage (LUST) Sites	N/A	Notice of Contamination Sites	N/A

Explanation: No hazardous materials were identified within the 0.5 mile search radius.

ECOLOGICAL INFORMATION SUMMARY

The Wabash County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is provided at https://www.in.gov/dnr/nature-preserves/files/np_wabash.pdf. A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Services did not indicate the presence of ETR species. Coordination with USFWS and IDNR will occur.

A review of the USFWS Database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The project area is located in a rural area surrounded by agriculture and forested area. The May 17, 2022 inspection report for Bridge 85-00143 states that no evidence of bats was seen or heard under the bridge. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

RECOMMENDATIONS SECTION

INFRASTRUCTURE: N/A

WATER RESOURCES:

A Waters of the US Report is recommended based on mapped features and coordination with the appropriate agency, if applicable, will occur for the following features:

- Two (2) wetlands are located adjacent to the project area.
- The project area is located within a floodplain (coordination only).
- One (1) stream segment, Grant Creek, flows through the project area.
- One (1) NWI-Line segment is located within the project area.

MINING/MINERAL EXPLORATION: One petroleum well is located approximately 0.04 mile south of the project area. Coordination with IDNR Oil and Gas Division will occur.

HAZARDOUS MATERIAL CONCERNS: N/A

ECOLOGICAL INFORMATION:

Coordination with IDNR and USFWS will occur. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

Dariane
Davis

Davis

Digitally signed by
Dariane Davis
Date: 2023.01.03
10:36:42 -05'00' (Signature)

Prepared by: Elizabet Biggio Butler, Fairman, & Seufert, Inc.

INDOT ESD concurrence:

Graphics:

SITE LOCATION: YES

INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

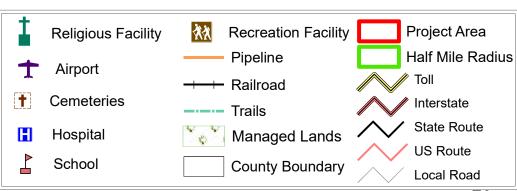
HAZARDOUS MATERIAL CONCERNS: N/A

Red Flag Investigation - Infrastructure County Road 1050 South over Grant Creek Des. No. 2003065, Wabash Co. Bridge 143 Replacement Wabash County, Indiana

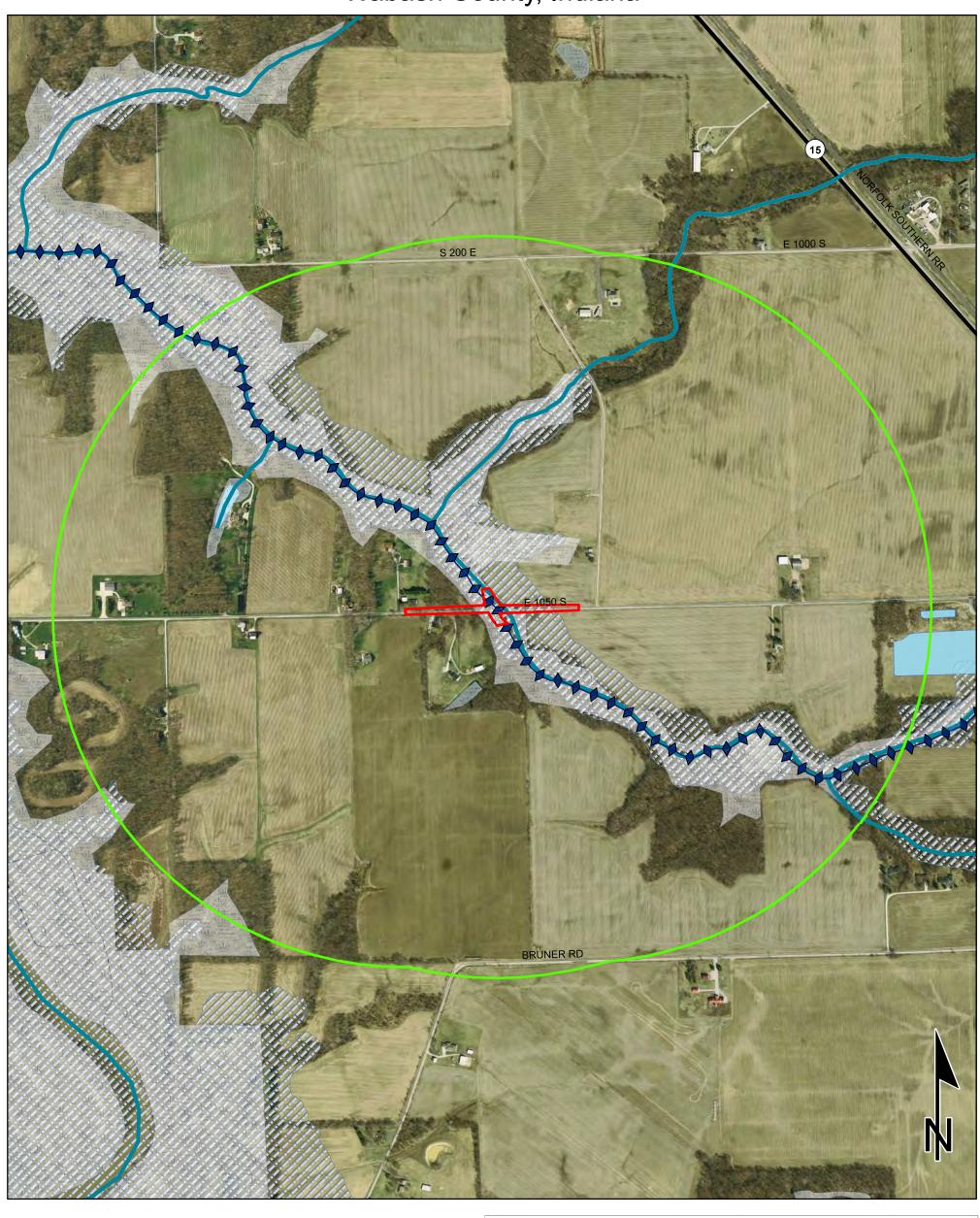


0.15 0.15 0.07 Sources: ■ Miles Non Orthophotography <u>Data</u> - Obtained from the State of Indiana Geographical Information Office Library Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org) Map Projection: UTM Zone 16 N Map Datum: NAD83 This map is intended to serve as an aid in graphic

representation only. This information is not warranted for accuracy or other purposes.



Red Flag Investigation - Water Resources County Road 1050 South over Grant Creek Des. No. 2003065, Wabash Co. Bridge 143 Replacement Wabash County, Indiana

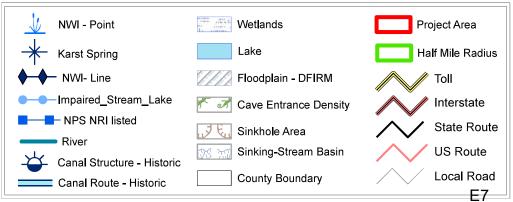


Sources:
Non Orthophotography

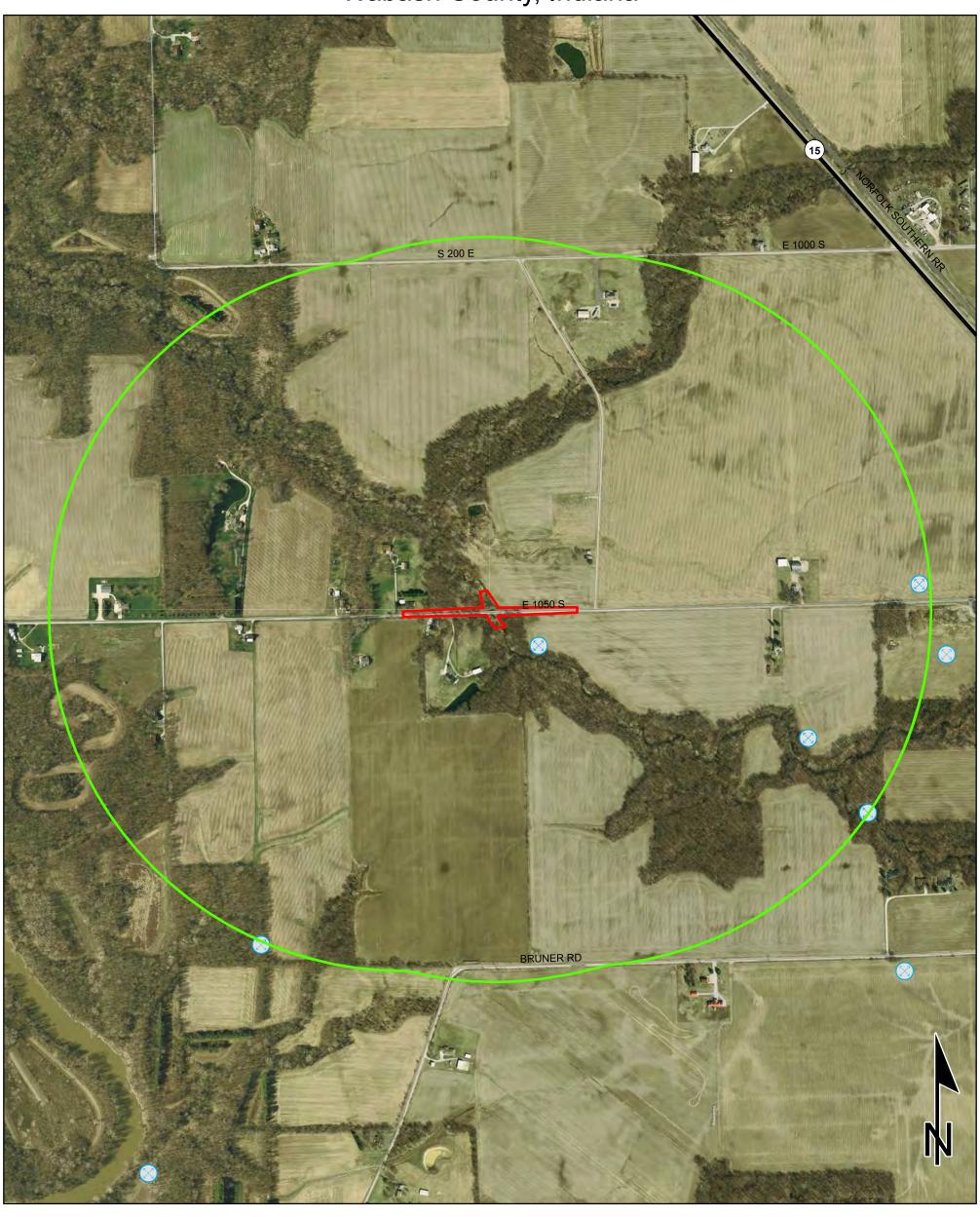
Data - Obtained from the State of Indiana Geographical
Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data
(www.indianamap.org)
Map Projection: UTM Zone 16 N Map Datum: NAD83

This map is intended to serve as an aid in graphic

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.



Red Flag Investigation - Mining and Mineral Resources County Road 1050 South over Grant Creek Des. No. 2003065, Wabash Co. Bridge 143 Replacement Wabash County, Indiana



0.07 0 0.15 0.15 Oil and Gas Wells ■ Miles County Boundary Sources: Non Orthophotography Project Area <u>Data</u> - Obtained from the State of Indiana Geographical Mineral Resources Information Office Library Orthophotography - Obtained from Indiana Map Framework Data Half Mile Radius Mine - Surface (www.indianamap.org) Map Projection: UTM Zone 16 N Map Datum: NAD83 Mine -This map is intended to serve as an aid in graphic Underground

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Interstate

State Route

US Route

Local Road

Appendix F Ecological and Water Resources

"WATERS OF THE U.S." DETERMINATION REPORT Wabash County Bridge 143 over Grant Creek, Wabash County Bridge Replacement Project Des. No. 2003065

Prepared By: Neal Bennett, PWS #2425
Butler, Fairman & Seufert, Inc.

nbennett@bfsengr.com
May 1, 2023

Date(s) of Field Investigation

April 19, 2023

Project Location

Section 28, Township 26 North, Range 7 East on the United States Geological Survey (USGS) LaFontaine Indiana Quadrangle Map, within Wabash County, Indiana

LAT. 40.673994; LONG. -85.744228

Area of Investigation

The area investigated is located approximately 1.3 miles west of LaFontaine, Indiana. The study area consisted of agricultural ground, roadside slope, and forested areas along Grant Creek at CR 1050. Approximately 2.75 acres was investigated. The entire site was investigated by walking transects and making visual observations of the landscape looking for any visual evidence of wetland characteristics (Attachment 1). Sampling points, where necessary, were taken in all areas mapped as wetlands on the National Wetland Inventory (NWI), where wetland characteristics were observed, and in any potential problem areas. Any drainage feature that displayed a defined channel and ordinary high-water mark were considered potentially jurisdictional streams. Any features that did not meet these criteria were not considered as streams.

Desktop Reconnaissance

Site(s) Background

Prior to the field investigation, reference materials were consulted to gain information about the site. These include, the USGS LaFontaine, IN quadrangle map was used to determine contours of the site and locate any water bodies in the area, as well as to provide a legal description of the area. The Natural Resources Conservation Service's (NRCS) Web Soil Survey website¹ was consulted to determine if the project area contained any soils listed in either the *Hydric Soils of the United States* manual or the Indiana State list of hydric soils along with a description of characteristics displayed by the mapped soil types of the area (Attachments 3 – 5). The U.S. Fish and Wildlife Service (USFWS) NWI Map was used to find and classify any previously catalogued wetlands in the project area (Attachment 2). The Indiana Department of Natural Resources' (IDNR) floodplain map was consulted to gain an understanding of historic flood locations and frequency that may impact the study area (Attachment 7). The USGS National Hydrologic Dataset was used to find any mapped waterway features in or near the project area (Attachment 6). All this information provided a background for the hydrologic regime of the area.

¹ https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

National Wetlands Inventory (NWI) Map

The following is a list of mapped wetlands located either within or near the proposed project limits (Attachment 2).

- Riverine, lower perennial, unconsolidated bottom, permanently flooded (R2UBH) waterway known as Grant Creek
- Lacustrine, littoral, unconsolidated bottom, artificially flooded (L2UBK) waterway overlapping Grant Creek which is the backwater effected area of the Mississinewa Reservoir.

Soil Map Data

According to the NRCS Web Soil Survey website² for Wabash County, Indiana (Attachments 3-5), the following table summarizes the soil types found in the investigation area, including characteristics such as Flooding Frequency, Drainage Class, Hydric Soil Category, and Hydric Rating.

Soil Unit Name	Symbol	NRCS Flooding Frequency	NRCS Drainage Class	NRCS Hydric Soil Category	SSURGO Hydric Rating
Genesee loam	Ge	Occasional	Well drained	Partially	7%
Hennepin loam	HeG	None	Well drained	Non-Hydric	0
Miami silt loam	MhB2	None	Moderately well drained	Partially	6%

Table 1: Soil Survey Summary Table

USGS National Hydrography Dataset (NHD) Map

According to the USGS NHD map, there is one stream/river mapped in the study area (Attachment 6). The stream is Grant Creek, which flows northwest through the study area.

USGS 12-digit Hydrologic Unit Code (HUC-12)

051201030603, Grant Creek - Mississinewa River

Attached Documentation

- Maps of the study area (state, quad, aerial, NWI, floodplain, soil, StreamStats, NHD, photo/data point)
- Photographs of the study area
- Wetland Data Sheets
- Preliminary Jurisdictional Determination (PJD) Form

Field Reconnaissance

The study area limits extend from the end of Bridge 143 approximately 200 feet east and west along CR 1050. At the bridge, the study limits were extended north and south for approximately 150 feet, to investigate the entire forested riparian areas along Grant Creek and to evaluate for the presence of any wetlands or streams. The area was investigated by walking transects west to east and north to south within the study limits for the project and looking for any visual evidence of waterway or wetland characteristics. Any wetland boundaries and sampling point locations were recorded in the field using a handheld Global Positioning System (GPS) unit with

² https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

submeter accuracy. Ordinary high-water mark (OHWM) and bankfull measurements were taken when present at a water feature and dominant substrate material was identified by conducting a pebble count. If present, roadside ditches were examined for possible jurisdictional status. Any areas that exhibited wetland characteristics (hydrophytic vegetation, hydrology, and hydric soils) were investigated to determine if the area should be classified as wetland. Field data collection was completed based on the methodologies presented in the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual ('87 Manual) and the Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Midwest Region Version 2.0 (Regional Supplement). Field methods did not deviate from the standard methods found in the '87 Manual or the Regional Supplement.

A field visit to the project area was conducted on April 19, 2023, to investigate for potential features that may classify as "Waters of the U.S." or "Waters of the State" within the study limits. Based on the daily rainfall data obtained from the Community Collaborative Rain, Hail, and Snow Network³, the project location received 0.12 inches of rainfall in the 48 hours preceding the site visit. Jurisdictional wetland and stream determinations were based on the Pre-2015 "Waters of the U.S." regulatory guidance as outlined in the Clean Water Act following the Rapanos v. United States Supreme Court decision (1986).

Waterway(s)

One (1) mapped waterway was observed within the study area. This waterway is known as Grant Creek and is identified as a perennial USGS blue line stream that flows northwest through the project area, and discharges into Mississinewa River approximately 2.5 miles downstream of the study location. Grant Creek is within the backwater affected area of the Mississinewa River, making it flooded occasionally when the reservoir is allowed to fill to capacity. Grant Creek has a drainage area upstream of the study limits of approximately 8.382 square miles (as calculated using the web-tools on the USGS Indiana StreamStats website⁴) (Attachment 8). This waterway falls within the larger Grant Creek – Mississinewa River Watershed identified by the USGS HUC-12 051201030603. Grant Creek is classified as a riverine, lower perennial, unconsolidated bottom, permanently flooded (R2UBH) waterway. It is of average poor due to the lack of an intact riparian corridor, moderate sinuosity, and extreme bank erosion. Additionally, the stream channel is entrenched. The substrate is primarily gravel and assorted sizes of cobble. The creek has an approximate average 36.5-foot bankfull width and approximate average 2.24-foot bankfull depth. The OHWM depth is approximately 1.5 feet and width is approximately 18.0 feet. All stream measurements were taken at LAT/LONG 40.673860; -85.744168. During the site visit conducted on April 19, 2023, Grant Creek contained flowing water. Grant Creek is determined to be a "Waters of the U.S." because it is a blue-line feature (jurisdictional stream) with an OHWM.

An unmapped stream feature was observed in the southwest quadrant of Bridge 143. It begins approximately 700 feet southwest of the bridge. It begins in an agriculture field, flows northeast for approximately 400 feet, passes beneath a driveway, then continues approximately 120 before meeting with CR 1050. It then flows east along the southside of CR 1050 for approximately 180 feet before discharging into Grant Creek. This unmapped stream feature is identified as Unnamed Tributary (UNT) to Grant Creek for the purposes of this report. UNT to Grant Creek as a 2.5-foot OHWM width and a 5-inch OHWM depth. The substrate was primarily mud with gravel overlain.

³ CoCoRaHS Maps

⁴ https://streamstats.usgs.gov/ss/

Stream Name	Photo Numbers	Latitude/ Longitude (UTM NAD 83)	OHWM width/depth	USGS ID	Presence of Riffles/Pools	Channel Substrate	Functional Quality	Likely Water of the U.S.	Linear Ft. in Study Area
Grant Creek	2 - 4	40.673860/ -85.744168	18.0 ft. / 1.5 ft.	Perennial (solid blue line)	Yes	Gravel/ Cobble	Poor	Yes	300 ft.
UNT to Grant Creek	9 - 10	40.673922/ -85.744384	2.5 ft. / 0.4 ft.	Not Mapped	No	Mud/Gravel	Poor	Yes	300 ft.

Table 2: Stream Survey Summary Table

Wildlife Evidence and Concerns

Raccoon and deer tracks were observed beneath Bridge 143 during the site investigation. Therefore, there is adequate opening for wildlife to pass beneath the bridge. Some stone revetment is present around the abutments. One abandoned bird nest was observed. No other evidence of birds or bats was observed using the bridge (Attachment 12, photo #5).

Wetlands

One area was identified as potential wetlands during the field investigation. A sampling point was taken in this area and was evaluated for all three criteria to be considered a wetland as described in the '87 Manual and as currently applied in the Midwest Regional Supplement manual.

Sampling Point 1 was taken in a low contour area that indicated the potential for frequent or prolonged hydrology within the floodplain of Grant Creek. The area is mapped as Genesee loam, which has a low hydric inclusion rating of 7%. The soil profile matched the description for Genesee loam and did not contain any hydric soil field indicators. The area did not contain an overstory or understory. The dominant species was *Phalaris arundinacea*. This community is hydrophytic dominant. The soil was loamy and appeared well-drained. No evidence of frequent or prolonged hydrology was observed as the floodplain surface is approximately 2.5 feet above the water surface elevation of Grant Creek under normal conditions. This indicates that groundwater is found at least 30 inches below the surface. As a result, Sampling Point 1 is a non-wetland data point (Attachments 17 – 18).

Data Point ID	Photo #	Latitude/ Longitude (UTM NAD 83)	Hydrophytic Vegetation Present	Hydric Soil Present	Wetland Hydrology Present	Is the Sampled Area within a Wetland?
1	11 - 13	40.673925 / -85.744134	Yes	No	No	No

Table 3: Wetland Data Summary Table

Floodplains

The project is located within the regulated floodplain (Zone A) along Grant Creek (<u>INdiana Floodplain Information Portal</u>).

Open Water

No open water areas were observed in the investigated area.

Roadside Ditches (RSDs)

No roadside ditches were observed within or adjacent to the project area.

Conclusion

A field investigation was conducted on April 19, 2023, by BF&S to evaluate the presence of Waters of the U.S. for the replacement of Bridge 143 carrying CR 1050 over Grant Creek in Wabash County, Indiana. Desktop reconnaissance and field observations identified two streams, Grant Creek and UNT to Grant Creek, within the study area. No wetlands were observed.

Based on its contribution of flow into the Mississinewa River, the blue-line perennial stream located approximately 2.5 miles downstream, Grant Creek should be considered "Waters of the U.S." Grant Creek and the UNT to Grant Creek are the only jurisdictional features identified during the investigation.

These waterways are likely *Waters of the U.S.* Every effort should be taken to avoid and minimize impacts to these features. If impacts are necessary, then mitigation may be required. INDOT Environmental Services Division should be contacted immediately if impacts occur. The final determination of jurisdictional waters is ultimately made by the USACE. This report is our best judgement based on the guidelines set forth by the USACE.

Acknowledgement:

This waters determination has been prepared based on the best available information, interpreted in the light of the investigator's training, experience, and professional judgement in conformance with the 1987 *Corps of Engineers Wetlands Delineation Manual*, the appropriate regional supplement, the USACE *Jurisdictional Determination Form Instruction Guidebook*, and other appropriate agency guidelines.

May 1, 2023

Neal Bennett, PWS

Ecologist/Director of Environmental Services

nbennett@bfsengr.com

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Wabash County Bridge 143



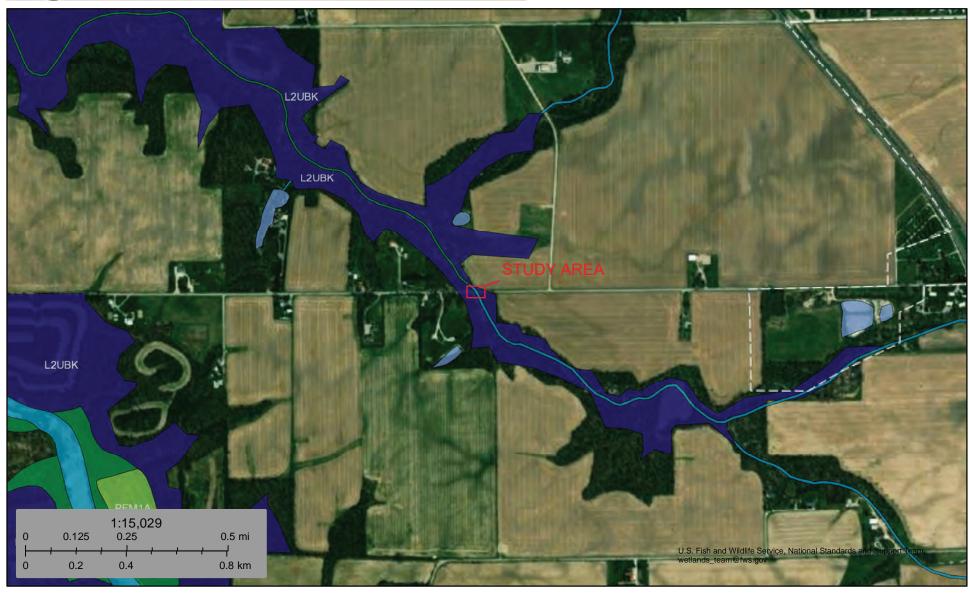


Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB), Indiana Geographic Information Council (IGIC), UITS, Indiana Spatial Data Portal

Portal University Spatial Data Portal, UITS, Woolpert Inc.,

U.S. Fish and Wildlife Service **National Wetlands Inventory**

Wabash Co Bridge 143



April 19, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

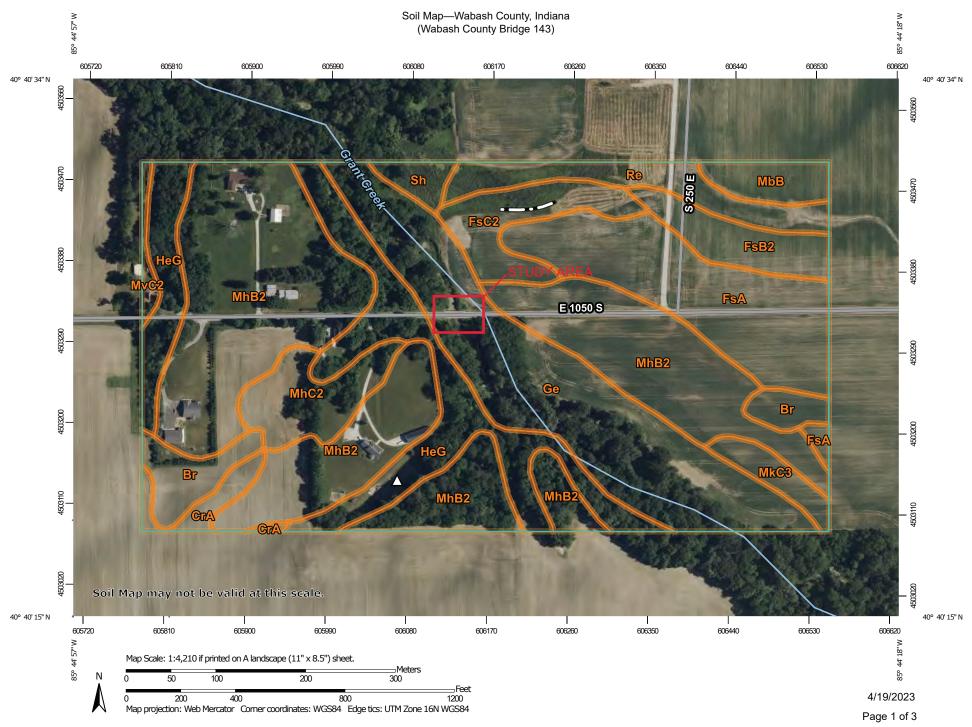
Freshwater Pond

Lake

Riverine

Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



MAP LEGEND

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Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

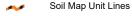
Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

... Gravelly Spot

Candfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot
Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15.800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Wabash County, Indiana Survey Area Data: Version 27, Sep 2, 2022

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Jun 16, 2022—Jun 21, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

4/19/2023

Page 2 of 3

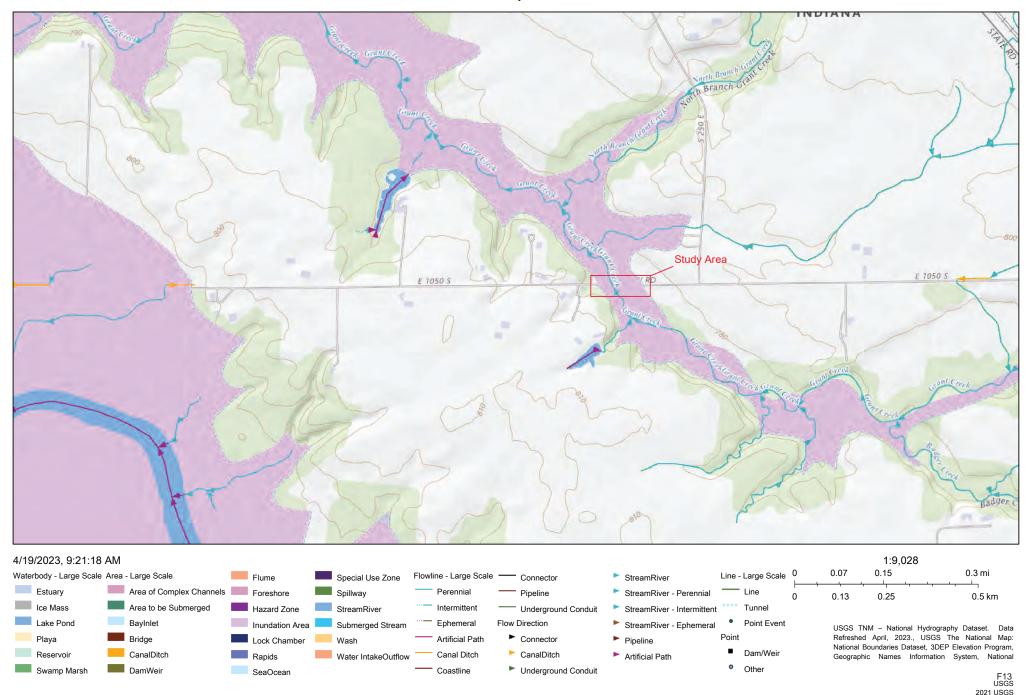


Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
Br	Brookston loam	2.6	3.3%	
CrA	Crosby silt loam, 0 to 3 percent slopes	1.0	1.3%	
FsA	Fox loam, till plain, 0 to 2 percent slopes	8.4	10.7%	
FsB2	Fox loam, 2 to 6 percent slopes, eroded	2.5	3.2%	
FsC2	Fox loam, till plain, 6 to 12 percent slopes, eroded	3.0	3.9%	
Ge	Genesee loam, 0 to 2 percent slopes, occasionally flooded	13.1	16.7%	
HeG	Hennepin loam, 25 to 50 percent slopes	9.8	12.6%	
MbB	Martinsville loam, 2 to 6 percent slopes		1.8%	
MhB2	Miami silt loam, 2 to 6 percent slopes, eroded	27.7	35.5%	
MhC2	Miami silt loam, 6 to 12 percent slopes, eroded	3.0	3.8%	
MkC3	Miami clay loam, 6 to 12 percent slopes, severely eroded	1.2	1.5%	
MvC2	Morley silt loam, 6 to 12 percent slopes, eroded	0.4	0.6%	
Re	Rensselaer loam, 0 to 1 percent slopes	3.2	4.0%	
Sh	Shoals silt loam, 0 to 2 percent slopes, occasionally flooded	0.8	1.0%	
Totals for Area of Interest		78.1	100.0%	

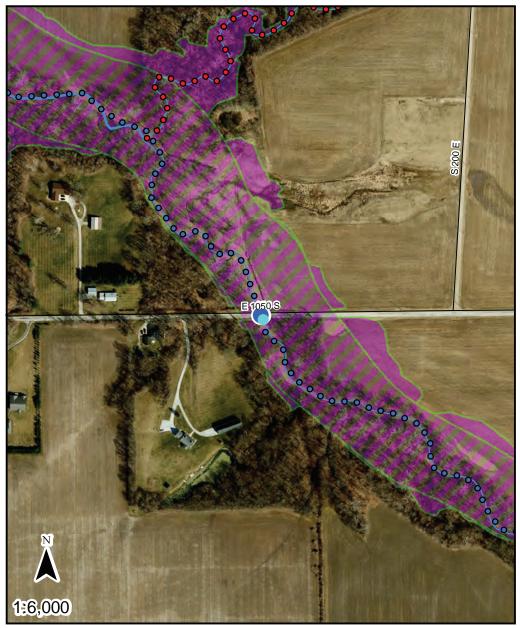
4/19/2023 Page 3 of 3

The National Map Advanced Viewer





Floodplain Analysis & Regulatory Assessment (FARA)



Point of Interest

Base Flood Elevation Point

Flood Elevation Points

- STUDIED STREAM
- JURISDICTIONAL UNSTUDIED
 STREAM

Rivers and Streams at least 1 square mile

Drainage Area (sq. miles)

____ 1 - 10

— 10 - 100

DNR Approximate Floodway

DNR Approximate Fringe

Point of Interest Coordinates (WGS84)

Long: -85.7442706587 Lat: 40.6739818632

The information provided below is based on the point of interest shown in the map above.

County: Wabash Approximate Ground Elevation: 768.1 feet (NAVD88)

Stream Name: Base Flood Elevation: 777.7 feet (NAVD88)

Grant Creek Drainage Area: Not available

Best Available Flood Hazard Zone: DNR Approximate Floodway

National Flood Hazard Zone: FEMA Zone A

Is a Flood Control Act permit from the DNR needed for this location? yes

Is a local floodplain permit needed for this location? **yes**-Floodplain Administrator: **Mike Howard, Plan Director**

Community Jurisdiction: Wabash County, County proper

Phone: (260) 563-0661

Email: plandirector@wabashcounty.in.gov

US Army Corps of Engineers District: Louisville

Date Generated: 5/15/2023

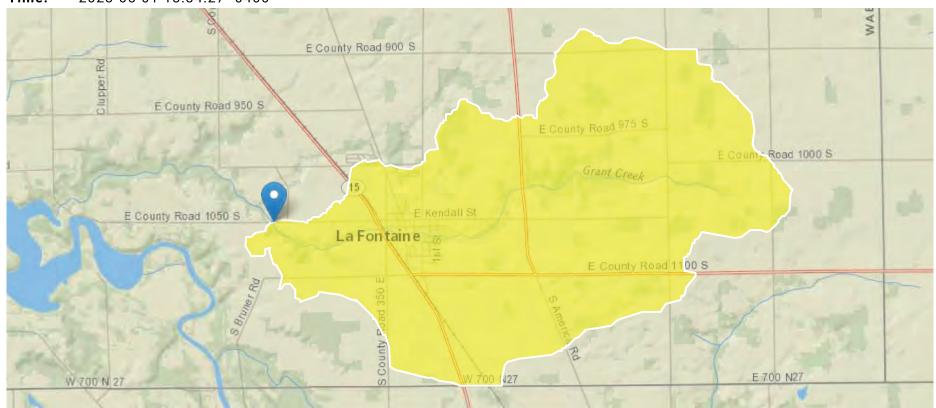
StreamStats Report

Region ID: IN

Workspace ID: IN20230501173404472000

Clicked Point (Latitude, Longitude): 40.67397, -85.74383

Time: 2023-05-01 13:34:27 -0400



Collapse All

Wabash County Bridge 143





Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB), Indiana Geographic Information Council (IGIC), UITS, Indiana Spatial Data Portal

Portal University Spatial Data Portal, UITS, Woolpert Inc.,



1) Overview of project location, looking east along CR 1050



2) Looking south (upstream) at Grant Creek passing beneath Bridge 143



3) Looking southeast (upstream) at Grant Creek from the south side of Bridge 143



4) Looking north at the sandbar present along Grant Creek upstream of Bridge 143



5) Looking at animal tracks and revetment present beneath the east span of Bridge 143



6) Looking northeast from Bridge 143 at the northeast quadrant of the bridge.



7) Looking northwest from Bridge 143 at the northwest quadrant of the bridge.



8) Looking southeast from Bridge 143 at the southeast quadrant of the bridge



9) Looking west (upstream) at UNT to Grant Creek



10) Looking southeast (downstream) at UNT to Grant Creek



11) Looking west at Sampling Point 1 in the SE quadrant of Bridge 143



12) Looking south at Sampling Point 1 in the SE quadrant of Bridge 143



13) Looking at the soil sample taken at Sampling Point 1

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site Wabash County Bridge 143	City/Cou	nty: LaFor	ntaine/Waba	sh County Sam	npling Date:	4/19/202	3
Applicant/Owner: Wabash County		State:	IN	Sam	pling Point:	1A	
Investigator(s): Neal Bennett		Section	on, Township	o, Range:	Sec. 28, Twp. 2	26N, Range	7E
Landform (hillslope, terrace, etc.): Floodplain		Local re	elief (concav	e, convex, non	ne):	Concave	
Slope (%): 1% Lat: 40.673925	Lo	ong:	-85.74413	34 Datu	ım: l	UTM 16N	
Soil Map Unit Name Genesee loam			۱WI (Classification:	Non	-wetland	
Are climatic/hydrologic conditions of the site typical for this	time of the	e year?	Y (I	f no, explain in	remarks)		
Are vegetation , soil , or hydrology	sig	gnificantly	disturbed?	Are	"normal circums	stances"	
Are vegetation , soil , or hydrology	na	turally pro	oblematic?		F	present? Ye	es
SUMMARY OF FINDINGS				(If needed, e	explain any ansv	vers in rema	rks.)
Hydrophytic vegetation present? Y							
Hydric soil present?		Is the sa	ampled area	a within a wet	land?	N	
Indicators of wetland hydrology present?		f yes, opt	tional wetlan	d site ID:		<u> </u>	
Remarks: (Explain alternative procedures here or in a separ	rate repor	t.)					
Sampling Point 1A was advanced in the southwes	-		oximately 3	30 feet from I	Bridge 143 in	a low floor	dolain
Camping Form 17 was advanced in the countries		ntour.	oximatory c	70 1001 110111 1	Shage Tie iii	a low floor	аріант
VEGETATION Use scientific names of plants.							
	olute Do	ominan	Indicator	Dominance	Test Workshee	et	
	Cover t S		Staus	Number of Do	ominant Species	i	
1					FACW, or FAC:		(A)
2					ber of Dominant		
3				Species A	Across all Strata:	11	(B)
4					ominant Species		(A /D)
5	0 = To	otal Cover		triat are OBL,	FACW, or FAC:	100.00%	(A/B)
Sapling/Shrub stratum (Plot size: 15' radius)		nai oovei		Prevalence	Index Workshe	eet	
1				Total % Cov	er of:		
2				OBL species	0 x 1	= 0	_
3				FACW speci			-
				FAC species			-
5		4-1 0		FACU specie			-
Herb stratum (Plot size: 5' radius)	0 = To	otal Cover		UPL species Column total			(B)
	30	V	FACW		$\frac{37}{\text{Index}} = B/A =$	2.05	- ^(D)
	5	Y N	FAC	rievalence i	nuex = b/A =	2.05	-
	<u> </u>	N -	FACW	Hydrophytic	C Vegetation In	dicators:	
	5	N	FACW		st for hydrophyt		า
5 Conium maculatum	2	N	FACW	X Dominar	nce test is >50%	6	
6				X Prevaler	nce index is ≤3.0	O*	
7					gical adaptations		
8				supportii separate	ng data in Rema	arks or on a	
10					atic hydrophytic	vegetation*	
	97 = To	tal Cover		(explain)		, vegetation	
Woody vine stratum (Plot size: 30' radius)				<u> </u>	hydric soil and wetl	land hydrology	muet ha
1					nt, unless disturbed	, ,,	
2				Hydropl	-		
	0 = Tc	otal Cover		vegetati present			
Demorker (holisde phote numbers have a service)) () () () () () () () () () (present	· <u>'</u>		
Remarks: (Include photo numbers here or on a separate sh	ieet)						

SOIL Sampling Point: 1A

Profile Desc	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm th	e absence	e of indicators.)		
Depth	<u>Matrix</u>		· · · · · · · · · · · · · · · · · · ·	dox Featu	<u>ures</u>						
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture)	Remarks		
0-18	10YR 4/2	100					Loam		<1 inch ribbon test		
		= Depleti	on, RM = Reduce	ed Matrix	, MS = N	1asked S			: PL = Pore Lining, M = Matrix		
1 -	il Indicators:								matic Hydric Soils:		
	isol (A1)				ed Matrix	(S4)			ox (A16) (LRR K, L, R)		
	ic Epipedon (A2)			dy Redo	. ,				(LRR K, L)		
	ck Histic (A3)			oped Ma	, ,			•	Masses (F12) (LRR K, L, R)		
	rogen Sulfide (A4	•		-	ky Minera	. ,			Surface (TF12)		
	tified Layers (A5))			ed Matrix	(F2)	Other (e	explain in r	emarks)		
	n Muck (A10)	Curtooo		leted Ma	Surface	(Ec)					
	leted Below Dark k Dark Surface (· · · · · · · · · · · · · · · · · · ·		irk Surface	. ,	*!!:				
	dy Mucky Minera	,			essions (. ,			phytic vegetation and weltand present, unless disturbed or		
	n Mucky Peat or	` '		iox Debit	53310113 ((10)	riyarolog		problematic		
			,						or objective to		
	Layer (if observe	ed):					l ludria aa	:	2 N		
Type: n/ Depth (inche							Hydric so	il present	? <u>N</u>		
	:5).				-						
Remarks:											
Well drai	ned alluvial so	ils, lack	of redox featu	res.							
HYDROLO)CV										
	drology Indicato	rei									
_				-11 414							
		of one is	required; check			40\	Seco		cators (minimum of two required)		
	Water (A1) ter Table (A2)				Fauna (B uatic Plar			_	oil Cracks (B6) Patterns (B10)		
Saturation	` '					Odor (C1		0	on Water Table (C2)		
	arks (B1)						Living Roots	_ *	Burrows (C8)		
	t Deposits (B2)			(C3)				_ ´	Visible on Aerial Imagery (C9)		
Drift Dep	osits (B3)			Presenc	e of Redu	uced Iron	(C4)	Stunted or	Stressed Plants (D1)		
Algal Ma	t or Crust (B4)			Recent I	ron Redu	ction in T	illed Soils	_	nic Position (D2)		
	osits (B5)			(C6)			X	FAC-Neut	ral Test (D5)		
	on Visible on Aeria				ck Surfac	. ,					
	Vegetated Conca tained Leaves (B9			_	r Well Da	ata (D9) Remarks	١				
	`)		Other (L	лріант ін	Nemarks)				
Field Obser		Voc	No	Y	Donth (i	nchos):					
Surface wate Water table		Yes Yes	No	X	Depth (i			Indi	cators of wetland		
Saturation p		Yes	No	X	Depth (i				drology present?		
(includes ca						-,		'			
	Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks:											
			•	ve wate	er eleva	ation in (Grant Creek. H	leavy pre	ecipitation the previous day,		
no evide	nce of ponding	or satu	ration.								

Appendix G Public Involvement

Sample Notice of Survey

April 13, 2022

NOTICE OF SURVEY

RE: Topographic Survey for the Replacement of Bridge 143 Carrying C.R. 1050 South over Grant Creek, 0.95 miles West of S.R. 15, Des. No. 2003065, Wabash County, Indiana

Dear Property Owner(s):

The Wabash County Board of Commissioners has selected Butler, Fairman and Seufert, Inc., to survey and design the referenced project. Courthouse records show that you are a property owner within the limits of the area where data will be collected for the project survey. It may be necessary for our employees to enter your property to complete this work. If you have sold this property, or it is occupied by someone else, please let us know the name and address of the new owner or current occupant so we can contact them about the survey.

At this stage, we generally do not know what effect, if any, our project can eventually have on your property. If we determine later that your property is involved, you will be contacted with additional information.

The survey work will include mapping the location of features such as trees, buildings, fences and drives, and obtaining ground elevations. The survey is needed for the proper planning and design of this bridge project. Please be assured of our sincere desire to cause you as little inconvenience as possible during this survey. If problems do occur, please contact our field crew or contact me at the telephone number or address shown above or the included e-mail address.

Sincerely,

Mark W. Neal, P.S. mneal@bfsengr.com

Appendix H Air Quality

State Preservation and Local Initiated Projects FY 2024 - 2028

SPONSOR	CONTR ACT#/ LEAD DES	STIP NAME	ROUTE	WORK TYPE	DISTRICT	MILES	FEDERAL CATEGORY	Total Cost of Project*	PROGRAM	PHASE	FEDERAL	MATCH	2024	2025	2026	2027	2028
Performance Measur	e Impacted:	Pavement	t Condition														
	Location: US 24 US 24 @ Wabash St, 1.15 Miles E of SR 15 and US 24 From SR 115 to SR 13																
Comments:Include DES 2000025, 2001847																	
Indiana Department	43285 /	A 01	US 24	HMA Overlay, Preventive Maintenance	Fort Wayne	4.455	NHPP	\$2,254,162.00	Safety Consulting	PE	\$160,000.00	\$40,000.00	\$200,000.00				
of Transportation	2001847																
Performance Measure Impacted: Pavement Condition																	
Location: US 24 US 24 @ Wabash St, 1.15 Miles E of SR 15 (2000025), US 24 From SR 115 to SR 13 (2001847-HMA)																	
Comments:Add PE \$200,000 FY2024. Des including 2000025 and 2001847.																	
Wabash County	43610 / 2003065	Init.	IR 1403	Bridge Replacement	Fort Wayne	.2	STBG	\$2,210,000.00	Local Bridge Program	CN	\$1,515,000.00	\$0.00			\$1,515,000.00		
									Local Funds	CN	\$0.00	\$379,000.00			\$379,000.00		
									Local Funds	DW	Φ0.00	#20,000,00					
									Local Fullus	RW	(\$0.00)	\$20,000.00	\$20,000.00				
									Local Bridge	RW	\$80,000.00	\$0.00	\$80,000.00				
									Program		,	•	(ψου,σου.σο)				
Performance Measure Impacted: Bridge Condition																	
Location: Bridge #143 on CR E 1050 S, over Grant Creek																	
Comments:Include D	ES 2003065	5															•
Wabash County	44289 / 2101741	Init.	IR 1403	Bridge Rehabilitation Or Repair	Fort Wayne	.125	STBG	\$3,306,000.00	Local Funds	CN	\$0.00	\$576,000.00			\$24,000.00	\$552,000.00	
	2101741																
									Local Bridge Program	CN	\$2,304,000.00	\$0.00			\$96,000.00	\$2,208,000.00	
									Local Funds	RW	\$0.00	\$8,000.00			\$8,000.00		
									Local Bridge	RW	\$33,000.00	\$0.00			\$33,000.00		
									Program								
Performance Measur	e Impacted:	Bridge Co	ndition											•			
Location: Bridge #96;	On East Ha	inging Roc	ck Road ov	er the Salamonie River													
Comments:Include D			_														
Wabash County	44290 / 2101775	Init.	IR 8827	HMA Overlay Minor Structural	Fort Wayne	7.81	STBG	\$3,725,000.00	Group IV Program	RW	\$8,000.00	\$0.00		\$8,000.00			
				L	1		1	1	Local Funds	RW	\$0.00	\$2,000.00		\$2,000.00			
									Group IV Program	CN	\$2,812,000.00	\$0.00				\$2,812,000.00	
									Local Funds	CN	\$0.00	\$703,000.00				\$703,000.00	

Appendix I Additional Studies

Section 6(f) Properties in Wabash County

Source: Land and Water Conservation Fund website (https://lwcf.tplgis.org/mappast/)

Project Number	Sponsor	Property
1800266	Roann Park Board	Roann Park
1800290	Wabash Park Board	Wabash City Park (Wabash City Park Log Cabin)
1800291	Wabash Park Board	Charley Creek Park
1800304	IDNR	Laketon Bog
1800363	IDNR	Mississinewa Reservoir
1800363	IDNR	Salamonie Reservoir
1800378	IDNR	Mississinewa Reservoir
1800449	IDNR	Red Bridge SRA

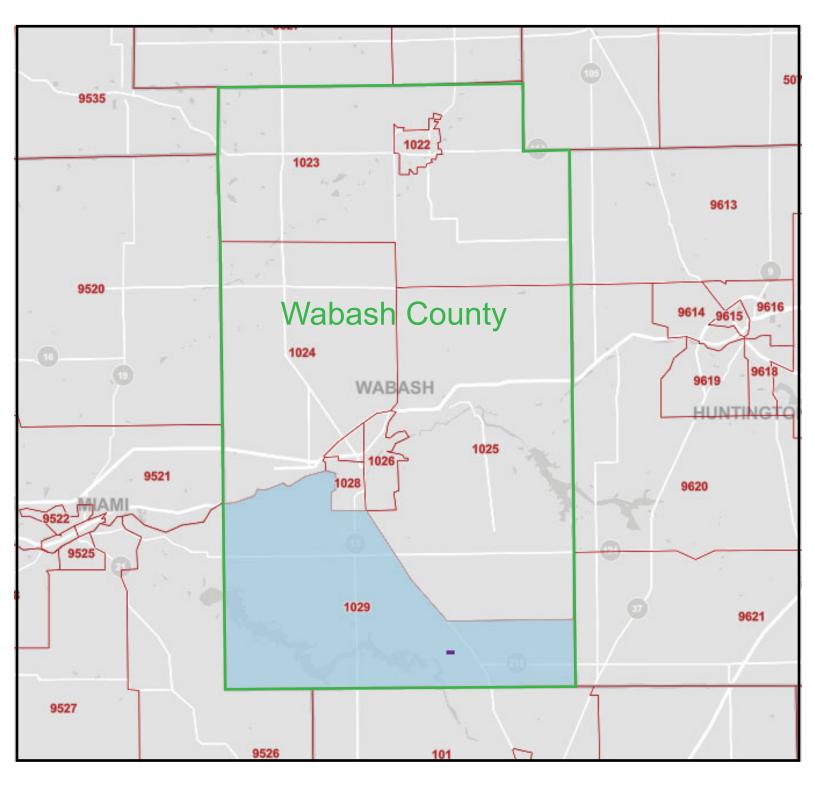
Environmental Justice Data Analysis

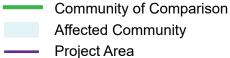
Des. No. 2003065: Wabash County Bridge No. 143

Source: U.S. Census Bureau 2021 ACS 5-year Estimates

		COC	AC
		Wabash County, Indiana	Census Tract 1029 Wabash County, Indiana
	LOW-INCOME		
	Population for whom poverty status is determined: Total	29,222	3,3
	Income in the past 12 months below poverty level	3,616	
B17001	Percent Low-income	12.4%	12
	125 Percent of COC	15.5%	AC <125% COC
	Potential Population of EJ Concern?		No
	MINORITY		
	Total population: Total	31,120	3
	Total population: Not Hispanic or Latino	30,273	3
	Total population: Not Hispanic or Latino; White alone	29,121	3
	Total population: Not Hispanic or Latino; Black or African American alone	314	
	Total population: Not Hispanic or Latino; American Indian and Alaska Native alone	212	
	Total population: Not Hispanic or Latino; Asian alone	161	
	Total population: Not Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone	13	
	Total population: Not Hispanic or Latino; Some other race alone	72	
	Total population: Not Hispanic or Latino; Two or more races	380	
	Total population: Hispanic or Latino	847	
B03002	Total population: Hispanic or Latino; White alone	412	
	Total population: Hispanic or Latino; Black or African American alone	21	
	Total population: Hispanic or Latino; American Indian and Alaska Native alone	15	
	Total population: Hispanic or Latino; Asian alone	0	
	Total population: Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone	0	
	Total population: Hispanic or Latino; Some other race alone	341	
	Total population: Hispanic or Latino; Two or more races	58	
	Number Non-white/minority	1,999	
	Percent Non-white/Minority	6.4%	4
	125 Percent of COC	8.0%	AC <125% COC
	Potential Population of EJ Concern?		No

Environmental Justice Community Map





Wabash County Bridge 143
Wabash County, Indiana
Des No. 2003065



HISPANIC OR LATINO ORIGIN BY RACE



Note: This is a modified view of the original table produced by the U.S. Census Bureau. This download or printed version may have missing information from the original table.

	Wabash County, Indiana	Ce	ensus Tract 1029, Wabas	h County, Indiana
abel	Estimate	Margin of Error	Estimate	Margin of Error
/ Total:	31,120	*****	3,421	±317
✓ Not Hispanic or Latino:	30,273	****	3,389	±317
White alone	29,121	±144	3,274	≅328
Black or African American alone	314	±51	12	±13
American Indian and Alaska Native alone	212	±71	0	±12
Asian alone	161	±48	26	±33
Native Hawailan and Other Pacific Islander alone	13	±19	0	±12
Some other race alone	72	±77	53	±71
> Two or more races:	380	±148	24	±23
→ Hispanic or Latino:	847	****	32	±26
White alone	412	±102	.21	±23
Black or African American alone	21	±26	0	±12
American Indian and Alaska Native alone	15	±23	Ó	±12
Asian alone	Q	±26	0	±12
Native Hawailan and Other Pacific Islander alone	0	±26	0	±12
Some other race alone	341	±110	6	±14
> Two or more races:	58	±66	5	±7

Table Notes

HISPANIC OR EATING ORIGIN BY RACE

Universe: Total population

Year: 2021

Estimates: 5-Year **Table ID:** B03002

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Source: U.S. Census Bureau, 2017-2021 American Community Survey 5-Year Estimates

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see ACS Technical Documentation). The effect of nonsampling error is not represented in these tables.

The Hispanic origin and race codes were updated in 2020. For more information on the Hispanic origin and race code changes, please visit the American Community Survey Technical Documentation website.

The 2017-2021 American Community Survey (ACS) data generally reflect the March 2020 Office of Management and Budget (OMB) delineations of metropolitan and micropolitan statistical areas. In certain instances, the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB delineation lists due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Explanation of Symbols:

The estimate could not be computed because there were an insufficient number of sample observations. For a ratio of medians estimate, one or both of the median estimates falls in the lowest interval or highest interval of an open-ended distribution. For a 5-year median estimate, the margin of error associated with a median was larger than the median itself.

The estimate or margin of error cannot be displayed because there were an insufficient number of sample cases in the selected geographic area.

(X)

The estimate or margin of error is not applicable or not available.

median-

The median falls in the lowest interval of an open-ended distribution (for example "2,500-")

median+

The median falls in the highest interval of an open-ended distribution (for example "250,000+").

The margin of error could not be computed because there were an insufficient number of sample observations.

The margin of error could not be computed because the median falls in the lowest interval or highest interval of an open-ended distribution.

A margin of error is not appropriate because the corresponding estimate is controlled to an independent population or housing estimate. Effectively, the corresponding estimate has no sampling error and the margin of error may be treated as zero.

POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE



Note: This is a modified view of the original table produced by the U.S. Census Bureau. This download or printed version may have missing information from the original table.

	Wabash County, Indiana		Census Tract 1029, Wabash County, Indiana	
Label	Estimate	Margin of Error	Estimate	
▼ Total:	29,222	±332	3,304	
➤ Income in the past 12 months below poverty level:	3,616	±601	424	
> Male:	1,537	±357	177	
> Female:	2,079	±372	247	
✓ Income in the past 12 months at or above poverty level:	25,606	±711	2,880	
> Male:	12,923	±402	1,415	
> Female:	12,683	±475	1,465	

Table Notes

POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE

Survey/Program: American Community Survey

Universe: Population for whom poverty status is determined

Year: 2021

Estimates: 5-Year

B17001: POVERTY STATUS IN THE PAST ... - Census Bureau Tables

Table ID: B17001

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Source: U.S. Census Bureau, 2017-2021 American Community Survey 5-Year Estimates

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see ACS Technical Documentation). The effect of nonsampling error is not represented in these tables.

The 2017-2021 American Community Survey (ACS) data generally reflect the March 2020 Office of Management and Budget (OMB) delineations of metropolitan and micropolitan statistical areas. In certain instances, the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB delineation lists due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Explanation of Symbols:

-

The estimate could not be computed because there were an insufficient number of sample observations. For a ratio of medians estimate, one or both of the median estimates falls in the lowest interval or highest interval of an open-ended distribution. For a 5-year median estimate, the margin of error associated with a median was larger than the median itself.

Ν

The estimate or margin of error cannot be displayed because there were an insufficient number of sample cases in the selected geographic area.

(- -)

The estimate or margin of error is not applicable or not available.

median

The median falls in the lowest interval of an open-ended distribution (for example "2,500-")

median

The median falls in the highest interval of an open-ended distribution (for example "250,000+").

...

The margin of error could not be computed because there were an insufficient number of sample observations.

The margin of error could not be computed because the median falls in the lowest interval or highest interval of an open-ended distribution.

A margin of error is not appropriate because the corresponding estimate is controlled to an independent population or housing estimate. Effectively, the corresponding estimate has no sampling error and the margin of error may be treated as zero.

Bridge Inspection Report

85-00143 CR 1050 S over GRANT CREEK



Inspection Date: 05/17/2022

Inspected By: Jason Petersen

Inspection Type(s): Routine

Inspector: Jason Petersen Asset Name: 85-00143
Inspection Date: 05/17/2022 Facility Carried: CR 1050 S

Bridge Inspection Report

WEARING SURFACE PATCHED, SPALLED, AND UNEVEN, CRACKS OVER PIERS, NUMEROUS LONGITUDINAL AND TRANSVERSE CRACKS, EXPOSED TOP OF BEAM AT NORTHEAST CORNER SPALLED.TRANSVERSE CRACKS, MINOR SPALLS WITH EXPOSED STEEL IN BOTTOM OF DECK, NO MAIN REINFORCING BARS EXPOSED, SEEPAGE BETWEEN BEAMS WITH EFFLORESCENCE.TRANSVERSE CRACKS, MINOR SPALLS WITH EXPOSED STEEL IN BOTTOM OF DECK, NO MAIN REINFORCING BARS EXPOSED, SEEPAGE BETWEEN BEAMS WITH EFFLORESCENCE.BOTH END BENTS UNDERPINNED WITH CONCRETE AND SHEET PILES, PIER 2 WITH MINOR EXPOSED STEEL, COLUMNS 3 AND 4 AT PIER 3 WITH LARGE SPALLS AT WATERLINE.MINOR EROSION, SILT BUILDUP IN EAST SPAN.

RECOMMEND REPLACING STRUCTURE IN 2026 DUE TO ADVANCING DETERIORATION.

Inspector: Jason Petersen Asset Name: 85-00143
Inspection Date: 05/17/2022 Facility Carried: CR 1050 S

Bridge Inspection Report

IDENTIFICATION

(1) STATE CODE: 185 - Indiana

(8) STRUCTURE: 8500465

(5 A-B-C-D-E) INV. ROUTE: 1 - 4 - 1 - 00012 - 0

(2) HIGHWAY AGENCY 02 - Fort Wayne

DISTRICT:

(3) COUNTY CODE: 085 - WABASH

(4) PLACE CODE: 00000 - N/A

(6) FEATURES INTERSECTED: GRANT CREEK

(7) FACILITY CARRIED: CR 1050 S

(9) LOCATION: 00.10 W OF

(11) MILEPOINT: LAFONTAINE 0000.000

(12) BASE HIGHWAY NETWORK: 0

(13A) INVENTORY ROUTE:

(13B) SUBROUTE NUMBER:

(16) LATITUDE: 40.674

(17) LONGITUDE: -85.74429

(98) BORDER

A) STATE NAME:

B) PERCENT %

(99) BORDER BRIDGE STRUCT.

NO:

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN:

A) KIND OF 1 - Concrete

MATERIAL/DESIGN:

B) TYPE OF DESIGN/CONSTR: 22 - Channel Beam

(44) STRUCTURE TYPE, APPROACH SPANS:

A) KIND OF 0 - Other

MATERIAL/DESIGN:

B) TYPE OF DESIGN/CONSTR: 00 - Other

(45) NUMBER OF SPANS IN MAIN 003

UNIT:

(46) NUMBER OF APPROACH 0000

SPANS:

(107) DECK STRUCTURE TYPE: 2 - Concrete Precast

Panels

(108) WEARING SURFACE/PROT

SYS:

A) WEARING SURFACE: 6 - Bituminous

B) DECK MEMBRANE: 0 - None

C) DECK PROTECTION: 0 - None

AGE OF SERVICE

(27) YEAR BUILT: 1960

(106) YEAR RECONSTRUCTED: 0000

(42) TYPE OF SERVICE:

A) ON BRIDGE: 1 - Highway

B) UNDER BRIDGE: 5 - Water way

(28) LANES:

A) ON BRIDGE: 02

B) UNDER BRIDGE: 00

(29) AVERAGE DAILY TRAFFIC: 000220

(30) YEAR OF AVERAGE DAILY 2022

TRAFFIC:

(109) AVERAGE DAILY TRUCK 05 %

TRAFFIC:

(19) BYPASS DETOUR LENGTH: 003 MI

110

Inspector: Jason Petersen Asset Name: 85-00143

Inspection Date: 05/17/2022 Facility Carried: CR 1050 S

Bridge Inspection Report

GEOMETRIC DATA

(48) LENGTH OF MAX SPAN:	00036.0	FT	(35) STRUCTURE FLARED:	0 - No	flare
(49) STRUCTURE LENGTH:	00067.5	FT	(10) INV RTE, MIN VERT	99.99	FT
(50) CURB/SIDEWALK WIDTHS:			CLEARANCE:		
A) LEFT	01.0	FT	(47) TOT HORIZ CLEARANCE:	024.6	FT
•			(53) VERT CLEAR OVER BR RDWY:	99.99	FT
B) RIGHT:	01.0	FT	(54) MIN VERTICAL		
(51) BRDG RDWY WIDTH CURB-	024.6	FT	UNDERCLEARANCE:		
TO-CURB:			A) REFERENCE FEATURE:	N	
(52) DECK WIDTH, OUT-TO-OUT:	026.6	FT	B) MIN VERT UNDERCLEAR:	00.00	FT
		FT	(55) LATERAL UNDERCLEARANCE		
(32) APPROACH ROADWAY	018.0	ГІ	RIGHT:	NT.	
(33) BRIDGE MEDIAN:	0 - No m	edian	A) REFERENCE FEATURE:	N	7.77
			B) MIN LATERAL UNDERCLEAR:	0.000	FT
(34) SKEW:	30 I	DEG	(56) MIN LATERAL UNDERCLEAR	0.000	FT
			ON LEFT:		

INSPECTIONS

(90) INSPECTION DATE: (92) CRITICAL FEATURE	05/17/2022	(91) DESIGNATED INSPECTION FREQUENCY:	12	MONTHS
INSPECTION: A) FRACTURE CRITICAL REQUIRED/FREQUENCY:	N	(93) CRITICAL FEATURE INSPECTION DATE: A) FRACTURE CRITICAL DATE:		
B) UNDERWATER INSPECTION REQUIRED/FREQUENCY:	N	B) UNDERWATER INSP DATE:		
C) OTHER SPECIAL INSPECTION REQUIRED/FREQUENCY:	N	C) OTHER SPECIAL INSP DATE:		

CONDITION

(58) DECK: (58.01) WEARING SURFACE:	5 - Fair Condition (minor section loss) 5 - Fair Condition	(60) SUBSTRUCTURE:	4 - Poor Condition (advanced deterioration)
(59) SUPERSTRUCTURE:	5 - Fair Condition (minor section loss)	(61) CHANNEL/CHANNEL PROTECTION:	5 - Bank eroded major damage
		(62) CULVERTS:	N - Not Applicable

CONDITION COMMENTS

(58) DECK: 5 - Fair Condition (minor section loss)

Comments:

FAIR-TRANSVERSE CRACKS, MINOR SPALLS WITH EXPOSED STEEL IN BOTTOM OF DECK, NO MAIN REINFORCING BARS EXPOSED, SEEPAGE BETWEEN BEAMS WITH EFFLORESCENCE

Material: PRECAST CONCRETE CHANNEL BEAMS

(58.01) WEARING SURFACE: 5 - Fair Condition

Comments:

FAIR-PATCHED, SPALLED, AND UNEVEN, CRACKS OVER PIERS, NUMEROUS LONGITUDINAL AND TRANSVERSE CRACKS, EXPOSED TOP OF BEAM AT NORTHEAST CORNER SPALLED

Material: BITUMINOUS (2")

Inspector: Jason Petersen Asset Name: 85-00143
Inspection Date: 05/17/2022 Facility Carried: CR 1050 S

Bridge Inspection Report

(59) SUPERSTRUCTURE: 5 - Fair Condition (minor section loss)

Comments:

FAIR-TRANSVERSE CRACKS, MINOR SPALLS WITH EXPOSED STEEL IN BOTTOM OF DECK, NO MAIN REINFORCING

BARS EXPOSED, SEEPAGE BETWEEN BEAMS WITH EFFLORESCENCE

Material: PRECAST CONCRETE CHANNEL BMS

(60) SUBSTRUCTURE: 4 - Poor Condition (advanced deterioration)

Comments:

POOR-BOTH END BENTS UNDERPINNED WITH CONCRETE AND SHEET PILES, PIER 2 WITH MINOR EXPOSED

STEEL, COLUMNS 1 AND 2 AT PIER 3 WITH LARGE SPALLS AT WATERLINE

Material: CAP ON CONCRETE COLUMNS

(61) CHANNEL/CHANNEL 5 - Bank eroded.. major damage

PROTECTION

Comments:

FAIR-MINOR EROSION, SILT BUILDUP IN EAST SPAN, CHANNEL MEANDERING

Material: NATURAL/RIPRAP

(62) CULVERTS: N - Not Applicable

Comments: N/A

Material: N/A

LOAD RATING AND POSTING

(31) DESIGN LOAD:	0 - Unknown	(66) INVENTORY RATING: 36
(70) BRIDGE POSTING	5 - Equal to or above	(65) INVENTORY RATING METHOD: 0 - Field evaluation
	legal loads	and documented
		engineering
(41) STRUCTURE	A - Open	judgment

OPEN/POSTED/CLOSED:

(64) OPERATING RATING: 36

(63) OPERATING RATING

METHOD:

0 - Field evaluation and documented engineering

judgment

(66B) INVENTORY RATING (H):

(66C) TONS POSTED:

(66D) DATE POSTED/CLOSED:

APPRAISAL

SUFFICIENCY RATING:	63.9	(36) TRAFFIC SAFETY FEATURE:	
STATUS:	1	36A) BRIDGE RAILINGS:	0
(67) STRUCTURAL EVALUATION	N: 4	36B) TRANSITIONS:	0
(68) DECK GEOMETRY:	5	36C) APPROACH GUARDRAIL:	0
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL:	N	36D) APPROACH GUARDRAIL ENDS:	0

(71) WATERWAY ADEQUACY:

5 - Occasional Overtopping of Approaches - Significant Delays

Comments:

APPEARS BARELY ADEQUATE

(72) APPROACH ROADWAY ALIGNMENT: 8 - Equal to present desirable criteria

Comments:

GOOD-WORN, TRANSVERSE CRACKS Material: BITUMINOUS (72): VERY GOOD-STRAIGHT, RISE TO WEST

Inspector: Jason Petersen Asset Name: 85-00143
Inspection Date: 05/17/2022 Facility Carried: CR 1050 S

Bridge Inspection Report

(113) SCOUR CRITICAL BRIDGES:

5 - Scour within limits of footing or piles

Comments:

STABLE-WITHIN LIMITS

CLASSIFICATION

(20) TOLL: 3 - On Free Road (21) MAINT. RESPONSIBILITY: 02 - County Highway Agency

(22) OWNER: 02 - County Highway (26) FUNCTIONAL CLASS OF

N - No parallel structure

Agency INVENTORY RTE:

(37) HISTORICAL SIGNIFICANCE: 5 - Not eligible
(100) STRAHNET HIGHWAY: Not a STRAHNET route

(102) DIRECTION OF TRAFFIC: 2-way traffic

(103) TEMPORARY STRUCTURE:

(104) HIGHWAY SYSTEM OF 0 - Structure/Route is INVENTORY ROUTE: NOT on NHS

HIGHWAYS:

(110) DESIGNATED NATIONAL Inventory route not on NETWORK: network

NAVIGATION DATA

(101) PARALLEL STRUCTURE:

(38) NAVIGATION CONTROL: 0 - No navigation (39) NAVIGATION VERTICAL CLEAR: 000.0 FT

control on waterway (bridge permit not required) (116) MINIMUM NAVIGATION VERT. FT CLEARANCE, VERT. LIFT BRIDGE:

09 - Rural - Local

(111) PIER OR ABUTMENT (40) NAV HORIZONTAL CLEARANCE: 0000.0 FT

PROTECTION: (40) NAV HORIZONTAL CLEARANCE: 0000.0 F

PROPOSED IMPROVEMENTS

(75A) TYPE OF WORK: 31 - Replacement - (95) ROADWAY IMPROVEMENT COST: \$ 000225

Load/Geometry

(75B) WORK DONE BY: 1 - Work to be done by (96) TOTAL PROJECT COST: \$ 000725

contract (97) YR OF IMPROVEMENT COST EST: 2022

(76) LENGTH OF IMPROVEMENT: 000093. FT (114) FUTURE AVG DAILY TRAFFIC: 000330

0 (115) YR OF FUTURE ADT: 2042

(94) BRIDGE IMPROVEMENT \$ 000500

COST: