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

Road	No./County:	United States	Highway (US) 6/Marshall	l and Elkhar	t Counties	
Desig	nation Number(s):	1702997 & 20	01886				
Project Descr	ct ription/Termini:					nalt (HMA) and shoulder wide 03 miles west of SR 19	ning
	Categorical Exclusion	, Level 2 – Req	uired Sign	atories: INDOT	DE and/or	INDOT ESD	
X	Categorical Exclusion	, Level 3 – Req	uired Sign	atories: INDOT	ESD		
	Categorical Exclusion	, Level 4 – Req	uired Sign	atories: INDOT	ESD and F	HWA	
	Environmental Assess	ment (EA) - Re	equired Sig	gnatories: IND0	OT ESD and	I FHWA	
						nge from the original approve e environmental approval	:d
Approv	val						
• •		DE Signature an	d Date		INDO	OT ESD Signature and Date	
Releas	FHW se for Public Involvem	/A Signature and	Date FM	08/08/2024		ADWP August 8,	2024
			INDOT D	DE Initials and Da	ate	INDOT ESD Initials and Da	ite
Certific	cation of Public Invol	vement					
				INDOT Cor	nsultant Servi	ces Signature and Date	
INDOT D	DE/ESD Reviewer Signature	and Date:					

Chris Kunkel/Lochmueller Group, Inc.

Name and Organization of CE/EA Preparer:

County Maraball 9 Elikhart	Davita	LIC 6	_	Dag Na	1702007	9 2001996
County Marshall & Elkhart	Route	US 6	_	Des. No.	1702997	<u>& 2001886</u>
Note: Refer to the most current INDC any section of this form.	OT CE Manual, guida	nce language, and ot	her ESD resoเ	ırces for fui	ther guidan	ce regarding
	<u> Part I – I</u>	Public Involv	<u>ement</u>			
Every Federal action requires some le project development process. The leve						
Does the project have a histo If No, then: Opportunity for a Public He		under the Historic Br	idges PA*?	Yes	No X	
*A public hearing is required for all hist FHWA, SHPO, and the ACHP.		ed under the Historic	Bridges Progr		greement be	etween INDOT,
Discuss what public involvement activi meetings, special purpose meetings, r				d residents	(i.e. notice	of entry),
Notice of Survey letters were mad again on February 8, 2023 n field activities may be seen in the G1 to G2.	ailed to potentially otifying them abou	affected property c t the project and th	wners near t at individuals	s responsi	ble for land	d surveying and
The project will meet the mining (INDOT) Project Development Propulation and opportunity to submit a local publication contingent upon after the public involvement requirement.	ublic Involvement in comments and/or r in the release of thi	P <i>rocedures Manua</i> request a public he s document for pu	n/ which requirearing. There	ires the pi fore, a leg	oject spor gal notice v	sor to offer the will appear in a
Public Controversy on Environmental Discuss public controversy concerning minimize impacts.			cts, including w	/hat is bein	g done durir	ng the project to
At this time, there is no substantia	al public controvers	y concerning impa	cts to the con	nmunity o	to natural	resources.
Part II - General Pro	ject Identific	ation, Descri	ption, an	<u>d Desi</u>	gn Info	<u>rmation</u>
Sponsor of the Project:	INDOT			INDO	T District:	LaPorte
Local Name of the Facility:	US 6 (locally identity	fied as Market Street)			
Funding Source (mark all that	t apply): Fede	eral X State	X Local	Othe	r*	
*If other is selected, please id	lentify the funding so	urce:	N/A			
PURPOSE AND NEED:						
The need should describe the specific the goal or objective of the project. The						should describe
Need: The need for the project stems		•				nd many of the
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Version: December 2021

County	Marshall & Elkhart	Route	US 6		Des. No	1702997	7 & 2001886	<u>i</u>
No. 2001 longitudir 6 are in 1 missing. pavemen 6 being 1 the rough in/mi beir the Dece US 6 doe	structures along this stretch of L 886 (Appendix I, I13 to I22), the hal joint distress. The shoulders a fair condition or worse (Appendix Others exhibited pavement cract condition data received from IN 14 inches per mile (in/mi) which mess of roadway with a value on g considered "acceptable" and a mber 26, 2019 Abbreviated Engites not have adequate width to see 6. This contributes to a lack of e.	e pavemer re in poor (I, I20). No cking on a DOT show is conside f 171 in/m I value les neer's Re afely acco	nt has exit condition from the roady withat the ered "acception or great so than 95 port for Dommodate	tensive transverse on Many of the drainal ne metal structures lavay above indicating International Rough eptable" (Appendix I, ter being considered in/mi being considered No. 1702997 (As the horse-drawn can	racking, vage structung damage damage iness Inde iness Inde inge iness inde iness in	videning cra ures within the ificant rust value within the ex (IRI) for the is a metric unit value from d." Additional 121 to 122), cycle, and provident in the cratical in value from the cratical states and provident in the cratical	ack distress his stretch with full see pipe. Also his stretch used to me 170 in/mi ally, accord this segmo pedestrian	s, and of US ctions o, the of US asure to 96 ling to ent of traffic
transvers	ose of the project is to improve e cracking, widening crack distr o providing accommodations fo	ess, and	longitudir	al joint distress of t	the paven	nent and sh	oulder of l	US 6,
PROJEC	T DESCRIPTION (PREFERRED	ALTERN	ATIVE):					
County:	Marshall & Elkhart	Mun	icipality:	Bremen & Nappane	е			
Limits of P	Proposed Work:Along US 6, from	east junct	ion of SR ²	106 to 2.03 miles west	of SR 19			
Total Work	c Length: 5.41 Mile(s)		Total Work Area:	93.92	Acre(s)		
If y	an Interstate Access Document (IAD res, when did the FHWA provide a Doceptability? 1 If an IAD is required; a copy of the final approval of the IAD.	eterminatio	n of Engin			Yes¹ Date: N/A FHWA with a l		
current defici impacts, an The INDO	cation of project including township, in ciencies, roadway description, surround d how the project will meet the Purpo DT LaPorte District and the Fede 6 in northeastern Marshall and s	inding featu ise and Ne ral Highwa	ures, etc. F ed. Logica ay Admini	Preferred alternatīve sh I termini and independe Istration (FHWA) inte	<i>ould includ</i> ent utility al end to pro	e the scope o so need disc	of work, antic ussed.	cipated
northeast 30, 32, a project is	n: posed project is located along tern Marshall and southwestern E nd 33, Township 35 North, Rang lacated in Sections 34 and 35, and Nappanee West Quadrangle	ilkhart Co e 3 East a Township	unties. In and Rang o 35 Nort	Marshall County, the le 4 East within Gern h, Range 4 East in	e project i man Towr Locke To	s located in nship. In Elk ownship, as	Sections 2 hart Count depicted o	5, 29, ty, the on the
US 6 is a	Conditions: an east/west highway, which is foots section of US 6 within the p							

Date: August 6, 2024

US 6 Roadway Project

This is page 3 of 30 Project name:

County	Marshall & Elkhart	Route US 6	Des. No. 1702997 & 2001886
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with paved outside shoulders varying from 1 to 10 feet in width. Additionally, there are 11-foot-wide dedicated right turn lanes at the intersections of Douglas Road (SR 106), Dogwood Road, Beech Road, and Shawnee Street. The posted speed limit along this stretch of US 6 is 55 miles per hour (mph) from Douglas Road/SR 106 to Shawnee Street and 45 mph from Shawnee Street to the eastern terminus. Drainage within the project area is currently conveyed by constructed roadside ditches, small structures, and culverts along and under US 6.

The existing US 6 roadway pavement has extensive transverse cracking, widening crack distress, and longitudinal joint distress. The shoulders are in poor condition. The structures within this stretch of US 6 are in fair condition or worse with section loss due to rust and other various signs of deterioration, according to the Abbreviated Engineer's Report for Des. No. 2001886 (Appendix I, I20). See the *Bridges and/or Small Structures* section of this document for more details.

Adjacent land use is primarily rural and consists of farm fields, residences, light industrial and commercial properties, and wooded areas with streams and wetlands (Appendix B, B5 to B21).

Preferred Alternative:

The proposed project involves the application of a new HMA overlay and shoulder widening along US 6 from the east junction of SR 106 to 2.03 miles west of SR 19. Approximately 1.5 inches of the existing pavement will be milled and four inches of HMA overlay will be applied. Where the existing shoulders are less than 8 feet wide, they will be widened to 8 feet to accommodate horse-drawn carriages and bicyclists in the area. Additionally, there are 41 drainage structures within the project area that will be removed, replaced, repaired, or extended. Most of the structures will have riprap placed at their outlet (Appendix C, C43). The total amount of riprap to be placed is approximately 0.05 acre. The structure work includes replacing two large culverts (CLV-100157 & CLV-100155), that convey the east crossing of George Marberger Ditch, with a single 94-foot long pipe with an 84-inch diameter. CLV-100157, a 61-foot long reinforced concrete pipe (RCP) with a 36-inch diameter, and CLV-100155, a 41-foot long reinforced concrete box (RCB) structure with a 48 inch by 48 inch opening, are the only large culverts within the project area that will be impacted by the project. The remaining impacted structures consist of smaller driveway culverts and culverts under roadways, all less than 24 inches in diameter. The project will also involve regrading the roadside ditches to accommodate the widened shoulders. The proposed improvement will maintain the existing travel lane widths and will not introduce any added travel lanes or turn lanes. Guardrails will be removed and replaced at the southeast corner of the intersection of SR 106 and US 6 (approximately 220 feet), at the culvert carrying the west crossing of George Marberger Ditch (325 feet on the north side of the road and 382 feet on the south side of the road), and at the side-byside culverts carrying the east crossing of George Marberger Ditch (approximately 475 feet on the north side of the road and 746 feet on the south side of the road) (Appendix B, B46 to B107).

This project requires the acquisition of approximately 20.41 acres of new permanent right-of-way (ROW) and approximately 1.05 acres of temporary ROW. The project is anticipated to permanently impact a total of 122 linear feet (0.03 acre) of George Marberger Ditch by structure replacement and riprap placement activities. The project is anticipated to permanently impact a total of 0.846 acre of wetlands due to shoulder pavement placement, ditch construction, grading the roadside drainage areas, riprap placement, and structure work activities. The project is also anticipated to temporarily impact a total of 0.0101 acre of wetlands due to construction access activities. Approximately 1.09 acre of tree clearing will occur to accommodate shoulder widening and ditch grading activities. The project will minimize impacts to these features by limiting the extent of the construction limits to what is necessary to achieve the project purpose and need. Terrestrial habitat impacts have also been minimized to the greatest extent possible to achieve the purpose and need of the project. Complete avoidance of these impacts is not practicable to meet the purpose and need of the project. Mitigation for wetland impacts will likely be required.

The maintenance of traffic (MOT) plan will occur in six phases. The first phase will involve complete closure of US 6. Phases II through V will involve various lane closures to accommodate shoulder and overlay work. Phase VI will have intermittent closures of one lane at a time and have a mobile flagging operation in place. A detour utilizing SR 19, US 20, and SR 331 will be in place during the first five phases. See the *Maintenance of Traffic (MOT) During Construction* section of this document for more details.

This is page 4 of 30	Project name:	US 6 Roadway Project	Date:	August 6, 2024

Indiana Department of Transportation									
Marshall & Elkhart	Route	US 6	Des. No.	1702997 & 2001886					
a less than 70 in/ı									
ini for the project a al beginning and e t the purpose and	re from the east junction nd points of this project need of the project. T	in order to complishing project is in-	olete the HMA overlay a	and shoulder widening that					
I Alternative rnative would not t involve any imme avement of US 6, at a later date. No d deterioration and onsideration becau	involve any improvemer ediate cost or result in ar the pavement would c ot addressing the poor of I reduce their ability to o se it would not address t	nts to US 6 or to ny environmental ontinue to deter conditions of the convey drainage he purpose and i	the drainage structure impacts. However, if no iorate and result in gre drainage structures alo along US 6. This alter	es along the roadway. This improvements were made eater costs to improve the eng US 6 will result in their					
would not correct exist would not correct exist would not correct the would not correct exist would result in seriou	sting capacity deficiencies; sting safety hazards; existing roadway geometric sting deteriorated conditions	c deficiencies; s and maintenance	problems; or	X X X X					
AY CHARACTER:									
sed action includes r	multiple roadways, complete	e and duplicate for	each roadway.	_					
I Classification: DT: our Volume (DHV):	1,211 Truck Percer	ntage (%)11	57	VPD (2045)					
	remini/Independing for the project and all beginning and enter the purpose and	Marshall & Elkhart Route Posed alternative will meet the purpose and a less than 70 in/mi and widen the roadward panee. Termini/Independent Utility: ini for the project are from the east junction all beginning and end points of this project at the purpose and need of the project. The ded without relying on the completion of any and the purpose and need of the project. The ded without relying on the completion of any and the purpose and need of the project. The ded without relying on the completion of any are all discards was not selected. Make sure to state how each alternative would not involve any improvement involve any immediate cost or result in an any avenuent of US 6, the pavement would contact a later date. Not addressing the poor of deterioration and reduce their ability to consideration because it would not address the alternatives were considered for this project would not correct existing capacity deficiencies; would not correct existing safety hazards; would not correct existing deteriorated conditions would result in serious impacts to the motoring period of the project of the project would not correct existing deteriorated conditions would result in serious impacts to the motoring period her (Describe): AY CHARACTER: Seed action includes multiple roadways, complete and action includes m	Marshall & Elkhart Route US 6 Dosed alternative will meet the purpose and need of the propose and a less than 70 in/mi and widen the roadways to accommod panee. Termini/Independent Utility: ini for the project are from the east junction of SR 106 to 2.0 all beginning and end points of this project in order to complet the purpose and need of the project. This project is included without relying on the completion of any other project. ALTERNATIVES CONSIDERED: Leader for each alternative. Describe all discarded alternatives, included and involve any improvements to US 6 or to a laternative would not involve any improvements to US 6 or to a laternative would not involve any improvements to US 6 or to a later date. Not addressing the poor conditions of the deterioration and reduce their ability to convey drainage on sideration because it would not address the purpose and relaternatives were considered for this project. Let No Build Alternative is not feasible, prudent or practicable to would not correct existing capacity deficiencies; would not correct the existing roadway geometric deficiencies; would not correct existing deteriorated conditions and maintenance would result in serious impacts to the motoring public and general wher (Describe): AY CHARACTER: Sed action includes multiple roadways, complete and duplicate for Roadway LI Classification: DT: 11,027 VPD (2025) Design Yeiger Volume (DHV): 11,211 Truck Percentage (%) 11.	Marshall & Elkhart Route US 6 Des. No. posed alternative will meet the purpose and need of the project by addressing the coal less than 70 in/mi and widen the roadways to accommodate safe multi-modal cobanee. Fermini/Independent Utility: ini for the project are from the east junction of SR 106 to 2.03 miles west of SR 19. all beginning and end points of this project in order to complete the HMA overlay at the purpose and need of the project. This project is independent of any other led without relying on the completion of any other project. ALTERNATIVES CONSIDERED: **eader for each alternative.** Describe all discarded alternatives, including the No Build Alternative would not involve any improvements to US 6 or to the drainage structure at a later date. Not addressing the poor conditions of the drainage structures and deterioration and reduce their ability to convey drainage along US 6. This alternative on the drainage structures and deterioration and reduce their ability to convey drainage along US 6. This alternatives were considered for this project. **alternatives were considered for this project.** **alternatives were considered for this project.** **alternatives were considered for this project.** **alternative sure considered for the motoring public and general welfare of the economy. her (Describe): **AY CHARACTER:** **sed action includes multiple roadways, complete and duplicate for each road					

Date: August 6, 2024

US 6 Roadway Project

This is page 5 of 30

Project name:

County	Marshall & Elkhart	Route _	JS 6	Des	. No. <u>17029</u>	97 & 2001886
		Existing	Propose	d		
Nu	mber of Lanes:	2	1.106000	2		
Ту	pe of Lanes:	Through travel lanes	· ·	gh travel lanes, w		
	CAP III	intermittent turn la		mittent turn lanes	3	
	vement Width: oulder Width:	38-58 ft. 1-10 ft.	40-58 8-10	ft.		
	edian Width:	N/A ft.	N/A] II. ft.		
	dewalk Width:	N/A ft.	N/A	ft.		
	tting:	Urban	X Suburban	X	Rural	
10	pography: X	Level	Rolling		Hilly	
BRIDGES	S AND/OR SMALL STR	RUCTURE(S):				
If the propos	sed action includes multipl	e structures, complete a	nd duplicate for eac	h bridge and/or s	mall structure.	Include both
	proposed bridge(s) and/o					
0, , ,	AIDINI I ()	N 1/A	O	D. (;		N 1/A
Structure/f	NBI Number(s):	N/A	Sufficie	ncy Rating:	(Pating Source	N/A e of Information)
					(Nating, Source	e or information)
		Existing	Proposed			
	dge/Structure Type:	N/A		N/A		
	mber of Spans:	N/A	N1/A	N/A		
	eight Restrictions: eight Restrictions:	N/A ton N/A ft.	N/A N/A	ton ft.		
	irb to Curb Width:	N/A ft.	N/A	ft.		
	itside to Outside Width:	N/A ft.	N/A	ft.		
Sh	oulder Width:	N/A ft.	N/A	ft.		
Describe im	pacts and work involving b	pridge(s), culvert(s), pipe	e(s), and small struc	ture(s). Provide d	details for small	structure(s):
structure nu	mber, type, size (length ar	nd dia.), location and imp	pacts to water. Use	a table if the nun	nber of small str	ructures becomes
	table exceeds a complete					
	e no bridges within the					
	s that will be impacted					
	s. Many of the structure cted structures are cons					
	157 and CLV-100155, v		•			•
	.V-100157 and CLV-10					
	I 41 feet long by 36 in					
structures	s with a single 94-foot lo	ng, 84-inch pipe.				
Dataila a	£ 41	- d - 4 4		4-1-1- in America	- dia C	242 No -45
	f the remaining propose r small structures will be		n be tound in the	table in Apper	idix C, page (343. No other
bridges o	1 SITIALI STRUCTUTES WIII DE	: impacieu.				

Date: August 6, 2024

US 6 Roadway Project

This is page 6 of 30 Project name:

County	Marshall & E	Elkhart	Route	US 6		Des	s. No. <u>170</u>	2997 & 200)1886
MAINTI	ENANCE OF T	RAFFIC (MOT) DU	JRING CON	ISTRUC [®]	ΓΙΟΝ:				
I: V I: V	Vill the project in Provisions will Provisions will Provisions will Provisions will Vill the proposed s there substanti Vill the project re Provisions will	adway proposed? volve the use of a de be made for access be made for through be made to accomm MOT substantially c al controversy association a sidewalk, cur be made for access	by local traffic deper nodate any lo hange the er iated with the b ramp, and/ by pedestria	ic and so ndent bus local special nvironmen e proposed for bicycle ns and/or	posted. nesses. al events or fe tal conseque d method for l lane closure' bicyclist and	estivals. Inces of the action MOT? ? (describe below so posted (describe)	ow) cribe below).	Yes X X X X	No X X X X X X X
A flagge place de place for addition forthcor construe guidelin	measures shounds. Discuss and T plan will occure phase I will replace the side phase III will of the shoulder. Phase IV will the phase V will the phase VI will the phase VI will in at a time. The will be in playing each phase proximatel and minutes. Shoulders and proximatel and minutes. Should be the phase of approximatel and minutes. Should be the phase of the phas	and/or facilities (if an Id be quantified to the y pedestrian/bicycle our in six phases to equire a full road cleby-side concrete sts of the closure occurs of the closure occurs of the closure of the close the easther close the western close the	e extent possiciosures. Any accommodiciosure and exculverts at of the east of the east of the east of the surface of the east of the surface of the surface of the surface of the surface of the east of the surface of the east of the	sible, partical parti	cularly with respect of the second about a country about a country and a country are a country are a country and a country are a country and a country are a country are a country are a country and a country are a country and a country are a country are a country are a country are a country and a country are a	espect to proper access and traff struction (App e east crossing replacement ecommodate to milling and own with intermitted a for phases and SR 331. 4 additional trand buggy train project area on Uniform Traff aveling motor	rties such as a fic flow should endix B, B54 and of George and widening the replacementary of the verlay of the verlay of the tent closures affic in the are will be maraffic Controlarists (including the should be maraffic for the controlarists (including the should be maraffic for the area for the controlarists (including the should be maraffic for the controlarists (including the should be shou	Section 4(f) be detailed to B68): The Marberg of the shapent and was the seast bound we stound a proximal approximation and approximation	resources d as well. der Ditch to houlder. videning of d lane. d lane. he of traffic dr will be in kimately 29 details are throughout (MUTCD)
	ncy services); l completion.	however, no signifi	cant delays	are antio	cipated, and	all inconvenie	ences and de	elays will c	ease upon
ECTINA 4	ATED BBO ISO	T COST AND SOL	JEDU! F.						
E9 I IIVI <i>F</i>	ATED PROJEC	CT COST AND SCI	HEDULE:						
Enginee	ring: \$ <u>260,0</u>	00 (2022 & 2026)	Right-of-W	′ay: \$	TBD* (20	Construction	on: \$ <u>8,93</u>	30,875 (2024-2026)
Anticipat	ed Start Date of	Construction:	Spring 202	6					
	Final approval of t roject phase.	his document is conting	ent upon an a	mendment	to the TIP & S	ΓΙΡ to include neα	cessary ROW fu	unds for the r	next
This	is page 7 of 30	Project name:	US 6 Roadv	vay Projec	:t		Date: _A	ugust 6, 20	24

County	Marshall & Elkhart	Route	US 6	Des. No.	1702997 & 2001886

RIGHT OF WAY:

	Amount (acres)			
Land Use Impacts	Permanent	Temporary		
Residential	2.70	0.27		
Commercial	3.59	0.09		
Agricultural	11.91	0.68		
Forest	1.09	0.01		
Wetlands	0.49	0.00		
Other: Utility	0.63	0.00		
Other:	0.00	0.00		
TOTAL	20.41	1.05		

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 typical existing ROW along US 6 extends 15 to 25 feet north and 220 to 250 feet south of the roadway centerline from the western project terminus to Plymouth-Goshen Trail. East of Plymouth-Goshen Trail to the eastern project terminus, the typical existing ROW extends 18 to 27 feet north and 26 to 150 feet south of the centerline of US 6. Existing ROW mainly consists of existing pavement and maintained roadside. At its widest, the existing ROW consists of maintained scrub/shrub land (Appendix B, B5 to B21).

This project requires approximately 20.41 acres of permanent ROW from residential, commercial, agricultural, forested, wetland, and utility properties. The majority of the new permanent ROW acquisition will be acquired from the north side of the roadway. There will also be some ROW acquired from the south side of the roadway southeast of the intersection of Plymouth-Goshen Trail and US 6. The project requires 1.05 acres of temporary ROW from residential, commercial, agricultural, and forested properties. The temporary ROW will be acquired from both the north and south sides of the roadway at residential and commercial driveways. The typical proposed ROW width will be approximately 40 to 80 feet to the north and 26 to 250 feet south of the roadway centerline (Appendix B, B69 to B107).

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.

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 January 25, 2024 (Appendix C, C1 to C4).

Agency	Date Sent	Date Response Received	Appendix C
FHWA - Indiana Division	January 25, 2024	No Response	N/A
US Dept. of Agriculture, Natural Resources Conservation Service	January 25, 2024; June 25, 2024	February 12, 2024; July 8, 2024	C10 to C12
US Department of Housing and Urban Development, Chicago Regional Office	January 25, 2024	No Response	N/A
National Park Service, Midwest Regional Office	January 25, 2024	No Response	N/A
US Army Corps of Engineers, Detroit District	January 25, 2024	No Response	N/A

This is page 8 of 30 Project name: <u>US 6 Roadway Project</u> Date: <u>August 6, 2024</u>

County Marshall & Elkhart Route US 6 Des. No. 1702997 & 2001886

Kankakee River Basin and Yellow River Basin Development Commission	January 25, 2024	No Response	N/A
INDOT LaPorte District Office, Environmental Section Manager	January 25, 2024	February 6, 2024	C9
INDOT LaPorte District Office, Project Manager	January 25, 2024	No Response	N/A
Indiana Dept. of Natural Resources, Division of Fish and Wildlife	January 25, 2024	February 23, 2024	C13 to C15
Michiana Area Council of Governments (MACOG)	January 25, 2024	No Response	N/A
INDOT Environmental Services Division	January 25, 2024	No Response	N/A
Indiana Geological and Water Survey	January 25, 2024	January 25, 2024	C5 to C6
Indiana Department of Environmental Management	January 25, 2024	No Response	N/A
INDOT Utilities and Railroad	January 25, 2024	No Response	N/A
Marshall County Highway Department	January 25, 2024	January 29, 2024	C7
Elkhart County Highway Department	January 25, 2024	No Response	N/A
Bremen Street Department	January 25, 2024	No Response	N/A
Nappanee Street Department	January 25, 2024	No Response	N/A
Marshall County Board of Commissioners	January 25, 2024	No Response	N/A
Elkhart County Board of Commissioners	January 25, 2024	No Response	N/A
Marshall County German Township Trustee	January 25, 2024	No Response	N/A
Elkhart County Locke Township Trustee	January 25, 2024	No Response	N/A
Marshall County Council	January 25, 2024	No Response	N/A
Elkhart County Council	January 25, 2024	No Response	N/A
Bremen Town Council	January 25, 2024	No Response	N/A
Nappanee City Council	January 25, 2024	No Response	N/A
Nappanee Mayor	January 25, 2024	No Response	N/A
City of Nappanee Clerk-Treasurer	January 25, 2024	No Response	N/A
Town of Bremen Clerk-Treasurer	January 25, 2024	No Response	N/A
Marshall County Surveyor's Office and Drainage Board	January 25, 2024	No Response	N/A
Elkhart County Surveyor's Office and Drainage Board	January 25, 2024	No Response	N/A
Marshall County Emergency Management Agency	January 25, 2024	No Response	N/A
Elkhart County Emergency Management Agency	January 25, 2024	No Response	N/A
Marshall County Sheriff Department	January 25, 2024	No Response	N/A
Elkhart County Sheriff Department	January 25, 2024	No Response	N/A
Bremen Police Department	January 25, 2024	No Response	N/A
Nappanee Police Department	January 25, 2024	No Response	N/A
Bremen Fire Department	January 25, 2024	No Response	N/A
Nappanee Fire Department	January 25, 2024	No Response	N/A
Marshall County Health Department	January 25, 2024	No Response	N/A
Elkhart County Health Department	January 25, 2024	No Response	N/A
Marshall County Plan Commission, Floodplain Administrator	January 25, 2024	January 30, 2024	C8
Elkhart County Planning Department, Floodplain Administrator	January 25, 2024	No Response	N/A
Bremen Public Schools	January 25, 2024	No Response	N/A
Wa-Nee Community School Corporation	January 25, 2024	No Response	N/A
United Pentecostal Church	January 25, 2024	No Response	N/A

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County Marshall & Elkhart Route US 6 Des. No1702997 & 2001886

Pla-Mor Park/Campground	January 25, 2024	No Response	N/A
Digger Specialties, Inc	January 25, 2024	No Response	N/A
Elkhart County Municipal Separate Storm Sewer System (MS4) Coordinator	January 25, 2024	No Response	N/A
DeWayne Creighton	January 25, 2024	No Response	N/A

All applicable recommendations are included in the *Environmental Commitments* section of this Categorical Exclusion (CE) document.

SECTION B – ECOLOGICAL RESOURCES:

Streams, Rivers, Watercourses & Other Jurisdictional Features Federal Wild and Scenic Rivers State Natural, Scenic or Recreational Rivers Nationwide Rivers Inventory (NRI) listed Outstanding Rivers List for Indiana Navigable Waterways

Presence

Impacts

Total stream(s) in project area: 622 Linear feet Total impacted stream(s): 122 Linear feet

Stream Name	Classification	Total Size in Project Area (linear feet)	Impacted linear feet	Comments (i.e. location, flow direction, likely Water of the , appendix reference)
Albert Zeiger Ditch	Perennial	187	N/A	41.455708, -86.133355; Flows southwest through project area; No impacts below OHWM; Likely Water of the US (Appendix B, B5)
George Marberger Ditch	Perennial	336	122	Crosses project area at two locations (41.453882, -86.113749 & 41.453055, -86.097223); Flows northwest at the western crossing and flows southwest at the eastern crossing; Likely Water of the US (Appendix B, B8 & B10 to B11)
Unnamed tributary (UNT) to Armey Ditch	Intermittent	99	N/A	41.443616, -86.033032; Flows east along the north side of US 6; No impacts below OWHM; Likely Water of the US (Appendix B, B21)

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 maps of the project area (Appendix B, B5 to B21), and the Red Flag Investigation (RFI) report (Appendix E, E1 to E16), there are five streams, rivers, watercourses, or other jurisdictional features within the 0.5-mile search radius. There are two streams, rivers, watercourses, or other jurisdictional features within or adjacent to the project area. That number was updated to three by the site visits on June 28 & 29, 2022 and June 5, 6 & 7, 2023 by Lochmueller Group.

A Waters of the US Determination/Wetland Delineation Report was approved by INDOT Ecology, Waterway Permitting, and Stormwater Office (EWPSO) on April 22, 2024. Please refer to Appendix F, pages F2 to F54 for the Waters of the US Determination/Wetland Delineation Report. It was determined that three streams are located within the project investigation area: Albert Zeiger Ditch, George Marberger Ditch, and UNT to Armey Ditch. The US Army Corps of Engineers (USACE) makes all final determinations regarding jurisdiction.

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County	Marshall & Elkhart	Route	US 6	Des. No.	1702997 & 2001886

Albert Zeiger Ditch is a perennial channel flowing southwest underneath US 6 through an unnamed corrugated metal pipe (CMP) east of SR 106 near the western terminus of the project area. Approximately 187 feet of the stream is within the project area. The ordinary high water mark (OWHM) is 12 feet wide by 1.4 feet deep. Albert Zeiger Ditch is considered to be a relatively permanent water (RPW) and would likely be considered a Water of the U.S. due its hydrologic connection to the Yellow River, a traditional navigable water (TNW), via Middle Fork Yellow River. The project is not anticipated to permanently or temporarily impact Albert Zeiger Ditch below the OHWM.

George Marberger Ditch is a perennial stream flowing through the project area under US 6 at two different locations. The western crossing flows southeast to northwest through a concrete box culvert east of Dogwood Drive. The OHWM is 9.5 feet wide by 1.7 feet deep. The eastern crossing flows northeast to southwest through a CMP (CLV-100157) under US 6 west of Plymouth-Goshen Trail. The OHWM of this reach of George Marberger Ditch is 2.8 feet wide by 0.2 feet deep. A total of approximately 336 linear feet (140 feet west and 196 feet east) of this stream flows within the project area. George Marberger Ditch is considered to be an RPW and would likely be considered a Water of the US due its hydrologic connection to the Yellow River, a TNW, via Albert Zeiger Ditch, and Middle Fork Yellow River. The project is anticipated to permanently impact a total of 122 linear feet (0.03 acre below OHWM) for the replacement of CLV-100157 and riprap placement at the eastern crossing.

UNT to Armey Ditch is an intermittent channel flowing east to west along the north side of US 6. The stream begins at the outlet of a culvert under US 6 near the eastern terminus of the project and terminates at Wetland 26. Approximately 99 linear feet of this stream flows within the project area. The OHWM is 1.2 feet wide by 0.3 feet deep. UNT to Armey Ditch is considered to be an RPW and would likely be considered a Water of the US due to its intermittent nature and connection to the Yellow River, a TNW, via Armey Ditch and Middle Fork Yellow River. This stream is located outside of the construction limits of the project; therefore, the project is not anticipated to permanently or temporarily impact UNT to Armey Ditch.

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

Due to the total permanent impacts to George Marberger Ditch of 122 linear feet (0.03 acre below OHWM), this project will likely require an Indiana Department of Environmental Management (IDEM) Section 401 permit and a USACE Section 404 Nationwide Permit (NWP). Mitigation will not likely be required for stream impacts.

Albert Zeiger Ditch and UNT to Armey Ditch will be identified on the plans and labeled as "Do Not Disturb". This is listed as a firm commitment in the *Environmental Commitments* section of this document.

Albert Zeiger Ditch and George Marberger Ditch are listed as impaired for *E. coli*. Workers who are working in or near water with *E. coli* should take care to wear appropriate personal protective equipment (PPE), observe proper hygiene procedures, including regular handwashing, and limit personal exposure. This firm commitment is included in the *Environmental Commitments* section of this document.

The Marshall County Plan Commission responded to early coordination on January 30, 2024, stating that both Albert Zeiger Ditch and George Marberger Ditch are county regulated ditches (Appendix C, C8).

The Indiana Department of Natural Resources, Division of Fish and Wildlife (IDNR DFW) responded on February 23, 2024, with recommendations to minimize or avoid any impacts to streams (Appendix C, C13 to C15). These recommendations include utilizing best management practices to limit contaminant runoff into the stream, minimizing any in-channel disturbance, time of year restrictions for working in waterways, minimizing movement of sediment from the project area, not depositing any construction materials into the waterway, utilizing appropriate erosion control measures, and seeding and protecting any disturbed streambanks and slopes. All applicable recommendations are included in the *Environmental Commitments* section of this CE document.

This is made 44 of 20	Duningt manner	US 6 Roadway Project	Data: Assessed 6 2024	
This is bade 11 of 30	Project name:	US 6 Roadway Project	Date: August 6, 2024	

County	Marshall & Elkhart	Route	US 6		Des. No.	1702997 & 2001886
				Presence	<u>Impact</u>	<u>s</u>
Ope	en Water Feature(s)				Yes I	No
I	Reservoirs					
I	Lakes					
	Farm Ponds					
ı	Retention/Detention Basin					
;	Storm Water Management Faciliti	es				
	Other:					

Describe all open water feature(s) identified adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. 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 maps of the project area (Appendix B, B5 to B21), and the RFI report (Appendix E, E1 to E16), there are eight open water features within the 0.5-mile search radius. There is one open water feature adjacent to the project area. That number was updated to zero by the site visits on June 28 & 29, 2022 and June 5, 6 & 7, 2023 by Lochmueller Group. Therefore, no impacts are expected.

			Presence	<u>Impa</u>	<u>cts</u>
Wetlands			X	Yes	No
Total wetland area:	3.117	_ Acre(s)	Total wetland area impacted:	0.8561	Acre(s)
46 14 14 14			0 1 60 0 1 1 0 1		`

(If a determination has not been made for non-isolated/isolated wetlands, fill in the total wetland area impacted above.)

Wetland No.	Classification	Total Size (Acres)	Total Impacted Acres (Temporary impacts in parentheses)	Comments (i.e. location, likely Water of the US, appendix reference)
1	Emergent	0.03	N/A	41.456111, -86.133884; likely Water of the US (Appendix B, B5)
2	Emergent	0.21	0.007 (0.004)	41.453964, -86.128354; likely Water of the US (Appendix B, B5)
3	Emergent	0.008	0.0001	41.453703, -86.127692; likely Water of the US (Appendix B, B6)
4	Emergent	0.101	0.070	41.453610, -86.115839; not likely Water of the US (Appendix B, B8)
5	Emergent	0.009	0.006 (0.006)	41.453508, -86.099441; likely Water of the US (Appendix B, B10)
6	Emergent	0.004	0.003	41.453758, -86.099348; likely Water of the US (Appendix B, B10)
7	Emergent	0.016	0.016	41.449919, -86.090901; not likely Water of the US (Appendix B, B12)
8	Emergent	0.011	0.011	41.448583, -86.088101; not likely Water of the US (Appendix B, B12 to B13)
9	Emergent	0.036	N/A	41.447139, -86.083345; not likely Water of the US (Appendix B, B13)
10	Emergent	0.066	0.005	41.447040, -86.081648; not likely Water of the US (Appendix B, B13 to B14)
11	Emergent	0.18	0.003	41.446585, -86.075677; likely Water of the US (Appendix B, B14 to B15)

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County Marshall & Elkhart Route US 6 Des. No. 1702997 & 2001886

Wetland No.	Classification	Total Size (Acres)	Total Impacted Acres (Temporary	Comments (i.e. location, likely Water of the US, appendix reference)
		,	impacts in	,
			parentheses)	
12	Emergent	0.34	0.055	41.446390, -86.072715; likely Water of the US
				(Appendix B, B15 to B16)
13	Emergent	0.081	0.076	41.446569, -86.072803; likely Water of the US
				(Appendix B, B15)
14	Emergent	0.072	N/A	41.446048, -86.068536; not likely Water of the US
				(Appendix B, B15 to B16)
15	Emergent	0.082	0.082	41.445911, -86.064242; not likely Water of the US
				(Appendix B, B16)
16	Emergent	0.279	0.106	41.445843, -86.065123; not likely Water of the US
				(Appendix B, B16 to B17)
17	Emergent	0.014	0.001	41.445233, -86.057486; not likely Water of the US
				(Appendix B, B17)
18	Emergent	0.027	0.008	41.445106, -86.055555; not likely Water of the US
				(Appendix B, B17 to B18)
19	Emergent	0.009	0.009	41.445245, -86.055423; not likely Water of the US
				(Appendix B, B17 to B18)
20	Emergent	0.287	0.037	41.444639, -86.049420; likely Water of the US
				(Appendix B, B18 to B19)
21	Emergent	0.184	0.184	41.444785, -86.049311; likely Water of the US
				(Appendix B, B18 to B19)
22	Emergent	0.746	0.055	41.443944, -86.040030; not likely Water of the US
				(Appendix B, B20 to B21)
23	Emergent	0.134	0.045	41.444034, -86.038643; not likely Water of the US
				(Appendix B, B20)
24	Emergent	0.028	0.019	41.443970, -86.037987; not likely Water of the US
				(Appendix B, B20 to B21)
25	Emergent	0.051	0.045	41.443866, -86.036935; not likely Water of the US
				(Appendix B, B20 to B21)
26	Emergent	0.015	0.013	41.443636, -86.033364; not likely Water of the US
				(Appendix B, B21)
27	Emergent	0.097	N/A	41.443367, -86.033026; not likely Water of the US
				(Appendix B, B21)

Documentation

ESD Approval Dates

Wetlands (Mark all that apply)

Wetland Determination
Wetland Delineation
USACE Isolated Waters Determination

X

April 22, 2024 April 22, 2024

Improvements that will not result in any wetland impacts are not practicable because such avoidance would result in (Mark all that apply and explain):

Substantial adverse impacts to adjacent homes, business or other improved properties;

Substantially increased project costs;

Unique engineering, traffic, maintenance, or safety problems;

Substantial adverse social, economic, or environmental impacts, or

The project not meeting the identified needs.

X

Describe all wetlands identified adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. 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 maps of the project area (Appendix B, B5 to B21), and the RFI report

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(Appendix E, E1 to E16), there are 87 wetlands within the 0.5-mile search radius. There are four wetlands adjacent to the project area. That number was updated to 27 within the project area by the site visits on June 28 & 29, 2022 and June 5, 6 & 7, 2023 by Lochmueller Group.

A Waters of the US Determination/Wetland Delineation Report was approved by INDOT EWPSO on April 22, 2024. Please refer to Appendix F, pages F2 to F54 for the Waters of the US Determination/Wetland Delineation Report. It was determined that 27 wetlands, Wetlands 1 through 27, are located within the project area. The USACE makes all final determinations regarding jurisdiction.

The majority of the delineated wetlands are fed by agricultural drains and underdrains below US 6 and have formed within excavated concave drainage areas along US 6. All of the wetlands would be classified as poor quality, emergent wetlands dominated by narrow-leaf cattail (Typha angustifolia), reed canary grass (Phalaris arundinacea), and other various grass-like species. Some wetlands are bordered by fence rows allowing for sparse overhanging shrub vegetation. According to the IDEM under stipulations provided in IC 13-18-22, all of the wetlands, with the exception of Wetlands 1, 2, 3, 5, 6, 11, 12, 13, 20, and 21, would be considered exempt isolated wetlands based on their classification as Class I wetlands, lack of surface connection to a RPW, and being located within a roadside ditch (www.in.gov/idem/wetlands/information-about/state-regulated-wetlands-program/understanding-state-regulatedwetland-exemptions/). INDOT acknowledges that these wetlands would not likely meet the definition of a Waters of the US under the Clean Water Act. However, INDOT may request that the USACE take jurisdiction of these wetlands. All other wetlands drain to one of two jurisdictional streams. Therefore, the remaining wetlands were given a preliminary "Waters of the US" determination. For details regarding these wetlands, see the Wetland Summary Table in the Water of the US Determination/Wetland Delineation Report (Appendix F, F8 to F10). The project is anticipated to permanently impact a total of 0.8461 acre of wetlands. Permanent impacts include shoulder pavement placement, ditch construction, grading the roadside drainage areas, riprap placement at the inlet or outlet of drainage structures, and structure replacement. The project is also anticipated to temporarily impact a total of 0.0101 acre of wetlands. These impacts mainly consist of construction access activities. Due to these impacts, IDEM Section 401 Individual Permit (IP) and a USACE Section 404 NWP will be required. Mitigation for wetland impacts will likely be required and will be determined during permitting.

Wetlands 1, 9, 14, and 27 will be labeled on the project plans as "Do Not Disturb". Non-impacted areas of Wetlands 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, and 26 shall be protected during construction and will be labeled on the plans as "Do Not Disturb". These are listed as firm commitments in the *Environmental Commitments* section of this document.

Impacts to wetlands will be minimized to the extent possible while meeting the purpose and need of the project. A project alternative that would completely avoid impacts to wetlands is not practicable because the avoidance of wetlands would not allow for work to widen the shoulder to be done, thus preventing the project purpose and need from being met.

The IDNR DFW responded on February 23, 2024 with recommendations to minimize or avoid impacts to wetlands (Appendix C, C13 to C15). These recommendations include limiting ground disturbance and excavating or placing fill in riparian wetlands.

In their response to early coordination on January 30, 2024, the Marshall County Floodplain Administrator inquired about a forested wetland south of the intersection of US 6 and Plymouth-Goshen Trail (Appendix C, C8). Lochmueller Group responded stating that the area is mapped as a National Wetland Inventory (NWI) wetland and that based on the Waters of the US Investigation for the project, project work will not extend into the limits of the wetland and that no impacts were anticipated. All applicable recommendations are included in the *Environmental Commitments* section of this CE document.

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County	Marshall & Elkh	art	Route	US 6		Des. No.	1702997 &	2001886
					<u>Presence</u>	<u>Impac</u> Yes	ts NO	
Те	rrestrial Habitat				Х	Х		
Total terre	strial habitat in pro	oject area:	23.73	Acre(s)	Total tree clea	ring:	1.0	Acre(s)
or not impa	pes of terrestrial h cts will occur to ha avoid, minimize, a	abitat identified. I	nclude total te	errestrial habita				
maps of wetland he canary g basswood cottonwood approximoutside of structure terrestrial need. Te	a desktop reviet the project area nabitat within the rass (<i>Phalaris</i> od (<i>Tilia america</i> od (<i>Populus de</i> ately 1.0 acre of the bat active replacement, so habitat impacts purpose and ne	a (Appendix B, project area. The project area. The project area. The project area. The project area and project area area. The project area area area area area area area are	B5 to B21 he dominant silver maple silver maple silver maple the clearing vertical habit and extension ble because minimized), there is may t species present (Acer sacch interior), Ame nat the project within 100 feet tat impacts a son, riprap played doing so wo to the maximit	aintained lawn, sent are tall fesciarinum), sugar rican sycamore t will impact 20 to f existing pare being cause cement, and rould not allow for und extent possi	scrub/shrub, ue (Schedon maple (Ace (Platanus o 3.73 acres o vement. Treed by constradside ditch the project ible while als	forested, forus arunding saccharuncecidentalis) of terrestriale clearing voluction accoregrading. to meet the so allowing	farmland, and faceus), reed m), American, and eastern I habitat with vill take place ess activities, Avoidance of a purpose and
habitat (A structures clearing t disturbed	R DFW responde appendix C, C13 s, time of year to that which is areas with nat f this CE docum	Ito C15). These restrictions on necessary for ive plants. All a	e recommer tree cleari the project,	ndations including, potential utilizing app	de maintaining o mitigation requi ropriate erosion	or improving virements, mi control mea	wildlife cros nimizing tre asures, and	sings through ee and brush I revegetating
Fe	otected Species derally Listed Ba Information for Pl Section 7 informal Section 7 formal	anning and Cons al consultation cor	mpleted (IPa0	cannot be cor	npleted)	Yes		No X X
De	termination Recei	ved for Listed Ba	ts from USFV	VS: N	E N	LAA X	LAA [
	her Species not and Additional federa State species (no	l species found in	project area			Yes X	E	No X
	gratory Birds Known usage or State bird species			n IDNR		Yes	E	No X X
bat and non occurred an	NR coordination au thern long-eared b and the determination	oat impacts. Disc on that was receiv	uss if other fe /ed. Discuss i	ederally listed sp if migratory bird	pecies were identi s have been obse	ified. If so, inc erved and any	lude consulta impacts.	ation that has
December have bee	n a desktop re er 30, 2022, the n checked. Acco o C15), the Natu	IDNR Marshall ording to the IDI	l and Elkhar NR DFW ea	t County End rly coordination	angered, Threa on response lette	tened, and F er dated Febi	Rare (ETR) ruary 23, 20	Species Lists 024 (Appendix
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County Marshall & Elkhart Route US 6 Des. No. 1702997 & 2001886

(*Mustela nivalis*) has been documented within the project area. The IDNR DFW does not anticipate any major impacts to the Least Weasel due to this project, although precautions should still be taken. Moving earth for shoulder widening may impact areas utilized by Least Weasels. To minimize impacts to the species, conduct earth moving activities outside of the breeding season (April – July). This has been added as a "for consideration" commitment in the *Environmental Commitments* section of this document. An INDOT 0.5-mile bat review occurred on February 7, 2022 and the review did not indicate the presence of endangered bat species within 0.5 mile of the project area.

Indiana Bat and Northern Long-Eared Bat

Project information was submitted through the US Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) portal, and an official species list was generated (Appendix C, C16 to C28). The project is within range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally endangered northern long-eared bat (NLEB) (*Myotis septentrionalis*). Other species were generated in the IPaC species list along with the Indiana bat and NLEB. Refer to paragraph below.

The official species list generated from IPaC indicated four additional species. These species include the tricolored bat (*Perimyotis subflavus*, proposed endangered), whooping crane (*Grus americana*, experimental population, nonessential), salamander mussel (*Simpsonaias ambigua*, proposed endangered) and monarch butterfly (*Danaus plexippus*, candidate). The tricolored bat and salamander mussel are listed as proposed endangered and since they are not currently listed as endangered and do not have designated critical habitat, they were not evaluated as a part of this project. Should these species become listed before project construction, reinitiation of coordination with the USFWS as required by Section 7 of the Endangered Species Act (ESA) will occur. The whooping crane is listed as endangered wherever found, except where listed as an experimental population according to the Environmental Conservation Online System (https://ecos.fws.gov/ecp/). The whooping crane is listed as an experimental population in this location. Therefore, the species was not considered as part of this project. The monarch butterfly is identified as a candidate species, which is not yet listed or proposed for listing. Therefore, these species were not considered as part of this project, and the USFWS Interim Policy is not applicable because there are no other federally protected species identified within the project area. No further coordination is needed with USFWS.

The project qualifies for the *Range-wide Programmatic Informal Consultation for the Indiana bat and NLEB*, dated May 2016 (revised February 2018), between FHWA, Federal Railroad Administration (FRA), Federal Transit Administration (FTA), and USFWS. A structure inspection occurred for all structures within the project on June 5, 6, and 7, 2023, and no sign of the use of any of the structures by bat or bird species was observed (Appendix C, C43). USFWS Bridge/Structure Assessments shall take place no earlier than two years prior to the start of construction. If construction will begin after June 5, 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. This firm commitment is included in the *Environmental Commitments* section of this document.

An effect determination key was completed on February 13, 2024, and based on the responses provided, the project was found to "May Affect – Not Likely to Adversely Affect" the Indiana bat and/or the NLEB (Appendix C, C29 to C42). INDOT reviewed and verified the effect finding on March 14, 2024, and requested USFWS's review of the finding. No response was received from USFWS within the 14-day review period; therefore, it was concluded they concur with the finding. Avoidance and Minimization Measures (AMMs) must be implemented as a part of this project and include ensuring all project workers are aware of all AMMs and project commitments, avoiding tree removal where possible, applying time of year restrictions for tree removal for when bats are not likely to be present, limiting tree removal to that which is specified in project plans, not removing documented bat habitat any time of year, and directing temporary lighting away from suitable habitat during the bat active season. All AMMs and/or commitments are included as firm commitments in the *Environmental Commitments* section of this document.

Migratory Birds

The structures carrying Albert Zeiger Ditch (unnamed) and George Marberger Ditch (CLV-100157 & CLV-100155) and the project's surrounding habitat are conducive for use (i.e. nests) by a bird species protected under the Migratory Bird

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County	Marshall & Elkhart	Route	US 6		Des. No.	1702997 & 200188	3	
birds. If implement to construyoung ar Septemb required firm community and the september of	ct (MBTA). Prior to the stabirds or signs of birds and the prior to the start of an uction during the non-nesse present. Nests with egger 7). Nests with egger 7). Nests with egger or occodures are outlined in mitment is included in the sludes the need for further amended. If new information users	are found during and during the nest sting season (Sep gs or young can be young should at the Recurring Senvironmental Control of the consultation on endanger	the inspective ting season. In the inspection of the remove the screened special Provision of the project as this project as red species and the inspection of the species are the species and the inspection of t	on avoidance a Nests without eg April 30) and dur ed or disturbed or buffered from (RSP) 107-C ection of this documents required under	nd minimizags or young ing the nest during the reactive cor-273 "Migrat cument.	ation measures measures measures to should be remove ing season if no enesting season (Meastruction. Details ory Bird Protection the Endangered S	ust be d prior ggs or ay 1 – of the" This pecies	
	eological and Mineral Reso Project located within the Ind Karst features identified with Oil/gas or exploration/aband the Karst Evaluation reviewed	diana Karst Region nin or adjacent to th loned wells identific	e project area ed in the project	: area 	Yes N/A	No X X X		
Discuss if project is located in the Indiana Karst Region and if any karst features have been identified in the project area (from RFI). Discuss response received from IGWS coordination. Discuss if any mines, oil/gas, or exploration/abandoned wells were identified and if impacts will occur. Include discussion of karst study/report was completed and results. (Karst investigation must comply with the current Protection of Karst Features during Planning and Construction guidance and coordinated and reviewed by INDOT EWPO). Based on a desktop review and the Indiana Karst Region map, the project is located outside the designated Indiana Karst Region as outlined in the most current Protection of Karst Features during Project Development and Construction. According to the topographic maps of the project area (Appendix B, B2 to B3) and the RFI report (Appendix E, E1 to E16), there are no karst features identified within or adjacent to the project area. In the early coordination response on January 25, 2024, the Indiana Geological and Water Survey (IGWS) did not indicate that karst features exist in the project area (Appendix C, C5 to C6) The IGWS did state that there is moderate liquefaction potential, floodway, moderate potential to encounter bedrock resources, and high potential to encounter sand and gravel resources within 0.5 mile of the project area. No active or abandoned mineral resource extraction sites were documented. Response from IGWS has been communicated with the designer on January 31, 2024. No impacts are expected.								
SECTION	N C – OTHER RESOURC	Ee						
SECTION	VC - OTHER RESOURC	ES						
Dr	inking Water Resources Wellhead Protection Area(s) Source Water Protection Are Water Well(s) Urbanized Area Boundary Public Water System(s)			Presence X X X	Yes	No X X X		

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Date: August 6, 2024

This is page 17 of 30 Project name: US 6 Roadway Project

		indiana Depa	rtment of Trans	sportation				
County	Marshall & Elkhart	Route	US 6	Des. No.	1702997 & 2001886			
Check the a	the project located in the S If Yes, is the FHWA/EPA If Yes, is a Groundwater A appropriate boxes and disc	SSA MOU Applicable Assessment Required uss each topic below.	? ? Provide details abou		No X e resource-specific			
The projection	the only legally designa	all and Elkhart Cou ited sole source ac Sole Source Aquit	nties, but located o quifer in the state of fer Memorandum o	outside the area of the of Indiana. Therefore, f Understanding (MOL	e St. Joseph Sole Source the FHWA/Environmental J) is not applicable to this			
IDEM's Von Janua		erminator website (ueller Group. This p			wellhead/) was accessed Protection Area or Source			
2024 by According this time,	R Water Well Record Da Lochmueller Group. Th g to the well reports, the	nere are six uncons ese wells are not fie ed. Should it be det	solidated wells map ld located; thereford termined during the	oped adjacent to US (e, their locations are no	accessed on January 24, 6 within the project area. ot likely to be accurate. At at wells will be affected, a			
Based or map-for-i (UAB). A coordinate	Urban Area Boundary Based on a desktop review of the IDEM MS4 boundary map (https://www.in.gov/idem/cleanwater/ms4s-boundaries-map-for-indiana/) by Lochmueller Group on January 18, 2024, this project is located in an Urban Area Boundary (UAB). An early coordination letter was sent on January 25, 2024, to the Elkhart County MS4 Coordinator. The MS4 coordinator did not respond within the 30-day time frame. The project will comply with all legally required stormwater requirements and best management practices (BMPs).							
Based or maps of located w the east represen	Public Water System Based on a desktop review, site visits on June 28 & 29, 2022 and June 5, 6 & 7, 2023 by Lochmueller Group, the aerial maps of the project area (Appendix B, B5 to B21), and the preliminary plans (Appendix B, B46 to B95), the project is located where there is a public water system maintained by the City of Nappanee near their western project limits (near the eastern project terminus). Early coordination letters were sent on January 25, 2024, to City of Nappanee representatives. No responses were received. Utility coordination is ongoing and will continue throughout project development to ensure impacts to water and other utilities are as minimal as possible.							
lf a	Project located within a reconstruction of the Longitudinal encroachment Transverse encroachment Homes located in floodplate applicable, indicate the Florian control of the Longitudinal	nt t tin within 1000' up/dov odplain Level?		X Yes	mpacts s No X X			
Le	vel 1 Level 2	2 Level	3 X Level	4 Level 5				

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This is page 18 of 30 Project name: US 6 Roadway Project

County	Marshall & Elkhart	Route	US 6	De	s. No.	1702997 & 2001886
according to during desig	o the classification system In to insure consistency v	n. If encroachment on with the local flood plain	a flood plain will o n planning.	ccur, coordinate witi	h the Loc	appendix. Discuss impacts al Flood Plain Administrator
Based		review of the	IDNR India	,	Inform	
	dnr.maps.arcgis.com/a					
						s project is located in a
						n early coordination lette Floodplain Administrato
						s within the project area
						ment of the floodplain a
	iger Ditch.	- ···-·				
						modifications to drainage
						carry flood water. This
						eases will not result in any
						lt in substantial change ir າ of emergency service o
	cy routes; therefore, it h					
omorgone	y routes, andrerers, it i	nao boon aotonimio			otarriar.	•
In their ea	arly coordination respo	nse received on Fel	bruary 23, 2024,	the IDNR DFW s	tated, "T	This proposal may require
						ny proposal to construct
						rainage area greater thar
						d IDNR Memorandum o
						ted to qualify for the rura
bridge ex	emption and a Constru	iction in a ribodway	Permit from IDN	R IS NOLADIICIDALE	a to be	requirea.
	•			r io not amorpaio		•
				- trio not annoipate		
	<u> </u>			. C. o Hot and opace		<u> </u>
Fa	rmland			<u>Presence</u>		Impacts Vos.
	rmland Agricultural Lands			Presence		es No
	rmland Agricultural Lands Prime Farmland (per NR	CS)				
	Agricultural Lands Prime Farmland (per NR	·		Presence X X		Yes No
ī	Agricultural Lands Prime Farmland (per NR otal Points (from Section	VII of CPA-106/AD-10		Presence X X		Yes No
ī	Agricultural Lands Prime Farmland (per NR	VII of CPA-106/AD-10		Presence X X		Yes No
1 */	Agricultural Lands Prime Farmland (per NR Total Points (from Section of 160 or greater, see CE Ma	n VII of CPA-106/AD-10	006*) <u>153/1</u>	Presence X X X	Υ	Yes No X X
1 */	Agricultural Lands Prime Farmland (per NR Total Points (from Section of 160 or greater, see CE Ma	n VII of CPA-106/AD-10	006*) <u>153/1</u>	Presence X X X	Υ	Yes No
Discuss exisconsidered. Based on	Agricultural Lands Prime Farmland (per NR Total Points (from Section If 160 or greater, see CE Ma sting farmland resources Tale a desktop review, site	in VII of CPA-106/AD-10 innual for guidance. in the project area, imp	006*)	Presence X X S 58 Ir to farmland, and no line 5, 6 & 7, 202	Y nitigation	and minimization measures
Discuss exisconsidered. Based on aerial ma	Agricultural Lands Prime Farmland (per NR Total Points (from Section If 160 or greater, see CE Ma Sting farmland resources To a desktop review, site ps of the project area	in VII of CPA-106/AD-10 inual for guidance. in the project area, impose visits on June 28 & (Appendix B, B5 to	006*) <u>153/1</u> pacts that will occur 29, 2022 and J B21), the project	Presence X X Second for the farmland, and in the second for the s	nitigation	And minimization measures chmueller Group, and the of farmland as defined by
Discuss exis considered. Based on aerial ma the Farml	Agricultural Lands Prime Farmland (per NR Total Points (from Section If 160 or greater, see CE Ma Sting farmland resources To a desktop review, site ps of the project area and Protection Policy	in VII of CPA-106/AD-10 in the project area, impose visits on June 28 & (Appendix B, B5 to Act. An early coordin	pacts that will occur & 29, 2022 and J B21), the project nation letter was	Presence X X 58 Ir to farmland, and not be a series of the series of	nitigation 23 by Lo	and minimization measures chmueller Group, and the of farmland as defined by , to the US Department of
Discuss exis considered. Based on aerial ma the Farml Agricultur	Agricultural Lands Prime Farmland (per NR Total Points (from Section of 160 or greater, see CE Ma Sting farmland resources of a desktop review, site of the project area and Protection Policy of of (USDA) Natural Res	in VII of CPA-106/AD-10 in the project area, impose visits on June 28 & (Appendix B, B5 to lact. An early coording cources Conservation	pacts that will occur k 29, 2022 and J B21), the project nation letter was n Service (NRCS	Presence X X Service to farmland, and not a service to the servi	nitigation 3 by Loc 0 acres of 25, 2024 ded on F	and minimization measures chmueller Group, and the of farmland as defined by to the US Department of the US Depart
Discuss exisconsidered. Based on aerial mathe Farml Agricultur that the p	Agricultural Lands Prime Farmland (per NR Total Points (from Section of 160 or greater, see CE Ma esting farmland resources of a desktop review, site of ps of the project area and Protection Policy of of (USDA) Natural Resources oroject will cause a co	in VII of CPA-106/AD-10 in the project area, implemental of the project area of the project area, implemental of the project area of the pr	pacts that will occur k 29, 2022 and J B21), the project nation letter was n Service (NRCS	Presence X X Service to farmland, and modern to farm	nitigation 23 by Loc 0 acres of 25, 2024 ded on F dination	and minimization measures chmueller Group, and the of farmland as defined by to the US Department of ebruary 12, 2024, stating with NRCS resulted in a
Discuss exisconsidered. Based on aerial mathe Farml Agricultur that the pascore of 1	Agricultural Lands Prime Farmland (per NR Total Points (from Section of 160 or greater, see CE Ma Sting farmland resources of a desktop review, site of the project area and Protection Policy of of (USDA) Natural Resources or (USDA) Total Resources	in VII of CPA-106/AD-10 in the project area, implemental of the project area, implemental of the project area, implemental of the project area in the project in Elkhart	pacts that will occur & 29, 2022 and J B21), the project nation letter was n Service (NRCS armland (Append County and 158	Presence X X X 58 If to farmland, and notes the farmland of the portion of the	nitigation 23 by Loc 25, 2024 ded on F dination the proje	and minimization measures chmueller Group, and the of farmland as defined by to the US Department of the US Depart
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Discuss exisconsidered. Based on aerial mathe Farml Agricultur that the pscore of the AD-10 ROW sec	Agricultural Lands Prime Farmland (per NR Total Points (from Section of 160 or greater, see CE Ma esting farmland resources a desktop review, site ps of the project area and Protection Policy A ere (USDA) Natural Resoroject will cause a co of 153 for the portion of the 006 Form (Appendix Cotion of this document in	in VII of CPA-106/AD-10 in the project area, implementations of June 28 & (Appendix B, B5 to Act. An early coording cources Conservations of prime fame project in Elkhart C, C11 and C12). This due to the refinement	pacts that will occur & 29, 2022 and J B21), the project nation letter was in Service (NRCS armland (Append County and 158 e discrepancy in nent of design. A	Presence X X X 58 In to farmland, and notes the farmland and note	nitigation 23 by Loc 0 acres of 25, 2024 ded on F dination the projects on the	and minimization measures chmueller Group, and the of farmland as defined by to the US Department of ebruary 12, 2024, stating with NRCS resulted in a ect in Marshall County or e AD-1006 forms and the NRCS occurred on June
Discuss exisconsidered. Based on aerial mathe Farml Agricultur that the pascore of 1 the AD-10 ROW sec. 25, 2024	Agricultural Lands Prime Farmland (per NR Total Points (from Section If 160 or greater, see CE Ma Sting farmland resources To a desktop review, site ps of the project area and Protection Policy of the (USDA) Natural Resources To (USDA) Natural Resources	in the project area, imperent in the project in Elkhart C, C11 and C12). This due to the refinement received on July 8,	pacts that will occur & 29, 2022 and Description letter was a Service (NRCS armland (Appendicular and 158 e discrepancy in tent of design. A 2024 (Appendix	Presence X X X 58 In to farmland, and in the sent on January 25 Since Confer the portion of the ROW amour dditional coordinate C, C44). With up the sent on January 25 the portion of the ROW amour dditional coordinate C, C44). With up the sent on January 25 the sent on January 26 the portion of the ROW amour for the ROW amour dditional coordinate C, C44). With up the sent of the sent o	nitigation 23 by Loc 0 acres of dination the projects on the tion with	and minimization measures chmueller Group, and the of farmland as defined by to the US Department of February 12, 2024, stating with NRCS resulted in a ect in Marshall County or e AD-1006 forms and the
Discuss exis considered. Based on aerial ma the Farml Agricultur that the pscore of 1 the AD-10 ROW sec 25, 2024 points for NRCS's t	Agricultural Lands Prime Farmland (per NR Total Points (from Section If 160 or greater, see CE Ma Sting farmland resources To a desktop review, site ps of the project area and Protection Policy of the (USDA) Natural Resources To (USDA) Natural Resources	in the project area, important in the project in Elkhart in Elkhart in the project in the project in the project in Elkhart in the project area, important in the project area, in the pro	pacts that will occur & 29, 2022 and J B21), the project nation letter was n Service (NRCS armland (Append County and 158 e discrepancy in tent of design. A 2024 (Appendix bunty and 158 farmland that resi	Presence X X X 58 In to farmland, and not a sent on January 26). NRCS respondix C, C10). Coorfor the portion of the ROW amour dditional coordinates C, C44). With upon Marshall Couralt in the consider	nitigation 3 by Log 0 acres of dination the projects on the polytical polytical forms of	and minimization measures chmueller Group, and the of farmland as defined by to the US Department of ebruary 12, 2024, stating with NRCS resulted in a ect in Marshall County or e AD-1006 forms and the NRCS occurred on June ROW numbers, the totals pendix C, C45 and C46) alternatives is 160. Since
Discuss exisconsidered. Based on aerial mathe Farml Agricultur that the pscore of the AD-10 ROW section 25, 2024 points for NRCS's this projection.	Agricultural Lands Prime Farmland (per NR Total Points (from Section If 160 or greater, see CE Ma Sting farmland resources To a desktop review, site ps of the project area and Protection Policy of the (USDA) Natural Resources To (USDA) Natural Resources To (Appendix Co Stion of this document if and a response was To each form remained threshold score for sign ct score is less than the	in the project area, imperior visits on June 28 & (Appendix B, B5 to Act. An early coording ources Conservation of prime face project in Elkhart C, C11 and C12). This due to the refinement of the project of the threshold, no significant impacts to face threshold, no significant impacts of the project of the	pacts that will occur & 29, 2022 and J B21), the project action letter was a Service (NRCS armland (Append County and 158 e discrepancy in ent of design. A 2024 (Appendix bunty and 158 farmland that resu	Presence X X X 58 In to farmland, and not a sent on January 26). NRCS respondix C, C10). Coording the ROW amound ditional coordinational coordinational coordinational council to the consider ime, unique, states	nitigation 23 by Log 0 acres of dination the projuts on the tion with pdated F aty (App ation of ewide, or	and minimization measures chmueller Group, and the of farmland as defined by to the US Department of ebruary 12, 2024, stating with NRCS resulted in a ect in Marshall County or e AD-1006 forms and the NRCS occurred on June ROW numbers, the totals rendix C, C45 and C46) alternatives is 160. Since r local important farmland
Discuss exis considered. Based on aerial ma the Farml Agricultur that the pscore of 1 the AD-10 ROW sec 25, 2024 points for NRCS's this projewill result	Agricultural Lands Prime Farmland (per NR Total Points (from Section If 160 or greater, see CE Ma Sting farmland resources The adesktop review, site ps of the project area and Protection Policy or the (USDA) Natural Resources Total Total Cause a co Total Total Cause a co Total Total Cause a co Total Total Cause Total	in the project area, important of the project in Elkhart of the project in Elkhart of the project in Elkhart of the project of the project in Elkhart of the pr	pacts that will occur & 29, 2022 and J B21), the project action letter was a Service (NRCS armland (Append County and 158 e discrepancy in ent of design. A 2024 (Appendix bunty and 158 farmland that resu	Presence X X X 58 In to farmland, and not a sent on January 26). NRCS respondix C, C10). Coording the ROW amound ditional coordinational coordinational coordinational council to the consider ime, unique, states	nitigation 23 by Log 0 acres of dination the projuts on the tion with pdated F aty (App ation of ewide, or	and minimization measures chmueller Group, and the of farmland as defined by to the US Department of ebruary 12, 2024, stating with NRCS resulted in a ect in Marshall County or e AD-1006 forms and the NRCS occurred on June ROW numbers, the totals pendix C, C45 and C46) alternatives is 160. Since
Discuss exis considered. Based on aerial ma the Farml Agricultur that the pscore of 1 the AD-10 ROW sec 25, 2024 points for NRCS's this projewill result	Agricultural Lands Prime Farmland (per NR Total Points (from Section If 160 or greater, see CE Ma Sting farmland resources To a desktop review, site ps of the project area and Protection Policy of the (USDA) Natural Resources To (USDA) Natural Resources To (Appendix Co Stion of this document if and a response was To each form remained threshold score for sign ct score is less than the	in the project area, important of the project in Elkhart of the project in Elkhart of the project in Elkhart of the project of the project in Elkhart of the pr	pacts that will occur & 29, 2022 and J B21), the project action letter was a Service (NRCS armland (Append County and 158 e discrepancy in ent of design. A 2024 (Appendix bunty and 158 farmland that resu	Presence X X X 58 In to farmland, and not a sent on January 26). NRCS respondix C, C10). Coording the ROW amound ditional coordinational coordinational coordinational council to the consider ime, unique, states	nitigation 23 by Log 0 acres of dination the projuts on the tion with pdated F aty (App ation of ewide, or	and minimization measures chmueller Group, and the of farmland as defined by to the US Department of ebruary 12, 2024, stating with NRCS resulted in a ect in Marshall County or e AD-1006 forms and the NRCS occurred on June ROW numbers, the totals rendix C, C45 and C46) alternatives is 160. Since r local important farmland

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County	Marshall & Elkhart	Route _	US 6		Des. No.	1702997 & 2001886				
SECTION	SECTION D – CULTURAL RESOURCES									
Mi		gory(ies) and Type(gory B - Types 3, 4, 9			INDOT Approva July 31, 2024	I Date(s) N/A				
Fu	III 106 Effect Finding No Historic Properties Affect	red No	Adverse Eff	ect	Adverse Effect					
Eli	igible and/or Listed Resour NRHP Building/Site/District(s		haeology		NRHP Bridge(s	5)				
Do	APE, Eligibility and Effect De 800.11 Documentation Historic Properties Report or Archaeological Records Che Archaeological Phase Ia Sur Archaeological Phase Ic Sur Other:	etermination Short Report eck and Assessment evey Report	X	July 31, 2		PO Approval Date(s) N/A				
	Memorandum of Agreement	(MOA)		MOA Signatu	ı re Dates (List all	signatories)				
full Section local newsp <u>Section 106</u> On July 2 Category	106, use the headings provides appers. Please indicate the public work which must be comple 29, 2024, the INDOT Culture.	led. The completion of ublication date, name ted at a later date, su ural Resource Office	of the Section of the paper of the paper of the paper of the Section of the Secti	on 106 process er(s) and the col ation from a MC determined tha	requires that a Le mment period dea DA or avoidance o at this project fa	adline. Include any further				
lane dete not deter not det	s) and shoulder widenin rmines that no National Recur adjacent to a National Relation of new safety appuruators, where work occornal Register-listed or elig National Register-listed or allation, replacement, repasturbed soils and an argurces are present within mage structure, and there awalks, curbs or curb ramp National Register-listed e, or brick structures or pade corrections, slope repa	g where work or egister-listed or eli al Register-listed or urtenances, includir urs in undisturbed ible resources are eligible district or a critical in the project area a cre no impacts to us, stepped or elevor eligible district rts therein.	ccurs in u gible resou or eligible di ng but not d soils and present w above-grou sion of culve stigation do and work d unusual feat arted sidew or above-grou ion control	ndisturbed sources are presistrict or above limited to, guad an archaeo ithin the project and resource. The archaeo ithin the project and resource etermines that the project and retain a product and retain ground resources, where the archaeo ithin the project and other etermines that the archaeo in the ar	pils and an arcent within the perground resourd resource and word resource installation or resource, and the structure work occur	glare screens, and crash ation determines that no k does not occur adjacent ures where work occurs in Register-listed or eligible f a new culvert and other d to historic brick or stone k does not occur adjacent ructure exhibits no wood, as in undisturbed soils and				
an a	i onacological investigation	i determines triat i	io inaliona	i i tegisiei-iisie	A OF GIIGIDIG 165	sources are present within				

County	Marshall & Elkhart	Route	US 6		D	es. No.	1702997 & 2001886		
the p	project area and work does not occurce.	cur adja	cent to a N	lational Re	egister-listed	or eligible	e district or above-ground		
A Phase 1a Archaeological Reconnaissance was prepared by Cultural Resources Analysts (CRA) on July 29, 2024 (Appendix D, D10 to D12). The Phase 1a included a review of IDNR Division of Historic Preservation and Archaeology (DHPA) data for the survey area and no previously recorded sites were found within or near the survey area. The Phase 1a also included a survey of 79 acres along both sides of US 6 with shovel tests occurring at set intervals. Two sites, 12MR516 and 12MR521, were identified within the survey area. The report concluded that neither site is currently National Register-listed nor are they eligible for National Register listing. Therefore, archaeological clearance was recommended. INDOT CRO responded on July 31, 2024, concurring with the findings of the Phase 1a and determining that the aforementioned work types from MPPA Category B are applicable to this project (Appendix D, D13). They also stated that the following should be included as a firm commitment of the project: The portions of archaeological sites 12MR516 and 12MR521 beyond the surveyed limits within the proposed project area must be avoided by all ground disturbing activities and other project-related activities. The areas must be marked on plans as "DO NOT DISTURB – Environmentally Sensitive Area" and should be marked similarly on the ground for avoidance during construction. The avoidance areas shall not be identified as archaeological sites.									
	r consultation is required. This com 06 have been fulfilled.	npletes t	the Section	106 proce	ess and the	responsib	ilities of the FHWA under		
SECTION	I E – SECTION 4(f) RESOURCES	SECTI	ION 6(f) RE	SOURCE	S				
		P	Presence	u	<u>lse</u>				
Publicly Publicly Other (s Wildlife an Nationa Nationa State W State N Historic P	Other Recreational Land of owned park of owned recreation area school, state/national forest, bikeway, end Waterfowl Refuges al Wildlife Refuge al Natural Landmark of Vildlife Area ature Preserve roperties gible and/or listed on the NRHP			Yes	No No				
			aluations repared						
"De min Individu	nmatic Section 4(f) nimis" Impact lal Section 4(f) ception included in 23 CFR 774.13								
must be incl		below.	Discuss pro	posed alter	natives that s	atisfy the re	equirements of Section 4(f).		
federally significant	nust be included in the appendix and summarized below. Discuss proposed alternatives that satisfy the requirements of Section 4(f). HWA has identified various exceptions to the requirement for Section 4(f) approval. Refer to 23 CFR § 774.13 - Exceptions. Section 4(f) of the US Department of Transportation Act of 1966 prohibits the use of certain public and historic lands for federally funded transportation facilities unless there is no feasible and prudent alternative. The law applies to significant publicly owned parks, recreation areas, wildlife/waterfowl refuges, and National Register of Historic Places (NRHP) eligible or listed historic properties regardless of ownership. Lands subject to this law are considered Section								

County	Marshall & Elkhart	Route	US 6	Des. No.	1702997 & 2001886
4(f) resou	rces.				
E, E1 to E	a desktop review, the aerial E16), there are no potential 4 on June 28 & 29, 2022 and J	f) resources	located within	the 0.5-mile search radius.	This was confirmed by the
	ction 6(f) Involvement			<u>Presence</u>	Yes No
	etion 6(f) resources present or no iscuss the conversion approval.	t present. Dis	cuss if any conve	ersion would occur as a result	of this project. If conversion
The US L which wa	and and Water Conservations created to preserve, develoits conversion of lands purch	op, and assu	re accessibility	to outdoor recreation reso	
properties	of 6(f) properties on the INI in Elkhart County (Appendix t, there will be no impacts to 6	I, I1). None	of these prope		
SECTION	F – Air Quality				
Is t Is t Is t If Y	IP/TIP and Conformity Status of the project in the most current ST the project located in an MPO Are the project in an air quality non-ares, then: Is the project in the most current Is the project exempt from conform If No, then: Is the project in the Transport Is a hot spot analysis require the cation in STIP:	TIP/TIP? ea? ttainment or m MPO TIP? rmity? tation Plan (TF	aintenance area	? Yes No X X X X X X Pages 7 and 8 of MACOG	Project List
	me of MPO (if applicable):			MACOG	r roject ziet
	cation in TIP (if applicable):			Page 60	
Lev	vel of MSAT Analysis required?				
	vel 1a X Level 1b	Level 2	Level 3	Level 4 Level 5	
located. Indi	he project is listed in the STIP ar icate whether the project is exen TIP. Describe if a hot spot analys	pt from a con	formity determina	ation. If the project is not exem	
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County	Marshall & Elkha	<u>irt </u>	Route	US 6		Des.	No. <u>1</u>	702997 &	2001886
was dire (Appendi	ect is included in ectly incorporated ix H, H1 to H6). F	the Fiscal Year (I into the INDOT inal approval of th the next project p	FY 20:	24-2028	Statewide Tr	ansportation	Improve	ement Pro	ogram (STIP)
This proposition pollutants currently being every environment analysis	s according to t a nonattainment valuated for conf nental Protection in accordance wi	n Marshall and E he US EPA Gre area for Ozone, ormity due to the Agency, Et. Al. d th 40 CFR Part 9 oject will have no	en Bool under th e Febru lecision. 03.126 al	k (<u>https://v</u> e 1997 O ary 16, 2 This proje nd this pro	www.epa.gov zone 8-hour 018, South ect has been oject is not a	vigreen-book). standard whice Coast Air Qualidentified as project of air	However Howeve	ver, Elkha revoked i lanageme exempt fro	art County is n 2015 but is nt District V. om air quality
		ualifying as a cate ule under 40 CFR							
SECTIO	N G - NOISE								
Is	-	quired in accordance		-		DT's traffic noise		Yes	No X
Da	ate Noise Analysis v	vas approved/techn	ically suff	icient by IN	DOT ESD: _		N/A		
were identif	<u>fied. If noise impact</u> ect is a Type III p	e I or Type III projects were identified, de roject. In accordar cedure, this action	escribe if a	abatement i 23 CFR 7	<i>is feasible and</i> 72 and the cu	<i>reasonable and</i> urrent Indiana	d include	a stateme	nt of likelihood.
SECTION	N H – COMMUNI	TY IMPACTS							
Wi Wi Wi Do	ill the proposed act ill the proposed act ill the proposed act ill construction activ bes the community If No, are steps be	ty & Neighborhood on comply with the lon result in substanton result in substanton result in substanton ities impact commutate an approved treing made to advantoply with the transition	local/region tial impace tial impace nity evented ransition paces the cor	ts to comm ts to local t s (festivals blan? nmunity's t	unity cohesion ax base or pro , fairs, etc.)? ransition plan?	n? operty values?	-	Yes X X X X	X X
cohesion; a	and impact commun ect will ultimately	ies with the area's lo ity events. Discuss be beneficial to nd the improveme	how the plocal but	oroject com usinesses	forms with the and propert	ADA Transition ies due to im	<i>Plan.</i> proved	non-moto	orized vehicle
This is	s page 23 of 30 F	roject name: <u>US</u>	S 6 Roadv	vay Project			Date:	August 6,	2024

Indiana Department of Transportation									
County	Marshall & Elkhart	Route	US 6	Des. No.	1702997 & 2001886				
and will of along produration	Overall, the negative impactionsist primarily of short-term operty frontages. No relocation of the project. The project is expected to negatively imp	n construction in ations are antic s not anticipate	impacts and the cipated. Prope ed to result in s	e purchase of strips of perm rty owners will be provide substantial negative impact	anent or temporary ROW daccess throughout the sto community cohesion				
Group, t Festival from fest	g to the Indiana Festivals we here may be festivals in the neld annually in Nappanee in ivals in the area during cons etour which will provide adeq	e vicinity of the September. A struction due to	e project area Although there ro the temporary	during construction includ nay be some inconvenience y road and lane closures, tl	ing the Nappanee Apple to those traveling to and ne MOT plan includes an				
February plan for (https://w pedestria bicycle tr	ericans with Disabilities Act 7, 2013 (https://www.co.m. Elkhart County was apww.elkcohwy.org/wp-content facilities are present with raffic more space to travel sawill not create any additional	arshall.in.us/to oproved and t/uploads/2024 in the project tfely along the	pic/index.php?t implemented !/04/2023-ROW area; however roadway. The p	opicid=62&structureid=12), on December 3, 2012 /-Transition-Plan.11.27.23.p , widening the shoulders	and the ADA Transition and updated in 2022 df). No existing will allow pedestrian and				
Discuss who included the second secon	ilities and Services at public facilities and services a pacts have been minimized and ties, educational facilities, public estrian and bicycle facilities.	what coordination	on has occurred.	Some examples of public facil	ities and services include				
Based of E1 to E1 railroad a project a Group. E INDOT U Impacts construct propertie ensure in	n a desktop review, the aeria 6), there is one recreational segments located within the rea. That number was configurely coordination letters we billities and Railroads on Jar to the church and airport within limpacts to Pla-Mor Par s function as a private recompacts to the pipeline and raintained during construction	I facility, one re 0.5 mile of the rmed by site vitere sent to Pla nuary 25, 2024 ill only consist k include permantereational area.	eligious facility, ne project. The sits on June 28 a-Mor Park, Ur 1. No response of temporary nanent and tem Detailed utility	one private airport, six pipere are five public facilities & 29, 2022 and June 5, 6 dited Pentecostal Church, los were received within the traffic impacts due to lane porary ROW acquisition, by and railroad coordination	reline segments, and five within or adjacent to the \$\frac{8}{2}, 2023 by Lochmueller Dewayne Creighton, and 30-day response period. and road closure during ut this will not impact the are ongoing, which will				
	responsibility of the project s ny construction that would bl			orations and emergency se	vices at least two weeks				
Di Do	nvironmental Justice (EJ) (Pre uring the development of the pro pes the project require an EJ an YES, then:	ject were EJ iss			Yes No X X				

Indicate if EJ issues were identified during project development. If an EJ analysis was not required, discuss why. If an EJ analysis was 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.

Will the project result in adversely high and disproportionate impacts to EJ populations?

Are any EJ populations located within the project area?

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

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County Marshall & Elkhart Route US 6 Des. No. 1702997 & 2001886

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 ROW. The project will require approximately 20.41 acres of permanent ROW. Therefore, an EJ Analysis is required.

Potential EJ impacts are detected by locating minority populations and low-income populations relative to a reference population to determine if populations of EJ concern exist 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). For this project, there are two COCs identified as Elkhart County, Indiana and Marshall County, Indiana. The community that overlaps the project limits is called the affected community (AC). For this project there are three ACs: one (AC 1, Census Tract 11) occurs within Elkhart County, Indiana (COC 1) and two (AC 2, Census Tract 201.01 and AC 3, Census Tract 201.02) occur within Marshall County, Indiana (COC 2). An AC has a population of concern for EJ if the population is more than 50% low-income or minority or if the low-income population or minority population is greater than 125% of the same populations in the COC. A review of the US Census Bureau data (2018-2022) was completed on February 2, 2024. The data were obtained from the US Census Bureau's webpage (https://data.census.gov/). The data collected for minority and low-income populations within the AC's are summarized in the below table.

	COC 1	AC 1	COC 2	AC 2	AC 3					
	Elkhart County, Indiana	Census Tract 11, Elkhart County, Indiana	Marshall County, Indiana	Census Tract 201.01, Marshall County, Indiana	Census Tract 201.02, Marshall County, Indiana					
LOW-INCOME POPULATION										
Total Population for Whom Poverty Status is Determined	203,329	5,034	45,428	4,999	3,849					
Total Population Below Poverty Level	24,427	283	4,919	732	99					
Percent Low-Income	12.0%	5.6%	10.8%	14.6%	2.6%					
125 Percent of COC	15.0%		13.5%							
AC Percent Low-Income Greater Than 125 Percent of COC?		NO		YES	NO					
AC Percent Low-Income Greater Than 50 Percent?		NO		NO	NO					
Population of EJ Concern?		NO		YES	NO					
		MINORITY PO	PULATION							
Total Population	206,841	5,034	46,208	5,035	3,869					
Minority Population	55,430	377	6,283	1,160	134					
Percent Minority	26.8%	7.5%	13.6%	23.0%	3.5%					
125 Percent of COC	33.5%		17.0%							
AC Percent Minority Greater Than 125 Percent of COC?		NO		YES	NO					

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County	Marshall & Elkhart	Route	e US 6	 Des. No.	1702997 & 200	1886
	AC Percent Minority Greater Than 50 Percent?		NO	NO	NO	
	Population of EJ Concern?		NO	YES	NO	

Low Income Populations

AC-1, Census Tract 11, has a percent low-income of 5.6%, which is below 50% and is below the 125% COC 1 threshold. AC-2, Census Tract 201.01, has a percent low-income of 14.6%, which is below 50% and is above the 125% COC 2 threshold. AC-3, Census Tract 201.02, has a percent low-income of 2.6%, which is below 50% and is below the 125% COC 2 threshold. Therefore, AC-2 has a low-income population of EJ concern.

Minority Populations

AC-1, Census Tract 11, has a percent minority of 7.5%, which is below 50% and is below the 125% COC 1 threshold. AC-2, Census Tract 201.01, has a percent minority of 23.0%, which is below 50% and is above the 125% COC 2 threshold. AC-3, Census Tract 201.02, has a percent minority of 3.5%, which is below 50% and is below the 125% COC 2 threshold. Therefore, AC-2 has a minority population of EJ concern.

Conclusion

Overall, the project will benefit EJ communities in this area due to the improved roadway conditions and improved safety and connectivity for non-vehicular traffic throughout the corridor, especially for horse-drawn buggies used by the local community. The negative impacts to property owners within the project area will be minimal and consist primarily of short-term construction impacts and the loss of temporary and permanent ROW along the property frontage. The ROW to be acquired will not substantially diminish the remaining properties' existing use and is expected to be acquired along the majority of the length of the project area. The project will involve less ROW acquisition from properties within the boundary of the EJ population of concern, AC-2: Census Tract 201.01, than in the rest of the project. Impacts to surrounding properties have been minimized to the maximum extent feasible while still meeting the purpose and need of the project. The proposed MOT plan will temporarily close US 6 during construction. An official detour around the closure will be in place utilizing SR 19, US 20, and SR 331. The official detour will add approximately 25.4 miles to the route and approximately 29 minutes traveled. Unofficial detours using local roads will also be available to divert traffic around the closure area. The shortest of these unofficial local detour routes, utilizing Douglas Road, SR 331, 2B Road, and County Road (CR) 56 and CR 101, would be approximately 6.6 miles. Accommodations will also be made for local buggy traffic during construction. Access will be maintained for property owners during construction of the project. Avoidance alternatives for EJ populations is not feasible because avoidance would not allow for the purpose and need of the project to be met. It is expected that the project will not have a disproportionately high and adverse environmental or health impact to low-income or minority populations of EJ concern when compared to non-EJ populations.

On March 22, 2024, INDOT Environmental Service Division concurred with the determination that the project will not have a disproportionately high and adverse environmental or health impact to EJ populations of concern (Appendix I, I12). No further environmental justice analysis is warranted. The census data sheets, map, and calculations can be found in Appendix I, pages I2 to I11.

Relocation of People, Businesse	s or Farms	Yes No
Will the proposed action result in th Is a BIS or CSRS required?	e relocation of people, businesses or farms?	X
Number of relocations: Reside	ences: <u>N/A</u> Businesses: <u>N/A</u> Farms:	N/A Other: N/A
Discuss any relocations that will occur due to	o the project. If a BIS or CSRS is required, discuss	the results in the discussion below.
No relocations of people, businesses,	or farms will take place as a result of this proje	ct.
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County	Marshall & Elkhart	Route US	8 6	Des. No.	1702997 & 2001886
SECTIO	N I – HAZARDOUS MATE	RIALS & REGULAT	ED SUBSTANCES	3	
Re Ph Ph	azardous Materials & Regula ed Flag Investigation (RFI) nase I Environmental Site Ass nase II Environmental Site Ass esign/Specifications for Remed	essment (Phase I ESA) essment (Phase II ESA)	<u>Document</u>	tation
Da	ate RFI concurrence by INDO	SAM (if applicable):	January 4, 2023		
adjacent to	ummary of the potential hazar , or ones that could impact the pay quantities, etc.) will be ne	project area. Refer to	current INDOT SAM	∕l guidance. If addition	
Based or	n a review of geographic i	nformation systems	(GIS) and availab	le public records, th	ne RFI was completed on ent (SAM) provided their

Based on a review of geographic information systems (GIS) and available public records, the RFI was completed on December 30, 2022 by Lochmueller Group and INDOT Site Assessment & Management (SAM) provided their concurrence on January 4, 2023 (Appendix E, E1 to E16). Three Resource Conservation and Recovery Act (RCRA) Generator/Transfer, Storage, or Disposal (TSD) sites, one state cleanup site, six leaking underground storage tank (LUST) sites, one institutional control site, and seven National Pollutant Discharge and Elimination System (NPDES) facilities are located within 0.5 mile of the project area. Two hazardous material sites could potentially impact the project:

- One LUST site, Schmucker's LP Gas (Agency Identification (AID) 14223), is located adjacent to the project area. USTs were removed from the site in 1990. Two 1,000 unleaded gallon tanks and associated pump island were located between the main building and US 6 and one 500-gallon gasoline tank was located at the southeast corner of the building. A product pipeline connected the 500-gallon tank to the pump island. In June 1990, all suspect contaminated soil to the north and south of the 1,000-gallon tanks was removed between the US 6 ROW and the main building. Contaminated soil may still be present within the US 6 ROW. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- One NPDES facility, Digger Specialties Incorporated (AID 47351 & permit number INRM01030), is located adjacent to the project area. According to the GIS database, the permit was issued on February 26, 2019, and expired on February 25, 2024. Coordination with the facility owner occurred on January 24,2024 (Appendix C, C1 to C4). No response was received within 30 days. No impact is expected.

Due to the amount of time that passed since the completion of the RFI and the scope being refined to include the shoulder widening work (Des. No. 1702997), a subsequent review of the GIS data for resources was undertaken by Lochmueller staff on November 28, 2023. No new resources that could potentially impact the project were identified. Further investigation for hazardous material concerns is not required at this time.

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County Marshall & Elkhart Ro	oute l	JS 6	Des. No.	1702997 & 2001886
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Part IV - Permits and Commitments

Permits (mark all that apply)	Likely Required
Army Corps of Engineers (404/Section10 Permit)	
Nationwide Permit (NWP)	X
Regional General Permit (RGP)	
Individual Permit (IP)	
Other	
IN Department of Environmental Management	
(401/Rule 5)	
Nationwide Permit (NWP)	
Regional General Permit (RGP)	
Individual Permit (IP)	X
Isolated Wetlands	
Rule 5	<u> </u>
Other	
IN Department of Natural Resources	
Construction in a Floodway	
Navigable Waterway Permit	
Other	
Mitigation Required	X
US Coast Guard Section 9 Bridge Permit	
Others (Please discuss in the discussion below)	
	hy the permits are needed, including permits designated as "Othe

Due to ground disturbance in excess of 1.0 acre, an IDEM Construction Stormwater General Permit will be required.

Applicable recommendations provided by resource agencies are included in the Environmental Commitments section of this document. If permits are found to be necessary, the conditions of the permit will be requirements of the project and will supersede these recommendations.

It is the responsibility of the project sponsor to identify and obtain all required permits.

ENVIRONMENTAL COMMITMENTS

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

Firm:

- 1. If the scope of work or permanent or temporary right-of-way amounts change during design or construction, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately. (INDOT ESD and INDOT LaPorte 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 would block or limit access. (INDOT ESD)
- 3. Any work in a wetland area within right-of-way or in borrow/waste areas is prohibited unless specifically allowed in the US Army Corps of Engineers permit. (INDOT EWPSO)

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- 4. Albert Zeiger Ditch and UNT to Armey Ditch will be labeled "Do Not Disturb" on the project plans. (INDOT ESD)
- 5. Non-impacted areas of George Marberger Ditch shall be protected during construction and will be labeled "Do Not Disturb" on the project plans. (INDOT ESD)
- 6. Wetlands 1, 9, 14, and 27 will be labeled "Do Not Disturb" on the project plans. (INDOT ESD)
- 7. Non-impacted areas of Wetlands 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, and 26 shall be protected during construction and will be labeled "Do Not Disturb" on the project plans. (INDOT ESD)
- 8. 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)
- 9. Lighting AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)
- 10. Tree Removal AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- 11. 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>. (USFWS)
- 12. 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)
- 13. 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)
- 14. The structures carrying Albert Zeiger Ditch (unnamed) and George Marberger Ditch (CLV-100155 & CLV-100157) and the project's surrounding habitat are 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 structures must be inspected for birds or signs of birds or signs of birds are found during the inspections 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 RSP 107-C-273 "Migratory Bird Protection." (INDOT ESD)
- 15. USFWS Bridge/Structure Assessments (listed on page C43 of the environmental document) shall take place no earlier than two years prior to the start of construction. If construction will begin after June 5, 2025, an inspection of the structures 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)
- 16. One LUST site, Schmucker's LP Gas (AID 14223), is located adjacent to the project area. USTs were removed from the site in 1990. Two (2) 1,000 unleaded gallon tanks and associated pump island were located between the main building and US 6 and one (1) 500-gallon gasoline tank was located at the southeast corner of the building. A product pipeline connected the 500-gallon tank to the pump island. In June 1990, all suspect contaminated soil to the north and south of the 1,000-gallon tanks was removed between the US-6 right of way (ROW) and the main building. Contaminated soil may still be present within the US 6 ROW. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination. (INDOT SAM)
- 17. One NPDES facility, Digger Specialties Incorporated (AID 47351 & permit number INRM01030), is located adjacent to the project area. According to the GIS database, the permit was issued on February 26, 2019, and expired on February 25, 2024. Coordination with the facility owner should occur. (INDOT SAM)
- 18. Albert Zeiger Ditch and George Marberger Ditch are listed as impaired for *E. coli*. Workers who are working in or near water with *E. coli* should take care to wear appropriate personal protective equipment (PPE), observe proper hygiene procedures, including regular handwashing, and limit personal exposure. (INDOT SAM)

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19. The portions of archaeological sites 12MR516 and 12MR521 beyond the surveyed limits within the proposed project area must be avoided by all ground disturbing activities and other project-related activities. The areas must be marked on plans as "DO NOT DISTURB – Environmentally Sensitive Area" and should be marked similarly on the ground for avoidance during construction. The avoidance areas shall not be identified as archaeological sites. (INDOT CRO)

For Further Consideration:

- 20. The State special concern Least Weasel (*Mustela nivalis*) has been documented within the project area. The IDNR Division of Fish and Wildlife does not anticipate any major impacts to the Least Weasel due to this project, although precautions should still be taken. Moving earth for shoulder widening may impact areas utilized by Least Weasels. To minimize impacts to the species, conduct earth moving activities outside of the breeding season (April July). (IDNR DFW)
- 21. 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)
- 22. Contaminated road runoff can significantly impact the aquatic environment through increased turbidity and release of sediment into the stream which can be harmful to fish and other aquatic organisms, their eggs, and their food supply. Where possible, road runoff should be directed to riprap turnouts and sediment filtration prior to entering a stream to reduce impacts to aquatic species. We recommend the use of pollutant trapping technology such as storm drain inserts to reduce the runoff of roadside pollutants where appropriate. (IDNR DFW)
- 23. 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. (IDNR DFW)
- 24. Use minimum average 6-inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids. (IDNR DFW)

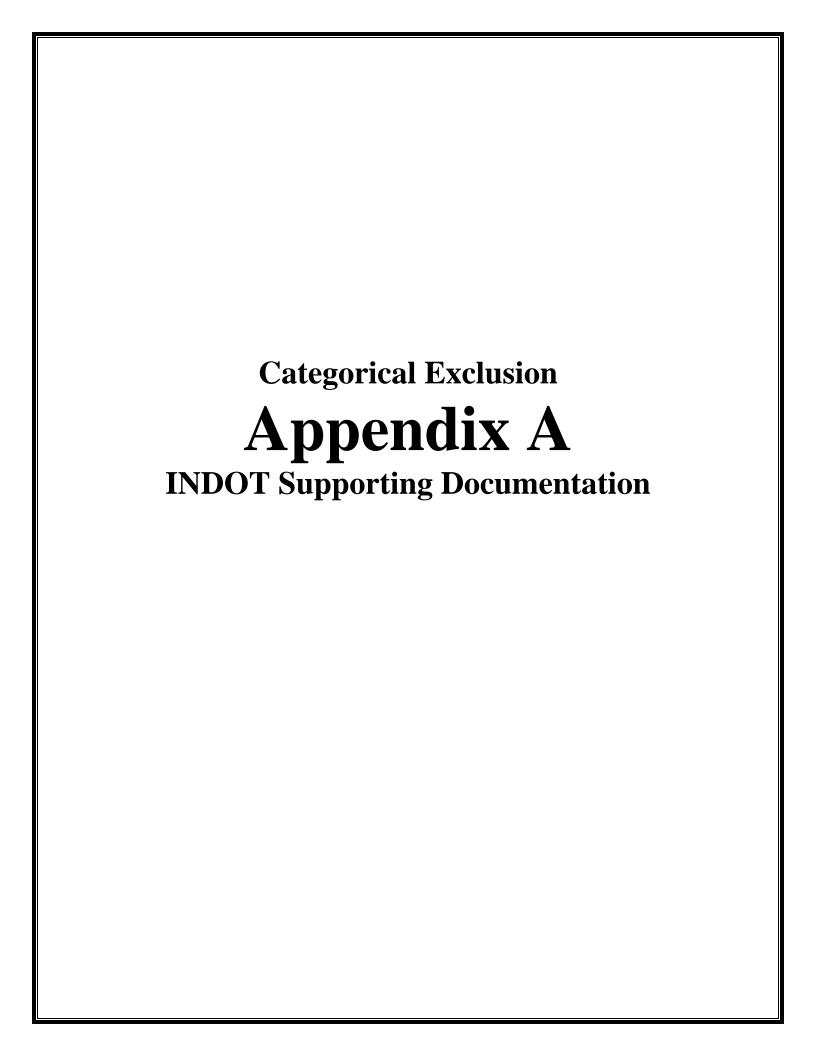
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Sample Supplemental Notice of Survey (February 8, 2023)
Appendix H: Air Quality
Relevant pages from the FY 2024-2028 MACOG TIPH1-H2
FHWA/INDOT STIP approval and MPO TIP incorporation letter
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Abbreviated Engineer's Report - Des. No. 1702997 (December 26, 2019)
INDOT response email with Pavement Condition Data (July 2, 2024)



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 ³	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	USACE Individual 404 Permit ⁴
Wetland Impacts ³	No adverse impacts to wetlands	< 0.1 acre	-	< 1.0 acre	≥ 1.0 acre
Right-of-way ⁵	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations ⁶	None	-	-	< 5	≥ 5
Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat)*	"No Effect", "Not likely to Adversely Affect" (With select AMMs ⁷)	"Not likely to Adversely Affect" (With any AMMs or commitments)	-	"Likely to Adversely Affect"	Project does not fall under Species Specific Programmatic ⁸
Threatened/Endangered Species (Any other species)*	Falls within guidelines of USFWS 2013 Interim Policy or "No Effect"	"Not likely to Adversely Affect"	-	-	"Likely to Adversely Affect"
Environmental Justice	No disproportionately high and adverse impacts	-	-	-	Potential ⁹
Sole Source Aquifer	No Detailed Groundwater Assessment	1	-	-	Detailed Groundwater Assessment
Floodplain	No Substantial Impacts	-	-	-	Substantial Impacts
Section 4(f) Impacts	None	-	-	-	Any ¹⁰
Section 6(f) Impacts	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Noise Analysis Required	No	-	-	-	Yes Yes ¹¹
Air Quality Analysis Required Approval Level	No	-	-	-	1 es
District Env. (DE) Env. Serv. Div. (ESD) FHWA Conflict with NIDOT Environmental Services.	Concurrence by DE or ESD	DE or ESD	DE or ESD	DE and/or ESD	DE and/or ESD; and FHWA

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

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

³ Total permanent impacts to streams (linear feet) and wetlands (acres).

⁴US Army Corps of Engineers Individual 404 Permit

⁵ Total permanent and temporary right-of-way. This does not include reacquisition of existing apparent right-of-way.

⁶ If any relocations are within an area with a known or suspected Environmental Justice (EJ) or disadvantaged population, or has greater than 5 relocations, a conversation with FHWA, through INDOT ESD, is needed to confirm NEPA classification and outreach plan for the project.

⁷ Avoidance and Mitigation Measures (AMMs) determined by the IPAC determination key to be required that are not tree AMMs, bridge AMMs, or structure AMMs.

⁸ Projects that do not fall under a Species Specific Programmatic and results in a "Likely to Adversely Affect". Other findings can be processed as a lower-level CE.

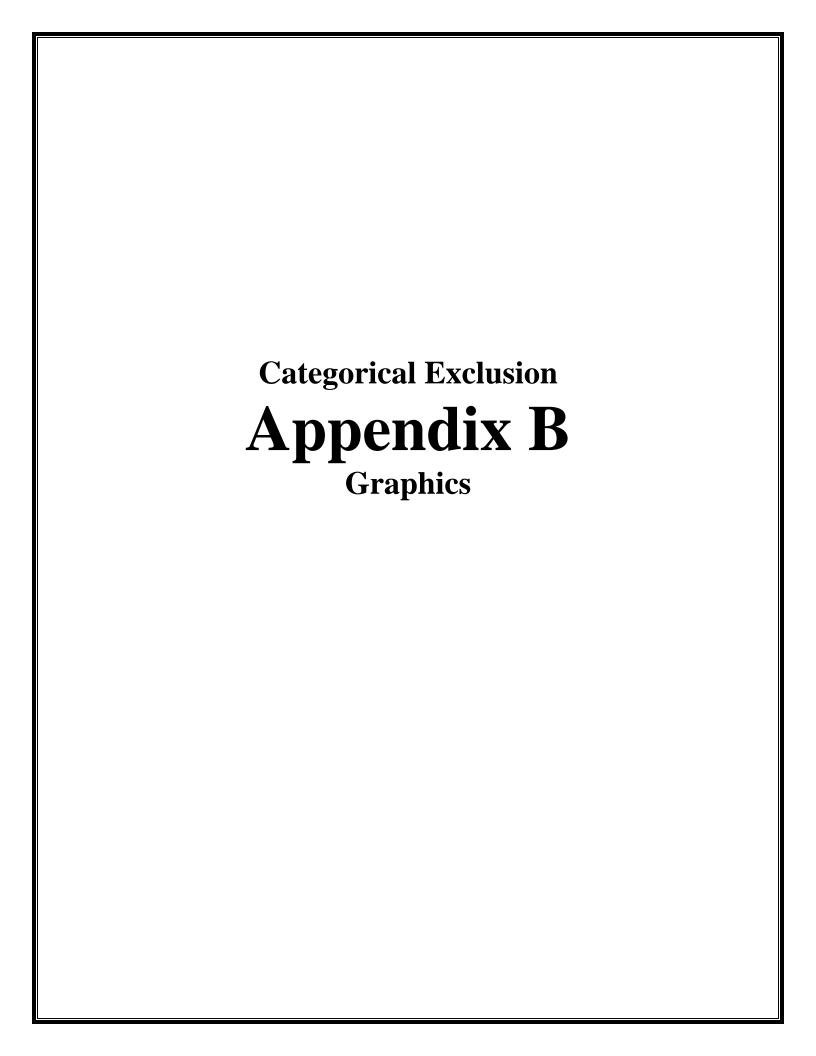
⁹ Potential for causing a disproportionately high and adverse impact.

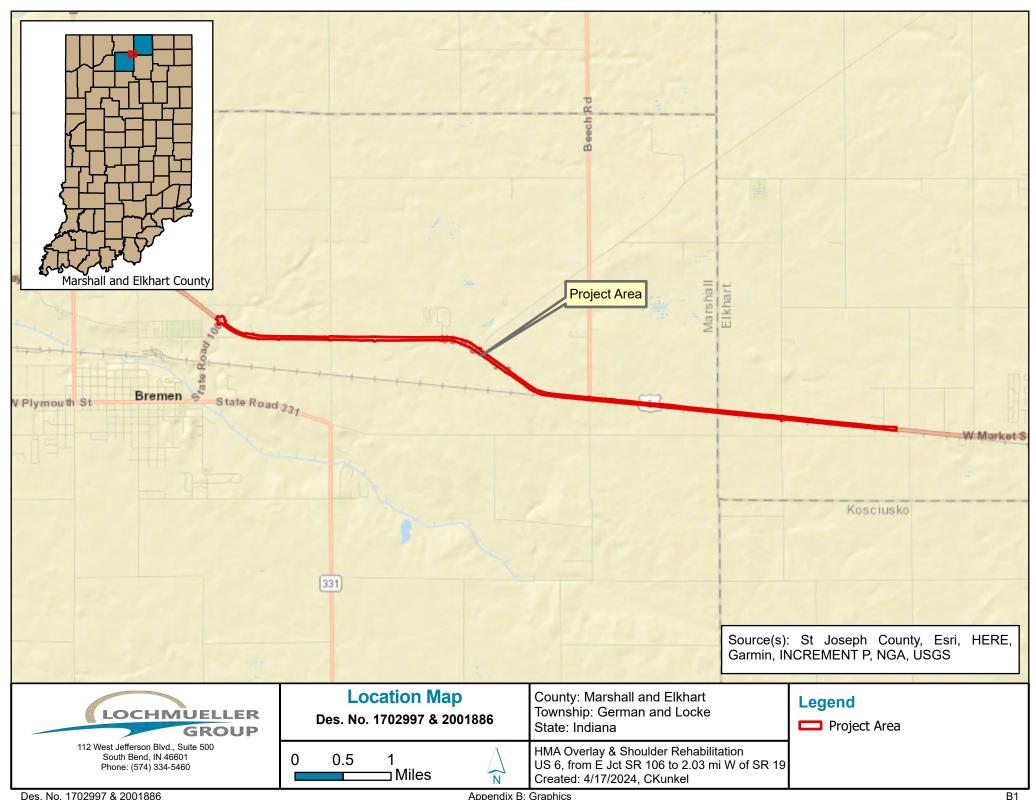
¹⁰ Section 4(f) use resulting in an Individual, Programmatic, or *de minimis* evaluation. The only exception is a *de minimis* evaluation for historic properties (Effective January 2, 2020). If a historic property *de minimis* and no other use, mark the *None* column.

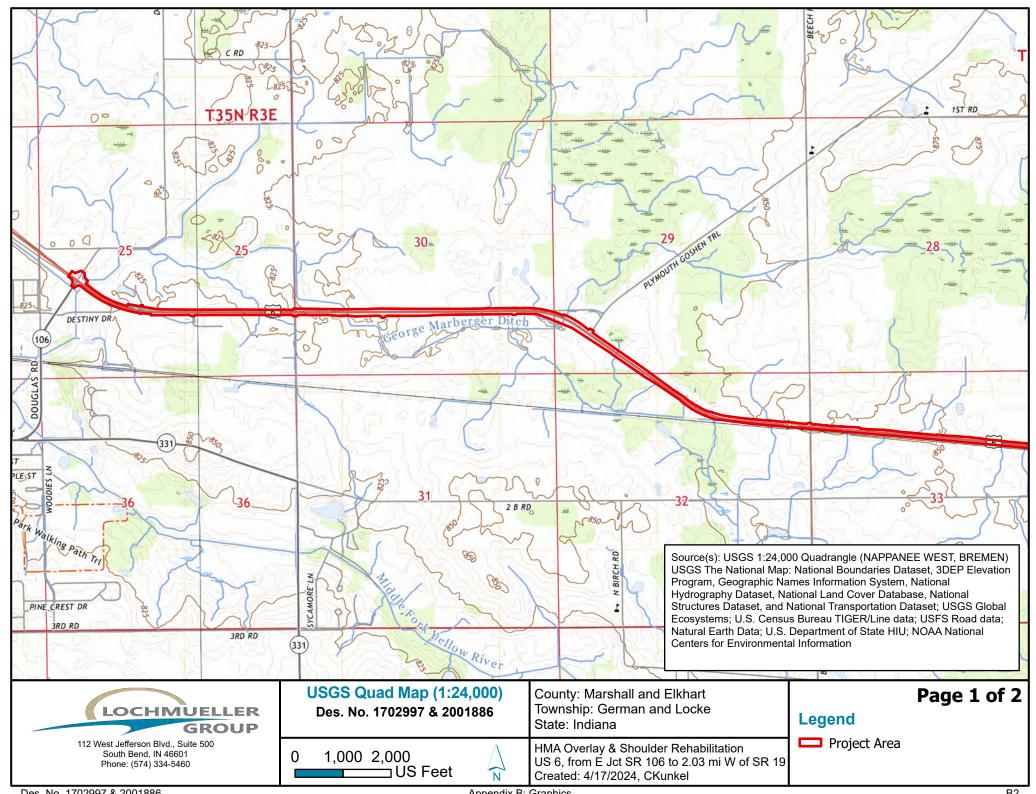
¹¹ Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

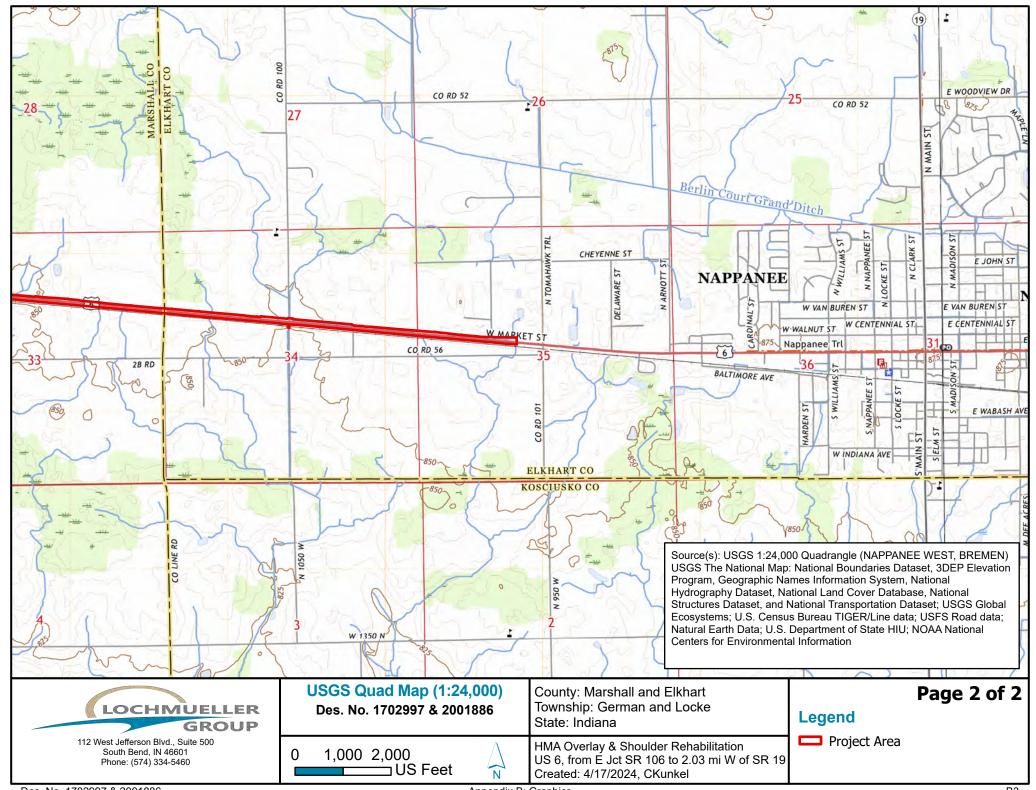
^{*} Includes the threatened/endangered species critical habitat

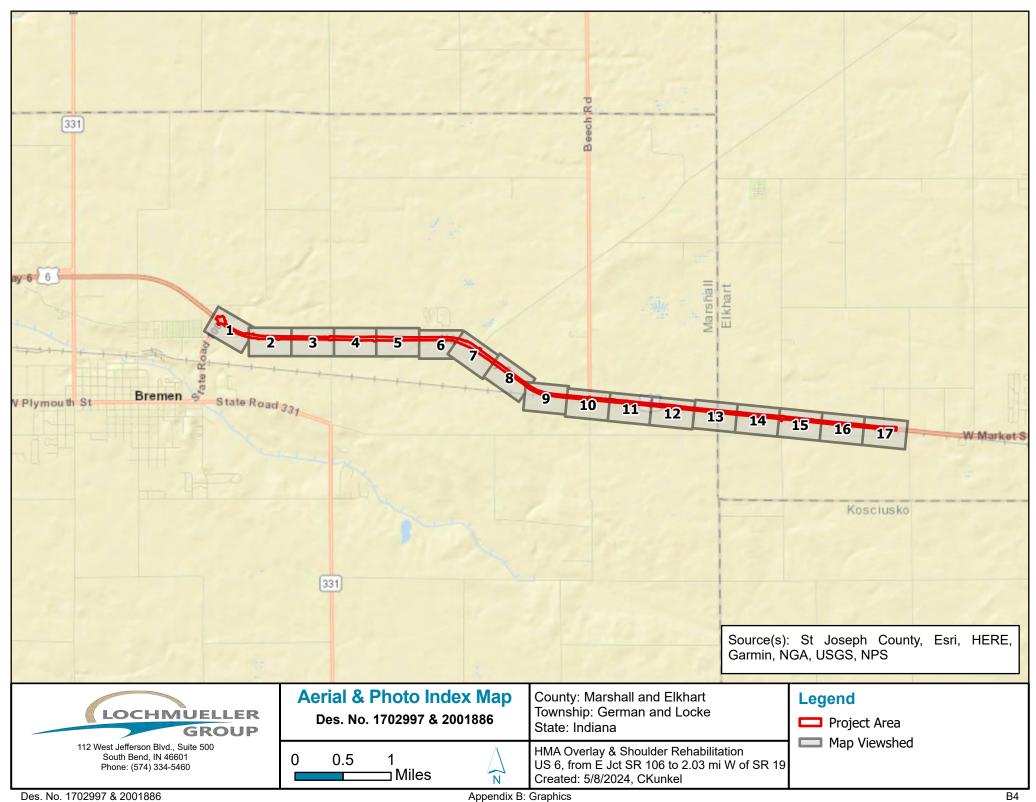
Note: Substantial public or agency controversy may require a higher-level NEPA document.

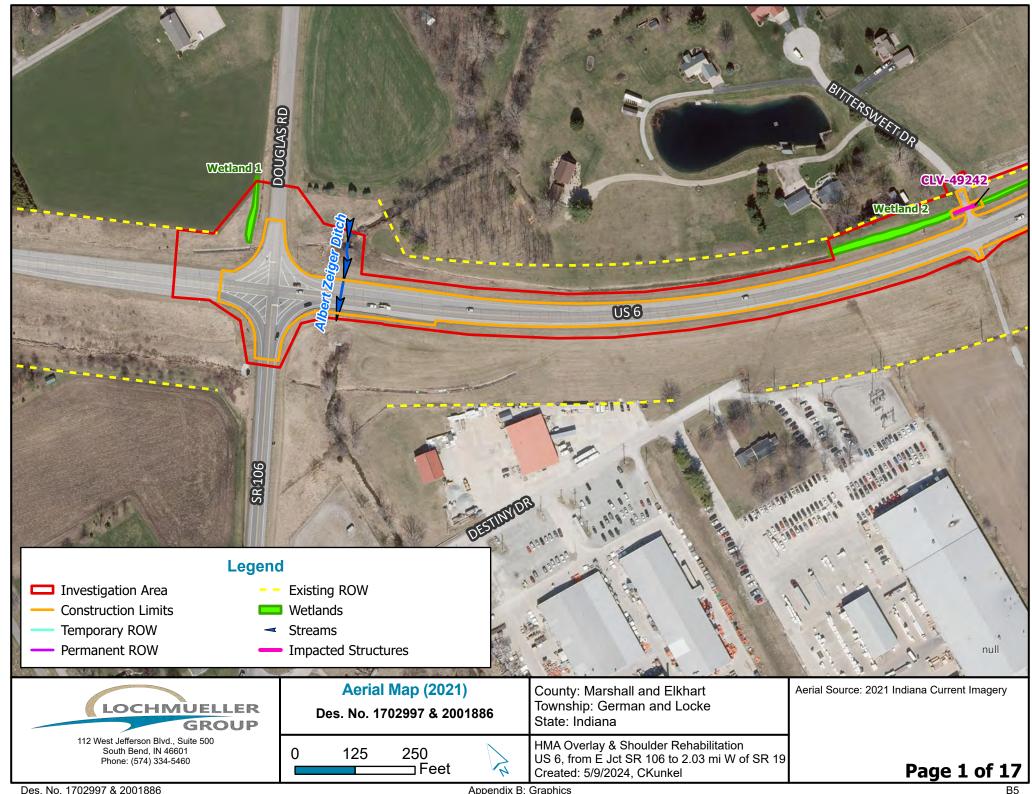


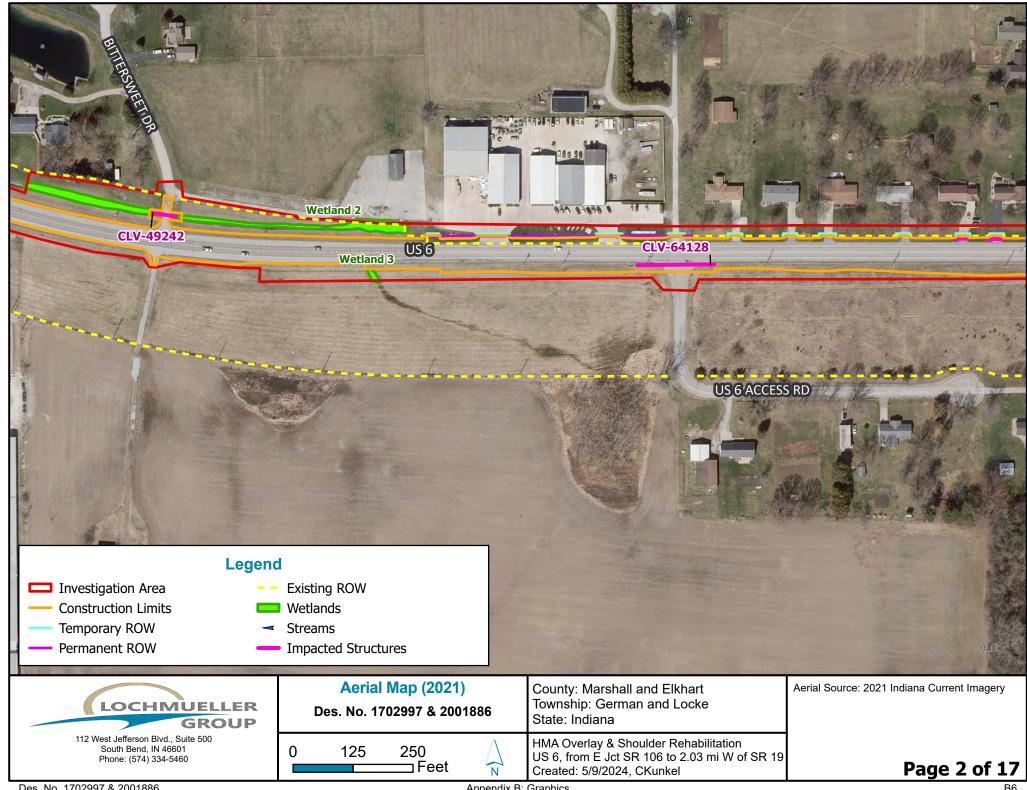


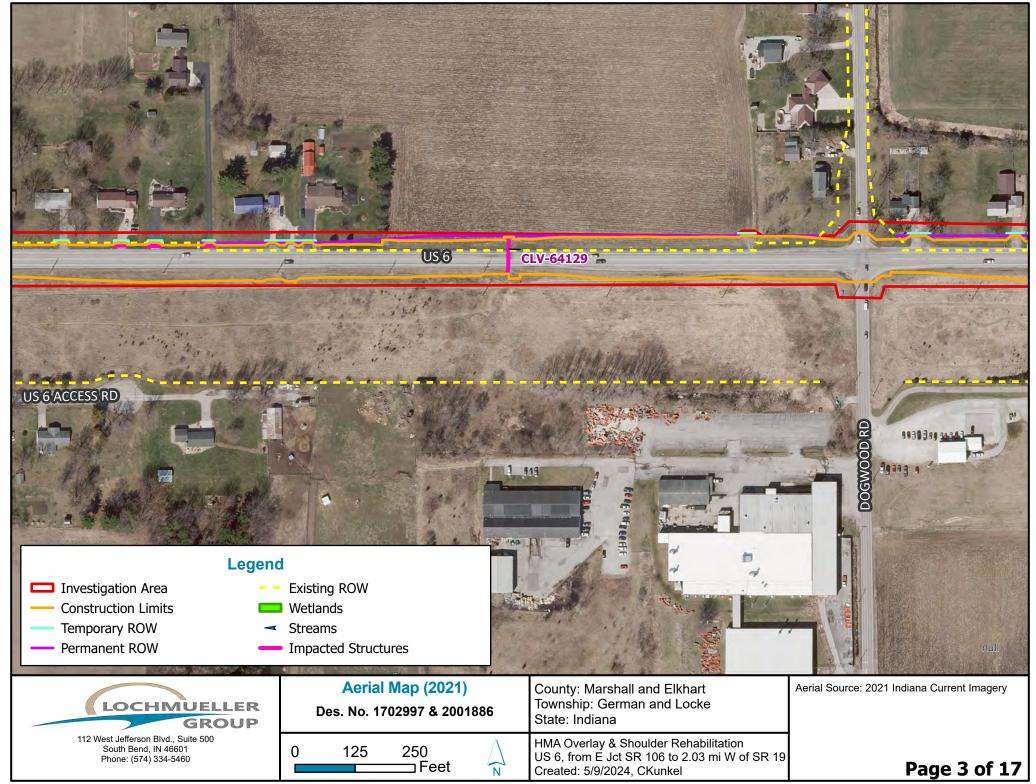


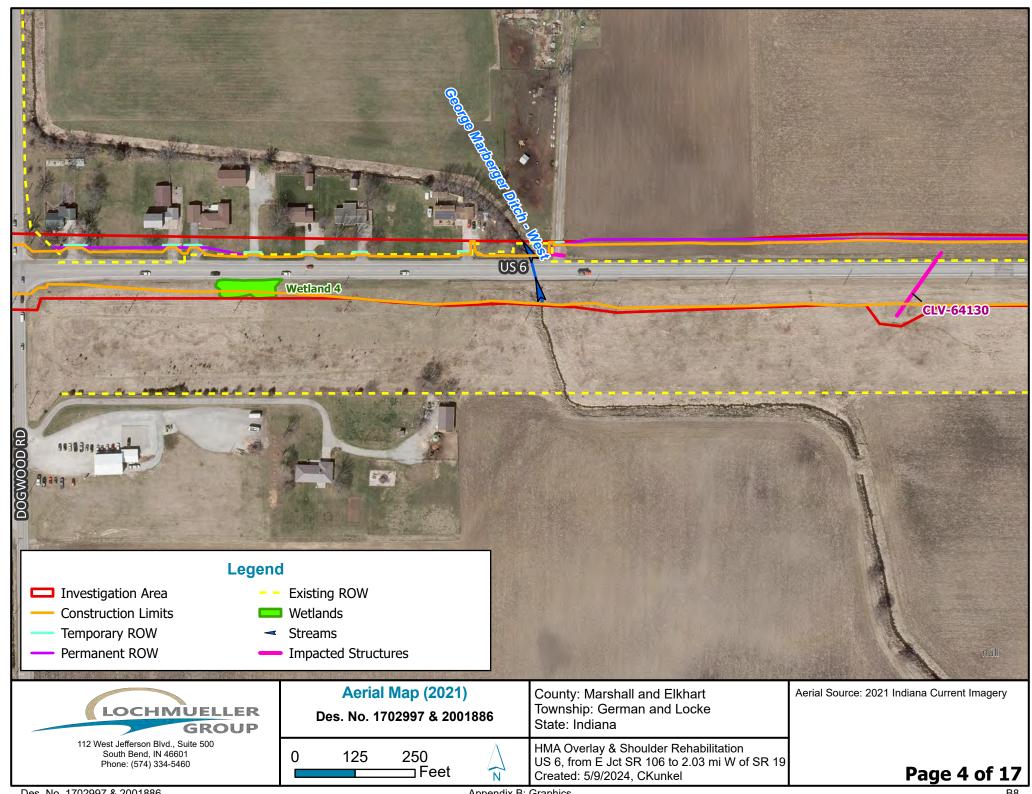


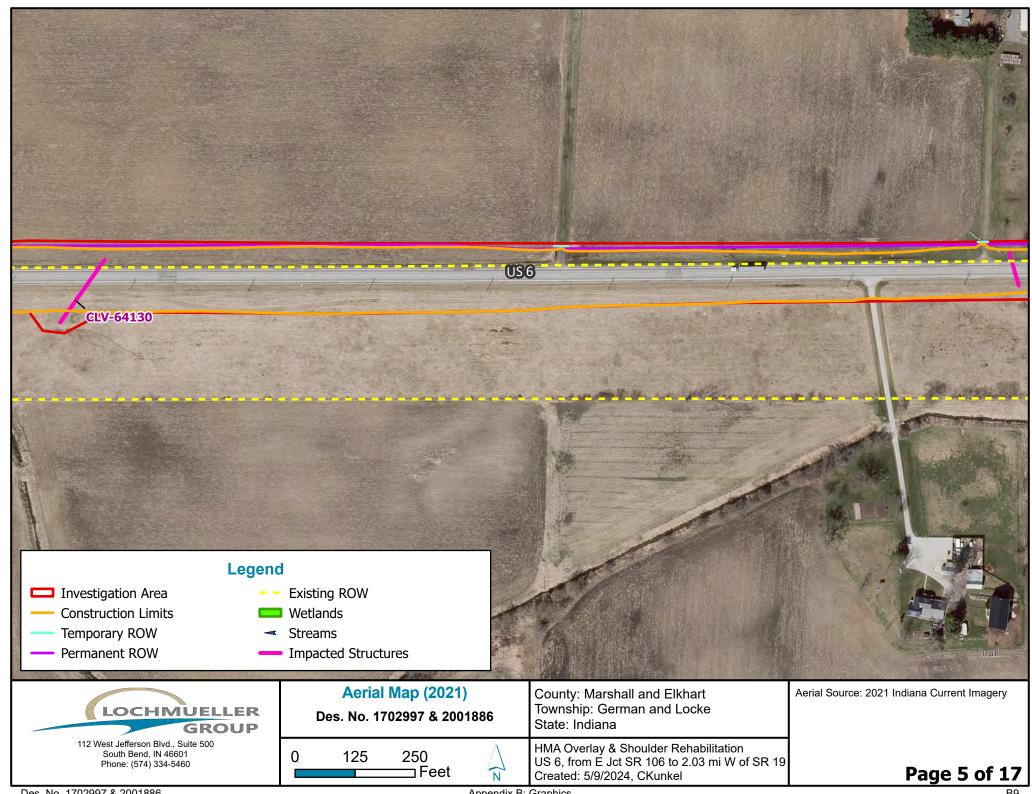


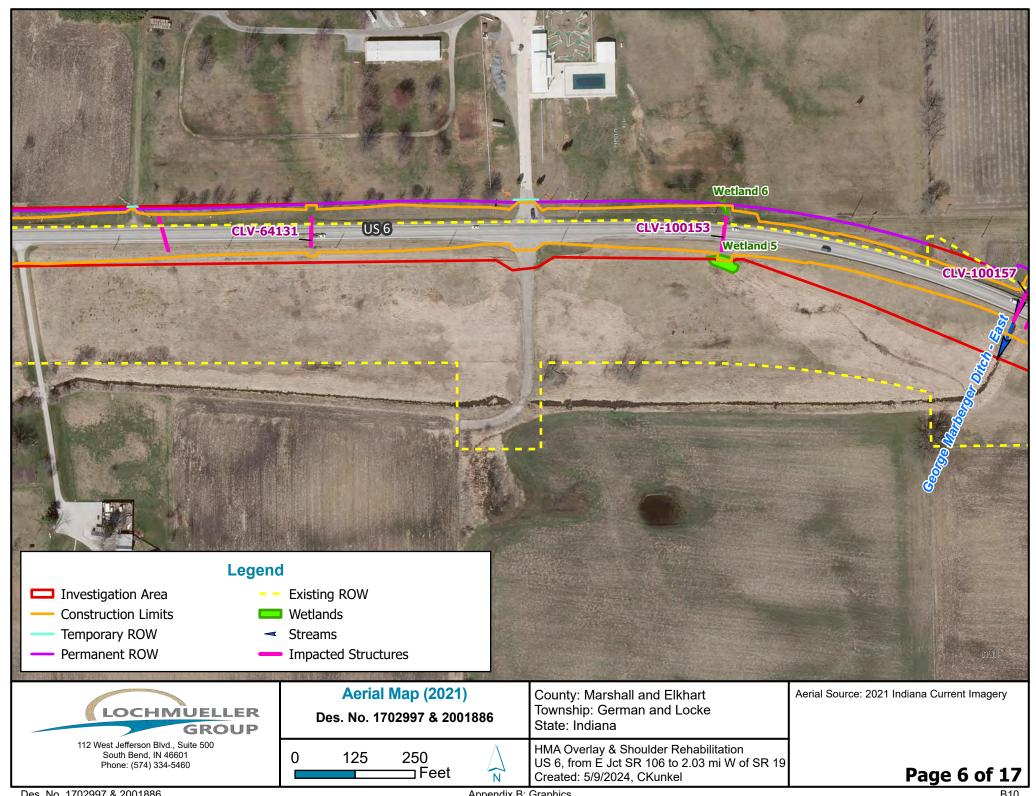


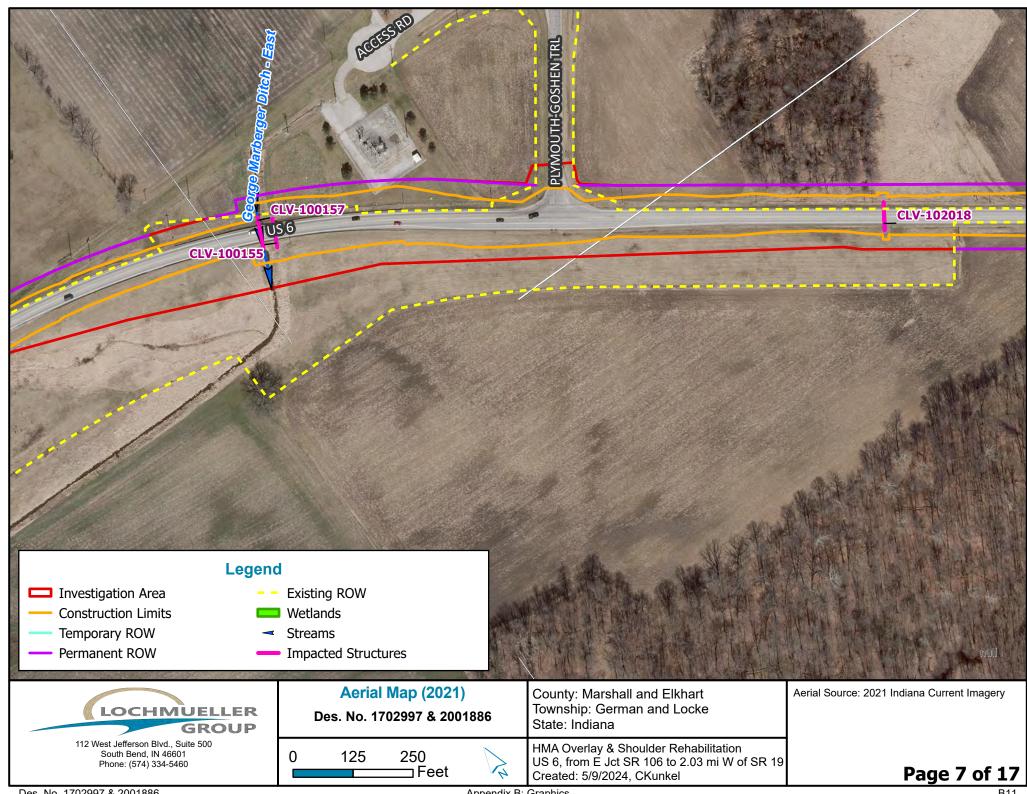


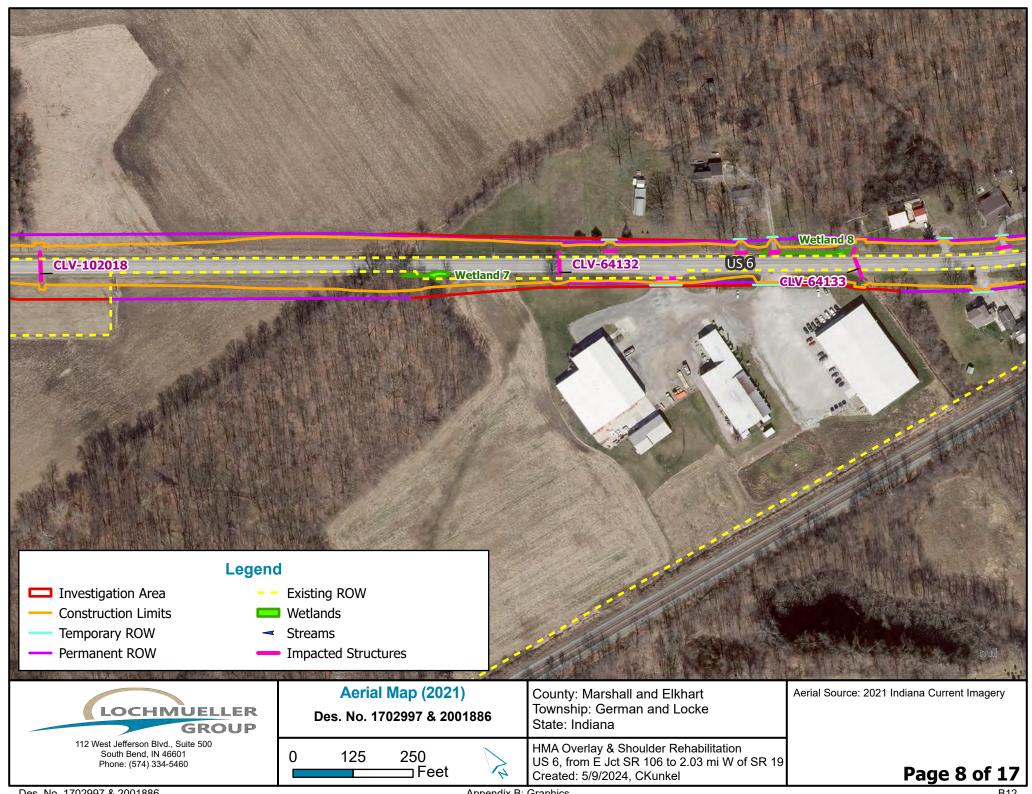


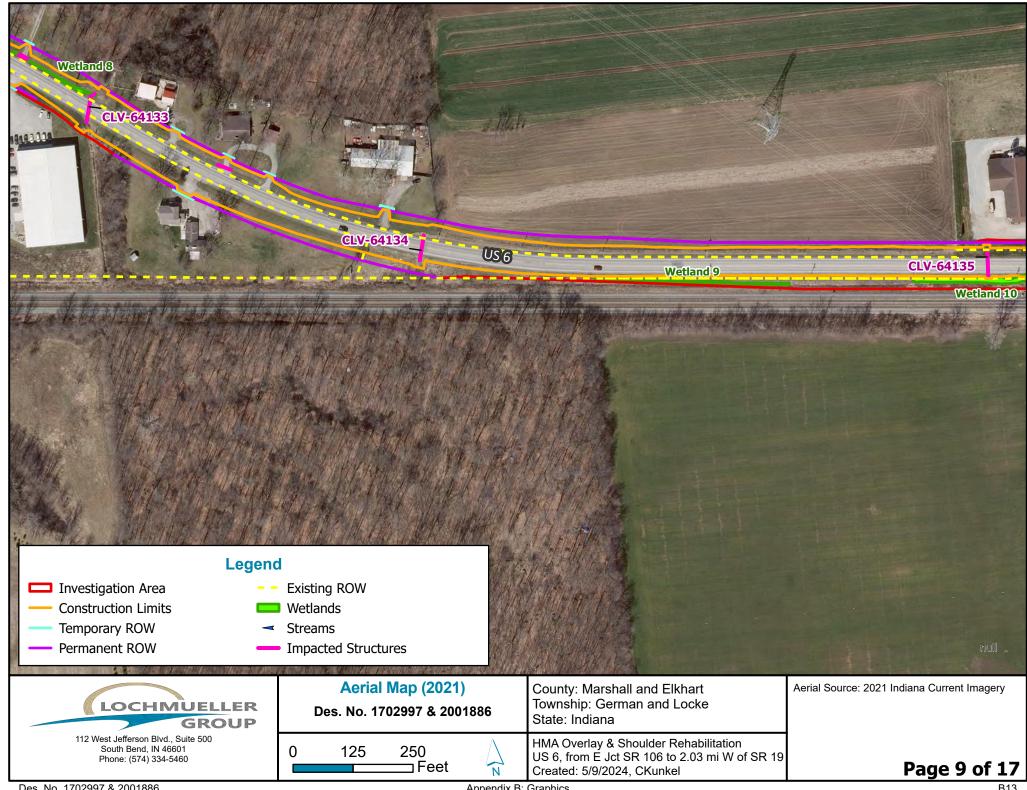


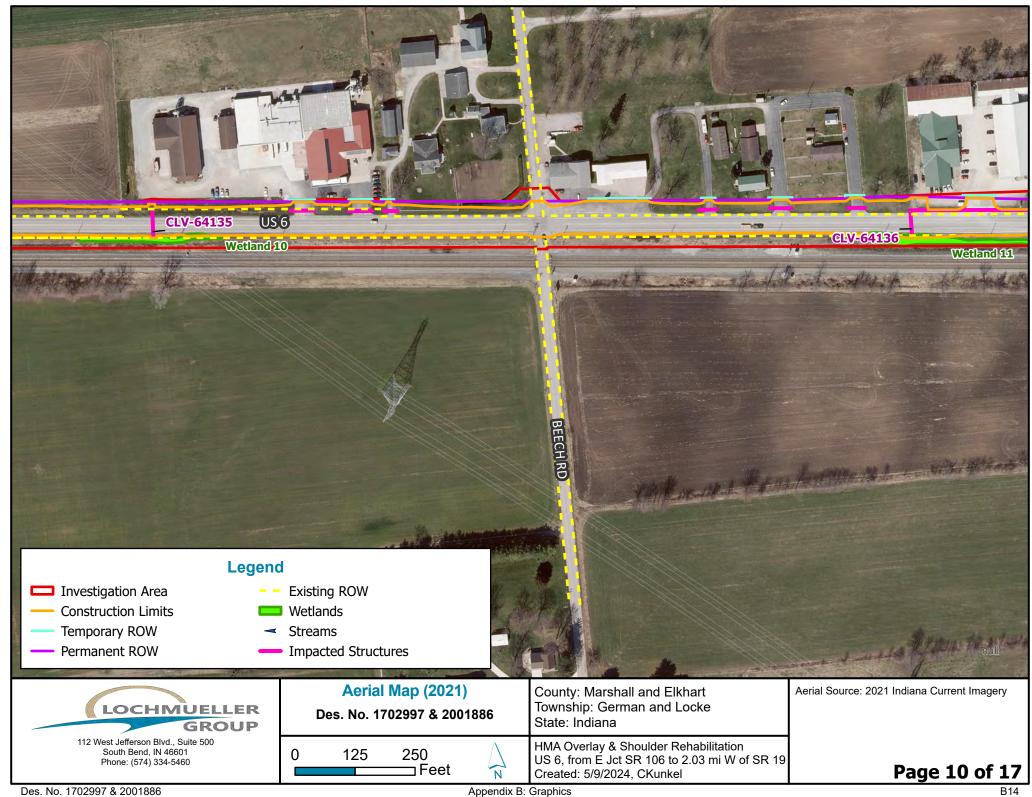




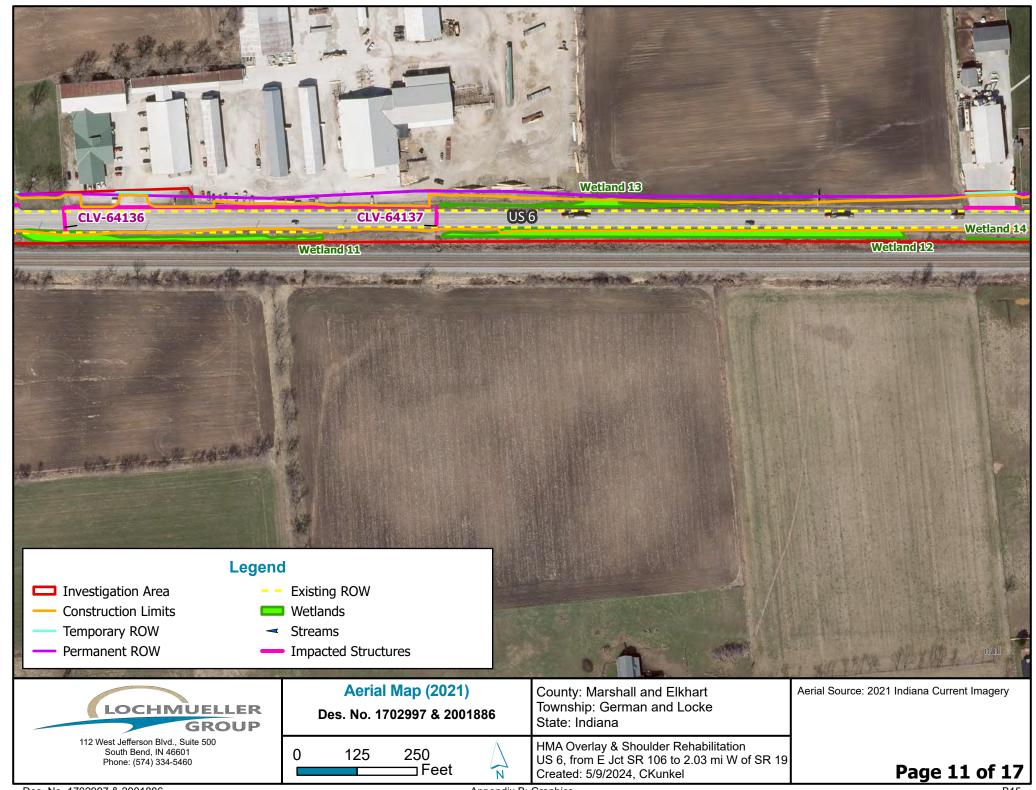


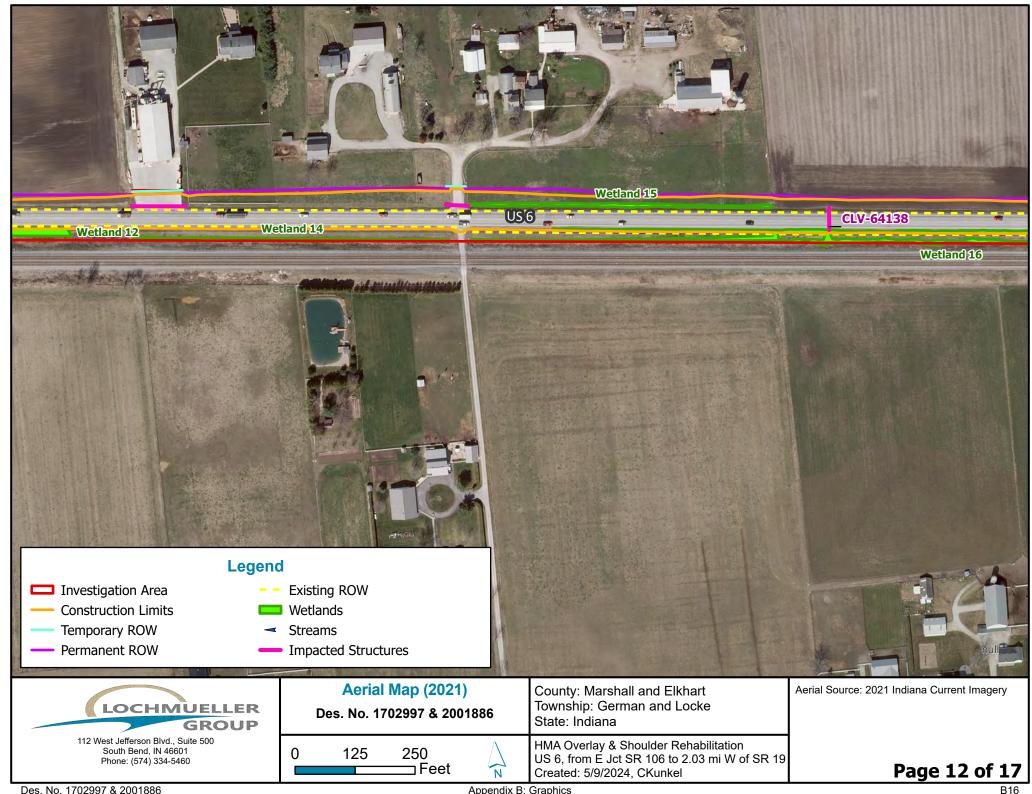


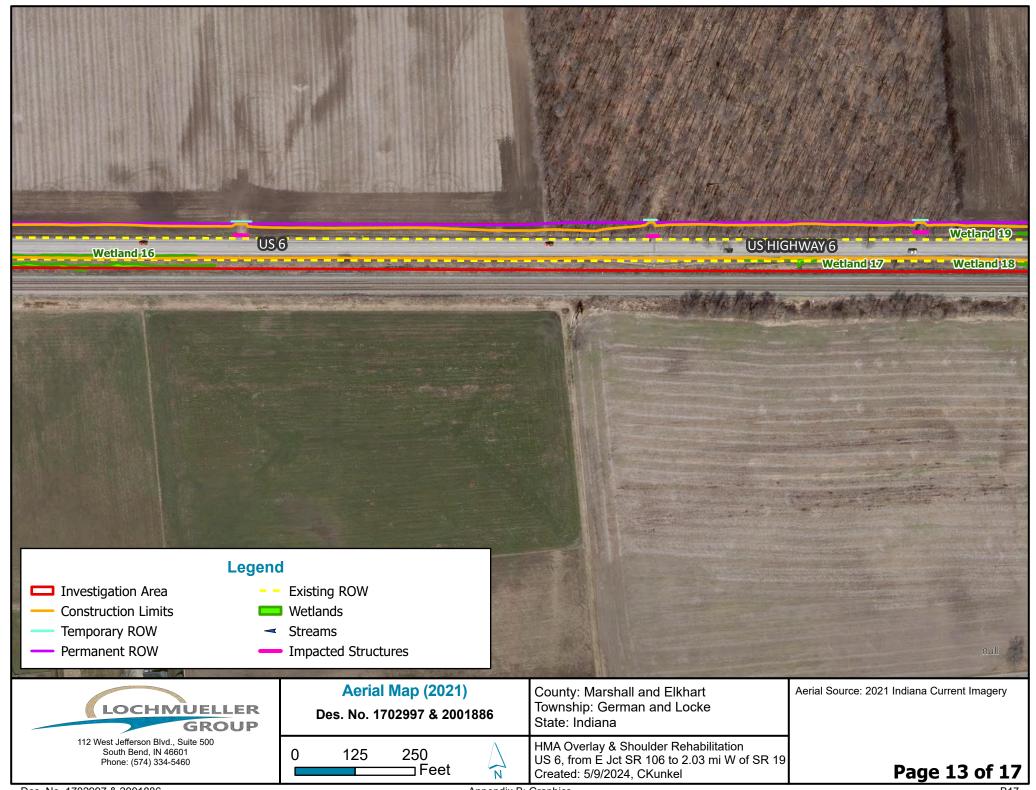


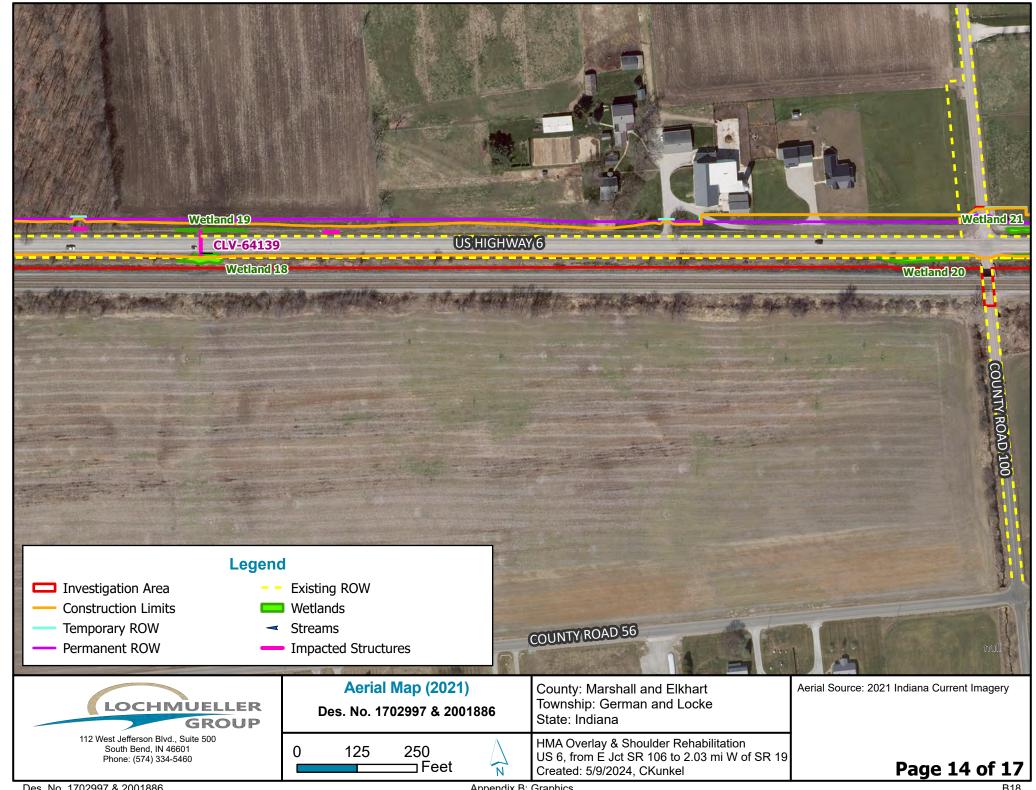


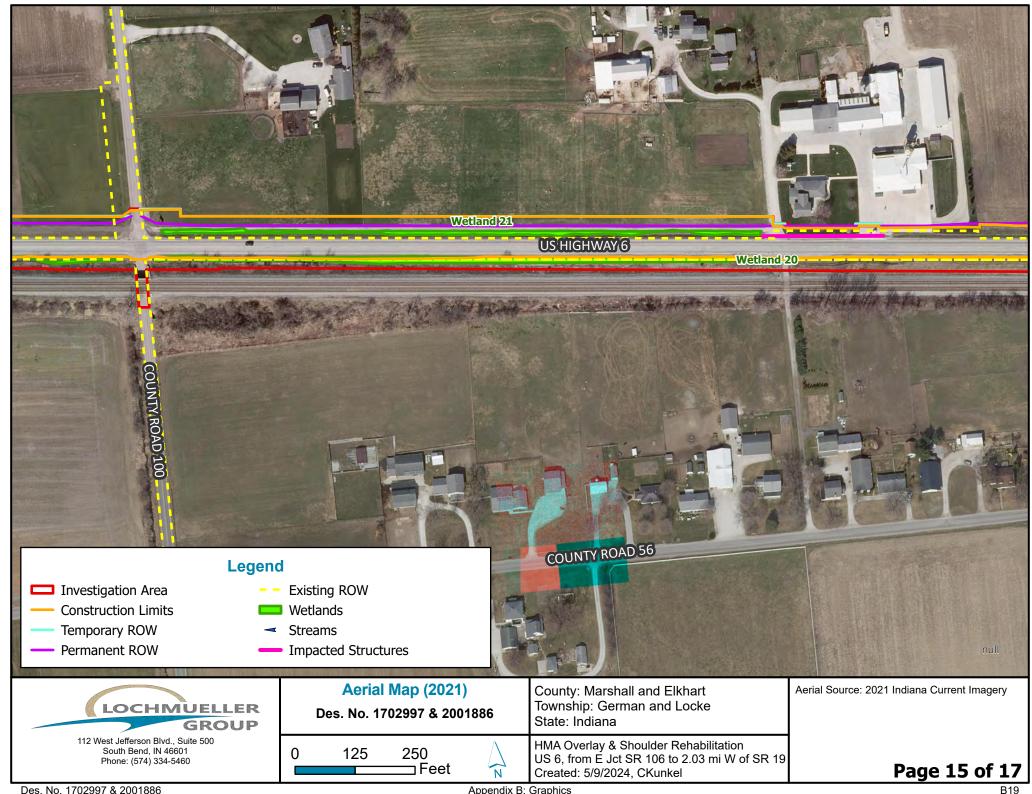
Appendix B: Graphics

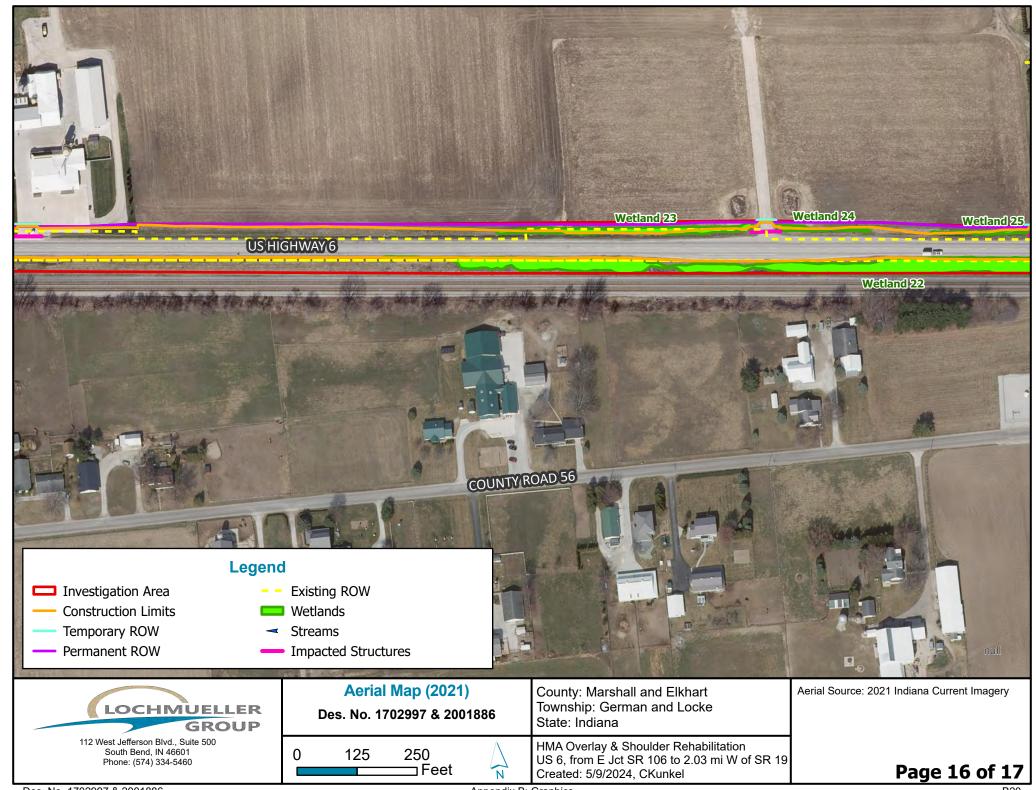


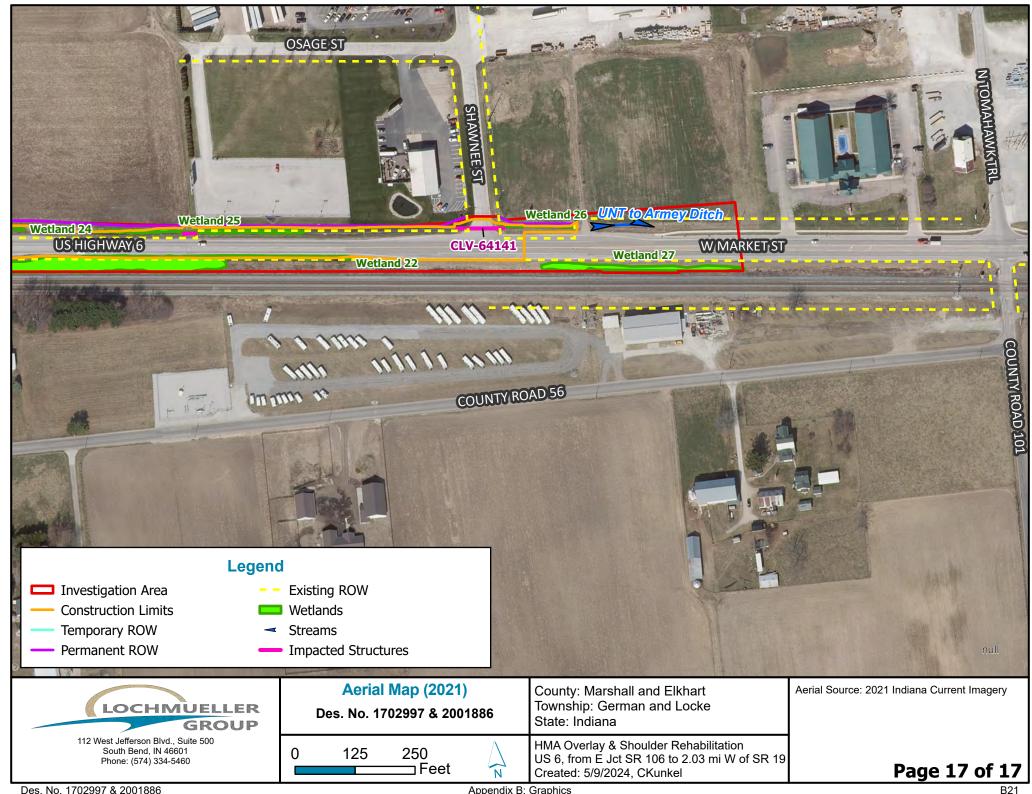


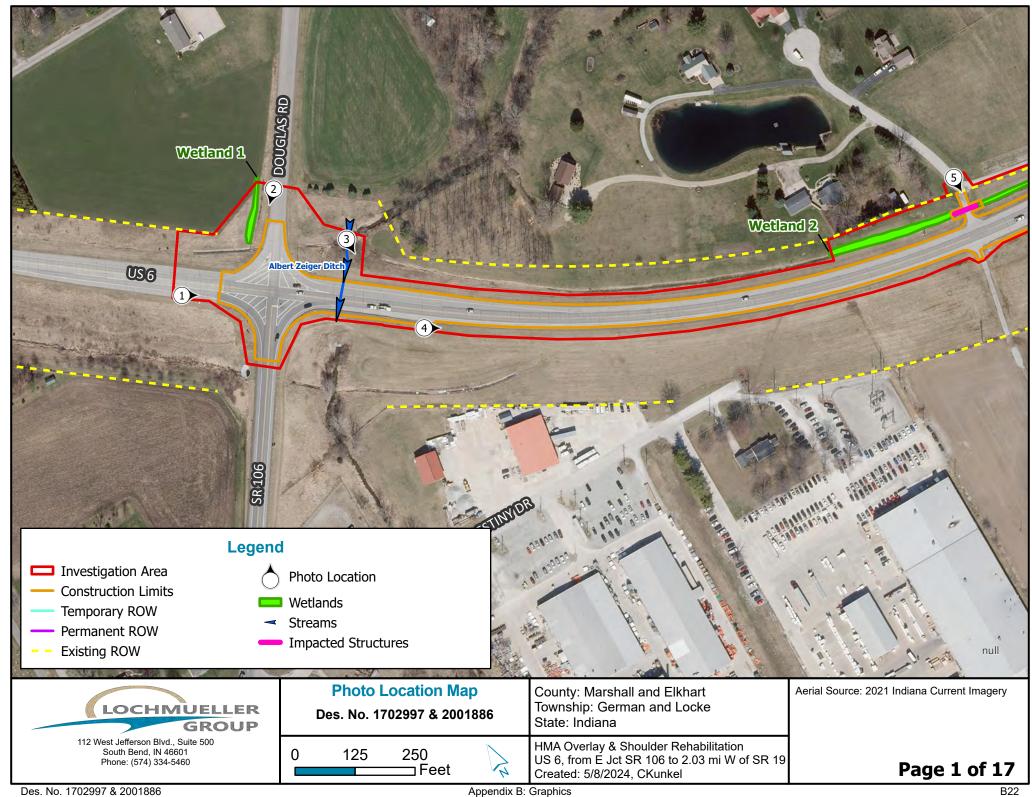




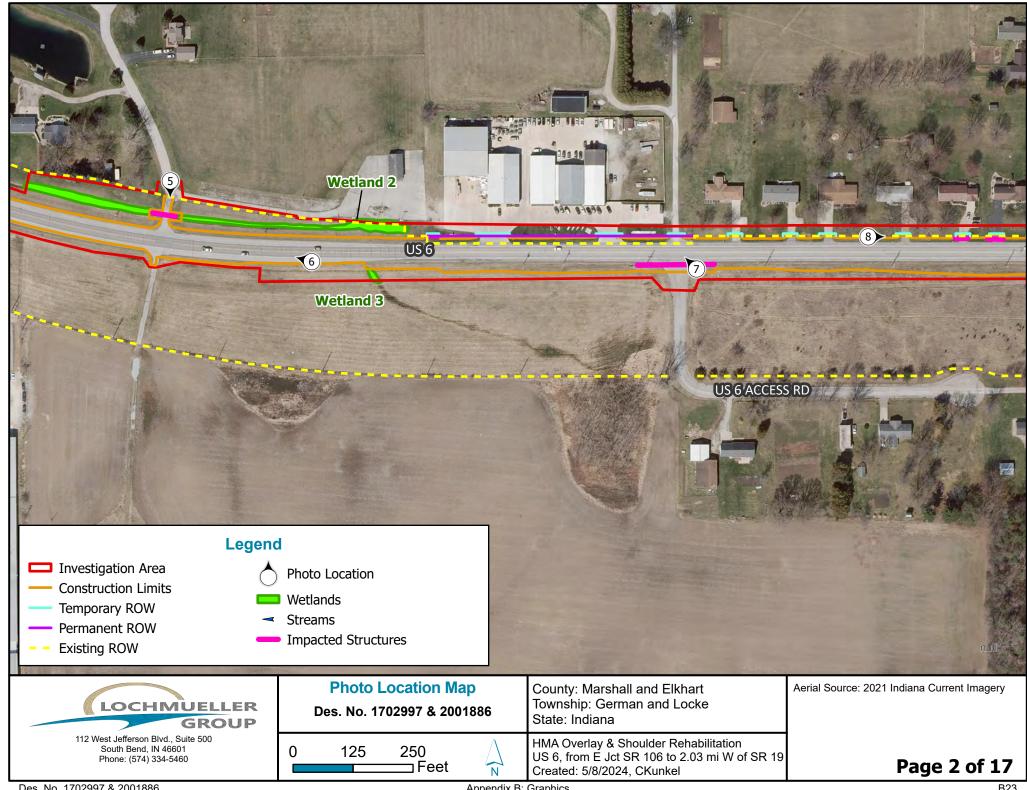


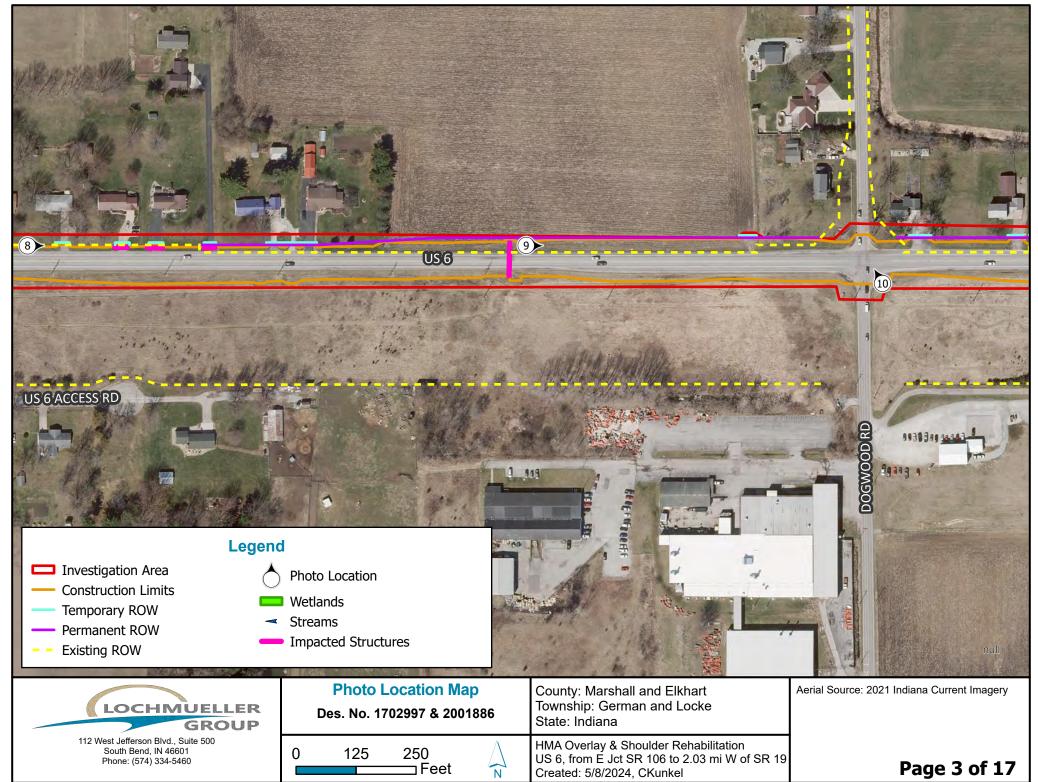


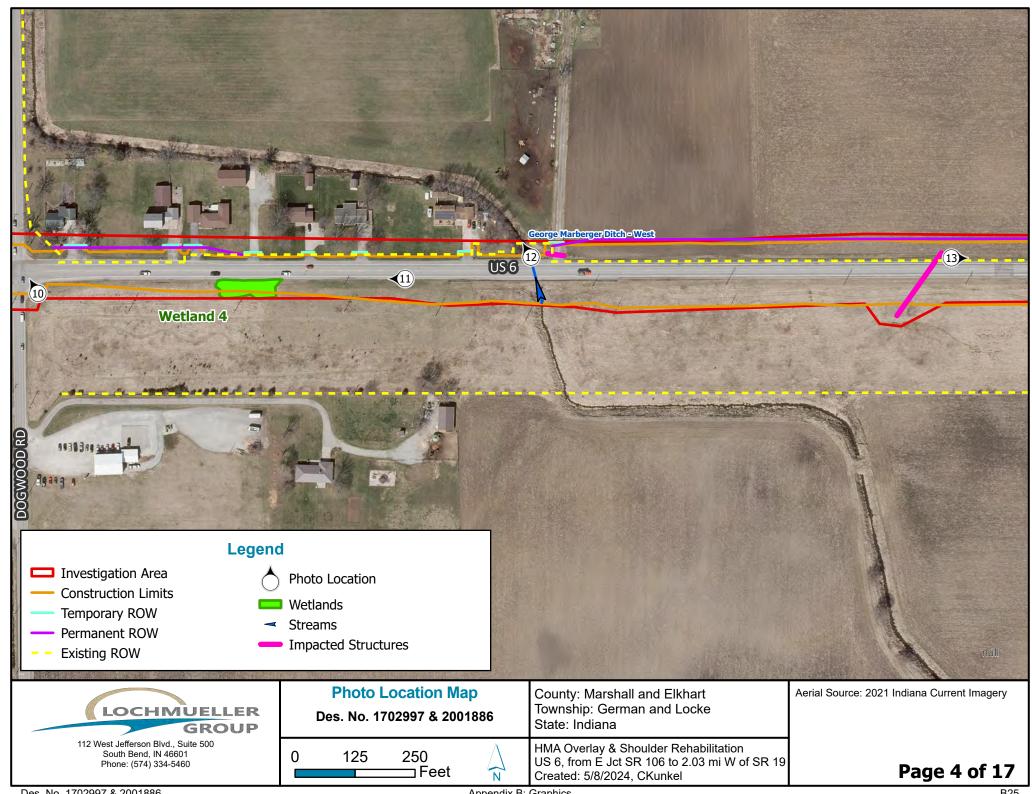


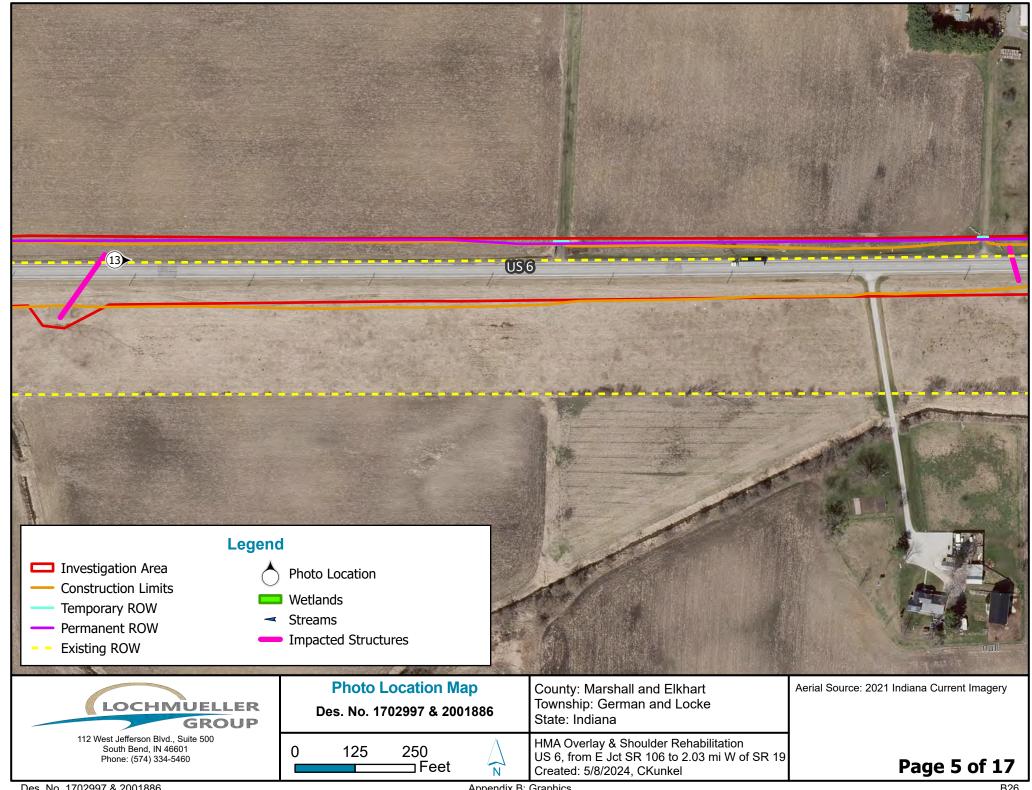


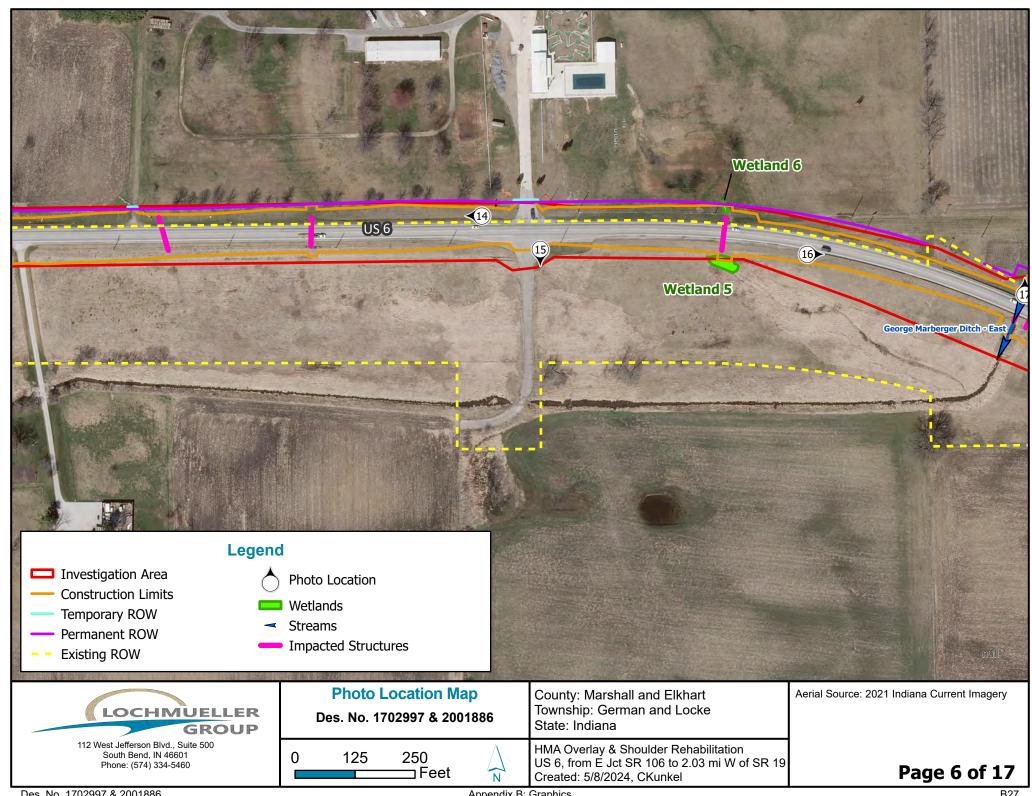
Appendix B: Graphics

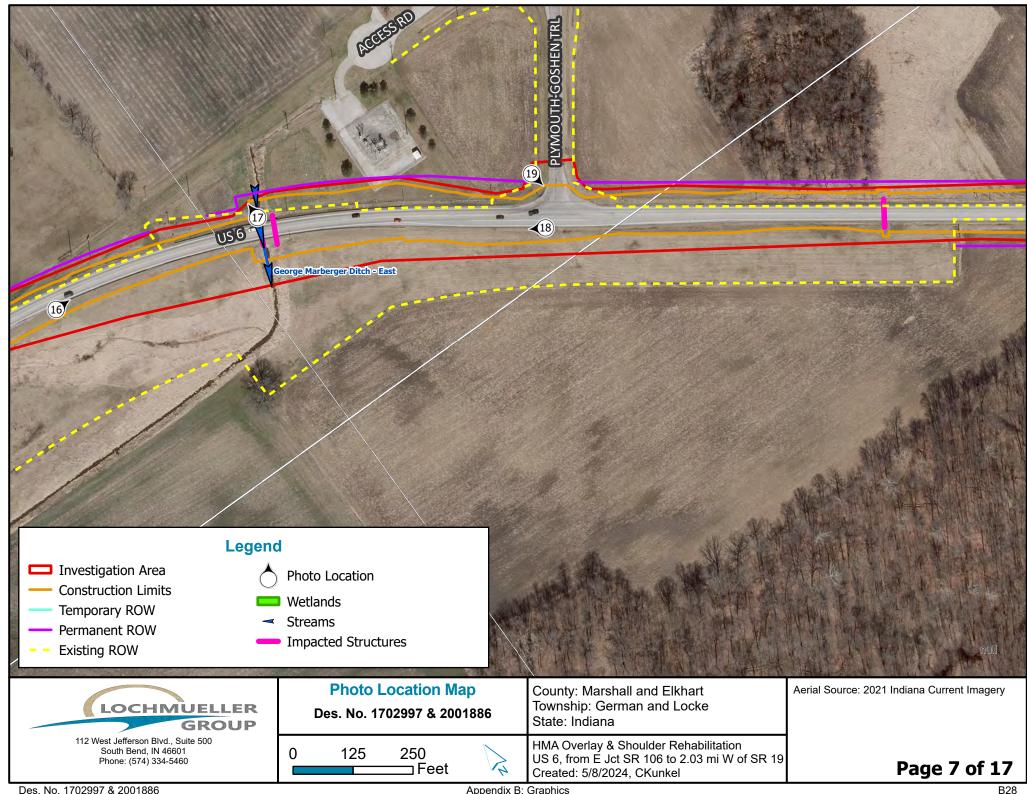


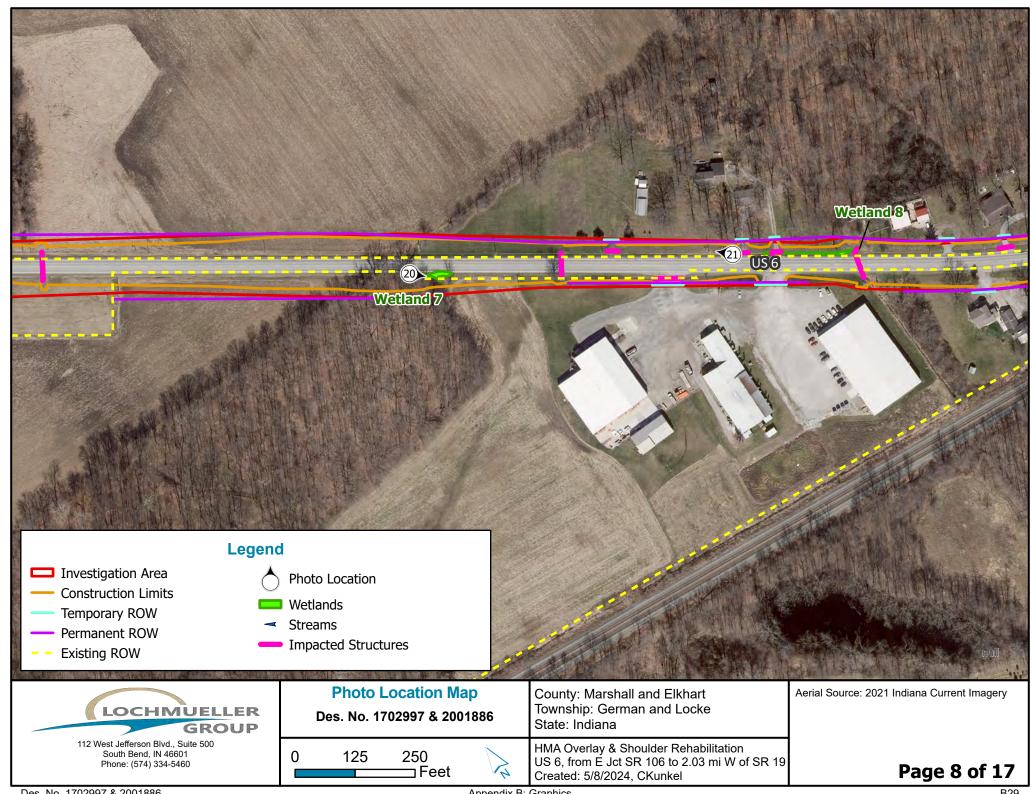


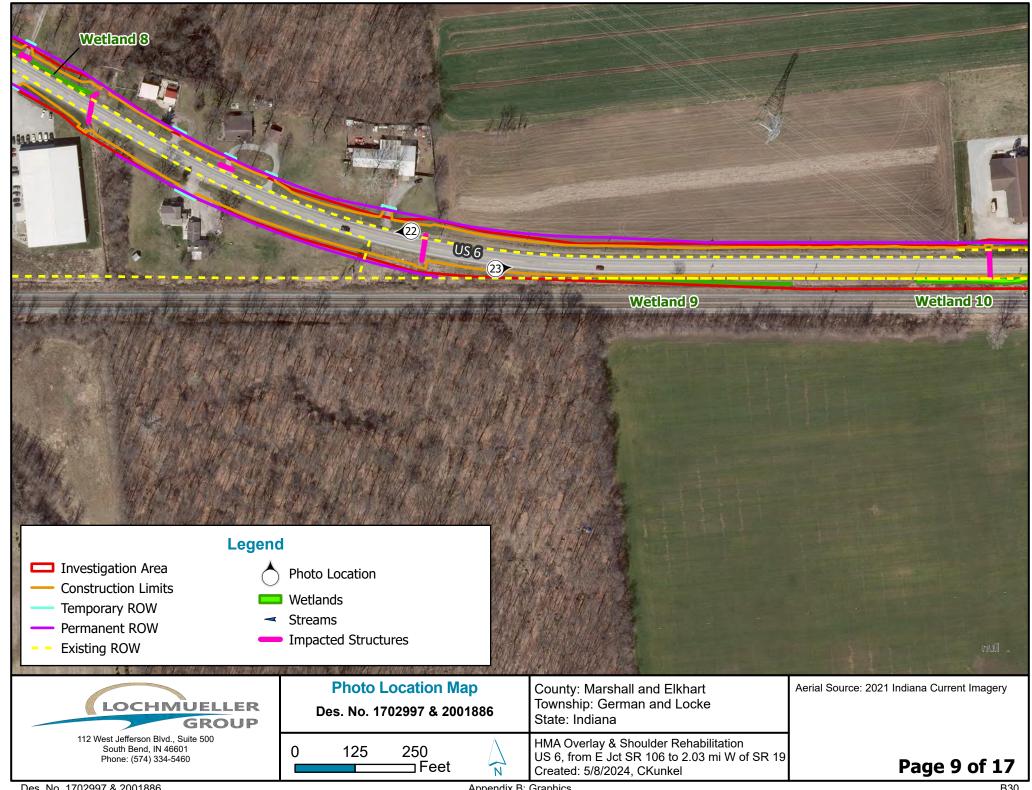


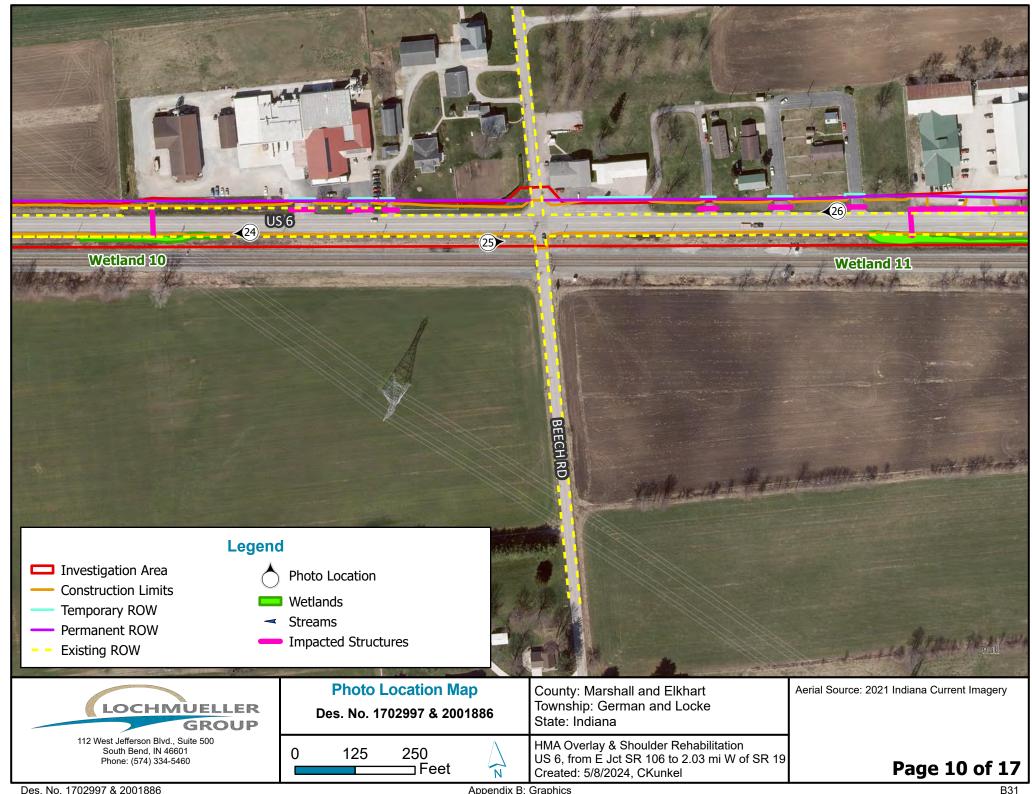


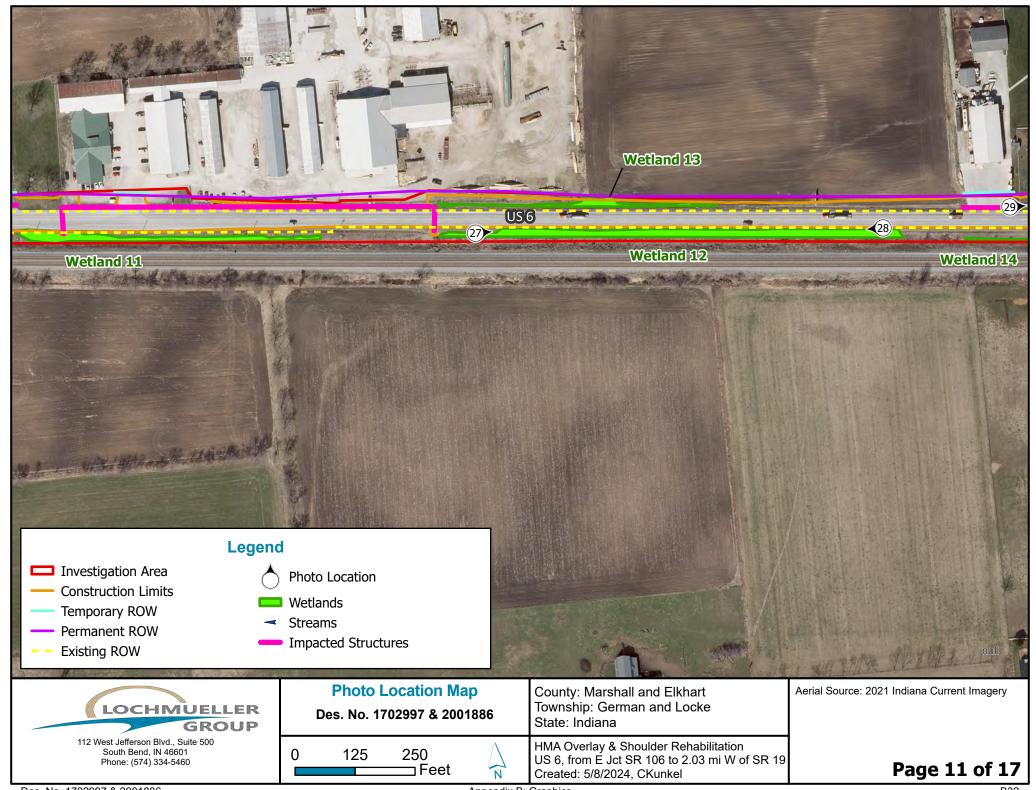


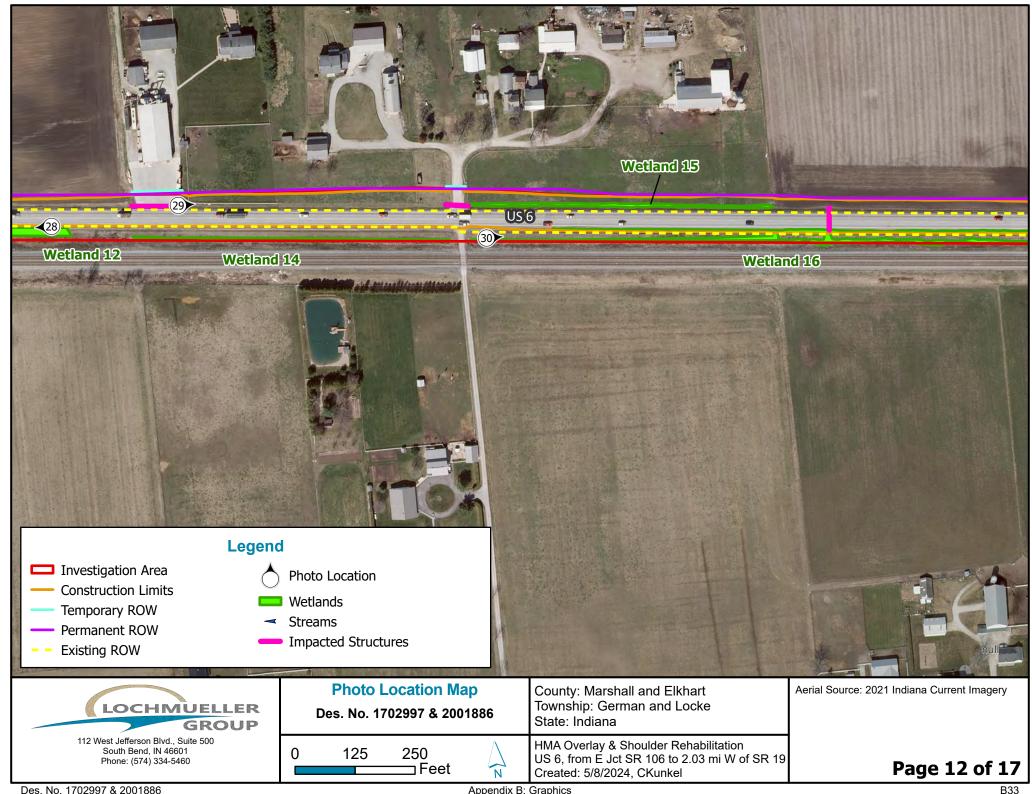


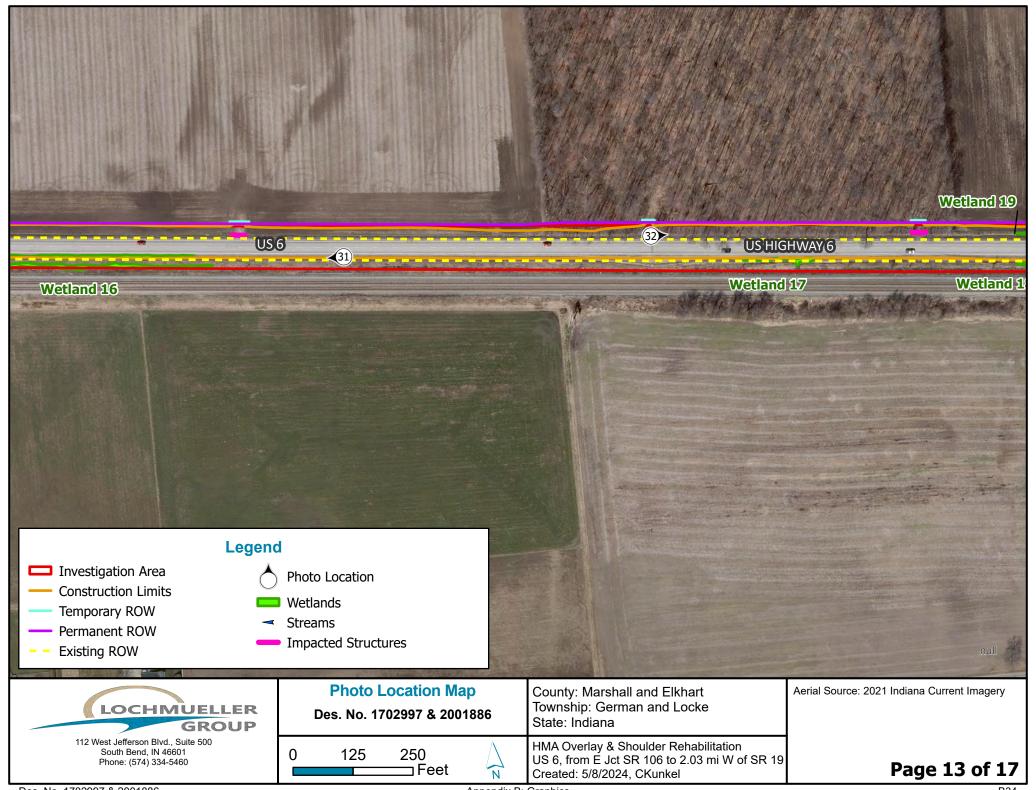


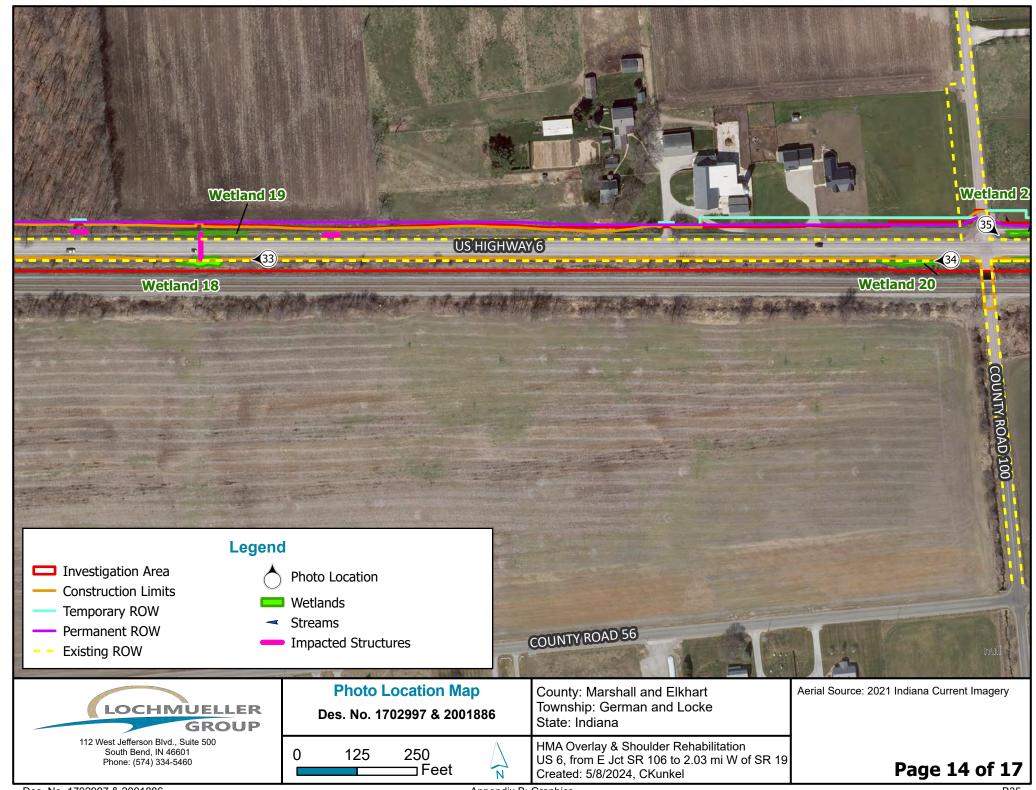


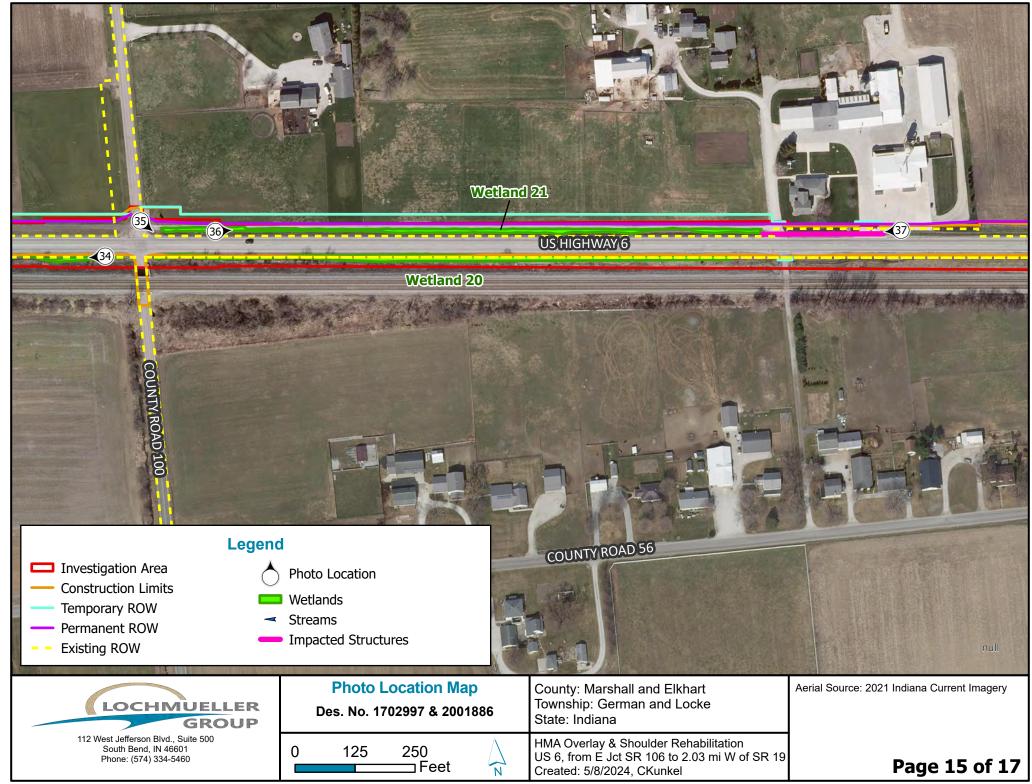


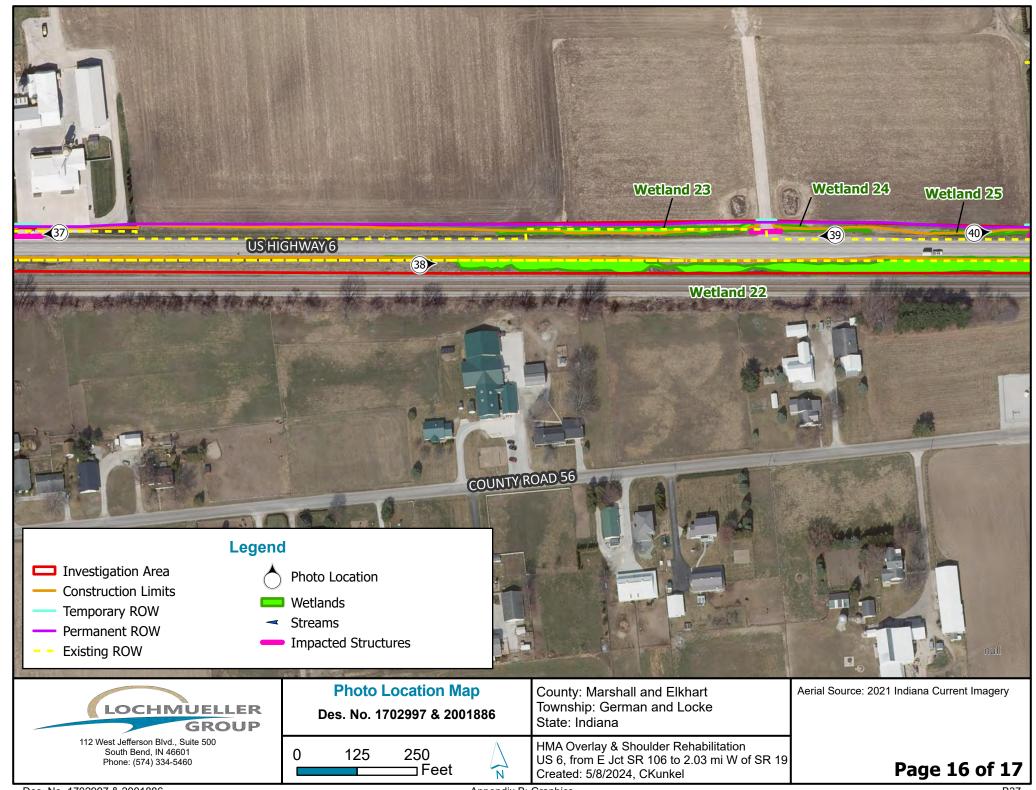


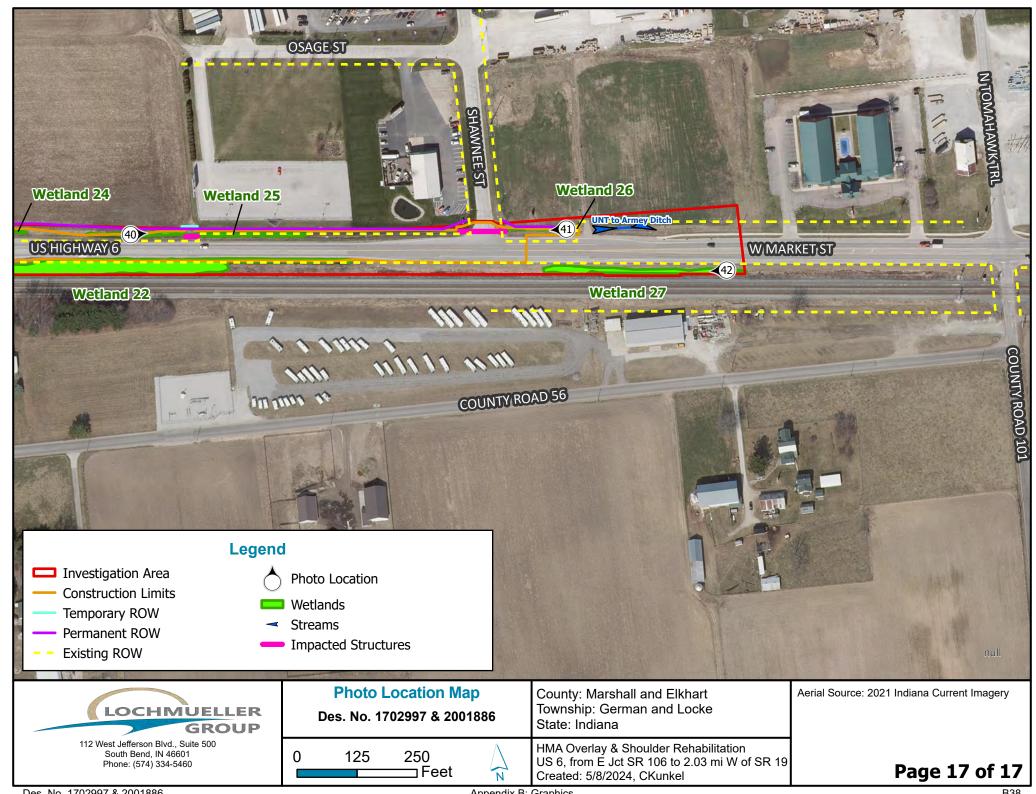












Des. No. 1702997 & 2001886 Appendix B: Graphics



1. Looking southeast along US 6



2. Looking southwest along Douglas Rd toward US 6



3. Looking south downstream along Albert Zeiger Ditch toward culvert



4. Looking southeast along south side of US $\boldsymbol{6}$



5. Looking south along Bittersweet Drive toward US $\boldsymbol{6}$



6. Looking northwest along south side of US 6



7. Looking northwest at intersection of US 6 and US 6 Access Road



8. Looking east along north side of us6



9. Looking east along north side of US $\boldsymbol{6}$



10. Looking northwest at intersection of US 6 and Dogwood RD $\,$



11. Looking west along south side of US 6



12. Looking northwest downstream along George Marberger Ditch



13. Looking east along north side of US 6



14. Looking west along north side of US 6



15. Looking south from US 6



16. Looking east along south side of US $\boldsymbol{6}$



17. Looking north upstream along George Marberger Ditch



18. Looking west along south side of US $\boldsymbol{6}$



19. Looking southeast across Plymouth-Goshen Trail toward US 6



20. Looking southeast along south side of US 6



21. Looking northwest along north side of US $\boldsymbol{6}$



22. Looking northwest along north side of US $\ensuremath{\mathrm{6}}$



23. Looking east along south side of US 6



24. Looking west along south side of US $\,6\,$



25. Looking east along south side of US 6



26. Looking west along north side of US 6



27. Looking east along south side of US 6



28. Looking west along south side of US 6



29. Looking east along north side US 6



30. Looking east along south side of US $\boldsymbol{6}$



31. Looking west along south side of US 6



32. Looking east along north side of US 6



33. Looking west along south side of US 6



34. Looking west along south side of US 6 at drainage structure



35. Looking southeast at intersection of US 6 and CR 100 $\,$



36. Looking east along north side of US $\boldsymbol{6}$



37. Looking west along north side of US 6 toward culvert



38. Looking east along south side of US 6



39. Looking west along north side of US $\boldsymbol{6}$



40. Looking east along north side of US $\,6\,$



41. Looking west along north side of US 6



42. Looking west along south side of US $\,6\,$

	PROJECT	DESIGNATION	
	2001886/1702997	2001886/1702997	
1	CONTRACT	BRIDGE FILE	
- 1	R-43381	N/A	

KIN PROJECT INFORMATION		
DESIGNATION PROJECT DESCRIPTION		
2001886 (LEAD)	HMA Overlay and Minor Structural	
1702997	Shoulder Widening	

ADDITIONAL RIGHT-OF-WAY REQUIRED FOR THIS PROJECT

Crossing ID 155435Y, At-Grade with Beech Road; 56' from US 6

Crossing ID 155434S, At-Grade with Private Road; 61' from US 6

Crossing ID 155432D, At-Grade with Private Road; 56' from US 6

Crossing ID 155433K, Grade Separated, CSX Over CR 100

Railroad Coordination, CSX

edge of travel lane to Nearest track

edge of travel lane to Nearest track

edge of travel lane to Nearest track

CULVERT ASSETS					
DES. NO.	CULVERT ASSET ID	STR. NO.	WORK TYPE		
2001886	CLV-49242	101	RIK		
1702997	CLV-64127	102	LIP		
1702997	CLV-64128	104	RIK		
1702997	CLV-64129	110	RIK		
2001886	CLV-64130	115	RIK		
1702997	CLV-64131	122	RIK		
1702997	CLV-100457	124	RIK		
1702997	CLV-100155	125	RIK		
1702997	CLV-64132	127	RIK		
2001886	CLV-64133	131	RIK		
1702997	CLV-64134	137	RIK		
2001886	CLV-64135	138	RIK		
2001886	CLV-64136	147	RIK		
2001886	CLV-64137	150	RIK		
1702997	CLV-64138	153	LIP		
1702997	CLV-64139	157	RIK		
1702997	CLV-64141	169	RIK		

INDIANA DEPARTMENT OF TRANSPORTATION

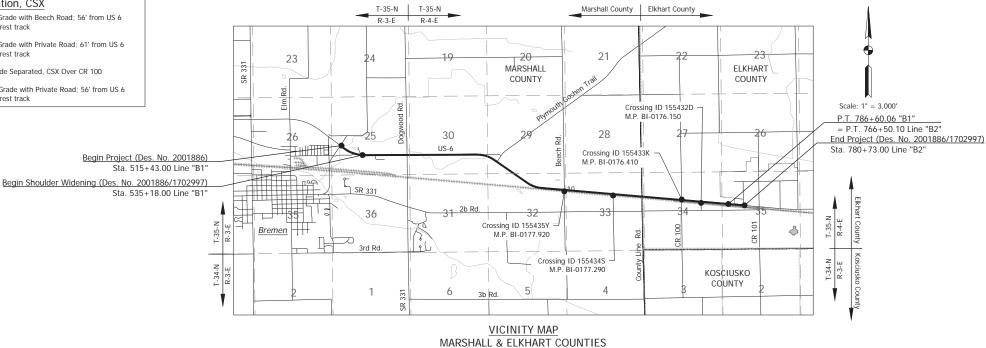


ROAD PLANS

ROUTE: US 6 FROM: RP 79+016 TO: RP 84+074 PROJECT NO. 2001886/1702997 P.E. 2001886/1702997 R/W 2001886/1702997 CONST.

> Gross Length: 5.39 MI Net Length: 5.41 MI Maximum Grade: Existing

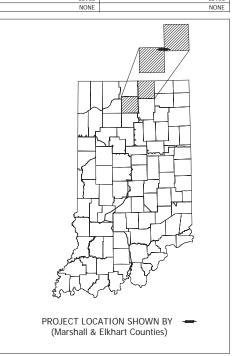
HMA Overlay, Minor Structural on US 6 From the East Junction of SR 106 to 2.03 miles West of SR 19 (Shawnee Dr.) Sections 25, 30, 29, 32, & 33, T-35-N, R-3-E & R-4-E, Marshall County, Indiana Sections 34 & 35, T-35-N, R-4-E, Elkhart County, Indiana



TRAFFIC DATA STA. 508+00 TO STA. 777+00 STA. 777+00 TO STA. 823+89 A.A.D.T. 12,429 V.P.D A.A.D.T 1,211 V.P.H. 1,211 V.P.H. 49.21 % 11.57% A.A.D.T. 11.57% A.A.D.T 8.54 % D.H.V. 8.54% D.H.V DESIGN DATA

55 M.P.H. 3R (NON-FREEWAY) 45 M.P.H PRINCIPAL ARTERIAL FUNCTIONAL CLASSIFICATION PRINCIPAL ARTERIAL RURAL/URBAN URBAN (SUBURBAN) TERRAIN

ACCESS CONTR



BRIDGE LENGTH:	N/A	MI.
	F 20	
OADWAY LENGTH:	5.39	MI.

LONGITUDE: 86° 7' 03"W

Existing

07120001050050

LATITUDE: 41° 27' 13"N

TOTAL LENGTH:

MAX. GRADE:

H.U.C. 14:

STAGE 2 SUBMISSION April 23, 2024

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2024 TO BE USED WITH THESE PLANS

LOCHMUELLER GROUP 112 West Jefferson Blvd, Suite 500 574.334.5460

PLANS PREPARED BY:	Lochmueller Group	(574) 334-5460 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

	BRIDGE FILE		
N/A			
	DESIGNATION		
	2001886/1702997		
SURVEY BOOK	SHEET		
ELECTRONIC	1	of	308
CONTRACT	PROJECT 2001886		Т
R-43381			6
•			

Des. No. 1702997 & 2001886 Appendix B: Graphics

UTILITIES

Bremen, Town of (Sewer)
Matt Cunningham
111 S. Center St.
Bremen, IN 46506
Bremenwwtp@embargmail.com

Bremen, Town of (Water) Alex Mikel 111 S. Center St. Bremen, IN 46506 Bremenwater@gmail.com

Brightspeed Melissa Teague 1728 Churchman Ave Indianapolis, IN 46203 765-656-4663 Melissa.teague@brightspeed.com

Comcast Rhonda Dalton 688 Industrial Dr. Elmhurst, IL 60126 224-229-5863 Rhonda.dalton@comcast.com

Horizon Telecom Jim Lump 68 E. Main St. Chillicothe, OH 45601 740-772-256 Jim.Lump@horizonconnects.com Marshall County R.E.M.C. Tod Brems PO Box 250 Plymouth, IN 46563 574-936-3161 Tbrems@marshallremc.cor

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Dennis.craig@verizon.com

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Jpogar@mediacomcc.com
NIPSCO (Electric)
Nathan Combs
Ncombs@nisource.com

NIPSCO (Gas) Ryan Kelley 801 E. 86th Ave. Merrillville, IN 46410 ryankelley@nisource.com

Nappanne, City of (Sanitary and Water) Gale A. Gerber 300 W Lincoln St. Nappannee, IN 46550 574-773-4623 Napputilities@yahoo.com

Know what's below.

New Paris Community Fiber Robert Smith 19066 Market St.

New Paris, IN 46553 574-831-7170

Rob.smith@nptel.com

Newmar Corporation Tad Groff

355 North Delaware

Nappannee, IN 46550 Tgroff@newmarcorp.com

RAILROAD CONTACT DATA

CSX Transportation Brad Armstrong Brad_Armstrong@csx.com (513) 853-1221

	REVISIONS			
SHEET NO.	DATE	REVISED		

GENERAL NOTES

Locations and stationing are provided for information only. All widths and distances shall be field verified by the contractor. Alignment data will not be provided in electronic format.

The layout and limits of the proposed permanent pavement markings shall match those of existing pavement markings. The Contractor shall document the layout and limits of the existing pavement markings before performing any pavement patching or asphalt milling operations and provide a copy of the documentation to the Project Engineer

HMA pavements shall have joint adhesive applied per standard specification 401.15. A 24" wide liquid asphalt sealant shall be placed centered on all longitudinal joints that have joint adhesive installed as per standard specification 401.15.

Drainage structures and various manholes are present in the project limits and shall not be disturbed, except as shown in the plans.

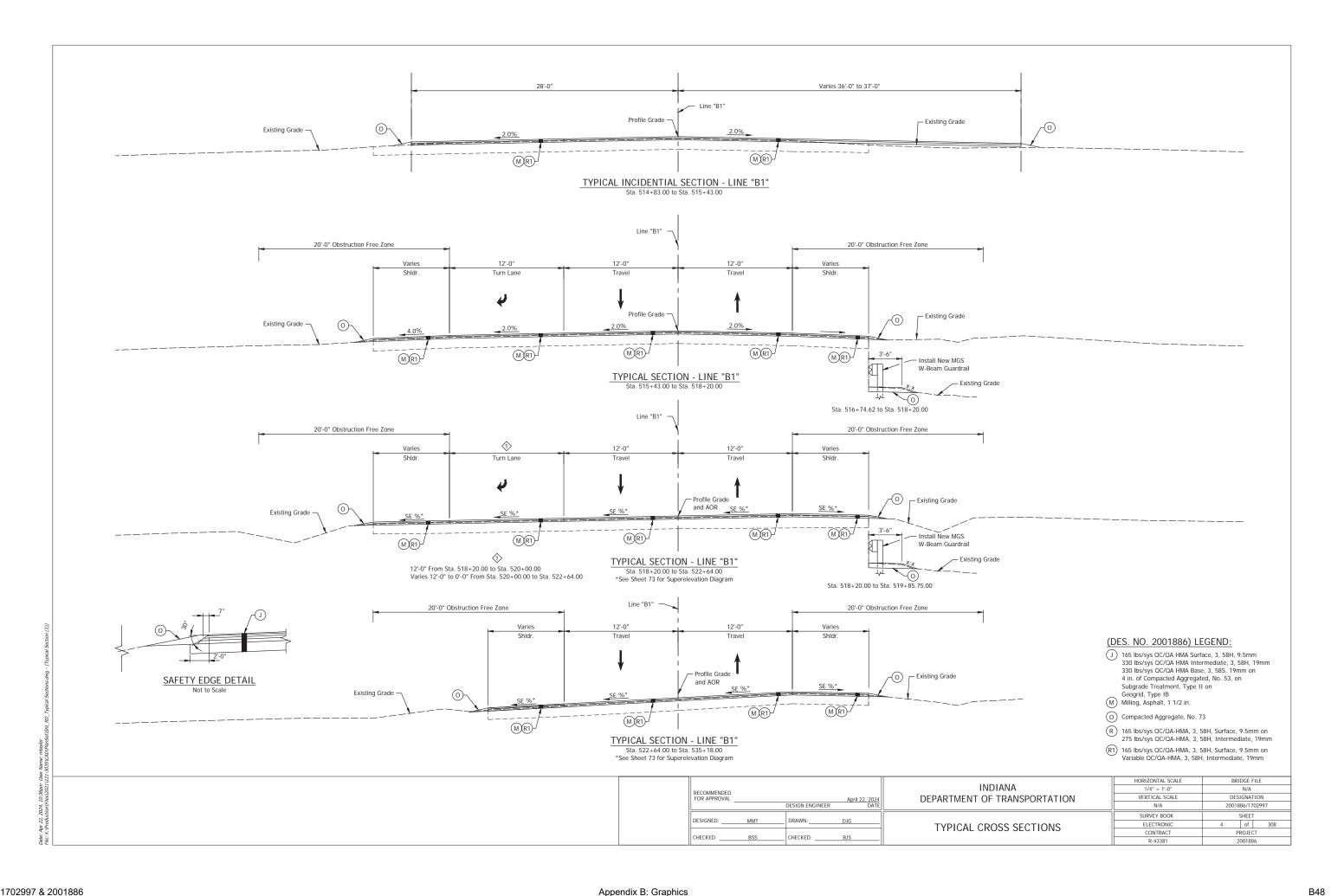
After the milling operation is complete, crack sealing of cracks greater than or equal to $\frac{1}{4}$ " wide shall be done. Crack fill and seal operations should use PG 64-22 liquid asphalt.

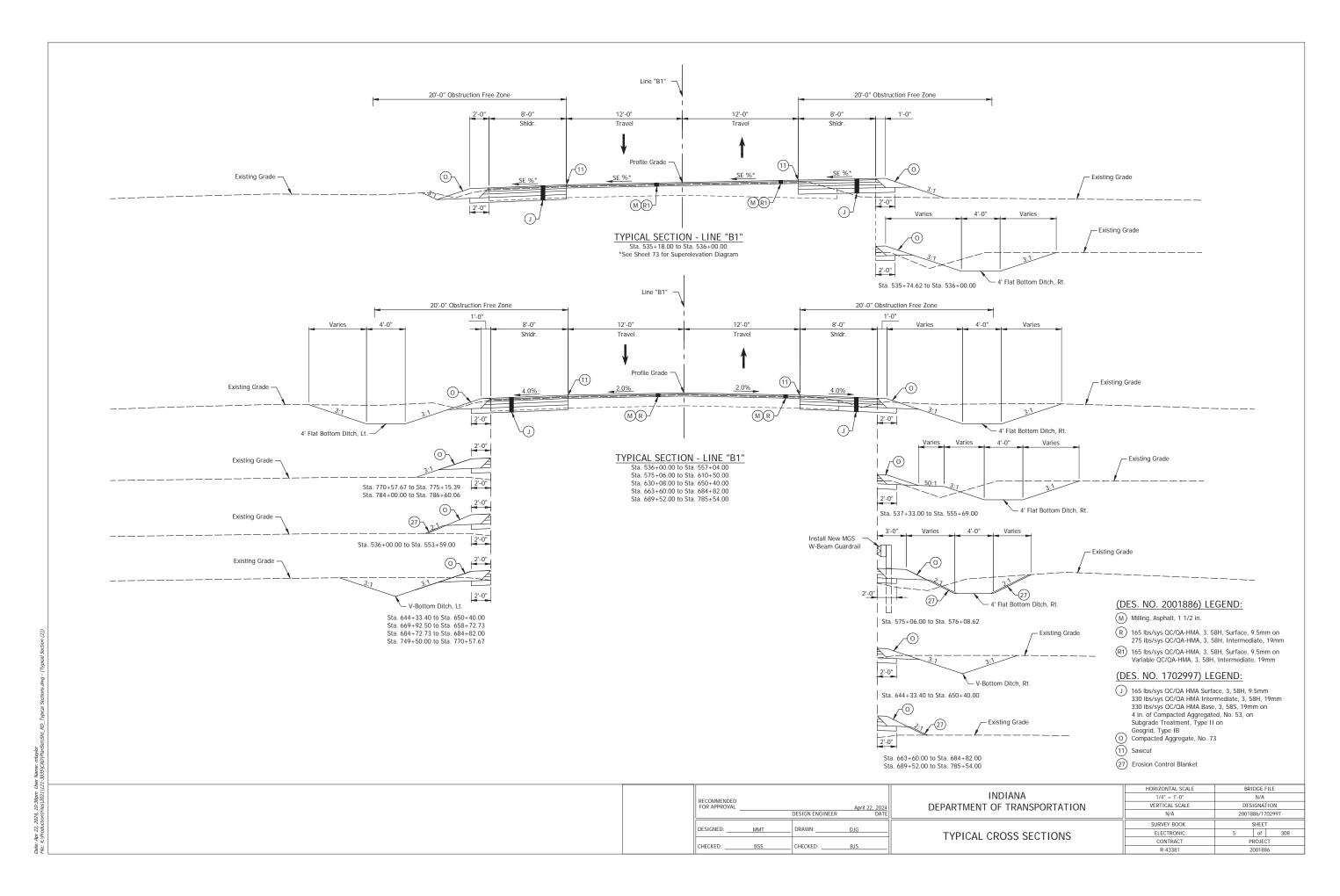
INDEX			
SHEET NO.	DRAWINGS INDEX		
1	TITLE		
2	INDEX		
3	HORIZONTAL CONTROL POINTS		
4 - 9	TYPICAL SECTIONS		
10 - 14	PLAT NO. 1		
15 - 30	MAINTENANCE OF TRAFFIC		
31 - 72	PLAN AND PROFILES		
73 - 75	SUPERELEVATION TRANSITION DIAGRAMS		
76 - 78	STRUCTURE DATA TABLE		
79 - 85	APPROACH TABLE		
86 - 308	CROSS SECTIONS		

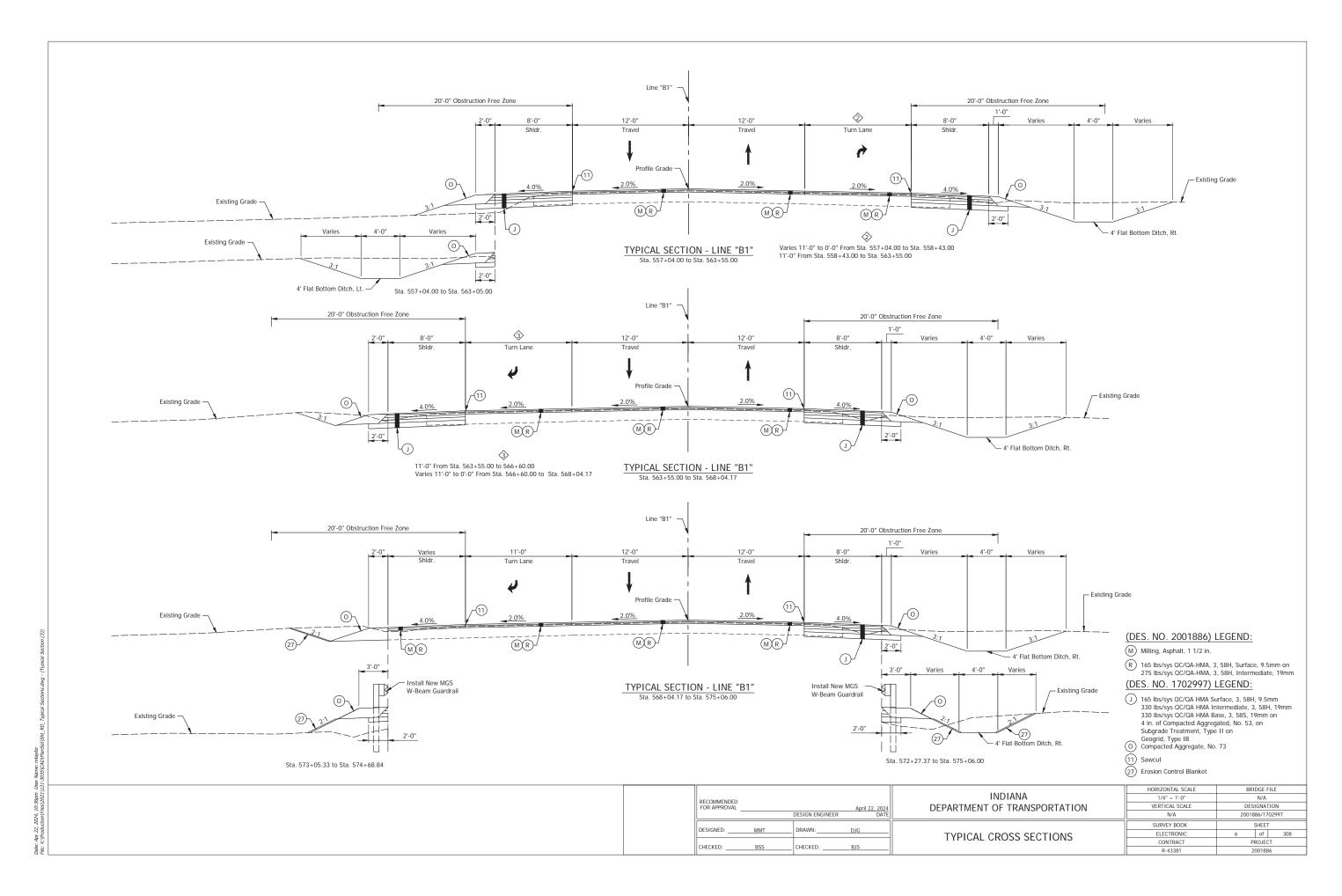
HORIZONTAL SCALE BRIDGE FILE INDIANA N/A RECOMMENDED FOR APPROVAL April 22, 2024 DATE DEPARTMENT OF TRANSPORTATION DESIGNATION VERTICAL SCALE DESIGN ENGINEER SURVEY BOOK SHEET DESIGNED: ELECTRONIC of 308 INDEX CONTRACT PROJECT CHECKED: CHECKED: R-43381 2001886

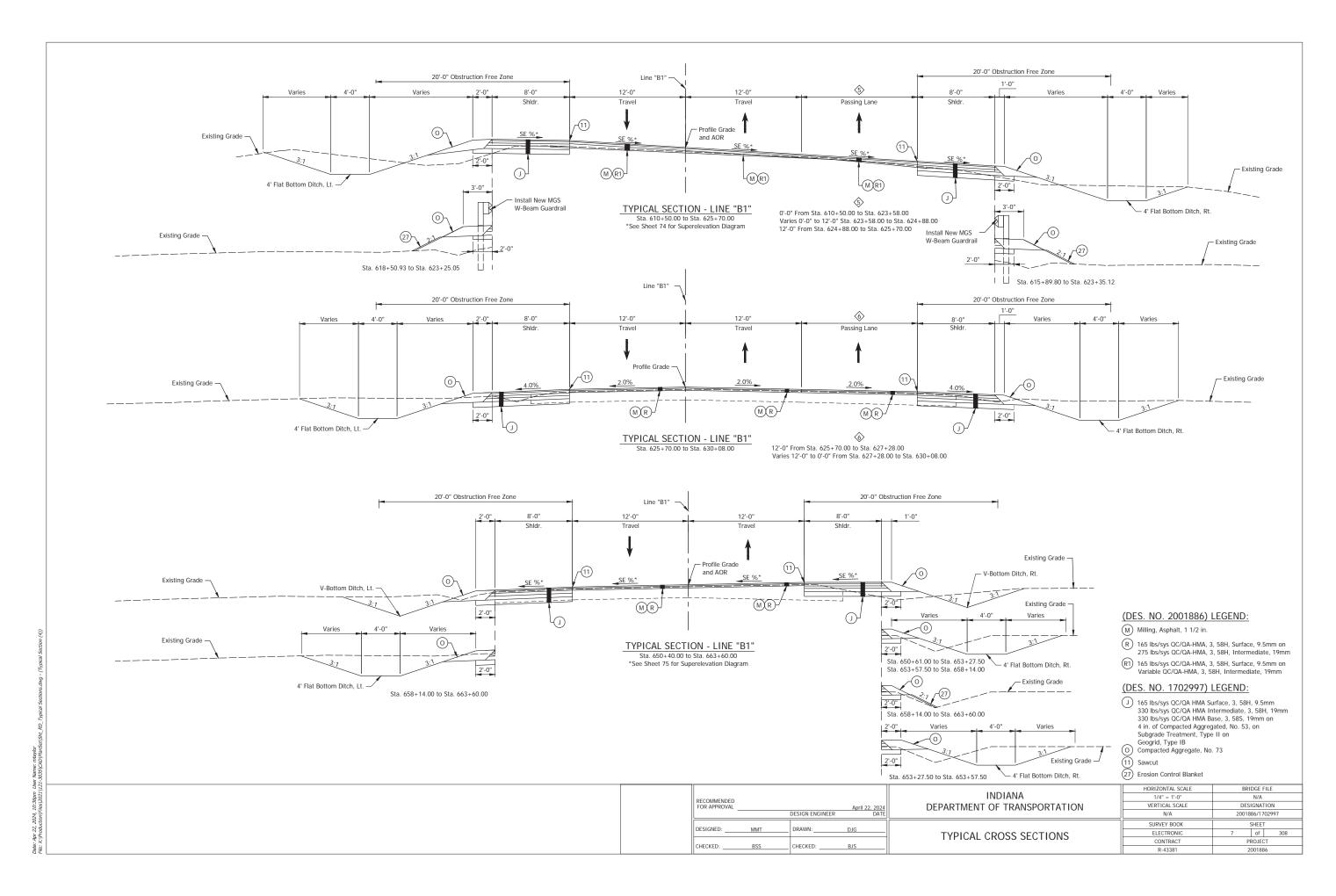
Date: Apr 22, 2024, 7:38pm User Name: mtaylor

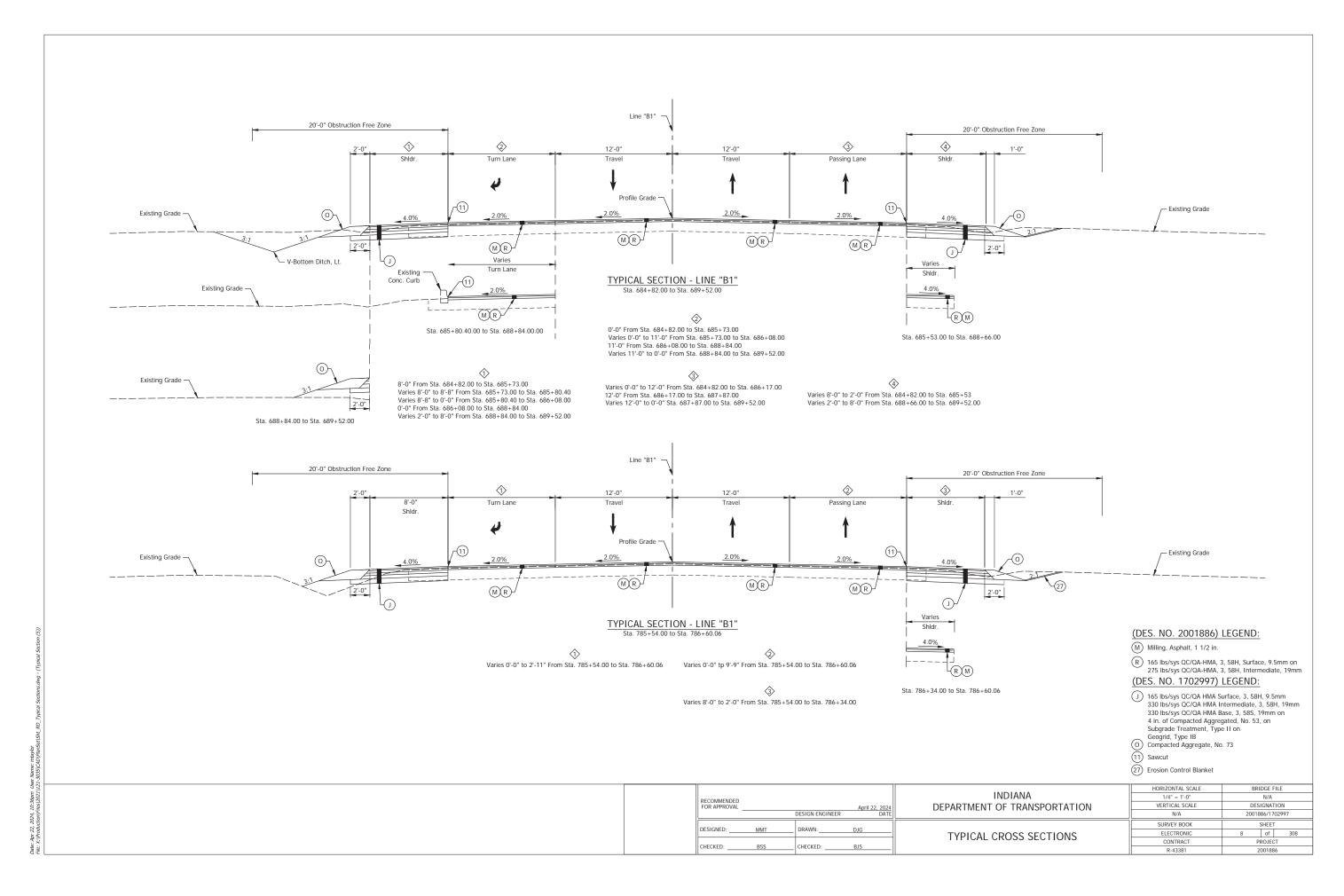
Des. No. 1702997 & 2001886 Appendix B: Graphics B47

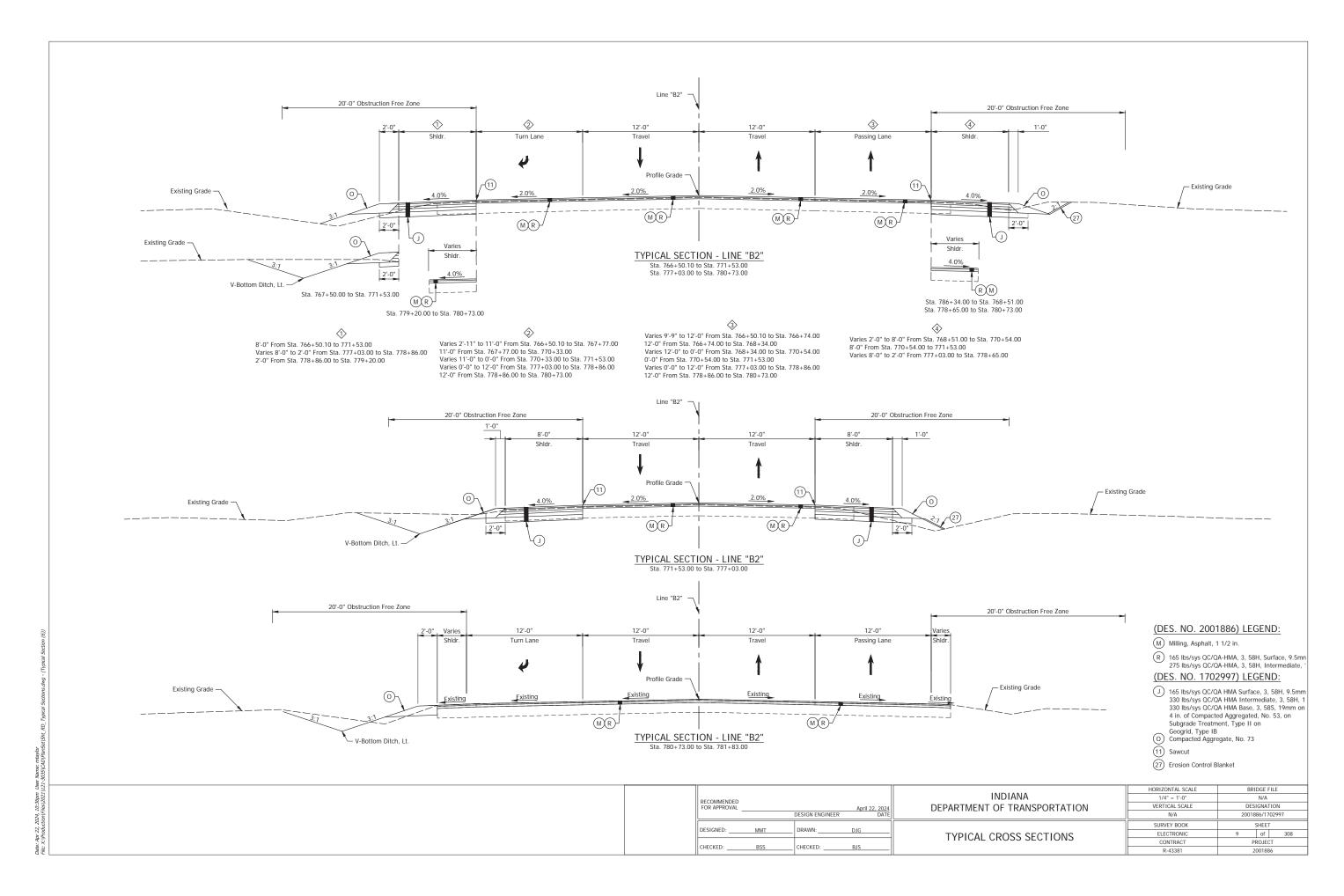


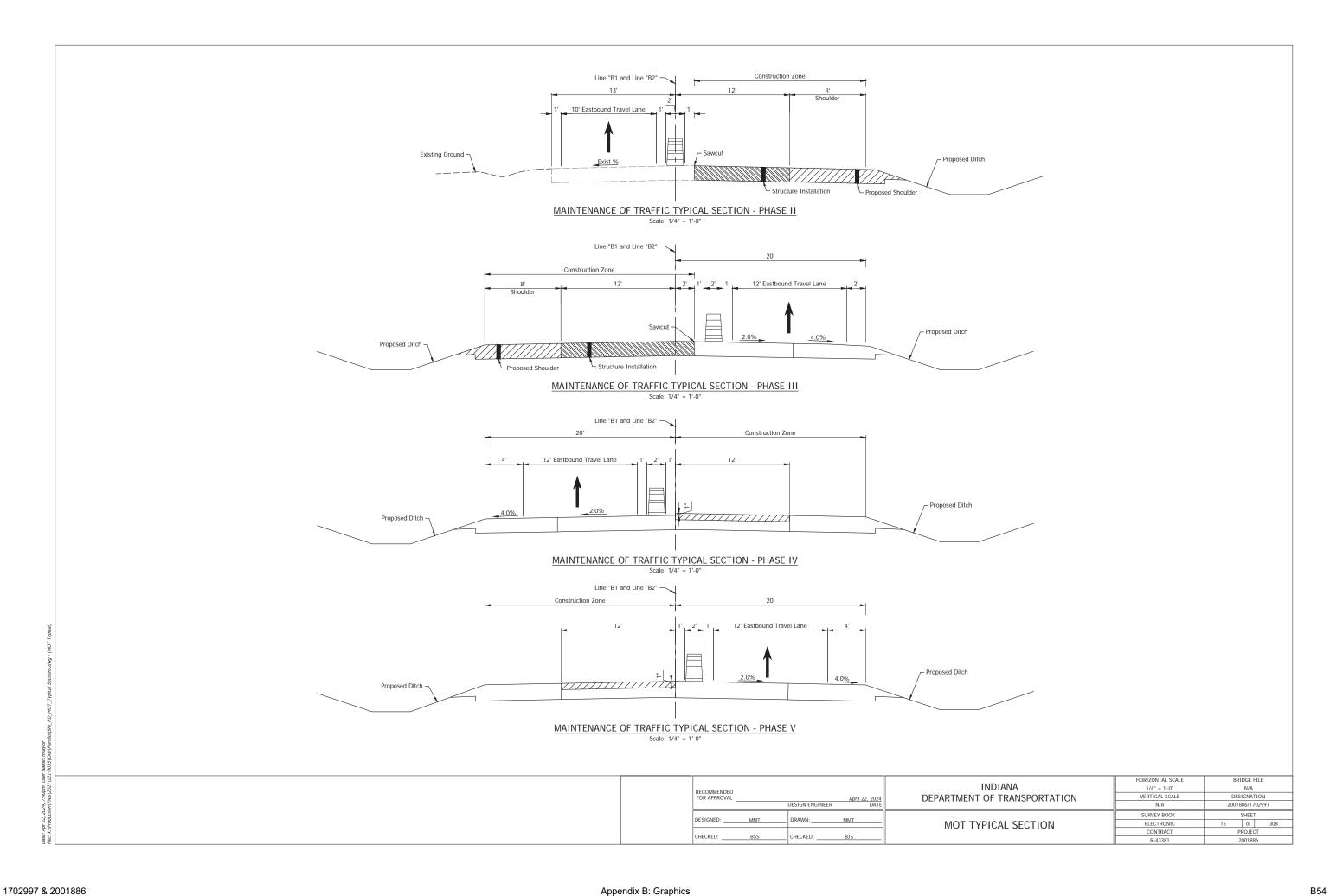


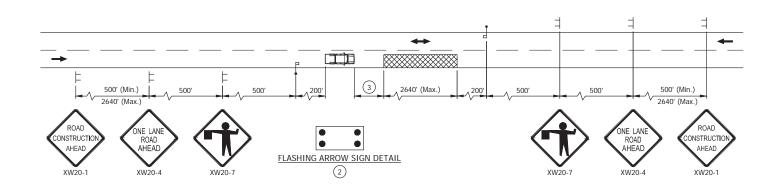












MAINTENANCE OF TRAFFIC - FLAGGER DETAIL "PHASE VI"

Not to Scale

NOTES:

- 1. Additional signs may be required for the moving operations so as to maintain proper spacing.
- 2) Flashing arrow sign shall be in caution mode.
- (3) Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.

LEGEND:

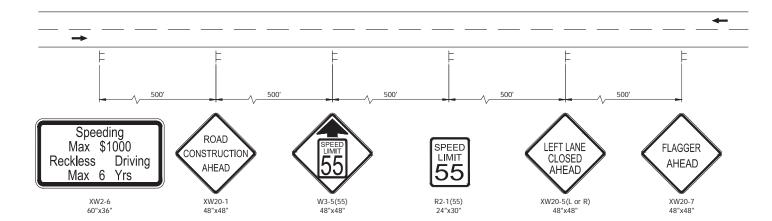
► □ Flagger

Work Area

Construction Sign and Supports

Direction of Traffic

Shadow vehicle with truck-mounted attenuator type B flashing arrow sign, and strobe lights.



MAINTENANCE OF TRAFFIC PHASING

SIGN NO.

XW20-1

XW20-4

XW20-7

- Install construction signs as shown on plans and as directed by the engineer. Access to commercial properties shall be maintained at all times. At least one
- driveway, or one-half width of driveway must be maintained and usable at all times. Commercial property owners shall be notified at least seven calendar days prior to drive reconstruction.
- 3. Emergency vehicles and postal access to local residences shall be maintained at all times except drive reconstruction. Property owners shall be notified in writing at
- least two days prior to beginning driveway work.

 4. All materials, procedures, signs, markings, and miscellaneous items shall conform to
- the requirements of the INDOT standard specifications and the Indiana Manual on Uniform Traffic Control Devices, and revisions there to.
- Contractor shall notify local fire department, police, ambulance services, postal service and schools
- of the work schedule and temporary traffic layouts.

 6. The construction zone speed limit for U.S. 6 is 55 mph.

Construction activities include full depth and partial depth patching and milling and resurfacing of existing mainline pavement, shoulder widening, approach work, guardrail replacement, culvert replacement and new ditches.

FLAGGING OPERATION CONSTRUCTION SIGN SCHEDULE

DESCRIPTION

"ROAD CONSTRUCTION AHEAD" Sign

"ONE LANE ROAD AHEAD" Sign

"FLAGGER" Sign

SIZE (IN)

48 x 48

48 x 48

48 x 48

"A" SIGNS

QUANTITY

6

B55

The first phase of construction will require a full closure of U.S. 6 and the last phase will require a flagging operation. Advance signage is required for both

Phase I – Construction of CLV-100457 and the Removal of CLV-100155

The construction of CLV-1000457 and the removal of CLV-100155 crossing U.S. 6 to be replaced as shown in plans and existing roadway repaired. A full detour route is provided for eastbound and westbound traffic. See Sheet 19 for details.

Phase II - Construction of the Culverts and Shoulders for the Eastbound Lane

Sawcut, remove and replace U.S. 6 existing shoulders with 8 ft shoulders, remove and replace guardrail, remove and replace culverts and grade ditches for the eastbound lane as shown on plans. This will all occur under a one lane detour for the westbound traffic. A wide load detour will be provided for eastbound traffic. See Sheets 17, 20, 22 and 23 for details.

Phase III- Construction of the Culverts and Shoulders for the Westbound Lane

Sawcut, remove and replace U.S. 6 existing shoulders with 8 ft shoulders, remove and replace guardrail, remove and replace culverts and grade ditches for the westbound lane as shown on plans. This will all occur under a one lane detour for the westbound traffic. See Sheets 17, 21, 24 and 25 for details.

$\underline{ \hbox{Phase IV- Mill and Resurface the Intermediate Layer for the Eastbound Lanes} }$

Perform partial depth and full depth patching and mill and resurface the mainline pavement up to the intermediate layer for the eastbound lane as shown on plans. This will all occur under a one lane detour for the westbound traffic. See Sheets 21, 26 and 27 for details.

Phase V- Mill and Resurface the Intermediate Layer for the Westbound Lanes
Perform partial depth and full depth patching and mill and resurface the mainline pavement up to the intermediate layer for the westbound lane as shown on plans. This will all occur under a one lane detour for the westbound traffic. See Sheets 21, 28 and 29 for details.

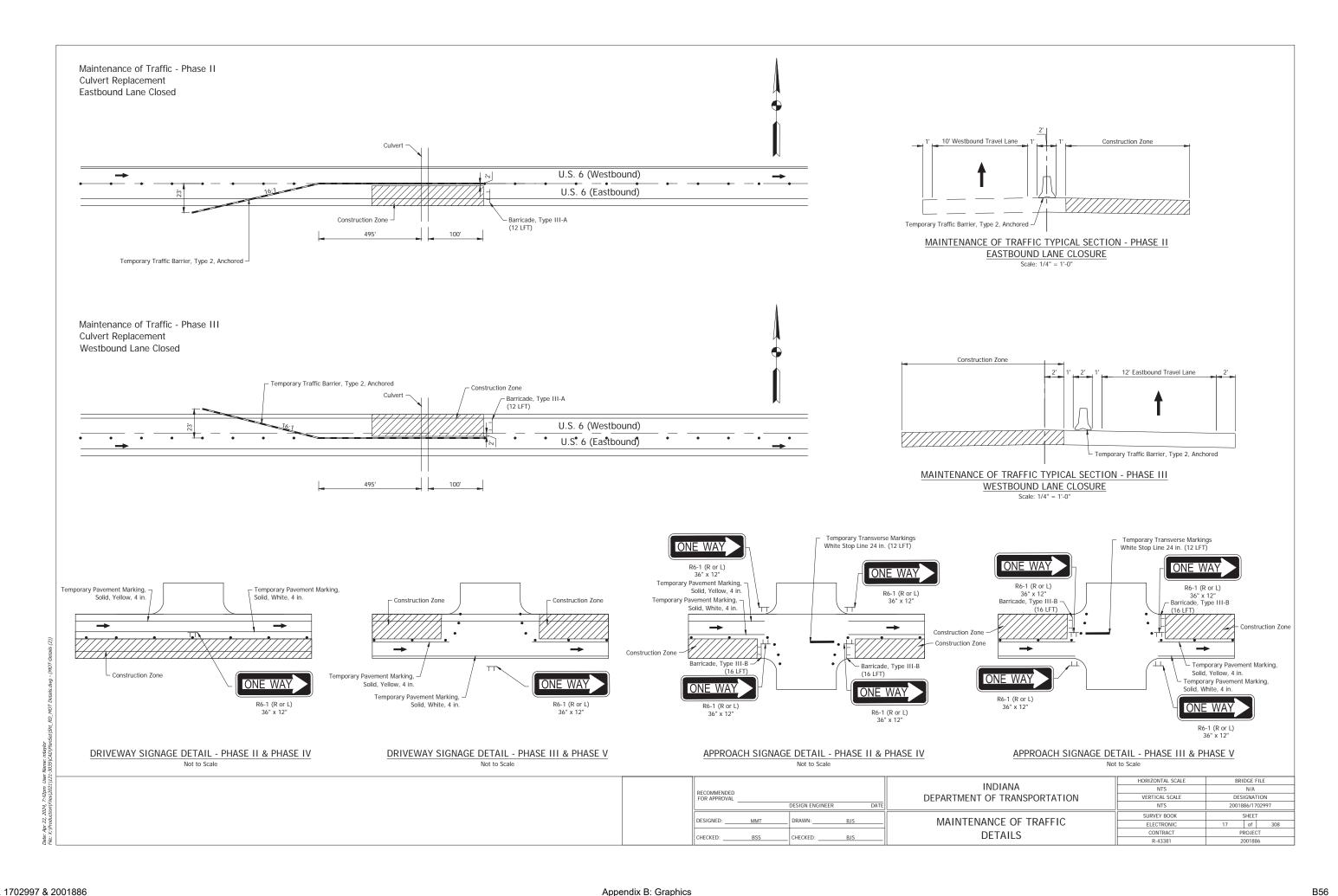
Phase VI- Mill and Resurface the Surface Layer for Eastbound and Westbound Lanes

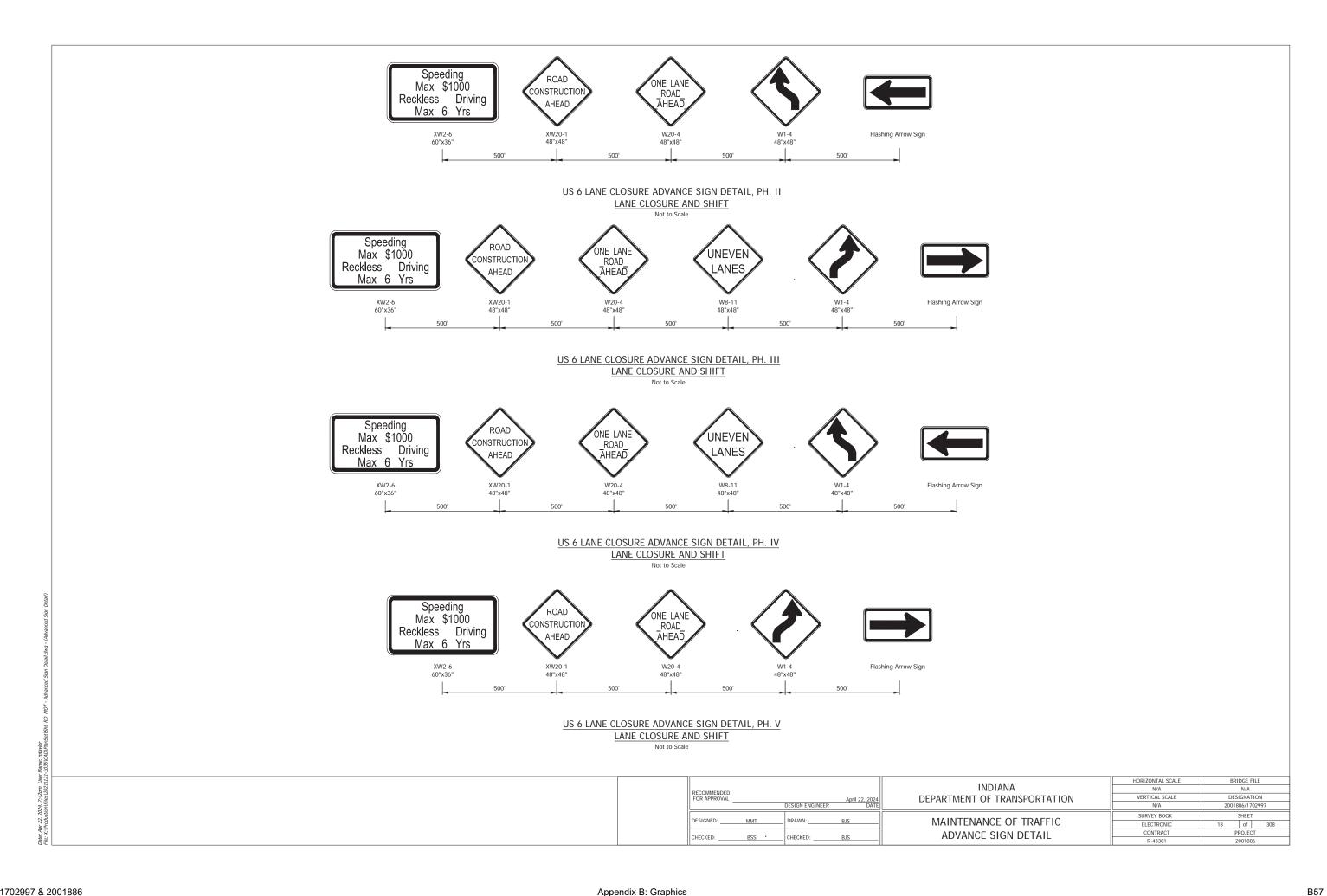
Resurface the surface layer for the mainline and shoulder for the eastbound and westbound lane as shown on plans. This will all occur under a mobile flagging operation. Beginning approximately 1700 ft. away from the construction zone, advanced signage will be used to alert traffic of the operation ahead. Approximately 200 ft. away from the construction zone, a flagger will direct traffic. Following the flagger will be a shadow vehicle protecting the operation. Following the construction area, an additional flagger will be direct traffic in the opposite direction. The flaggers will coordinate throughout the operation to ensure collisions will not take place. Following the construction area and before the second flagger. See Sheet 16 for details.

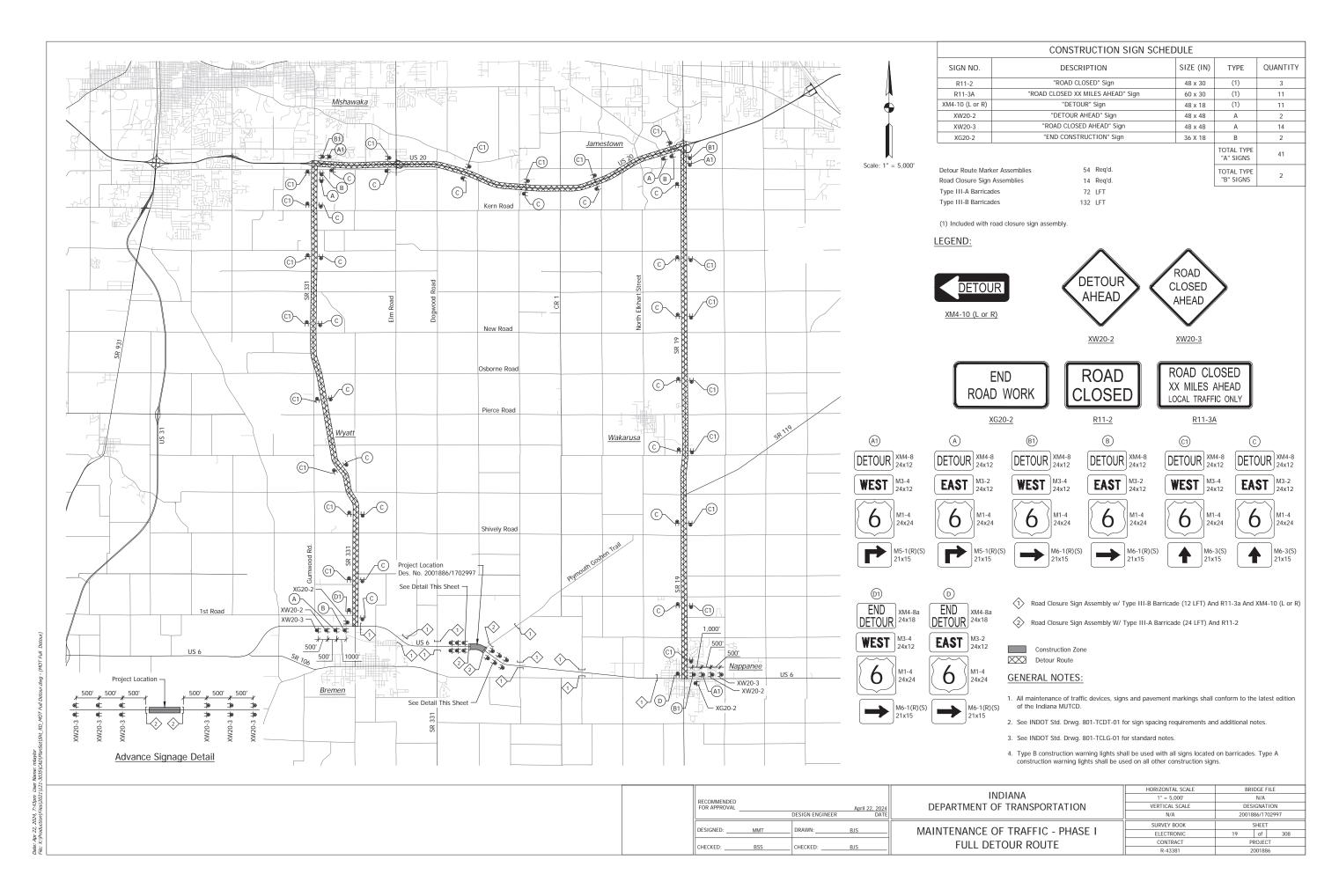
ADVANCE SIGNAGE DETAIL - PHASE VI

RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE NTS VERTICAL SCALE NTS	BRIDGE FILE N/A DESIGNATION 2001886/1702997
DESIGNED: DRAWN: BJS	MAINTENANCE OF TRAFFIC	SURVEY BOOK ELECTRONIC	SHEET 16 of 308
CHECKED: BSS CHECKED: BJS	DETAILS	CONTRACT R-43381	PROJECT 2001886

Des. No. 1702997 & 2001886 Appendix B: Graphics







Des. No. 1702997 & 2001886 Appendix B: Graphics B58

