	Martin	Route	SR 450	Des. No.	1700155
CA	TEGORICAL EXCI	LUSION / EN	nvironmental Docume VIRONMENTA DJECT INFORMATION		ENT FORM
Road	l No./County:	State Route (SR)	450 / Martin County		
Desig	gnation Number:	1700155			
Proj	ect Description/Termini:	Opossum Creek feet northeast	nent project on SR 45 c). The project limits all of the center of the e center of the bridge,	ong SR 450 extender bridge and app	d approximately 1,16 roximately 1,110 fe
	ompleting this form, I conclude tapprove if Level 4 CE):	hat this project qualif	ies for the following type	of Categorical Exclu	sion (FHWA must
	Categorical Exclusion, Level 2 - table 1, CE Lev				
✓	Categorical Exclusion, Level 3 - table 1, CE Lev				
	Categorical Exclusion, Level 4 - table 1, CE Lev				rical Exclusion Manu
	Environmental Assessm is necessary to determine				
Note: Fo			•		
Note: For located to	or documents prepared by or for Envo	ironmental Services Div	•		
Appro	or documents prepared by or for Envolvement or so release for public involvement or so	ironmental Services Divign for approval.	vision, it is not necessary for		in which the project is
Appro	valESM Signature	ironmental Services Divign for approval. Date	ES Signature Date	the ESM of the district	Date
Appro Releas N/A	valFH e for Public Involvement	ironmental Services Divign for approval. Date	ES Signature Date	the ESM of the district	Date
Appro Releas N/A ESM	val	ironmental Services Divign for approval. Date WA Signature	ES Signature Date ES Initials	the ESM of the district	Date
Appro Releas N/A ESM Certifi	r documents prepared by or for Envolvement or so release for public involvement or so	ironmental Services Divigin for approval. Date WA Signature Office of Public	ES Signature Date ES Initials	the ESM of the district 10/15 Date	Date
Appro Releas N/A ESM Certifi Note: D	r documents prepared by or for Envolvement or so release for public involvement or so	ironmental Services Divigin for approval. Date WA Signature Office of Public	ES Signature Date ES Initials c Involvement ent and all other environr	the ESM of the district 10/15 Date	Date
Releas N/A ESM Certifi Note: D INDOTENV. Re	TESD/District	Date Office of Public involvem	ES Signature Date ES Initials c Involvement lent and all other environr Date	the ESM of the district 10/15 Date Date nental requirements	Date

County	Martin	Route	SR 450	Des. No.	1700155
		<u>Part I - PUE</u>	BLIC INVOL	<u>VEMENT</u>	
		level of public involvemen			portunities throughout the project sed action.
If N	lo, then: Opportunity for a Public			✓	s No ✓ atic Agreement between INDOT,
FHWA, SHPO	D, and the ACHP. c public involvement a		etters to affected p	roperty owners and	residents (i.e. notice of entry),
Remarks:	2019 and Novembe surveying and field a Because the project required to be publis The project will m Transportation (INDO opportunity to subm publication continge)	r 5, 2019 notifying then ctivities may be seen in to qualifies for the Minor Probled for Section 106. eet the minimum requestry Public Involvement Mit comment and/or requestry.	n about the project he area (Appendix of ojects Programmat direments described anual which requires to a public hearing, this document for	ect and that individues G, pages G-1 to G-4 of the current res the project spon Therefore, a legal n	project area on August 7, uals responsible for land b. A), a legal notice was not Indiana Department of usor to offer the public an otice will appear in a local t. This document will be
	ntroversy on Environ			atural resource	Yes No
Remarks:	Currently, there is resources.	no substantial public co	ntroversy concerni	ng impacts to the	community or to natural
Sponsor of	II - General Pr the Project: e of the Facility:	roject Identificat	tion, Descri	otion, and D	esign Information strict: Vincennes
	ource (<i>mark all that app</i>		tate 🗸 Local [Other*	
*If other is	selected, please identii	fy the funding source: _			
This is p Project r	age 2 of 27 name:	SR 450 ov	er Flat Creek Bridge F	Replacement	Date: October 14, 2020

			IIIUIaIIa	Departine	iii oi manspo	Jitalion		
County	Martii	n	Route	·	SR 450	Des. No.		1700155
PURPOSE AI	ND NEED	:						
scribe the trans	nortation n	rohlem the	at the project	will address	The solution to the	traffic problems	should NO	T he discussed
his section. (R						trame problem s	inoula ivo	be alseassea
					ting structure, ider	ntified as Structi	ure Numbe	r 450-51-06447
			-		netric deficiencies.			
-	_		•		rating of 5 out of a		_	
					bearing area. Both			
_			_		_		_	
_				-	ucture was given a		_	-
					orcing on Beam 3			
					t abutment, and m			
· · · · · · · · · · · · · · · · · · ·	_		-		all beaver dam on t		_	
		_		_	nel towards the e			
				-	Per the INDOT Hyd		-	
•	oding at thi	s location	because the	existing struc	ture is hydraulical	ly inadequate (<i>F</i>	Appendix I,	pages I-17 to I
19).								
_	_				bridge, the roadw	-		
		_		-	e curves cause sigh			_
					ackwater from Ind			ork White Rive
which substant	ially affect	s the publi	ic traveling th	rough the pr	oject area (Append	dix I, pages I-9 t	o I-16).	
_								
				_	of the bridge to a	a 7 ("good cond	ition") or l	nigher, alleviate
flooding within	the projec	t area, an	d improve ro	adway geome	etric deficiencies.			
PROJECT DE	ESCRIPTI	ON (PRE	FERRED A	LTERNATI	/E):			
County: Mar	tin			Municipality:	Not applicable	(N/A)		
_imits of Propos	sed Work:	bridge a	nd approxim	_	tend approximatel et southeast of the	-		
				1000 (0110 1111				
otal Work Len	gth:	0.43	_ Mile(s)		Total Work Area:	3.90	_ Acre(s)	
							Yes ¹	No
s an Interchan	ne Modifica	tion Study	/ Interchange	Lustification	Study (IMS/IJS) re	auired?	162	
yes, when did						quilou.	Date:	
, ,		9			p ,			
an IMS or IJS is	s required;	a copy of t	he approved	CE/EA docur	nent must be subm	itted to the FHV	VA with a re	equest for final
roval of the IM	S/IJS.							
	1.1. 1.		· C· · · · · · · · · · · · · · · · · ·		1.1.21			r a.
					detail the scope of uss any major issu			
rove safety or i					uss arry major issu	es for the projec	and now	the project will
	.caaa, ac							
The Federal H	ighway Ad	lministrati	on (FHWA)	and the IND	OT Vincennes Dis	trict propose t	o proceed	with a bridge
					aka Opossum Cree		-	_
-	-		_		, the project is wit		-	
			•		nship 4 North, Rar		-	
		/	/	J - 5, - 5	į. 101 31. y 11 0 .	J. 1 223, 2.11		
								
This is page 3				CD 4E0	at Craal, Duld D. J	2.00m.a.=+	Data	Oot-b44 3:
Project name) <u>:</u>			SK 45U over FI	at Creek Bridge Repl	acement	Date:	October 14, 20

County	Martin	Route	SR 450	Des. No.	1700155
		_		_	·

project limits along SR 450 extend approximately 1,160 feet northeast of the center of the bridge and approximately 1,110 feet southeast of the center of the bridge, for a total length of approximately 2,270 feet (0.43 mile) (Appendix B, pages B-1 and B-2). The total length is needed to correct sight distance issues. The project termini are logical because the northern terminus terminates at the north approach work for the bridge and roadway and the southern terminus terminates at the south approach work for the bridge and roadway. The project also has independent utility because construction of this project is not dependent on any other projects in the area.

Existing Conditions: Within the project area, SR 450 is functionally classified as a Rural Major Collector and consists of two 10-foot wide travel lanes (one northbound and one southbound) without paved shoulders. The apparent existing right-of-way width is edge of pavement. The existing structure, identified as Structure Number 450-51-06447 B, is a 30-foot long prestressed box beam bridge with a curb-to-curb width of 28.3 feet and an outside-to-outside width of 30.3 feet. The structure carries SR 450 over Flat Creek. The existing structure is experiencing deterioration; the substructure has heavy scaling at corners of both abutments causing minor loss of bearing area, both abutments have longitudinal and vertical cracking with minor to moderate efflorescence, and the superstructure has exposed reinforcing on Beam 3 over the west abutment, small diameter spalls with exposed reinforcing on Beams 7 and 8 near the east abutment, and minor spalls on the outside of fascia beams. The bridge is on the tangent of a horizontal curve. South of the bridge, the roadway transitions to another horizontal curve, and two vertical curves are along both ends of the bridge. The geometrics of the bridge and roadway create sight distance issues. SR 450 intersects with County Road (CR) 108 (also known as Fred Sims Road) approximately 0.2 mile north of the bridge. The bridge and roadway are prone to flooding from Opossum Creek which receives backwater from Indian Creek and the East Fork White River which substantially affects the public traveling through the project area. Guardrail is present; however, it does not meet current INDOT design standards. Adjacent land use is primarily agricultural and wooded (Appendix B, pages B-3 to B-15).

Preferred Alternative: The project will replace the existing bridge. The proposed bridge, identified as 450-51-10337, will be a 126-foot long 3-span continuous composite prestressed concrete I-beam bridge with a curb-to-curb width of 30 feet and an outside-to-outside width of 33 feet. The proposed structure and roadway profile will be raised to an elevation just above the 25-year storm event. In order to be above the 25-year storm event level, the new structure and roadway profile will be raised approximately seven feet (to an approximate elevation of 481 feet). Shoulders and embankments will require minimal widening to transition into the new, wider bridge. Road work will include improving by reducing the existing vertical curves immediately north and south of the bridge. The improved roadway alignment will tie into the existing SR 450 near CR 108. The project will not involve any work on CR 108. The elevation difference at this intersection is approximately 0.25 feet. The increased clear roadway width will meet minimum INDOT standards and include two 11-foot wide travel lanes with two 4.33-foot wide shoulders. The project will also replace the existing substandard guardrail. Riprap drainage turnouts will be constructed on the northeast and northwest sides of the bridge. Class 1 riprap will be placed on the spill slopes underneath the bridge at both end bents. Riprap will also be placed along the east side of the roadway on the fill slopes approximately 820 feet south of the stream. The project will require approximately 5.50 acres of permanent right-of-way and 0.02 acre of temporary right-of-way. Proposed right-of-way width will be approximately 75 to 80 feet from the roadway centerline.

The maximum depth of excavation is approximately up to 5 feet below ground surface (Appendix B, pages B-16 to B-23). Please note the approved Red Flag Investigation stated that no excavation would be needed; however, per subsequent coordination with the project designer, minor excavation will be needed for waterway work and regrading ditches. There are no hazardous material concerns within or near the project area.

No residences or businesses will be relocated as part of the project. The maintenance of traffic (MOT) will involve a full closure of SR 450 to through traffic and use US 50 for an official state detour. Refer to the *Maintenance of Traffic (MOT) During Construction* section of this document for further details on the proposed MOT. The estimated project cost is \$1,923,871 (fiscal year [FY] 2022) with construction anticipated to take place during Spring of 2022.

This is page 4 of 27			
Project name:	SR 450 over Flat Creek Bridge Replacement	Date:	October 14, 2020

County Martin	Route	SR 450	Des. No.	1700155
The preferred alternative sat a 7 ("good condition") or deficiencies.			_	_
OTHER ALTERNATIVES	CONSIDERED:			
escribe all discarded alternativ as not selected.	es, including the Do-Not	hing Alternative and an	explanation of why e	each discarded alternative
Do Nothing Alternative: This would not involve any immed structure, the structure would dismissed because it would bridge to a 7 ("good condition deficiencies."	diate cost or result in any old continue to deterior not address the purpos	y environmental impact: rate resulting in potenti se and need of the proj	s. If no improvement al closure of the br ect via increasing a	ts are made to the existing ridge. This alternative was all condition ratings of the
Rehabilitation: This alternat less environmental impacts (beyond the point where pate substructure would not have rehabilitation would be sign consideration since it would	(e.g. wetlands, wooded) ching would improve the enough service life to judificantly closer to the	 However, the most sign structural condition. In the string stify the rehabilitation. 	gnificant damage is f the superstructure If the roadway was	to the substructure and is was replaced, the subpar also raised, the cost of the
No other alternatives were c	onsidered.			
The Do Nothing Alternative It would not correct existing c It would not correct existing s It would not correct the existin It would not correct existing d It would result in serious impa Other (Describe)	apacity deficiencies; afety hazards; ng roadway geometric de eteriorated conditions ar acts to the motoring publ	eficiencies; nd maintenance problem	s; or	//////////////////////////////////////
ROADWAY CHARACTER	(;			
SR 450 Functional Classification: Current ADT: Design Hour Volume (DHV): Designed Speed (mph):	30.77 Truck Pe	(2022) Design Yea ercentage (%) 20.0 peed (mph): 50)3	VPD (2042)
	Eviatina	Proposed		
Number of Lanes:	Existing 2	Proposed 2		
Type of Lanes:	10-foot wide travel lanes	11-foo	ot wide travel lanes	
Pavement Width:	20 ft.		22 ft.	
Shoulder Width:	0 ft.		.66 ft.	
Median Width:	0 ft.		0 ft.	
Sidewalk Width:	0 ft.		0 ft.	
This is page 5 of 27 Project name:		150 over Flat Creek Bridge		Date: October 14, 2020

County _	Martin	F	Route	SR 450		Des.	No.	1700	0155
Setting Topog			Urban Level		Suburban Rolling		✓	Rural Hilly	
DESIGN CR	RITERIA FOR E	RIDGES:							
Structure/NE	BI Number(s): -	450-51-06	447 B	Sufficiency Ra	ating: 8! ——		2020) (A	e Inspection R ppendix I, pag ng, Source of I	
		Existing		Proposed					
Bridge Type	:	Prestressed bo	ox beam bridge	prestressed	ous compos d concrete I- bridge				
Number of S	Spans:	1		3					
Weight Rest		N/A	ton	N/A	ton				
Height Restr		N/A	ft.	N/A	ft.				
Curb to Curb	o vviatn: Outside Width:	28.3 30.3	ft. ft.	30	ft. ft.				
Shoulder Wi		0	ft.	0	ft.				
Length of Ch	nannel Work:	N/A		135	ft.				
Remarks:	bridge with a cu SR 450 over Fla 10337, will be a to-curb width of profile will be constructed on underneath the fill slopes appro- Replacing the s approximately	idge, identified urb-to-curb widt treek. The proa 126-foot long of 30 feet and raised to an election to the northeast are bridge at both eximately 820 feet uructure, install 135 linear feet of project area and project area.	th of 28.3 feet and pject will replace 3-span continuan outside-to-cevation just abound northwest send bents. Rippet south of the ing riprap drain (0.02 acre) of Flace located within	nd an outside e the existing ous compositoutside width ove the 25-yeides of the brap will also be stream (Applaage turnouts at Creek below the project	to-outside bridge. The eprestres of 33 feeter ear storm idge. Class to placed a tendix B, pate to the ordi	e width contents with the property of the prop	of 30.3 for seed bridge of the seed bridge of the seed	feet. The structure is the structure is deam bridged of structure is drainage turn placed on the coat of the roat	ed as 450-51- e with a curb- and roadway nouts will be ne spill slopes adway on the impact up to VM). MPs), located
MAINTENA	ANCE OF TRA	FFIC (MOT) D	URING CONS	TRUCTION	l :				
Is a tempora Will the proje Provision Provision	ry bridge propose ry roadway propo ect involve the us s will be made fo s will be made to s will be made to	osed? e of a detour or r access by loca r through-traffic	al traffic and so li dependent busi	posted. inesses.		marks)		Yes ✓	No
This is pag			SR 450 ove	r Flat Creek Bri	idge Replace	ement		Date: <u>0</u>	october 14, 2020

		Indiana	Departmer	nt of Ira	nsport	ation			
County	Martin	Rout	te	SR 450		Des. No.	-	1700155	
		tantially change the rsy associated with t		-		action?			√
Remarks:	result in an add	involve a full closure ditional approximate perties will be mainta	ely 25.1 miles of	travel. Clos	ure of SR	450 will last a	oproxim		
	(<u>www.fairsand</u> scheduled wit	no businesses w Ifestivals.net), acces hin a 10 mile radiu nlikely to be impacte	ssed on Novem s of zip code 4	7581 (proje	D19 by Fect area).	RQAW, no fai Any future fa	r or fes airs/festi	tival is c	may be
		Il pose a temporary i vever, no significant		_					- :
ESTIMATI	ED PROJECT	COST AND SCHE	DULE:						
Engineering	g: \$ 167,000	(2018) Righ	nt-of-Way: \$	22,000	(2020)	Construction	: \$ 1	,734,871	(2022)
	Start Date of Co	nstruction: Sprir	ng of 2022	•	,			•	
Date projec	t incorporated in	to STIP July 2, 20)19 (Appendix H	, page H-2)					
Is the proje If yes,	ct in an MPO Are	Yes ea?	No ✓						
Name of N	MPO N/A								
Location o	f Project in TIP	The project area is as such, it is not lis							
Date of inc	corporation by re	ference into the STIF	P N/A						_
This is pa	age 7 of 27 ame:		SR 450 over Flat	: Creek Bridg	e Replace	ment	Date:	Octobe	r 14, 2020

County	Martin	Route	SR 450	Des. No	1700155	
RIGHT OF V	VAY:					

Amount (acres)							
Land Use Impacts Permanent Temporary							
Residential	0.30	0					
Commercial	0	0					
Agricultural	3.45	0.015					
Forest	1.45	0.005					
Wetlands	0.30	0					
Other	Other 0 0						
TOTAL	5.50	0.02					

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 or reacquisition, either known or suspected, and there impacts on the environmental analysis should be discussed.

Remarks:

The current existing right-of-way width along SR 450 is edge of pavement. The project will require approximately 5.50 acres of permanent right-of-way along both sides of SR 450. Of this, approximately 0.30 acre consists of residential land, 3.45 acres consists of agricultural land, 1.45 acres consists of forested land, and 0.30 acre consists of wetlands (Wetlands 1 and 2). Proposed right-of-way width will be approximately 75 to 80 feet from the roadway centerline (Appendix B, pages B-3 and B-16 to B-23). The project will also require approximately 0.02 acre of temporary right-of-way for drive construction. The temporary right-of-way will consist of 0.015 acre of agricultural land and 0.005 acre of forested land (Appendix B, page B-3 and B-16 to B-23).

If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division and the INDOT District Environmental Section will be contacted immediately.

<u>Part III – Identification and Evaluation of Impacts of the Proposed</u> <u>Action</u>

SECTION A – ECOLOGICAL RESOURCES						
	Presence)	lm	pact	ts	
		=	Yes		No	
Streams, Rivers, Watercourses & Jurisdictional Ditches	✓		✓			
Federal Wild and Scenic Rivers						
State Natural, Scenic or Recreational Rivers						
Nationwide Rivers Inventory (NRI) listed						
Outstanding Rivers List for Indiana						
Navigable Waterways						
Remarks: Per a deskton review field visits conducted on August 28, 201	9 and Ser	tember 3	2019	hv IN	JDOT :	n aerial

Remarks

Per a desktop review, field visits conducted on August 28, 2019 and September 3, 2019 by INDOT, an aerial photograph of the project area (Appendix B, page B-3), USGS topographic map (Appendix B, page B-2), and the water resources map in the Red Flag Investigation (RFI) report (Appendix E, page E-7), 11 river/stream segments are located within 0.5 mile of the project area. The nearest stream segment, Flat Creek (aka Opossum Creek), is within the project area.

opossum ereeky, is un	tim the project area.		
This is page 8 of 27 Project name:	SR 450 over Flat Creek Bridge Replacement	Date:	October 14, 2020
	Form Version: June 2013 Attachment 2		

County	Martin	Route	SR 450	Des. No	1700155
	Permitting Office on S	Report was completed be September 19, 2019 (Aprile of within the project ding jurisdiction.	ppendix F, pages F-1 t	o F-31). It was determ	ined that one stream,
	RSD 3) were identified sides of SR 450 and of Flat Creek, Wetland characteristics and ar	nd as described in the lad within the project are convey stormwater drail 1, and outside the re not captured stream vaters of the United Sta	a (Appendix B, page B hinage from the exist project area. The s. Therefore, the road	8-3). The ditches are aling roadway and surroadside ditches did	ong the east and west ounding landscape to not exhibit OHWM
	approximately 7.7 sq OHWM characteristic the East Fork of Whit is likely to be conside Wild and Scenic River	southeast direction und uare miles (Appendix F cs of approximately 6.8 e River, a Traditionally red jurisdictional (i.e. a or on the National Rive er or as an Outstanding	F, page F-32). The stree feet in width and 0.8 Navigable Waterway Waters of the Uniteders Frs Inventory. Flat Cree	eam exhibited a defin I feet in depth, and ev (TNW). Based on thes I States). Flat Creek is	ed bed and bank, had ventually empties into se criteria, this stream not listed as a Federal
	permanently impact of stream impacts will required. A USACE S	am channel includes re up to approximately 13 not exceed the 300 I Section 404 Permit an uality Certification will	5 linear feet (0.02 acr inear feet mitigation d Indiana Departme	e) of Flat Creek below threshold, stream n nt of Environmental	the OHWM. Because nitigation will not be
	Early coordination letters were sent to the USACE, IDNR Division of Fish and Wildlife, USFWS, and November 12, 2019 (Appendix C, pages C-1 to C-4). The USACE did not respond to the early colletter. An automated response was received from IDEM on November 12, 2019; however, the respondence contain project specific comments (Appendix C, pages C-5 to C-12). The project does not qualify for the Interim Policy since it will impact more than 0.10 acre of were 0.50 acre of forested land. The USFWS responded to the early coordination letter on November 18, stated the USFWS has no objections to the project as currently proposed (Appendix C, pages C-24. The IDNR Division of Fish and Wildlife responded to the early coordination letter on December 12, recommendations to avoid or minimize impacts to streams (Appendix C, pages C-20. Recommendations generally include implementing erosion and sediment control measures and stream stabilization measures, limiting in-channel disturbance, not working within the stream channel from through June 30, and proper use of riprap. All applicable agency recommendations are included incommental Commitments section of this Categorical Exclusion (CE) document.				he early coordination
					powember 18, 2019 and pages C-24 and C-25). cember 12, 2019 with ages C-20 to C-23). cures and stream bank in channel from April 1
Other Surfa Reservoirs Lakes Farm Ponda Detention B Storm Wate Other:	S	s	Presen	ce Impac Yes	No V

This is page 9 of 27 Project name:

County _	Martin	Route	SR 450	Des. No	1700155
Remarks:	photograph of the pi the water resources	roject area (Appendix	B, page B-3), USGS to (Appendix E, page E-	and September 3, 2019 pographic map (Appen -7), one lake is mapped are not expected.	dix B, page B-2), and
	Permitting Office on	September 19, 2019	(Appendix F, pages	proved by the INDOT Ed F-1 to F-31). It was de JSACE makes all deter	termined that other
	November 12, 2019 letter. An automated	(Appendix C, pages C-	1 to C-4). The USACE d from IDEM on Nov	n of Fish and Wildlife, Led to the did not respond to the mber 12, 2019; however C-12).	e early coordination
	objections to the pro and Wildlife respond	ject as currently propoled to the early coordi	osed (Appendix C, pag nation letter on Dece	nber 18, 2019 and state es C-24 and C-25). The mber 12, 2019; howev ppendix C, pages C-20	IDNR Division of Fish er, the letter did not
			Prese		
Wetlands			✓	Yes	No
Total wetla	and area: > 0.90	acre(s) Tota	I wetland area impact	ed: 0.30 acr	e(s)
(If a determ	ination has not been ma	ade for non-isolated/isc	olated wetlands, fill in t	he total wetland area in	npacted above.)
Wetland N	lo. Classification	Total Size (Acres)	Impacted Acres	Comr	nents
1	PEM	0.12	Up to 0.12	This wetland is in the state project area and is jurisdictional (i.e. a V States) due to its connectributary to the East F	likely to be considered Vaters of the United ectivity to Flat Creek, a Fork of White River, a
2	PFO	> 0.78	Up to 0.18	This wetland is in the state project area and is jurisdictional (i.e. a V States) due to its connectributary to the East F	southeast quadrant of likely to be considered Waters of the United ectivity to Flat Creek, a Fork of White River, a
			Ocumentation	ES Ap	proval Dates
Wetland De	lineation lated Waters Determina	ation	✓ ✓		ember 19, 2019 ember 19, 2019
would resu	ents that will not resul Ilt in (Mark all that appl ntial adverse impacts to	y and explain):	-	ole because such avoid	dance
This is pa	age 10 of 27 ame:	SR 450 c	over Flat Creek Bridge Re	eplacement Da'	te: October 14, 202

		Indiana Depar	tment of Trans	portation	
County	Martin	Route	SR 450	Des. No	1700155
Unique Substa		aintenance, or safety pro onomic, or environment			✓
		mitigate wetland impact			
Remarks:	/data/mapper.html) the water resources of the project area. August 28, 2019 and within the project ar A Waters of the U.S. Permitting Office or	on November 14, 2019 map in the RFI report (/ The nearest wetland is d September 3, 2019 b ea. Report was completed in September 19, 2019	D by RQAW, USGS to Appendix E, page E-7) mapped within the page INDOT and it was by INDOT and was ap (Appendix F, pages	ne mapper (https://ww pographic map (Append), seven wetlands are loo project area. Field visits determined that two w proved by the INDOT Ec F-1 to F-31). It was de & B-3). The USACE make	dix B, page B-2), and cated within 0.5 mile were conducted on vetlands are located ology and Waterway etermined that two
	regarding jurisdiction Wetland 1 is approx southeast quadrant taken to determine t	n. kimately 0.12 acre in si of the project area (Ap the boundary of Wetlar	ze, is a palustrine er opendix B, page B-3) nd 1 (Appendix F, pag	mergent (PEM) wetland . Two data points (W1 es F-10 to F-12 and F-16	, and located in the and W1-W2U) were to F-18). Data point
	thus, meeting the thi 1 and did not meet considered jurisdiction	ree criteria to be classif all three of the criteria onal (i.e. a Waters of th Vhite River, a TNW. The	ied as a wetland. Data to be considered w ne United States) due	etation, hydric soils, and a point W1-W2U was tal ithin a wetland. This we to its connectivity to Fl up to approximately 0.1	ken outside Wetland etland is likely to be at Creek, a tributary
	the southeast quadra taken to determine t W2 was taken within thus, meeting the thi 2 and did not meet considered jurisdiction to the East Fork of V Although the wetlan	ant of the project area in the boundary of Wetland 2 and exhibiting a criteria to be classiful all three of the criteria onal (i.e. a Waters of the White River, a TNW. The day are abutting, the	(Appendix B, page B-s ad 2 (Appendix F, pag ted hydrophytic vege ied as a wetland. Data to be considered w he United States) due he dividing boundary difference in classific	ted emergent (PFO) wet 3). Two data points (W2 es F-13 to F-15 and F-16 etation, hydric soils, and a point W1-W2U was tal ithin a wetland. This we to its connectivity to Fl of Wetland 1 and Wet cation, PEM versus PFO ximately 0.18 acre of W	and W1-W2U) were to F-18). Data point wetland hydrology; ken outside Wetland etland is likely to be at Creek, a tributary land 2 is a tree line. D, is the reason for

Per the *Waters of the U.S. Report*, three other data points (DP 1 to DP3) were taken in areas that appeared to be potential wetlands. DP1 to DP3 determined those areas were not wetlands (Appendix F, pages F-19 to F-27).

Please note that coordination has been ongoing with the project designer to ensure wetland impacts are avoided and minimized as much as possible. Avoidance of the wetlands is not practicable because the wetlands are adjacent to the roadway and in the way of construction activities for the roadway and bridge. If the construction activities avoid the wetlands, the project would not be able to be properly constructed to improve sight distance issues. Wetland boundaries will be identified as "Wetland—Do Not Disturb Outside

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Project name:	SR 450 over Flat Creek Bridge Replacement	Date:	October 14, 2020	

		Indiana Depa	rtment of Trans _l	portation	
County	Martin	Route	SR 450	Des. No	1700155
		indirect impacts. IND			d in the field prior to separate construction
	acre mitigation thres be utilized for wetla	hold, wetland mitigat	on will be required. If ACE Section 404 Per	possible, the IDNR In	s will exceed the 0.10 Lieu Fee Program will n 401 Water Quality
	Early coordination letters were sent to the USACE, IDNR Division of Fish and Wildlife, USFWS, and IDEM o November 12, 2019 (Appendix C, pages C-1 to C-4). The USACE did not respond to the early coordinatio letter. An automated response was received from IDEM on November 12, 2019; however, the response di not contain project specific comments (Appendix C, pages C-5 to C-12).				
	objections to the pro and Wildlife respond avoid or minimize im mitigating wetland i	ject as currently propoled to the early coord pacts to wetlands (Appropole appropole) and the appropole agency reco	osed (Appendix C, pag dination letter on Dec pendix C, pages C-20 to priate ratio per the 1	es C-24 and C-25). The ember 12, 2019 with o C-23). Recommendat 991 INDOT/IDNR/USF	ted the USFWS has no e IDNR Division of Fish recommendations to cions generally include WS Memorandum of mental Commitments
Ferrestria Unique or	l Habitat High Quality Habitat		<u>Presence</u>		No
Use the rea	aerial photograph of wooded. Dominant t occidentalis), and re (Phalaris arundinaced poison ivy (Toxicode	the project area (App ree species included g d maple (Acer rubrun d), tall fescue (Schedor andron radicans), and ed that certain common	ed on August 28, 2010 endix B, page B-3), ad green ash (<i>Fraxinus pe</i> n). Dominant herbace norus arundinaceus), Ja bush honeysuckle (<i>Di</i>	and September 3, 20 ljacent land use is prirensylvanica), America ous vegetation includapanese bristlegrass (Servilla lonicera). Altho	farmland, lawn, etc). 19 by INDOT, and an marily agricultural and in sycamore (Platanus led reed canary grass setaria faberi), eastern bugh no animals were ect area (e.g. squirrels,
	approximately 0.30 a consists of forested la (dbh) are within the done within the bat Floodway Permit will because the trees ar	ncre consists of reside and (Appendix B, page construction limits. Ap nactive season (Octob not be needed, mitig e in the way of consti	ntial land, 3.45 acres of B-3). Trees greater that opproximately 0.11 acreor through March). Hation is not anticipate	consists of agricultura an three inches in dian e of tree clearing will lowever, because an I ed. Avoidance of the t he roadway and bridg	rmanent right-of-way, Il land, and 1.45 acres neter-at-breast-height be needed and will be DNR Construction in a rees is not practicable e. If the trees are not
	Early coordination le	tters were sent to th	e USACE. IDNR Divisio	on of Fish and Wildlif	e, USFWS, IDEM, and

County	Martin	Route	SR 450	Des. No	1700155
	Hoosier National For project should not a	est responded to the ffect the Hoosier Nati est System land. The F	early coordination let onal Forest as the pro	ter on November 12 oject is approximate	iges C-5 to C-12). The 2, 2019 and stated the ly 5 miles west of the concerns regarding the
	objections to the pro and Wildlife respond avoid or minimize Recommendations g mitigating impacts to	ject as currently proportied to the early coord impacts to terrestricenerally include revego non-wetland forest a commental Commitment inimal movements observe	ised (Appendix C, page ination letter on Dece al and riparian habi etating disturbed area t appropriate ratios. A as section of this CE do d in the project area, or if	es C-24 and C-25). The ember 12, 2019 with tat (Appendix C, pas, minimizing tree a all applicable agency ocument.	atted the USFWS has no e IDNR Division of Fish a recommendations to bages C-20 to C-23). Ind brush clearing, and recommendations are
Karst		-	-	,	res No
Is the p	proposed project located rst features located with			of Indiana?	√
	If yes, will the project rks box to identify any k October 13, 1993)	impact any of these ka arst features within the		vestigation must com	nply with the Karst
Remarks:	October 13, 1993 Me B-2) and the water identified within or a In their early coordin (Appendix C, pages located within an ar bedrock resources, I resources extraction	emorandum of Underst resources map in the djacent to the project ation response, the IGS C-13 to C-15). Impacts ea with high liquefacti ow potential for sand sites. This information	anding (MOU). Per the RFI report (Appendix area. 6 did not indicate that are not expected. The on potential, 1% annuand gravel resources was conveyed to the	e USGS topographic r E, page E-7), there karst features may e ne IGS stated the 0.5 ual chance flood haz , and no documente project designer on I	ana, as outlined in the map (Appendix B, page are no karst features xist in the project area is mile search radius is ard, high potential for ed abandoned mineral December 16, 2019.
	early coordination rebe conducted, with r	sponse, the USFWS st	ated if any karst featu necessary, in accorda	res are encountered	, a karst survey should 1993 Memorandum of
				<u>Presence</u>	Impacts
Within the Any criti Federal	d or Endangered Spec he known range of any f ical habitat identified wit species found in project pecies found in project a	ederal species hin project area t area (based upon info		<u>√</u>	Yes No
Is Section	on 7 formal consultation	required for this action	Yes	No ✓	
Remarks:	·	· · · · · · · · · · · · · · · · · · ·	•		nagement on October atened and Rare (ETR)
This is pa	age 13 of 27		ver Flat Creek Bridge Re		vate: October 14, 2020

County Martin Doute CD4FO Dec No. 1	1700155
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Species List has been checked (Appendix E, pages E-8 to E-10). The highlighted species on the list reflect the federal and state identified ETR species located within Martin County. Per the IDNR Division of Fish and Wildlife early coordination response letter dated December 12, 2019, the Natural Heritage Program's database has been checked, and to date, no plant or animal species listed as state or federally threatened, endangered, or rare have been reported to occur in the project vicinity (Appendix C, pages C-20 to C-23).

Project information was submitted through the USFWS Information for Planning and Consultation (IPaC) website (https://ecos.fws.gov/ipac/) on May 26, 2020 by INDOT and an official species list was generated (Appendix C, pages C-27 to C-32). Per the official species list, the project area is within the range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally threatened northern long-eared bat (*Myotis septentrionalis*). Per the official species list, no additional species were found within the project area.

The project is located inside the designated karst region of Indiana. Karst areas may include additional habitat for bats; as such, an Avoidance and Minimization Measure (AMM) is included as a firm commitment in the *Environmental Commitments* section of this document. Hibernacula AMM 1: For projects located within karst areas, on-site personnel will use best management practices, secondary containment measures, or other standard spill prevention and countermeasures to avoid impacts to possible hibernacula. Where practicable, a 300 foot buffer will be employed to separate fueling areas and other major containment risk activities from caves, sinkholes, losing streams, and springs in karst topography.

The project qualifies for the *Range-wide Programmatic Informal Consultation for the Indiana bat and northern long-eared bat*, dated May 2016 (revised February 2018), between FHWA, Federal Railroad Administration (FRA), Federal Transit Administration (FTA), and the USFWS. An effect determination key was completed on September 3, 2019 by INDOT; based on the responses provided, it was determined the project *May Affect, Not Likely to Adversely Affect* the Indiana bat and northern long-eared bat (Appendix C, pages C-33 to C-48). INDOT Vincennes District requested USFWS review of the effect finding on September 3, 2019. No response was received from the USFWS within the 14-day review period; therefore, it was concluded the USFWS concurs with the finding. Avoidance and Minimization Measures (AMMs) are included as firm commitments in the *Environmental Commitments* section of this document.

Per the INDOT Bridge Inspection Report, dated August 5, 2020, Structure Number 450-51-06447 B has shown evidence of use (i.e. nests) by a bird species protected under the Migratory Bird Treaty Act (MBTA). AMMs must be implemented prior to the start of and during the nesting season. Nests without eggs or young should be removed prior to construction during the non-nesting season (September 8 – April 30) and during the nesting season if no eggs or young are present. Nests with eggs or young cannot be removed or disturbed during the nesting season (May 1 – September 7). Nests with eggs or young should be screened or buffered from active construction. Details of the required procedures are outlined in the "Potential Migratory Bird on Structure Unique Special Provision (USP)". This firm commitment is included in the *Environmental Commitments* section of this CE document.

This precludes the need for further consultation on the project under Section 7 of the Endangered Species Act of 1973, as amended. If new information on endangered species at the site becomes available, or if project plans are changed, the USFWS will be contacted for consultation.

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Project name:	SR 450 over Flat Creek Bridge Replacement	Date:	October 14, 2020	

County	Martin	Route	SR 450	Des. No.	1700155
SECTION	I B – OTHER RESO	URCES			
			Presence	<u>lm</u>	pacts
•	Vater Resources			Yes	No
	ad Protection Area			_	
	Vater System(s) ntial Well(s)		-	V	
	Water Protection Area	ı(s)			
	ource Aquifer (SSA)	()			
If a SSA	A is present, answer th	ie following:			
lo f	the Draiget in the Ct. I	acanh Aquifar Cyatama	Yes	No	
	the FHWA/EPA SSA N	oseph Aquifer System?			
	tial Groundwater Asse				
	tailed Groundwater As	•			
Remarks:	the only legally de	signated sole source aqu	y which is not located wi uifer in Indiana. Therefor andum of Understanding	e, the FHWA/Envi	ronmental Protection
		sment is not needed. Im		, , , , , , , , , , , , , , , , , , , ,	
	Per the IDFM W	ellhead Proximity Dete	erminator website (<u>http:</u>	://www.in.gov/ide	m/cleanwater/pages/
			09 by RQAW, the project		
	Protection Area or	Source Water Area. Imp	acts are not expected.		
			15.1		
			rd Database website (<u>htt</u>		· ·
			one water well is located 2,000 feet west of the pro		
			is estimated, and the stat	-	
			5 feet below ground surfa		
			r wells. Impacts are not ex		<i>y</i> , , ,
	Per a desktop revie	w of the INDOT Municipa	al Separate Storm Sewer S	Systems (MS4) web	osite (https://entapps.
	indot.in.gov/MS4/	, accessed on Novembe	er 20, 2019 by RQAW, an	nd the UAB discus	sion in the RFI report
	(Appendix E, page I	E-3), the project area is n	ot within an Urbanized Ar	rea Boundary. Imp	acts are not expected.
	Per a desktop revie	ew, field visits conducted	d on August 28, 2019 and	September 3, 201	.9 by INDOT, an aerial
			k B, page B-3), and coord		
	' '	•	tility coordination is ongo	ing. Any impacts to	the water line would
	be temporary and	cease upon project comp	oletion.		
			Presenc	ce Imp	acts
Flood Plai				Yes	No
•	dinal Encroachment erse Encroachment		 		
	located within a regula	ated floodplain			
-	_	vithin 1000' up/downstrea	m from project		
cuss impa	cts according to classi	fication system described	d in the "Procedural Manu	al for Preparing En	— vironmental Studies".
	age 15 of 27		-1		
Project n	name:	SR 450 c	over Flat Creek Bridge Replac	cement Da	ate: October 14, 20

County _	Martin	Route	SR 450	Des. No	1700155
Remarks:	Per a review of the II /fdms/), accessed or regulatory floodplair Indiana Local Floodp C-1 to C-4). The Loca qualifies as a Categoreplacement of exist. No homes are locate the base floodplain such that backwater no substantial adversin flood risks; and emergency service.	DNR Indiana Floodway In November 20, 2019 by a (Appendix E, page E-7) lain Administrator (Maral Floodplain Administratory 4 per the current IN ing drainage structures d within the base floodp within 1,000 feet down surface elevations are use impacts on natural and there will be no substator emergency evacuations.	nformation Portal wy RQAW, and the RF and Appendix F, partin County Surveyor tor did not respond DOT Categorical Excon essentially the satisfication within 1,000 fee istream. The proposinot expected to sub did beneficial floodpla antial increase in partin routes; there	ebsite (https://dnrmap.il report, the project are age F-9). Early coordinate of the early coordinate clusion Manual. Categories alignment. Let upstream and no homed structure will have stantially increase. As a sin values; there will be rotential for interruptice of the project of the structure of the project of the structure will be rotential for interruptice of the structure of the structure of the structure will be rotential for interruptice of the structure of the structure of the structure will be rotential for interruptice of the structure of the structure of the structure will be rotential for interruptice of the structure of the struct	s.dnr.in.gov/appsphp ea is located within a ation was sent to the 9 (Appendix C, pages on letter. The project ary 4 projects involve these are located within an effective capacity a result, there will be no substantial change on or termination of etermined that this
		substantial. A hydrauli uring the preliminary d			
	ral Lands armland (per NRCS)		Presence	Impacts Yes N ✓	o
	nts (from Section VII of reater, see CE Manual for		129		
ee <i>CE Manua</i> Remarks:	Per a desktop review photograph of the p Conservation Service Farmland Protection	•	on August 28, 2019 B, page B-3), and ea I convert approxima	and September 3, 2019 rly coordination with the tely 3.45 acres of farmla	ne Natural Resources and as defined by the
	Coordination with N C-19). The NRCS the alternatives is 160. E statewide, or local	on letter was sent to the RCS resulted in a score reshold score for signiful secause the project score important farmland with this document will be	of 129 on the NRCS- ficant impacts to fa re is less than the th ill result from the	-CPA-106 Form (Append rmland that result in reshold, no significant l project. No alternative	dix C, pages C-18 and the consideration of oss of prime, unique, es other than those
SECTION	C – CULTURAL RE	SOURCES			
Minor Project	ts PA Clearance	Category Type	12 N/A	proval Dates	N/A
Results of R	esearch	Eligible and/or Resource Pro			
Archaeology NRHP Buildi					

NRHP District(s) NRHP Bridge(s) Project Effect No Historic Properties Affected No Adverse Effect Adverse Effect Documentation	
No Historic Properties Affected No Adverse Effect Adverse Effect	
Documentation	
Documentation (mark all that apply) ES/FHWA Approval Date(s) Historic Properties Short Report Historic Property Report Archaeological Records Check/ Review Archaeological Phase Ia Survey Report Archaeological Phase Ic Survey Report Archaeological Phase II Investigation Report Archaeological Phase III Data Recovery APE, Eligibility and Effect Determination 800.11 Documentation	
MOA Signature Dates (List all signatories) Memorandum of Agreement (MOA)	_ _
Describe all efforts to document cultural resources, including a detailed summary of the Section 106 proces categories outlined in the remarks box. The completion of the Section 106 process requires that a Legal Notice be local newspapers. Please indicate the publication date, name of paper(s) and the comment period deadline. Likevany further Section 106 work which must be completed at a later date, such as mitigation or deep trenching. Remarks: On January 14, 2020 the INDOT Cultural Resources Office (CRO) determined the project fall guidelines of Category B, Type B-12 under the Minor Projects Programmatic Agreement (Apper D-1 to D-4). Category B, Type B-12 projects involve replacement, widening, or raising the elevation of the su on existing bridges, and bridge replacement projects (when both the superstructure and substremoved), where work occurs in undisturbed soils and an archaeological investigation condular applicant and reviewed by INDOT CRO determines that no National Register-listed or potential Register-eligible archaeological resources are present within the project area (Condition A ii), we occur adjacent to or within a National Register-listed or National Register-eligible district or individed ground resource (Condition B i), and the bridge was built after 1945 [the existing 30-foot long box beam bridge was reconstructed in 1980], and is a common type as defined in Section V. of Comment Issued for Streamlining Section 106 Review for Actions Affecting Post-1945 Concrebridges issued by the Advisory Council on Historic Preservation on November 2, 2012 for so Program Comment remains in effect and the considerations listed in Section IV of the Program of apply (Condition B ii b). A Phase la Archaeological Survey was completed by qualified professionals from Cultural Resour (CRA) (Martin, January 2020) (Appendix D, pages D-5 and D-6). The report noted two archeological sites near the project area (Sites 12Mn121 and 12Mn122). The boundaries of the beyond the survey area and the sites were not fully i	re published in ewise include alls within the endix D, pages uperstructure are ducted by the tially National work does not ividual aboveg prestressed of the Program rete and Steel to long as that a Comment do arce Analysists documented e sites extend le for listing in
This is page 17 of 27 Project name: SR 450 over Flat Creek Bridge Replacement Date: 0	October 14, 2020

SR 450

Des. No. 1700155

Route

County ____

Martin

not recommended for listing in the N project area.	IRHP and no further arche	eological work was recommended within the				
were made. Because the permanent coordination with INDOT CRO was o	After the archaeological short report was completed, minor changes to the permanent right-of-way limits were made. Because the permanent right-of-way limits extend beyond the archaeology survey boundary, coordination with INDOT CRO was conducted. In e-mail dated June 1, 2020, INDOT CRO stated that no additional archaeology or above-ground survey is necessary (Appendix D, pages D-7 and D-8).					
No further consultation is required. THWA under Section 106 have been f		n 106 process and the responsibilities of the				
SECTION D - SECTION 4(f) RESOURCES/ S	ECTION 6(f) RESOUR	CES				
Section 4(f) Involvement (mark all that apply)	_					
Parks & Other Recreational Land Publicly owned park Publicly owned recreation area Other (school, state/national forest, bikeway, et	Presence	Yes No				
Programmatic Section 4(f)* "De minimis" Impact* Individual Section 4(f)	Evaluations Prepared	FHWA Approval date				
Wildlife & Waterfowl Refuges National Wildlife Refuge National Natural Landmark State Wildlife Area State Nature Preserve	Presence	Yes No				
Programmatic Section 4(f)* "De minimis" Impact* Individual Section 4(f)	Evaluations Prepared	FHWA Approval date				
Historic Properties Sites eligible and/or listed on the NRHP	<u>Presence</u>	Yes No				
Programmatic Section 4(f)* "De minimis" Impact* Individual Section 4(f)	Evaluations Prepared	FHWA Approval date				
This is page 18 of 27 Project name: SF	R 450 over Flat Creek Bridge I	Replacement Date: October 14, 2020				

County	Martin	Route	SR 450	Des. No.	1700155		
*FHWA approval of the environmental document also serves as approval of any Section 4f Programmatic and/or De minimis evaluation(s) discussed below.							
documentation Individual Sec	rammatic Section 4(f) a n must be separate Dr tion 4(f) evaluations plea rnatives that satisfy the l	aft and Final docume ase refer to the "Proced	nts. For further discusural Manual for the Pre	ssions on Programma	tic, "de minimis" and		
	Section 4(f) of the Department of Transportation Act of 1966, 49 USC 303(c) prohibits the use of certain public and historic lands for federally funded transportation facilities unless there is not a feasible and prudent alternative. The law applies to significant publicly owned parks, recreation areas, wildlife and 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 4(f) resources.						
	project area (Append	, site visits on August ix B, page B-3), the informent Form (Appendixerch radius. There are expected.	rastructure map in the D, pages D-1 to D-4),	e RFI report (Appendix there are no Section 4	E, page E-6), and the (f) resources located		
Section 6(f) Involvement		Presence	<u>Use</u> Yes No			
Section 6(f) Property]		
Remarks:	(LWCF), which was c Section 6(f) of this Ac Per a review of the LV 2019, there are five	ater Conservation Fundance reated to preserve, de t prohibits conversion VCF property list provice LWCF properties with or adjacent to the pro-	d Act of 1965 establishevelop, and assure according of lands purchased with the IDNR Division of Martin County (Action Martin County	ned the Land and Wate cessibility to outdoor ith LWCF monies to a on of Outdoor Recreat Appendix I, page I-1)	er Conservation Fund recreation resources. non-recreation use.		
SECTION	E – Air Quality						
Air	<u>Quality</u>						
Is		ity non-attainment or m st current MPO TIP? rom conformity?	then:	Yes No ✓]		
Le	vel of MSAT Analysis re	quired?					
Le	vel 1a ✓ Level 1b	Level 2 L	evel 3 Level 4	Level 5			
Remarks:	1	ed in the FY 2020 to 2 O; as such, it is not list		endix H, page H-2). Th	ne project area is not		
	age 19 of 27	CD 450 -	war Flat Crock Builder Be	placement D-	to. October 14, 2020		
Project n	ıaııı € .	3K 45U 0	ver Flat Creek Bridge Re	placement Da	te: October 14, 2020		

County	Martin	Route	SR 450	Des. No.	1700155
	of Air Quality website	· · · · · · · · · · · · · · · · · · ·	/idem/airquality/files	/nonattainmentarea	ints per the IDEM Office smap.pdf), accessed on 33 do not apply.
				• •	R 771.117(c), or exempt ource Air Toxics analysis
SECTION	I F - NOISE				
Noise Is a noise a	analysis required in acco	rdance with FHWA reg	ulations and INDOT's	s traffic noise policy?	Yes No ✓
		No Yes/ Da	te		
ES Reviev	w of Noise Analysis				
Remarks:		III project. In accordance Noise Analysis Proceed			
SECTION	I G – COMMUNITY IN	IPACTS			
Will the pro Will the pro Will the pro Will constr Does the construction of the constr	Community & Neighbor posed action comply with a posed action result in supposed action result in supposed action result in supposed activities impact of the community have an appropriate steps being made to a project comply with the transposed action in the complex comply with the transposed action in the complex comply with the transposed action in the complex co	th the local/regional de- ubstantial impacts to co ubstantial impacts to lo- ommunity events (festi- oved transition plan? advance the community	ommunity cohesion? cal tax base or proper vals, fairs, etc.)? y's transition plan?		Yes No
Remarks:	anticipated to result properties within the the surrounding com	in substantial impact area or divide existin	s to community coh g communities. The omic impacts to the s	esion because it will proposed project is surrounding area. The	rea. The project is not I not change access to not expected to impact erefore, the project will
	construction. Per the by RQAW, no fair or Any future fairs/festi	Fairs and Festivals web festival is currently sch	site (<u>www.fairsandfe</u> neduled within a 10 r ed are unlikely to be	estivals.net), accessed mile radius of zip cod	be maintained during d on November 21, 2019 le 47581 (project area). ject since fair or festival
	approved Americans facilities and the pro	with Disabilities Act (A	DA) Transition Plan (constructing pedestria	lated 2019). There ar	Martin County has an e no existing pedestrian e, the project complies
This is p Project r	age 20 of 27 name:	SR 450 o	ver Flat Creek Bridge R	eplacement I	Date: October 14, 2020

Indirect and Cumulative Impacts Will the proposed action result in substantial indirect or cumulative impacts? Remarks: Indirect impacts are effects caused by the action and later in time, or farther removed in distance, by still reasonably foreseeable. Indirect effects may include growth inducing effects and other effects relating induced changes in the pattern of land use, population density, or growth rate. Cumulative impacts affect environment which result from the incremental impact of the action when added to other past, present reasonably foreseeable future actions regardless of what agency or person undertakes such actions. Due to the scope of the project (replacing the existing structure, raising the new structure and roat profile, improving the vertical curves immediately north and south of the structure, and placing ripragi impacts limited to streams and wetlands, the project is not expected to result in any substantial indire cumulative impacts. The project will increase all condition ratings of the bridge to a 7 ("good condition higher, alleviate flooding within the project area, and improve roadway geometric deficiencies. However project is not expected to increase development in the area beyond what may already be planned, project will not add capacity to the existing roadway network or provide additional access to any curr undeveloped area. Public Facilities & Services Will the proposed action result in substantial impacts on health and educational facilities, public and private utilities, emergency services, religious institutions, airports, public transportation or pedestrian and bicycle facilities? Discuss how the maintenance of traffic will affect public facilities and services. Pera desktop review, field visits conducted on August 28, 2019 and September 3, 2019 by INDOT, an a photograph of the project area (Appendix B, page B-3), and the infrastructure map in the RFI report (Appe E, page E-6), one religious facility, Trinity Springs Church of Christ Cemetery, is located within the 0.5	County	Martin	Route	SR 450	Des. No	1700)155
still reasonably foreseeable. Indirect effects may include growth inducing effects and other effects relatinduced changes in the pattern of land use, population density, or growth rate. Cumulative impacts after environment which result from the incremental impact of the action when added to other past, present reasonably foreseeable future actions regardless of what agency or person undertakes such actions. Due to the scope of the project (replacing the existing structure, raising the new structure and roar profile, improving the vertical curves immediately north and south of the structure, and placing riprojimpacts limited to streams and wetlands, the project is not expected to result in any substantial indire cumulative impacts. The project will increase all condition ratings of the bridge to a 7 ("good condition higher, alleviate flooding within the project area, and improve roadway geometric deficiencies. However project is not expected to increase development in the area beyond what may already be planned, project will not add capacity to the existing roadway network or provide additional access to any currundeveloped area. Public Facilities & Services Will the proposed action result in substantial impacts on health and educational facilities, public and provide utilities, emergency services, religious institutions, airports, public transportation or pedestrian and bicycle facilities? Discuss how the meintenance of traffic will affect public facilities and services. Remarks: Per a desktop review, field visits conducted on August 28, 2019 and September 3, 2019 by INDOT, an a photograph of the project area (Appendix B, page B-3), and the infrastructure map in the RFI report (Appendix B, page E-6), one religious facility. Trinity Springs Church of Christ Cemetery, is located within the 0.5 search radius. The cemetery is approximately 1,650 feet northeast of the right-of-way limits. Impacts are expected due to distance, Per review of Google Maps, there does not appear to be any emergency services at expect				mulative impacts?		Yes	No ✓
Public Facilities & Services Will the proposed action result in substantial impacts on health and educational facilities, public and private utilities, emergency services, religious institutions, airports, public transportation or pedestrian and bicycle facilities? Discuss how the maintenance of traffic will affect public facilities and services. Remarks: Per a desktop review, field visits conducted on August 28, 2019 and September 3, 2019 by INDOT, and photograph of the project area (Appendix B, page B-3), and the infrastructure map in the RFI report (Appe E, page E-6), one religious facility, Trinity Springs Church of Christ Cemetery, is located within the 0.5 search radius. The cemetery is approximately 1,650 feet northeast of the right-of-way limits. Impacts are expected due to distance. Per review of Google Maps, there does not appear to be any emergency ser or public transportation stations located within the 0.5 mile search radius. Per the Red Flag Investigate there are no public airports located within 3.8 miles (20,000 feet) of the project area (Appendix E, page to E-10). Per the project designer, the project area contains a public water line. Utility coordination is ongoing, impacts to the water line would be temporary and cease upon project completion. Also, per the prodesigner, telephone, electric, and water utilities are within the project area. Temporary impacts are expet to relocate the utilities. Early coordination letters were sent to the Martin County Council, Martin County Board of Commissio Martin County Surveyor's Office, and the Martin County Highway Department on November 12, (Appendix C, pages C-1 to C-4). These organizations did not respond to the early coordination letter. It is the responsibility of the project sponsor to notify school corporations and emergency services at two weeks prior to any construction that would block or limits access. Environmental Justice (EJ) (Presidential EO 12898) During the development of the project were EJ issues identified? Or project require	Remarks:	still reasonably fores induced changes in tenvironment which is reasonably foreseea. Due to the scope of profile, improving the impacts limited to stocumulative impacts. higher, alleviate floo project is not expect project will not add	eeable. Indirect effects he pattern of land use, presult from the increme ble future actions regard the project (replacing e vertical curves immetreams and wetlands, the project will increased ing within the project ted to increase developments.	may include growth copulation density, on tal impact of the act dless of what agency the existing structured diately north and sounce project is not expense all condition rating area, and improve roupment in the area by	inducing effects and or growth rate. Cumulation when added to ote or person undertakes are, raising the new stath of the structure, a ected to result in any gs of the bridge to a 7 adway geometric deficitely.	ther effective impactive impact, past, past action tructure and placing substantia ("good cociencies. Heady be p	ts related to ts affect the present, and ons. Ind roadway riprap) and I indirect or ndition") or owever, the lanned. The
photograph of the project area (Appendix B, page B-3), and the infrastructure map in the RFI report (Appe E, page E-6), one religious facility, Trinity Springs Church of Christ Cemetery, is located within the 0.5 search radius. The cemetery is approximately 1,650 feet northeast of the right-of-way limits. Impacts are expected due to distance. Per review of Google Maps, there does not appear to be any emergency ser or public transportation stations located within the 0.5 mile search radius. Per the Red Flag Investiga there are no public airports located within 3.8 miles (20,000 feet) of the project area (Appendix E, page to E-10). Per the project designer, the project area contains a public water line. Utility coordination is ongoing, impacts to the water line would be temporary and cease upon project completion. Also, per the prodesigner, telephone, electric, and water utilities are within the project area. Temporary impacts are expet to relocate the utilities. Early coordination letters were sent to the Martin County Council, Martin County Board of Commission Martin County Surveyor's Office, and the Martin County Highway Department on November 12, (Appendix C, pages C-1 to C-4). These organizations did not respond to the early coordination letter. It is the responsibility of the project sponsor to notify school corporations and emergency services at two weeks prior to any construction that would block or limits access. Environmental Justice (EJ) (Presidential EO 12898) Oboes the project require an EJ analysis? FYES, then: Are any EJ populations located within the project area? Will the project result in adversely high or disproportionate impacts to EJ populations?	Will the pro private utili	cilities & Services reposed action result in sties, emergency service	s, religious institutions,	airports, public transp	ortation or pedestrian	Yes	No 🗸
impacts to the water line would be temporary and cease upon project completion. Also, per the prodesigner, telephone, electric, and water utilities are within the project area. Temporary impacts are expect to relocate the utilities. Early coordination letters were sent to the Martin County Council, Martin County Board of Commission Martin County Surveyor's Office, and the Martin County Highway Department on November 12, (Appendix C, pages C-1 to C-4). These organizations did not respond to the early coordination letter. It is the responsibility of the project sponsor to notify school corporations and emergency services at two weeks prior to any construction that would block or limits access. Environmental Justice (EJ) (Presidential EO 12898) Ouring the development of the project were EJ issues identified? Obes the project require an EJ analysis? If YES, then: Are any EJ populations located within the project area? Will the project result in adversely high or disproportionate impacts to EJ populations?	Remarks:	photograph of the pr E, page E-6), one rel search radius. The ce expected due to dist or public transporta there are no public a	oject area (Appendix B, igious facility, Trinity Semetery is approximate ance. Per review of Gotion stations located w	page B-3), and the in prings Church of Chr ly 1,650 feet northea ogle Maps, there doe ithin the 0.5 mile se	frastructure map in the ist Cemetery, is locate st of the right-of-way es not appear to be ar arch radius. Per the R	e RFI repored within the limits. Impore emerge Red Flag In	t (Appendix the 0.5 mile acts are not ncy services vestigation,
Martin County Surveyor's Office, and the Martin County Highway Department on November 12, (Appendix C, pages C-1 to C-4). These organizations did not respond to the early coordination letter. It is the responsibility of the project sponsor to notify school corporations and emergency services at two weeks prior to any construction that would block or limits access. Environmental Justice (EJ) (Presidential EO 12898) Ouring the development of the project were EJ issues identified? Ooes the project require an EJ analysis? If YES, then: Are any EJ populations located within the project area? Will the project result in adversely high or disproportionate impacts to EJ populations?		impacts to the water designer, telephone,	er line would be tempo electric, and water util	orary and cease upor	n project completion.	Also, per	the project
two weeks prior to any construction that would block or limits access. Environmental Justice (EJ) (Presidential EO 12898) Ouring the development of the project were EJ issues identified? Ooes the project require an EJ analysis? f YES, then: Are any EJ populations located within the project area? Will the project result in adversely high or disproportionate impacts to EJ populations?		Martin County Surv	eyor's Office, and the	Martin County High	hway Department on	Novembe	er 12, 2019
During the development of the project were EJ issues identified? Does the project require an EJ analysis? f YES, then: Are any EJ populations located within the project area? Will the project result in adversely high or disproportionate impacts to EJ populations?						gency serv	ices at least
Will the project result in adversely high or disproportionate impacts to EJ populations? ✓	During the Does the p f YES, the	development of the pro roject require an EJ and n:	iect were EJ issues ider alysis?		[Yes	No ✓
This is page 21 of 27					oopulations?	✓	✓
							ctober 14, 2020

County	Martin	Route	SR 450	Des. No.	1700155

Remarks:

Under FHWA Order 6640.23A, FHWA and INDOT, as a recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT CE Manual, an Environmental Justice (EJ) analysis is required for any project that has two or more relocations or 0.50 acre of additional permanent right-of-way. The project will require approximately 5.50 acres of permanent right-of-way and no relocations. 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 exists and whether there could be disproportionately high and adverse impacts to them. The reference population may be a county, city, or town and is called the community of comparison (COC). In this project, the COC is Martin County. The community that overlaps the project limits is called the affected community (AC). In this project, the AC is Census Tract 9501.

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 or minority population is 125% of the COC. American Community Survey 5-year estimates data (2013 through 2017) was obtained from the U.S. Census Bureau website (https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t) on November 13, 2019 by RQAW. The data collected for low-income and minority populations within the AC are summarized in the table below.

Table: Low-income and Minority Data (American Community Survey, 2013 through 2017)					
	COC: Martin County	AC 1 (Census Tract 9501)			
Percent Low-income	13.3%	13.2%			
125% of COC	16.7%	AC < 125% of COC			
EJ Population of Conce	rn	No			
Percent Minority 2.8%		5.5%			
125% of COC 3.5%		AC > 125% of COC			
EJ Population of Conce	rn	Yes			

AC 1 has a percent low-income of 13.2% which is below 50% and is below the 125% COC threshold (16.7%). Therefore, there are no low-income populations of EJ concern. AC 1 has a percent minority of 5.5% which is below 50% and above the 125% COC threshold (3.5%). Therefore, there are minority populations of EJ concern.

The project will not disrupt community cohesion or create a physical barrier. The main impacts to adjacent properties will likely be the temporary inconvenience of construction activities, acquisition of strip right-of-way consisting of agricultural land and trees. Per coordination with INDOT Environmental Services Division, INDOT concurred with the findings on December 5, 2019 (Appendix I, pages I-24 and I-25). INDOT Environmental Services Division does not consider the impacts associated with this project as causing a disproportionately high and adverse effect on minority and/or low incomes populations of EJ concern relative to non EJ populations in accordance with the provisions of Executive Order 12898 and FHWA Order 6640.23a. No further EJ Analysis is required (Appendix I, pages I-24 and I-25). The census data sheets, map, and calculations can be found in Appendix I, pages I-20 to I-23.

Lastly, early coordination was sent to the U.S. Department of Housing and Urban Development (USHUD) on November 12, 2019 (Appendix C, pages C-1 to C-4). The USHUD did not respond to the early coordination letter.

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Project name:	SR 450 over Flat Creek Bridge Replacement	Date:	October 14, 2020	

Count	y <u>Martin</u>	Route	SR 450	Des. No.	1700155
Will the Is a Bu Is a Co	ation of People, Businesses e proposed action result in the siness Information Survey (B enceptual Stage Relocation St lity relocation coordination be	relocation of people S) required? udy (CSRS) required	?	ms?	Yes No
Numbe	er of relocations: Reside	nces: 0 Bu	sinesses: 0	Farms: 0 C	Other:0
Remar	telephone, electric, a relocate the utilities. U	lle, businesses, or far nd water utilities ar Itility coordination h	ms will take place e within the projas been initiated.	ect area. Temporary in	Per the project designer, inpacts are expected to
SECT	ION H – HAZARDOUS MA	ATERIALS & REGI	JLATED SUBST	ANCES	
Red Flase Phase Phase	dous Materials & Regulated ag Investigation I Environmental Site Assessn II Environmental Site Assessi /Specifications for Remediation	nent (Phase I ESA) ment (Phase II ESA)	ill that apply)	<u>Documentation</u> ✓	
ES Re	view of Investigations	No Yes/ Da	ate 15, 2019		
	summary of findings for each		,		
Remar	ks: Per a review of geogra by INDOT Site Assessr located within 0.5 mil concerns were observe	phic information systement & Managemen e of the project area ed within or adjacent 3, 2019 by INDOT. Fu	t on October 15, a (Appendix E, pag to the project are	2019. No hazardous ma ge E-1 to E-10). No obvi a during the field visits c	RFI report was approved aterial concern sites are ous hazardous material onducted on August 28, all concerns or regulated
SECT	ION I – PERMITS CHECK	LIST			
Permit	s (mark all that apply)		Likely Required	<u> </u>	
Army (Corps of Engineers (404/Sec Individual Permit (IP) Nationwide Permit (NWP) Regional General Permit (R Pre-Construction Notification Other Wetland Mitigation required Stream Mitigation required Section 401 WQC Isolated Wetlands determinated Rule 5 Other Wetland Mitigation required	GP) n (PCN)	✓ ✓ ✓ ✓		
	is page 23 of 27 ect name:	SR 450 (over Flat Creek Bridg	ge Replacement	Date: October 14, 2020

		Indiana Depai	rtment of Trans	portation	
County	Martin	Route	SR 450	Des. No	1700155
St.	ream Mitigation required				
	onstruction in a Floodway				
	vigable Waterway Permit				
La	ke Preservation Permit				
_	her				
	tigation Required				
	Guard Section 9 Bridge P				
Otners (Pi Remarks:	ease discuss in the rema A USACE Section 404 F		armit and IDEM Socti	ion 401 Water Quality	Cortification will be
Ciliaiks.		_		•	
	required due to stream	-	• •		
	(0.02 acre) of streams				
	mitigation threshold, w	_	viii be required. If pos	sible, the IDNR in-Lieu	i Fee Program will be
	utilized for wetland mit	igation.			
	The total area of land d	isturhance is annro	vimately 3 90 acres B	acause the project wil	l result in one acre or
	more of land disturband		-		rresult in one acre or
	inore or land disturbant	ce, all IDEIVI Rule 3 I	volice of fifterit will be	required.	
	Per the IDNR Division of	f Fish and Wildlife es	arly coordination resn	onsa lattar Dacambar	12 2019 the project
	will require formal appr		·	· ·	
	project qualifies for a b		•		
	county highway depart				
	rural area, and involve a	• •			
	C, pages C-20 to C-23). B	_	· ·		
	a stream with an upst		•	_	
	Construction in a Flood			o square filles (Appe	iluix 1, page 1-32), a
	Construction in a rious	way i cililic will floc	be required.		
	Applicable recommend	dations provided	by permitting agen	cies are included in	the <i>Environmental</i>
	Commitments section o				
	will be requirements of		•	•	•
	project sponsor to iden		-		
	r -)	, , , , , , , , , , , , , , , , , , , ,			
SECTION	I J- ENVIRONMENTAL	COMMITMENTS			
e following	information should be prov	vided below: List all o	commitments, name o	f agency/organization r	equesting the
mmitment(s) and indicating which are	firm and which are f	for further consideration	n. The commitments s	hould be numbered.
Domorko	Ft				
Remarks:	Firm:				
	1 16 11	afaul. au uau		winds of	ahawaa dha INDOT
				right-of-way amounts	_
				ct Environmental Secti	on will be contacted
	• •		istrict Environmental		to mark that I I
				n borrow/waste areas	
	-	owed in the U.S. A	rmy Corps of Engine	ers permit. (INDOT En	vironmental Services
	Division)				

This is page 24 of 27
Project name: SR 450 over Flat Creek Bridge Replacement Date: October 14, 2020

from all wetlands. (INDOT Vincennes District Environmental Section)

3. Wetland boundaries will be identified as "Wetland—Do Not Disturb Outside Construction Limits" on the final design plans. Wetland boundaries will be identified in the field prior to construction to avoid indirect impacts. INDOT recommends orange fencing and signs to separate construction activities

	County	Martin	Route	SR 450	Des. No.	1700155
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- 4. 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 limits access. (INDOT Vincennes District Environmental Section)
- 5. 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)
- 6. Hibernacula AMM 1: For projects located within karst areas, on-site personnel will use best management practices, secondary containment measures, or other standard spill prevention and countermeasures to avoid impacts to possible hibernacula. Where practicable, a 300 foot buffer will be employed to separate fueling areas and other major containment risk activities from caves, sinkholes, losing streams, and springs in karst topography. (USFWS)
- 7. Lighting AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)
- 8. Tree Removal AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- 9. 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 no bats observed. (USFWS and IDNR)
- 10. 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)
- 11. 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)
- 12. If any karst features are encountered, a karst survey should be conducted, with mitigation measures as necessary, in accordance with the USFWS 1993 Memorandum of Understanding. (USFWS)
- 13. The project area contains a public water line. Coordination with the Superintendent of East Fork Water, Inc. will be needed prior to construction. Please contact Ray Hopkins at 812-444-9336. (INDOT Vincennes District Utilities)
- 14. Structure Number 450-51-06447 B has shown evidence of use (i.e. nests) by a bird species protected under the Migratory Bird Treaty Act (MBTA) during the August 5, 2020 inspection. Avoidance and minimization measures must be implemented prior to the start of and during the nesting season. Nests without eggs or young should be removed prior to construction during the non-nesting season (September 8 April 30) and during the nesting season if no eggs or young are present. Nests with eggs or young cannot be removed or disturbed during the nesting season (May 1 September 7). Nests with eggs or young should be screened or buffered from active construction. Details of the required procedures are outlined in the "Potential Migratory Bird on Structure USP." (INDOT Vincennes District Environmental Section)

For Further Consideration:

- 1. Do not excavate in the low flow area except for the placement of piers, foundations, and riprap, or removal of the old structure. (IDNR Division of Fish and Wildlife)
- 2. Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumparounds. (IDNR Division of Fish and Wildlife)

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Project name:	SR 450 over Flat Creek Bridge Replacement	Date:	October 14, 2020

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- 3. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids. (IDNR Division of Fish and Wildlife)
- 4. Plant native hardwood trees along the top of the bank and right-of-way to replace the vegetation destroyed during construction. (IDNR Division of Fish and Wildlife)
- 5. The new, replacement, or rehabbed structure, and any bank stabilization under the structure, should not create conditions that are less favorable for wildlife passage under the structure compared to the current conditions. A level area of natural ground under the structure is ideal for wildlife passage. If channel clearing will result in a flat bench area above the normal water level under the structure, this area should allow wildlife passage and should remain free of riprap and other similar materials that can impair wildlife passage. (IDNR Division of Fish and Wildlife)
- 6. Minimize the use of riprap and use alternative erosion protection materials whenever possible. Riprap must not be placed in the active thalweg channel or placed in the streambed in a manner that precludes fish or aquatic organism passage (riprap must not be placed above the existing streambed elevation). If riprap is used, it is recommended to only place enough riprap to provide streambank toe protection, such as from the toe of the bank up to the OHWM. The banks above the OHWM must be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to the area and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. (IDNR Division of Fish and Wildlife)
- 7. Impacts to non-wetland forest of one acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. The mitigation site should be in the floodway, downstream of the one square mile drainage area of that stream (or another stream within the 8-digit HUC, preferably as close to the impact site as possible) and adjacent to the existing forested riparian habitat. (IDNR Division of Fish and Wildlife)
- 8. Impacts to wetland habitat should be mitigated at the appropriate ratio per the 1991 INDOT/IDNR/USFWS Memorandum of Understanding. (IDNR Division of Fish and Wildlife)
- 9. Restrict below low-water work in streams to placement of culverts, piers, pilings and/or footings, shaping of the spill slopes around the bridge abutments, and placement of riprap. (USFWS)
- 10. Minimize the extent of hard armor (riprap) in bank stabilization by using bioengineering techniques whenever possible. If riprap is utilized for bank stabilization, extend it below low-water elevation to provide aquatic habitat. (USFWS)
- 11. Avoid all work within the inundated part of the stream channel during the fish spawning season (April 1 through June 30), except for work within sealed structures such as caissons or cofferdams that were installed prior to the spawning season. No equipment shall be operated below the ordinary high water mark during this time unless the machinery is within the caissons or on the cofferdams. (USFWS)
- 12. Evaluate wildlife crossings under bridge/culverts projects in appropriate situations. Suitable crossings include flat areas below bridge abutments with suitable ground cover, high water shelves in culverts, amphibian tunnels and diversion fencing. (USFWS)

This is page 26 of 27 Project name:	SR 450 over Flat Creek Bridge Replacement	Date:	October 14, 2020
	Form Version: June 2012		,

Attachment 2

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SECTION K-EARLY COORDINATION

Please list the date coordination was sent and all 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. INDOT and FHWA are automatically considered early coordination participants and should only be listed if a response is received.

Remarks:

Early coordination letters were sent to agencies on November 12, 2019 (Appendix C, pages C-1 to C-4). If a response was not received, it was assumed the agency did not feel the project would result in substantial impacts. Refer to the responding agency correspondences in Appendix C, pages C-5 to C-50. The following agencies/individuals were contacted during early coordination:

Agency	Date of Response(s)
1. NRCS (electronic coordination)	November 21, 2019
2. Indiana Geological Survey (electronic submission)	November 12, 2019
3. IDNR Division of Fish and Wildlife (electronic coordination)	December 12, 2019
4. IDEM (electronic query)	November 12, 2019
5. IDEM Groundwater Section (electronic query)	November 12, 2019
6. INDOT Office of Public Involvement (electronic coordination)	November 15, 2019
7. U.S. Department of Housing and Urban Development	
(electronic coordination)	No response received
8. USACE Louisville District (electronic coordination)	No response received
9. National Park Service, Midwest Regional Office	No response received
10. U.S. Forest Service	November 12, 2019
11. Martin County Council	No response received
12. Martin County Board of Commissioners	No response received
13. Martin County Surveyor's Office (Local Floodplain	No response received
Administrator)	
14. Martin County Highway Department	No response received
	September 3, 2019
	November 18, 2019
15. USFWS (standard and IPaC electronic coordination)	May 26, 2020

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Project name:	SR 450 over Flat Creek Bridge Replacement	Date:	October 14, 2020

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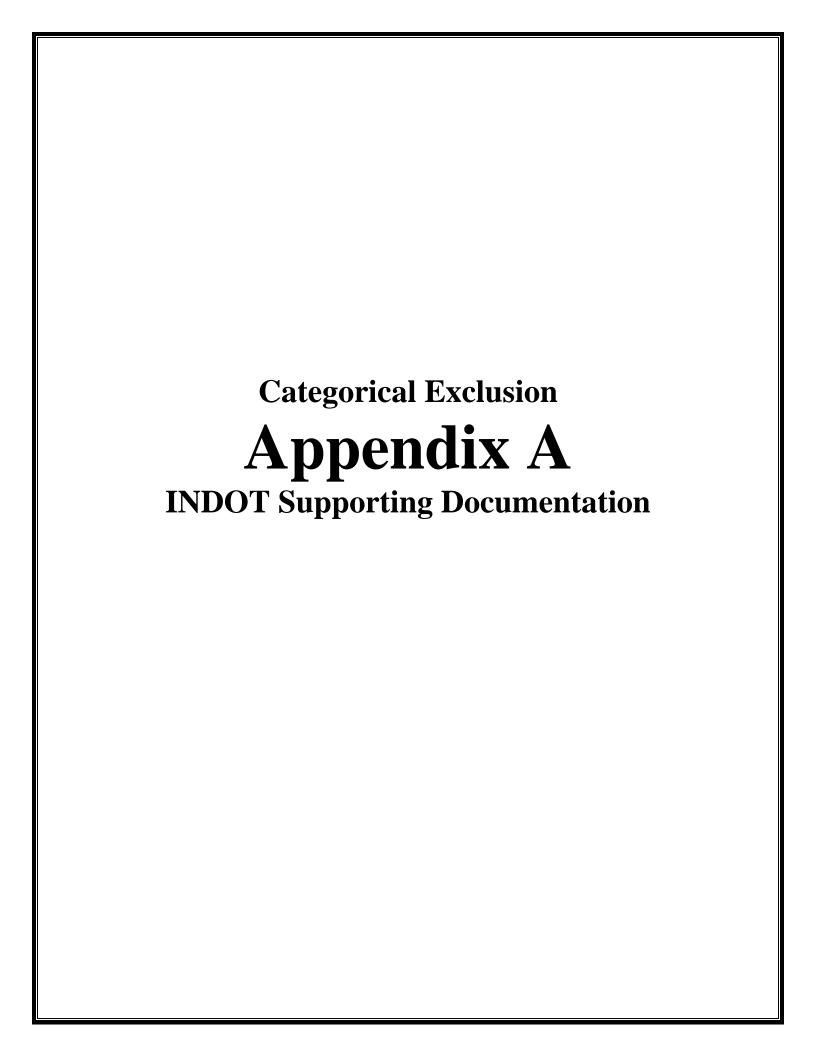
SR 450 over Flat Creek (aka Opossum Creek) Bridge Replacment Project – Martin County, Indiana

Appendix A: INDOT Supporting Documentation	
Categorical Exclusion Level Thresholds	A-1
Appendix B: Graphics	
General Location Map	B-1
Topographic Map	B-2
Photograph Location Key Map	B-3
Photographs	B-4
Preliminary Design Plan Sheets	B-16
Appendix C: Early Coordination	
Example Early Coordination Letter (appendices omitted)	C-1
Indiana Department of Environmental Management (IDEM)	
Standard Electronic Response Letter	C-5
Indiana Geological Survey	
Electronic Response	C-13
U.S. Forest Service	
Response E-mail	C-16
Indiana Department of Transportation (INDOT)	
Office of Public Involvement Standard Response E-mail	C-17
Natural Resources Conservation Service (NRCS)	
Response Letter and Completed NRCS-CPA-106 Form	C-18
Indiana Department of Natural Resources (IDNR)	
Division of Fish and Wildlife Response Letter	C-20
U.S. Fish and Wildlife Service (USFWS)	
Early Coordination Response E-mail	
INDOT District Bat Database Check E-mail	
Information for Planning and Consultation (IPaC) Species List Letter	
IPaC Concurrence Verification Letter	
Bridge/Structure Assessment Form	C-49
Appendix D: Section 106 of the National Historic Preservation Act (NHPA)	
Minor Projects Programmatic Agreement (MPPA) Assessment Form	D-1
Indiana Archaeological Short Report (abstract only)	D-5
INDOT Archaeological Coordination E-mail	D-7
Appendix E: Red Flag Investigation and Hazardous Materials	
Red Flag Investigation (some graphics omitted)	E-1
Appendix F: Water Resources	
Waters of the U.S. Report (some graphics omitted)	F-1
Waters of the U.S. Report INDOT Approval E-mail	
StreamStats Report	F-32

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SR 450 over Flat Creek (aka Opossum Creek) Bridge Replacment Project – Martin County, Indiana

Appendix G: Public Involvement	
Example Notice of Entry for Survey or Investigation Letter (August 7, 2019)	G-1
Example Notice of Entry for Survey or Investigation Letter (November 5, 2019)	G-2
Appendix H: Air Quality	
Statewide Transportation Improvement Program (relevant pages only)	H-1
Appendix I: Other Information	
National Park Service Land and Water Conservation Fund List	I-1
INDOT Bridge Inspection Report (relevant pages only)	I-2
INDOT Abbreviated Engineer's Assessment (appendices omitted)	
INDOT Hydraulics Memo	
Environmental Justice (EJ) Analysis	I-20
INDOT EJ Analysis Concurrence E-mail	



Des. Number 1700155 **Categorical Exclusion Level Thresholds**

	PCE	Level 1	Level 2	Level 3	Level 4 ¹
Section 106	Falls within guidelines of Minor Projects PA	"No Historic Properties Affected"	"No Adverse Effect"	-	"Adverse Effect" Or Historic Bridge involvement ²
Stream Impacts	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	Individual 404 Permit
Wetland Impacts	No adverse impacts to wetlands	< 0.1 acre	-	< 1 acre	≥ 1 acre
Right-of-way ³	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations	None	-	-	< 5	≥5
Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat)	"No Effect", "Not likely to Adversely Affect" (Without AMMs ⁴ or with AMMs required for all projects ⁵)	"Not likely to Adversely Affect" (With any other AMMs)	-	"Likely to Adversely Affect"	Project does not fall under Species Specific Programmatic
Threatened/Endangered Species (Any other species)	Falls within guidelines of USFWS 2013 Interim Policy	"No Effect", ""Not likely to Adversely Affect"	-	-	"Likely to Adversely Affect"
Environmental Justice	No disproportionately high and adverse impacts	-	-	-	Potential ⁶
Sole Source Aquifer	Detailed Assessment Not Required	-	-	-	Detailed Assessment
Floodplain	No Substantial Impacts	-	-	-	Substantial Impacts
Coastal Zone Consistency	Consistent	-	-	-	Not Consistent
National Wild and Scenic River	Not Present	-	-	-	Present
New Alignment	None	-	-	-	Any
Section 4(f) Impacts	None	-	-	-	Any
Section 6(f) Impacts	None	-	-	-	Any
Added Through Lane	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Coast Guard Permit	None	-	-	-	Any
Noise Analysis Required	No	-	-	-	Yes V7
Approval Level	No Consumance by	-	-	-	Yes ⁷
Approval Level	Concurrence by INDOT District				
District Env. SupervisorEnv. Services DivisionFHWA	Environmental or Environmental Services	Yes	Yes	Yes Yes	Yes Yes Yes

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

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

³Permanent and/or temporary right-of-way. ⁴AMMs = Avoidance and Mitigation Measures.

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

⁶Potential for causing a disproportionately high and adverse impact.

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

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