nty _	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591
CA	TEGORICAL EX	CLUSION / EN	vironmental Docum VIRONMENTA JECT INFORMATION	AL ASSES	SMENT FORM
Road	l No./County:	State Route (SR) 59/N	Nontgomery County		
Desig	gnation Number:	1593272 & 1701591			
Proj Desc	ect ription/Termini:		Indiana. The project	limits extend f	in the Town of Waveland rom County Road (CR) 115 y 1.0 mile.
	ompleting this form, I conclapprove if Level 4 CE):	ude that this project qualifi	es for the following typ	e of Categorical	Exclusion (FHWA must
✓		on, Level 2 – The propo Level Thresholds. Requ			tegorical Exclusion Manu
					tegorical Exclusion Manu nmental Services Division)
		on, Level 4 – The proportion Level Thresholds. Requ			tegorical Exclusion Manu
		essment (EA) – EAs rec			research and documentations, FHWA
	ESM Signature	Date	ES Signature		Date
Releas	e for Public Involveme	FHWA Signature nt	Date	e	
N/A			REIS	7	7-14-2020
ESM	Initials	Date	ES Initials		Date
Certifi	cation of Public Involve	ementOffice of Public	Involvement	Date	
Note: D	o not approve until after Se	ection 106 public involveme	ent and all other environ	nmental requirem	ents have been satisfied.
	Γ ESD/District eviewer Signature:		Da	te:	
Name	and Organization of CE/EA Pro	eparer: Cameron Fraser / Ro	QAW Corporation		
s is pag	e 1 of 36 Project name	SR 59 Pavement Re	habilitation and Bridge Replac	ement Project	Date: July 2, 2020

County	Montgomery	Route	SR 59	Des. No.	159327	72 & 1701591		
		Part I - PUE	BLIC INVOL	<u>/EMENT</u>				
	action requires some level of pu						oject	
If N	es the project have a hist o, then: Opportunity for a Public H		nder the Historic Bı	ridges PA*?	s No			
	ring is required for all his), and the ACHP.	storic bridges processed	l under the Historic	Bridges Programm	atic Agreen	nent between INE	OOT,	
	public involvement act ccial purpose meetings, r				l residents	(i.e. notice of er	ntry),	
Remarks:	13, 2018, notifying th	were mailed to potent em about the project in the area (Appendix G	and that individua	•		_		
	To meet the public involvement requirements of Section 106, a legal notice of FHWA's finding of "No Adverse Effect" was published in <i>The Paper</i> of Montgomery County on April 1, 2020 offering the public an opportunity to submit comment pursuant to 36 CFR 800.2(d), 800.3(e), and 800.6(a)(4). The public comment period closed 30 days later on May 1, 2020. The text of the public notice and the affidavit of publication appear in Appendix D, pages D-71 to D-72. No public comments were received.							
	Transportation (INDOT opportunity to submit local publication contin	et the minimum reque The state of the state	anual which requirest a public hearin of this document for	es the project spor g. Therefore, a leg	nsor to offe gal notice w	r the public an vill appear in a		
Public Cor	ntroversy on Environm	ental Grounds			Yes	No		
Will the pro impacts?	ject involve substantial c	ontroversy concerning o	community and/or n	atural resource				
Remarks:	Currently, there is no resources.	substantial public cor	ntroversy concerni	ng impacts to the	community	or to natural		
<u>Part</u>	<u>II - General Pro</u>	<u>ject Identificat</u>	ion, Descri	otion, and D	<u>esign l</u>	<u>nformatior</u>	<u>1</u>	
Sponsor of	the Project:	INDOT		INDOT Di		rawfordsville		
Local Nam	e of the Facility:	SR 59, locally known as Cross Street (north/so	•	th/south), Main Str	eet (east/w	est), and 		
Funding Sc	ource (mark all that apply	r): Federal ✓ S	tate 🗸 Local [Other*				
*If other is	selected, please identify	the funding source:						
This is pa	age 2 of 36 Project na	me: SR 59 Pavemen	t Rehabilitation and Bridge	Replacement Project	Date:	July 2, 2020		

		Route	SR 59	Des. No.	1593272 &	1701591
PURPOSE AND NEE	D:					
scribe the transportation his section. (Refer to th			ess. The solution to the traff	ïc problem sł	ould NOT be	discussed
			tion of the existing SR 59 rd	padway paye	ment (Des. No	o. 1593272)
· · ·			59 over Little Raccoon Cree		•	,
report (Appendix I, page for this section of SR 59 s too thin, resulting in papert to the point they	es I-10 to I-12 is severely ag poor structura are no longer with Disabilit), completed by RQA e hardened with ext I capacity. The curbin visible. The existing ies Act (ADA) standa	(Appendix I, pages I-10 to I W and approved by INDOT ensive wheel path cracking, ng conditions are poor with sidewalks are in poor cond rds. The existing drainage s	on June 25, 2 In some loca some of the lition, missin	2019, the exist tions the exist curbs cracking g in various se	ing asphalt ing asphalt and falling ections, and
Number 059-54-05061 box beams exhibiting c	A, each receive racking and le	ved Condition Rating eaching. There are d	ber 14, 2019, the superstr s of 5 out of 9 which indica eep spalls with exposed re Appendix I, pages I-1 to I-9	tes "Fair" co bar, wide cra	ndition. This is	due to the
Condition Ratings of the	e superstructi continued veh	ure and substructure icular use along this	pacity of the pavement for e of Structure Number 059 s section of SR 59. Another thin the project area.	-54-05061 A	to a 7 ("good	condition")
PROJECT DESCRIP	TION (PREF	ERRED ALTERN	ATIVE):			
County: Montgomery	<u>/</u>	Municipa	ality: Town of Waveland			
County: Montgomery	k: The proje		ality:Town of Waveland ng SR 59 from CR 1150 Sout	h to SR 47, fo	or a total proje	ect length o
Limits of Proposed Work	k: The proje	ect limits extend alor		h to SR 47, fo	or a total proje Acre(s)	ect length of
Limits of Proposed Work Fotal Work Length: s an Interchange Modifi	k: The proje approxim 1.0	ect limits extend alor nately 1.0 mile. Mile(s) Interchange Justific	Total Work Area:	8.5		ect length o
imits of Proposed Work otal Work Length:	k: The proje approxim 1.0	ect limits extend alor nately 1.0 mile. Mile(s) Interchange Justific	Total Work Area:	8.5	Acre(s)	No
Limits of Proposed Work Fotal Work Length: s an Interchange Modifif f yes, when did the FHV an IMS or IJS is required	t: The proje approxim 1.0 ication Study / VA grant a cor	ect limits extend alor nately 1.0 mile. Mile(s) Interchange Justific nditional approval for	Total Work Area:	8.5 ed?	Acre(s) Yes¹ Date:	No
Limits of Proposed Work Fotal Work Length: s an Interchange Modifityes, when did the FHV an IMS or IJS is required proval of the IMS/IJS.	t: The proje approxim 1.0 ication Study / NA grant a coud; a copy of the	ect limits extend alor nately 1.0 mile. Mile(s) Interchange Justific nditional approval for the approved CE/EA of	Total Work Area: ation Study (IMS/IJS) require this project?	8.5 ed?	Acre(s) Yes¹ Date: A with a reque	No ✓
imits of Proposed Work Fotal Work Length: s an Interchange Modififyes, when did the FHV an IMS or IJS is required aroval of the IMS/IJS. the remarks box below, of the ferred alternative. Inclu	t: The proje approxim 1.0 ication Study / NA grant a coud; a copy of the describe existed a discussion of the describe and a discussion of the describe existed and discussion of the approximate and the ap	ect limits extend alor nately 1.0 mile. Mile(s) Interchange Justific nditional approval for the approved CE/EA of the conditions, providen of logical termini.	Total Work Area: ation Study (IMS/IJS) require this project?	8.5 ed? If to the FHW.	Acre(s) Yes¹ Date: A with a reque	No ✓
imits of Proposed Work Fotal Work Length: s an Interchange Modification of the IMS/IJS. s an IMS or IJS is required proval of the IMS/IJS. the remarks box below, of the IMS/IJS. the remarks box below, of the INDOT Crawfordsvire or voadway The INDOT Crawfordsvire of the INDOT County, Irand Range 6 West of the IMS/IJS.	t: The project approxim 1.0 ication Study / NA grant a condition of the describe existed a discussion deficiencies in the describe and a condition of the describe existed a discussion deficiencies in the describe existed a discussion deficiencies in the discussion deficiencies in the discussion deficiencies in the discussion discussion described and discussion described and discussion described and discussion discussion described and	Mile(s) Interchange Justifice additional approval for or of logical termini. If these are issues. In the Federal Highward a bridge replactically, the project is its Bellmore U.S. Geo	Total Work Area: ation Study (IMS/IJS) require this project? document must be submitted the in detail the scope of work.	ed? If to the FHW. If for the project propose to pose to po	Acre(s) Yes¹ Date: A with a requesect, including to and how the paroceed with a the Town of 36 of Townsh pendix B, pag	No set for final the project will a pavement Waveland, ip 17 North e B-2). The

County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591
rehabilitation p the road rehal approach work	roject. The replace pilitation and bridg	ment of this structure re replacement projection restition and the no	will occur approxinct are logical becar	nately 0.07 mile south use the southern term	in the limits of the road of SR 47. The termini for ninus terminates at the pach work for the SR 47
the Town of W (north/south). shoulders that of the project a ditches, drive of	Vaveland and is know Within the project a vary from 0 to 2 fee area along Main Strouverts, and a store	own locally as CR 800 area, SR 59 consists of at wide. Sidewalks of v eet and Cross Street. S m sewer system, whi	O West (north/sout two 11 foot wide to arying widths (4 fee Stormwater drainag ch discharges into a	h), Main Street (east/ ravel lanes (one in eac it to 12 feet) are prese ge within the project a	n and east/west through (west), and Cross Street in direction) with outside nt throughout a majority rea is conveyed by open (UNT) of Little Raccoon median.
structure is a thof approximate	nree-span prestress ely 32.2 feet. Adjac	ed concrete box bean ent land use consists	n bridge, approxima of primarily reside	itely 97 feet in length vintial and commercial	coon Creek. The existing with an out-to-out width properties. The existing ne (Appendix B, pages B-
and Cross Street to SR 47. The f addition of 2 fo this section of discharge into construction ar	et intersection, and irst 700 feet of the ot wide paved (3 foot the project will be the UNT of Little Rand sidewalks for this	from north of the bri project along SR 59 (ot wide usable) should conveyed by open of accoon Creek. No side	dge over Little Racc CR 800 West), will ders to provide later ditches, drive culve ewalks are present	oon Creek (Structure Ninvolve widening the pale al stability for the pavents, and new storm sewithin this section of t	umber 059-54-05061 A) pavement to include the ement. Drainage through ewer system, which will the project area and the west side of this section
system with ad existing gravel 59 (Cross Stree replaced due to the downtown	equate curb offset. for on-street parkir t) from the intersec the needed grade area of Waveland. T	. The pavement on SR ng. The existing 11 foo tion of Main Street ar raise at the bridge rep The curbs and storm se	R 59 will be widened of wide travel lanes and Cross Street nort placement, and due ewer system will be	d approximately 8 feet , on-street parking, an h to the bridge over Lit to the thinner existing	illation of a storm sewer in areas where there is d curb and gutter on SR itle Racoon Creek will be pavement depth within wntown area and added n Creek.
approximately Accessibility Gu	0.06 mile south of tuidelines (PROWAG	the bridge replaceme	nt, will be reconstru . The sidewalks alo	ucted along SR 59 to m ng each side of SR 59	intersection and ending neet Public Right-of-Way (Main Street and Cross
The new bridge the existing). R bridge along t	e will have a total le iprap drainage turn he spillslopes. Nor 8 feet to ensure ad	ength of 103.5 feet an outs will be added at th of Structure Num	d an overall width of the each quadrant of the ber 059-54-05061	of 36.33 feet (approxing the bridge. Riprap will a A, the approach pav	ed concrete slab bridge. nately 4 feet wider than ilso be placed below the ement will be widened nclude milling and a Hot

This is page 4 of 36 Project name: SR 59 Pavement Rehabilitation and Bridge Replacement Project Date: July 2, 2020

County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591

The project will also include milling and resurfacing the existing pavement of Old SR 59, located southwest of the SR 47 and SR 59 (Cross Street) intersection. A temporary haul road will be constructed from the end of Old SR 59 to the northwest quadrant of the existing bridge to provide access for bridge construction activities. Another temporary haul road will be constructed in the southwest quadrant of the bridge along the west side of SR 59 (Cross Street) for construction access. Both temporary haul roads will be removed after construction activities, and the surrounding area will be restored to its previous state prior to construction.

Several driveway drainage pipes, ranging from 12 inches to 30 inches in diameter, are present within the project area along the east and west sides of SR 59 (CR 800 West) and will be replaced in-kind. These drainage pipes convey storm water and are not associated with jurisdictional waters.

Excavation associated with pavement widening, curbs, sidewalks, curb ramps, and drain inlets installation will reach a maximum depth of approximately 2 feet below ground surface (bgs). Excavation associated with storm sewer trunk line installation activities and the replacement of the existing bridge will reach a maximum depth of approximately 12 feet bgs.

Approximately 1.10 acres of permanent right-of-way and 0.35 acre of temporary right-of-way will be needed for this project. The maximum proposed right-of-way width will be approximately 50 feet from the roadway centerline for both the road work and the bridge work, with a majority of the road work requiring approximately 30 feet of right-of-way from the roadway centerline (Appendix B, pages B-19 to B-37).

No residences or businesses will be relocated as part of this project. The maintenance of traffic (MOT) will involve a detour utilizing SR 47, SR 234, US 231, and SR 236, for an added travel length of approximately 18 miles. Once developed, the Town of Waveland will coordinate the pedestrian MOT plan with the residents of Waveland. SR 59 is to remain open during the annual Parke County Covered Bridge Festival held each October. Access to all properties will be maintained during construction. Refer to the *MOT During Construction* section of this document for further details on the proposed MOT plan. The estimated project cost is \$7,951,626 (fiscal year [FY] 2022) with construction anticipated to take place during late Winter/early Spring of 2022. Note the estimated cost listed in the INDOT STIP encompasses both the road construction (Des. No. 1593272) and the bridge construction (Des. No. 1701591), under the lead Des. No. 1593272 and contract number R-39363.

The preferred alternative satisfies the purpose and need of the project by improving the structural capacity of the pavement for this section of SR 59, and providing a structure with superstructure and substructure Condition Ratings of 7 ("good condition") or better to provide continued vehicular use along this section of SR 59.

OTHER ALTERNATIVES CONSIDERED:

Describe all discarded alternatives, including the Do-Nothing Alternative and an explanation of why each discarded alternative was not selected.

Two other alternatives were considered for Des. No. 1593272:

Do Nothing Alternative: This alternative would not involve any improvements to the existing roadway. This alternative would not involve any immediate cost or result in any environmental impacts. If no improvements are made to the existing roadway, the roadway would continue to deteriorate resulting in higher costs for future reconstruction. This alternative was dismissed because it would not address the purpose and need of the project by improving the overall the structural capacity of the pavement for this section of SR 59.

Partial 3R Minor Structural Overlay: This alternative would involve treating the pavement with a 4 inch mill and overlay throughout the limits of the project. This alternative would also include reconstructing the deteriorated and substandard

roughout the limits o	of the project. This	alternative would also include reconstructing the det	eriorated a	nd substandard
This is page 5 of 36	Project name:	SR 59 Pavement Rehabilitation and Bridge Replacement Project	_ Date: _	July 2, 2020
		Form Version: June 2013 Attachment 2		

nery Route	SR 59	Des. No.	1593272 & 1701591						
pedestrian facilities throughout the Town of Waveland. However, this option does not include addressing the gravel on- street parallel parking or the existing drainage through the corridor. This alternative would likely result in less cost and fewer environmental impacts; however, this alternative would not restore the structural capacity of the pavement where the asphalt thickness is minimal. Therefore, this alternative does not meet the purpose and need of the project and was not considered further.									
were considered for Des. N	o. 1701591:								
ernative would not involve to the existing structure, Id not address the purpose	any immediate cost or r the structure would con and need of the project b	result in any enviro tinue to deteriorat y improving the ove	enmental impacts. If no e. This alternative was erall Condition Rating of						
am structure. The large so t as a result of increased ap vities would likely result in project; however, it was di	ale of construction activit oproach roadway work ne i increased environmenta	ties for this alterna ecessary based on g Il impacts. This alte	tive would significantly grade change. The large ernative does meet the						
to-span ratio needed for thi s alternative significantly. Tl his alternative does meet tl	s alternative, lateral braci his alternative would likely he purpose and need of th	ng would be require y result in environm ne project; however	ed, thereby increasing ental impacts similar						
e considered.									
g capacity deficiencies; g safety hazards; sting roadway geometric de g deteriorated conditions an	ficiencies; d maintenance problems; d	or							
	the existing drainage througacts; however, this alternation inimal. Therefore, this alternation inimal. Therefore, this alternative would not internative would not involve to the existing structure, and not address the purpose abstructure to a 7 ("good continued to the existing structure, and structure to a 7 ("good continued to the existing structure, and structure. The large so that are a result of increased appointed to the existing structure, it was dispost. Alternative would likely result in project; however, it was dispost. Alternative would involve resto-span ratio needed for this alternative significantly. This alternative does meet the inigher cost of steel fabrication in the considered. Alternative is not feasible, prudenting capacity deficiencies; grafety hazards; sting roadway geometric deigner deteriorated conditions and deteriorated conditio	the existing drainage through the corridor. This alteracts; however, this alternative would not restore the inimal. Therefore, this alternative does not meet the inimal to the existing structure, and improvements to the existing structure, the structure would condition and the project bubstructure to a 7 ("good condition") or better to provide the existing structure. The large scale of construction activities as a result of increased approach roadway work new titles would likely result in increased environmental project; however, it was discarded due to the increase structure. The large scale of the existing structure to span ratio needed for this alternative, lateral bracing alternative would involve replacing the existing structure. This alternative would likely this alternative does meet the purpose and need of the inighter cost of steel fabrication required for the lateral econsidered. In the solution of the lateral econsidered in the salternative does meet the purpose and need of the inighter cost of steel fabrication required for the lateral econsidered. In the salternative deficiencies; graph the salternative deficiencies and maintenance problems; graph the salternative deficiencies and maintenance problems; graph the salternative does meet the purpose and need of the salternative deficiencies; graph the salternative deficiencies; graph the salternative deficiencies and the salternative deficiencies and the salternative deficiencies and the salternative deficienci	the existing drainage through the corridor. This alternative would likely acts; however, this alternative would not restore the structural capacity inimal. Therefore, this alternative does not meet the purpose and need were considered for Des. No. 1701591: This alternative would not involve any improvements to the existing structure would not involve any immediate cost or result in any environt to the existing structure, the structure would continue to deteriorated and address the purpose and need of the project by improving the overall structure to a 7 ("good condition") or better to provide continued we want to the large scale of construction activities for this alternative as a result of increased approach roadway work necessary based on govities would likely result in increased environmental impacts. This alternative would likely result in increased environmental impacts. This alternative would likely result in increased environmental impacts. This alternative would involve replacing the existing structure with three-spare to-span ratio needed for this alternative, lateral bracing would be required as alternative significantly. This alternative would likely result in environmental impacts of steel fabrication required for the lateral bracing. This alternative does meet the purpose and need of the project; however nigher cost of steel fabrication required for the lateral bracing. The impact of the project of steel fabrication required for the lateral bracing. The impact of the project of steel fabrication required for the lateral bracing. The impact of the project of the project of the considered. The impact of the project of the proj						

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County _	Montgomer	<u>y</u> F	Route	SR 59		Des. No.	1593272 & 170	1591
ROADWA	Y CHARACTER	R:						
Current ADT	Classification: T: T Volume (DHV):		tor VPD (2018) Truck Percenta Legal Speed (m	ge (%) nph):	n Year ADT: 10.77 30 to 40	2,045	VPD (2042)	
Number of L	anes.	Existing 2		Propos	ed 2			
Type of Land		two 11-foot wid	de travel lanes		Two 11-foot wi	de travel lanes	5	
Pavement V		26	ft.		26-38 (varies)	ft.		
Shoulder Wi		0-2 (varies)	ft.		2 paved (3 usable)	ft.		
Median Wid	th:	N/A	ft.		N/A	ft.		
Sidewalk Wi	dth:	4-12 (varies)	ft.		5-6 (varies)	ft.		
Setting Topog		✓ ✓	Urban Level		Suburban Rolling		Rural Hilly	
Structure/NE	BI Number(s): —	059-54-05	061 A Su	ufficiency F	Rating: 62.7 (14, 2019) (: Inspection Report, Appendix I, pages I- ng, Source of Inforn	-1 to I-9)
		Existing		Propos	ad			
Bridge Type	:	Three-span concrete box b	prestressed eam, 32.20 feet 7 feet long	Three reinforce	e-span continuou d concrete slab, i e by 103.50 feet	36.33		
Number of S	•	3		3				
Weight Rest		N/A	ton	N/A	ton			
Height Rest		N/A	ft. ft.	N/A	ft. ft.			
	Outside Width:	26.2 32.20	ft.	33.33 36.33	ft.			
Shoulder Wi		2	ft.	5.67	ft.			
	nannel Work:	N/A		105	ft.			
Describe Remarks:	The existing struith an out-to- 059-54-05061 A total length of 1	oer 059-54-050 ucture is a thre out width of ap A with a three-s .03.5 feet and c	61 A is located je-span prestres oproximately 32 span continuous overall width of 3	just south sed concre 2 feet. The reinforce 36.33 feet	of SR 47 and ca ete box beam be e project will r d concrete slab (approximately	arries SR 59 coridge, appropersion and remove and reprised to bridge. The refer wider	over Little Raccoon ximately 97 feet in eplace Structure in new bridge would than the existing) ould be placed be	n length Number d have a l. Riprap

SR 59 Pavement Rehabilitation and Bridge Replacement Project Date: July 2, 2020

This is page 7 of 36 Project name:

	Montgomery	Route	SR 59	_ Des. No.	1593272 & 1701591
	widened approximatel include milling and HN	y 8 feet to ensure a 1A overlay (Appendi	dequate guardrail offse x B, pages B-33 to B-37	t. The north app). Removing and	pach pavement would be roach for SR 47 will also replacing the bridge will below the ordinary high
	project area along the	east and west sides o	of SR 59 (CR 800 West) ar	nd will be replace	r, are present within the d in-kind. These drainage ix B, pages B-19 to B-37).
MAINTEN	ANCE OF TRAFFIC (N	MOT) DURING COI	NSTRUCTION:		
s a tempora Will the proj Provision Provision Provision Will the proj	ary bridge proposed? ary roadway proposed? lect involve the use of a deal of a deal of a coesses will be made for throughs will be made to accomposed MOT substantially estantial controversy associated?	s by local traffic and s h-traffic dependent be modate any local spe change the environm	o posted. usinesses. cial events or festivals. ental consequences of th	,	Yes No
Remarks:	added travel length of pedestrian MOT plan w Bridge Festival, which construction (Appendix	approximately 18 m ith the residents of V occurs annually ea B, page B-24). strian MOT plan wischool buses and em	niles. Once developed, to Vaveland. SR 59 is to rem ch October. Access to ill pose a temporary in nergency services); howe	he Town of Wave nain open during t all properties wi nconvenience to	S 231, and SR 236, for are eland will coordinate the che Parke County Covered ill be maintained during traveling motorists and the delays are anticipated.
ESTIMAT	ED PROJECT COST A	ND SCHEDULE:			
	g: \$ <u>365,000 (2018</u>	·	= \$ 103,000 (2020) arly spring 2022	Construction:	\$ <u>7,483,626 (2022)</u>
Anticipated	Start Date of Construction	July 2, 2019 (Appe			
Date projec	t incorporated into STIP				

County	Montgome	ry Route	SR 59	Des. No.	1593272 & 1701591
Location of	of Project in TIP		t located within a Metropolita d within an MPO Transportati		* **
Date of in	corporation by re	ference into the STIP	N/A		
RIGHT OF	WAY:				

Amount (acres)						
Land Use Impacts	Permanent	Temporary				
Residential	0.72	0.27				
Commercial	0.26	0.08				
Agricultural	0	0				
Forest	0.06	0				
Wetlands	0	0				
Other: Vacant Land & Religious Facility	0.06	0.002				
TOTAL	1.10	0.352				

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 existing right-of-way width along SR 59 varies from approximately 20 feet to 30 feet from the roadway centerline. Land use within the existing right-of-way consists of primarily residential and commercial properties (Appendix B, pages B-3 to B-18). The maximum proposed right-of-way width will be approximately 50 feet from the roadway centerline for both the road work and the bridge work, with a majority of the road work requiring approximately 30 feet of right-of-way from the roadway centerline (Appendix B, pages B-19 to B-37).

The project requires approximately 1.10 acres of permanent right-of-way, consisting of approximately 0.72 acre of residential land, approximately 0.26 acre of commercial land, approximately 0.06 acre of forested land, approximately 0.04 acre of vacant land (previously commercial), and approximately 0.02 acre of vacant land owned by the town of Waveland. The project will also require approximately 0.352 acre of temporary right-of-way, consisting of approximately 0.27 acre of residential land, approximately 0.08 acre of commercial land, and approximately 0.002 acre of land from the Waveland Christian Church.

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

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

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		Form Version: June 2013 Attachment 2		

This is page 10 of 36 Project name: SR 59 Pavement Rehabilitation and Bridge Replacement Project Date: July 2, 2020

·	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591		
	Early coordination letters were sent to the US Coast Guard, USACE, Indiana Department of Natural Resources (IDNR) Division of Fish and Wildlife, and IDEM on March 5, 2020 (Appendix C, pages C-1 to C-5). The USACE did not respond to the early coordination letter. An automated response was received from IDEM on March 5, 2020; however, the response did not contain project specific comments (Appendix C, pages C-6 to C-15). The US Coast Guard responded to the early coordination efforts on March 12, 2020, stating that there is no role for the US Coast Guard with this project (Appendix C, page C-25).						
	recommendations to a C-16 to C-19). Recommendation control measures and 1 through June 30,	avoid or minimize imp mendations regarding stream bank stabiliza and proper use o	pacts to fish, wildlife, s streams generally i tion measures, not w f riprap. All applic	and botanical resounclude implementing within the stable IDNR Division	s on April 3, 2020 with urces (Appendix C, pages ng erosion and sediment cream channel from April n of Fish and Wildlife Categorical Exclusion (CE)		
Other Surfact Reservoirs akes Farm Ponds Detention Bactorm Water Other:			Prese	Yes Imp	No		
emarks:	Per a desktop review, a field visit conducted on June 26, 2019 by RQAW, 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 RFI report (Appendix E, page E-8) five lakes are located within 0.5 mile of the project area. The nearest lake is mapped 0.11 mile north of the project area. No other surface waters are present within the project area; therefore, no impacts are expected.						
	A Waters of the U.S. Determination Report was completed by RQAW and was approved by the INDOT Ecology and Waterway Permitting Office on November 18, 2019 (Appendix F, pages F-1 to F-12). It was determined that other surface waters are not located within the project area.						
	Early coordination letters were sent to the USACE, IDNR Division of Fish and Wildlife, and IDEM on March 5, 2020 (Appendix C, pages C-1 to C-5). The USACE did not respond to the early coordination letter. An automated response was received from IDEM on March 5, 2020; however, the response did not contain project specific comments (Appendix C, pages C-6 to C-15).						
	recommendations to a		acts to fish, wildlife,	and botanical resou	s on April 3, 2020 with urces (Appendix C, pages ther surface waters.		

This is page 11 of 36 Project name: SR 59 Pavement Rehabilitation and Bridge Replacement Project Date: July 2, 2020

County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591	
			Duccono			
			Presenc	<u>e in</u> Yes	npacts No_	
Wetlands						
Total wetlan	nd area: 0	_ acre(s) Tot	al wetland area impacted	0	acre(s)	
(If a determin	ation has not been ma	ade for non-isolated/is	solated wetlands, fill in the	total wetland are	a impacted above.)	
Wetland No	c. Classification	Total Size (Acres)	Impacted Acres	Co	mments	
N/A	N/A	N/A	N/A		N/A	
Wetlands (M	fark all that apply)		<u>Documentation</u>	ES	Approval Dates	
Wetland Dete			✓	N	ovember 18, 2019	
Wetland Deli						
USACE Isola Mitigation Pla	ited Waters Determina	ition				
Willigation	A11					
			acts are not practicable	because such a	voidance	
	t in (Mark all that apply tial adverse impacts to		siness or other improved r	properties:		
Substantial adverse impacts to adjacent homes, business or other improved properties; Substantially increased project costs;						
	engineering, traffic, ma					
	tial adverse social, eco ect not meeting the ide		ntal impacts, or			
The proje	ect not meeting the ide	enimea neeas.				
Measures to	avoid, minimize, and i	mitigate wetland impa	cts need to be discussed	in the remarks bo	х.	
Remarks:			Inventory (NWI) online		·	
			QAW, the USGS topogra			
			pendix E, page E-8), nine and is mapped approxima			
	or the project area. I	THE HEATEST INVIT WELL	зна із шарреа аррголіна	itely 0.01 fille ea	st of the project area.	
	A Waters of the U.S. I	Determination Report	was completed by RQAW	/ and was approve	ed by the INDOT Ecology	
	and Waterway Perm	itting Office on Nove	mber 18, 2019 (Appendi)	F, pages F-1 to F	-12). It was determined	
	that wetlands are no	t located within the p	roject area.			
	Fault and address lands		LICACE IDAID Division of	F:- \A/: - :f-	and IDEM on Manch 5	
	,		e USACE, IDNR Division of he USACE did not respo		,	
	, , , ,		IDEM on March 5, 2020;	•		
	project specific comm					
			,			
			responded to early coo		•	
			npacts to fish, wildlife, an			
	•	_	ng wetlands generally inc	•	_	
			mendations do not apply EIDNR Division of Fish an			
		• •	n of this CE document.	a whalle recomm	nendations are included	
L						
This is pag	je 12 of 36 Project n	ame: SR 59 Pave	ment Rehabilitation and Bridge Rep	acement Project	Date: July 2, 2020	

County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591
			Presence	Impac	t <u>s</u>
				Yes	No
Terrestrial Unique or I	Habitat High Quality Habitat		√	✓	
<i>Use the rer</i> Remarks:			the acres impacted (i.e. for		
vernans.	project area (Appendix grass, wooded lots, an maple (Acer saccharui strobus). Dominant her (Poa pratensis) and tal	B, page B-3), terrestind riparian habitat. Tem), black walnut (Jurbaceous vegetation ll fescue (Schedonorus)	ed on June 26, 2019 by Frial habitat within the project of the dominant tree species glans nigra), pin oak (Quincluded bush honeysucklus arundinaceus). Although an animals are likely prese	ect area consists within the proj vercus palustris) e (Lonicera maak th no animals we	of maintained roadsid ect area included suga , and white pine (<i>Pinu</i> ckii), Kentucky bluegras ere observed during th
	The total area of land at-breast-height (dbh) be required in various east and west sides of An IDNR Construction the floodway of Little R	are located within th locations along SR 59 the bridge (Structure in a Floodway Permi Raccoon Creek; there	ximately 8.49 acres. Trees e construction limits. App 9, and approximately 0.35 Number 059-54-05061 A t will be needed. Over 0.1 fore, mitigation is anticipa ening and the construction	proximately 0.53 acre of tree clea), for a total of 0 10 acre of tree c ated. Tree clearin	acre of tree clearing w ring will occur along th .88 acre of tree clearing learing will occur withing is necessary along th
	Avoidance alternatives	would not be practi	haul roads and provide a cable because the trees a sociated with the paveme	re present withir	n the construction limit
	2020 (Appendix C, pa	ges C-1 to C-5). Th was received from I	USACE, IDNR Division of Fee USACE did not responded on March 5, 2020; Iges C-6 to C-15).	d to the early	coordination letter. A
If the	recommendations to a C-16 to C-19). Recomm minimizing tree and be applicable IDNR Division Commitments section of	nvoid or minimize impled and ations regarding rush clearing, and mosion of Fish and Vofthis CE document.	esponded to early coord pacts to fish, wildlife, and terrestrial habitat genera itigating impacts to non-vildlife recommendation	botanical resou Ily include reveg wetland forest a s are included	rces (Appendix C, page etating disturbed area t appropriate ratios. A in the <i>Environmento</i>
			ildlife crossings should be tak		as appear to be the sole
			he potential Karst Area of otprint of the proposed pro		Yes No
e the remai	If yes, will the project ir			stigation must co	mply with the Karst

This is page 13 of 36 Project name: SR 59 Pavement Rehabilitation and Bridge Replacement Project Date: July 2, 2020

County					
	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591
Remarks:	October 13, 1993 Me B-2) and the water i	the project is located out morandum of Understand resources map in the RFI djacent to the project area	ling (MOU). Per the report (Appendix E	USGS topographic	map (Appendix B, page
	pages C-1 to C-5). In t the project area (App IGS stated the 0.5 m potential for bedrood	as conducted with the Inc heir early coordination res endix C, pages C-22 to C-2 ile search radius is locate k resources, and low pot ect designer on May 21, 20	sponse, the IGS did n 4). Therefore, impac d within an area w ential for sand and	ot indicate that ka cts to karst feature ith moderate liqu I gravel resources	arst features exist within es are not expected. The efaction potential, high
				Presence	Impacts
Within th Any critic Federal		ederal species		✓	Yes No
Is Sectio	n 7 formal consultation	required for this action?	Yes	No ✓	
	E, pages E-1 to E-11), been checked (Apper state identified ETR s early coordination re checked, and to date	and the RFI report complethe IDNR Montgomery Condix E, pages E-10 to E-11 species located within Mosponse letter dated Aprilo, no plant or animal species o occur in the project vicin	ounty Endangered, T L). The highlighted sontgomery County. F 3, 2020, the Natura es listed as state or f	hreatened and Ra species on the list Per the IDNR Divis al Heritage Progra federally threaten	re (ETR) Species List has reflect the federal and sion of Fish and Wildlife m's database has been ed, endangered, or rare
	or rehabbed structure	Fish and Wildlife early cool e, and any bank stabilizati llife passage under the stru	on under the struct	ure, should not cr	eate conditions that are
				the current condit	ions. (Appendix C, pages
	not seen or heard und	e Inspection Report, dated der the structure (Structur field visit conducted by RC	l November 14, 201 e Number 059-54-0!	9 (Appendix I, pag 5061 A). Bats or ev	ges I-1 to I-9), bats were
	not seen or heard und observed during the final Project information Planning and Consults official species list of replacement project project area is within	der the structure (Structure) field visit conducted by RC was submitted through the ation (IPaC) website (https://www.nc. 1701591) (Appellate the range of the federall long-eared bat (Myotis segments).	I November 14, 201: e Number 059-54-0! QAW on June 26, 201 the U.S. Fish and V s://ecos.fws.gov/ipa oad rehabilitation endix C, pages C-31 ly endangered India	9 (Appendix I, pag 5061 A). Bats or ev 19. Vildlife Service (L c/) on February 19 project (Des. No to C-42). Per the ana bat (<i>Myotis so</i>	ges I-1 to I-9), bats were vidence of bats were not USFWS) Information for 2, 2020 by RQAW and an 1593272) and bridge official species list, the padalis) and the federally

County	Montgomor	Pouto	SR 59	Doc No	1593272 & 1701591
County	Montgomer	y Route	SK 59	Des. No). 15932/2 & 1/01591

Administration (FRA), Federal Transit Administration (FTA), and the USFWS. An effect determination key was completed for the road rehabilitation project (Des. No. 1593272) and bridge replacement project (Des. No. 1701591) on February 19, 2020 by RQAW; 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. The INDOT Crawfordsville District reviewed and verified the effect finding and requested USFWS review of the finding on February 20, 2020 (Appendix C, pages C-43 to C-71). 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.

The project does not qualify for the *USFWS Interim Policy for the Review of Highway Transportation Projects in Indiana* dated May 29, 2013, because tree clearing is over the 0.5 acre threshold. Therefore, an early coordination letter was sent to the USFWS on March 5, 2020 (Appendix C, pages C-1 to C-5). The USFWS responded to the early coordination letter on March 12, 2020, stating that based on a review of the information provided, the U.S. Fish and Wildlife Service has no objection to the project as currently proposed. However, should new information arise pertaining to project plans or a revised species list be published, it will be necessary for the Federal agency to reinitiate consultation. Standard recommendations are provided below (Appendix C, pages C-29 to C-30).

Recommendations regarding threatened or endangered species generally include time of year tree clearing restriction, implementing erosion and sediment control measures and stream bank stabilization measures, not working within the stream channel from April 1 through June 30, and proper use of riprap. All applicable USFWS recommendations are included in the *Environmental Commitments* section of this Categorical Exclusion (CE) document.

The RFI report was approved on November 27, 2019 (Appendix E, pages E-1 to E-11). Project information was submitted through the USFWS IPaC website (https://ecos.fws.gov/ipac/) on February 19, 2020 by RQAW and an official species list was generated (Appendix C, pages C-31 to C-42). The project area is outside a High Potential Zone for the rusty patched bumble bee (*Bombus affinis*) (Appendix E, page E-5). Impacts are not expected.

This precludes the need for further consultation on this 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.

SECTION B - OTHER RESOURCES

Drinking Water Resources

Wellhead Protection Area
Public Water System(s)
Residential Well(s)
Source Water Protection Area(s)
Sole Source Aquifer (SSA)
If a SSA is present, answer the following:

Is the Project in the St. Joseph Aquifer System? Is the FHWA/EPA SSA MOU Applicable? Initial Groundwater Assessment Required?

Presence	<u>Impa</u> Yes	<u>icts</u> No
✓ ✓	✓ ✓	
Yes	No	

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County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591			
De	tailed Groundwater Asses	ssment Required?						
Remarks:	The project is located within Montgomery County which is not located within the St. Joseph Sole Source Aquifer, the only legally designated sole source aquifer in Indiana. Therefore, the FHWA/Environmental Protection Agency (EPA) Sole Source Aquifer Memorandum of Understanding (MOU) is not applicable and a detailed groundwater assessment is not needed. Impacts are not expected.							
	(http://www.in.gov/id	em/cleanwater/pages/	•	sed on March 13	Determinator website 3, 2020 by RQAW. This mpacts are expected.			
	Per review of the IDNR Water Well Record Database website (https://www.in.gov/dnr/water/3595.htm), accessed on March 13, 2020 by RQAW, eight water wells are located within 0.5 mile of the project area. Two water wells, one unconsolidated and one unspecified, are located adjacent to the east of the project area, along Cross Street. Per the IDNR Enhanced Water Well Viewer, the locations of the water wells are estimated. The unspecified water well has a static water level of 25 feet. The adjacent unconsolidated water well has no other information (e.g. static water level) available. Per coordination with the designer, the two wells may be affected by the project. Should it be determined during the right-of-way phase that these wells are affected, a cost to cure will likely be included in the appraisal to restore the wells.							
	Per a desktop review of the INDOT Municipal Separate Storm Sewer Systems (MS4) website (https://entapps.indot.in.gov/MS4/), accessed on March 13, 2020 by RQAW, and the RFI report (Appendix E, pages E-1 to E-11), the project area is not within an Urbanized Area Boundary. Impacts are not expected.							
	area (Appendix B, page water system. Indiana that may be impacted	project is locate along SR 59, app ted with the inst coordination is	notograph of the project d where there is a public roximately 5.5 feet bgs, callation of storm sewer ongoing; however, any o any disruptions.					
			Present	ce <u>Im</u>	<u>ipacts</u>			
Flood Plain Longitud	ns dinal Encroachment			Yes	No			
Transve Project	erse Encroachment located within a regulated located in floodplain withi		from project	✓ ✓ ✓				
	c <u>ts according to classifica</u>	tion system described i	in the "Procedural Manu	ıal for Preparing l	Environmental Studies".			
Remarks:	/fdms/), accessed on N coordination was sent	Nay 13, 2020 by RQAW to the Local Floodplain	, the project area is loc	ated within a reg rch 5, 2020 (App	aps.dnr.in.gov/appsphp ulatory floodplain. Early endix C, pages C-1 to C- er.			
	This project qualifies as a Category 4 per the current INDOT CE Manual, which states If no substantial impacts are predicted then the following comment will be included:							
					e home is located within ve an effective capacity			
This is pa	age 16 of 36 Project na	me: SR 59 Pavemen	it Rehabilitation and Bridge Repla	cement Project	Date: July 2, 2020			

County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591	
	no substantial adverse in in flood risks; and ther emergency service or encroachment is not sub	npacts on natural a e will be no subs emergency evact stantial. A hydrau	e not expected to substant and beneficial floodplain va stantial increase in poten uation routes; therefore alic design study that addr design phase. A summary	lues; there will be tial for interrup , it has been esses various sti	be no substantial change obtion or termination of determined that this ructure size alternatives	
Prime Fa Total Poir *If 160 or g See CE Manua	oral Lands armland (per NRCS) arms (from Section VII of CPA areater, see CE Manual for guidance to determine	lance. e which NRCS forn			No	
Remarks:	area (Appendix B, page Service (NRCS) on March farmland. As such, there	3-3), and the early 1 17, 2020 (Append is no land that mee	ed on June 26, 2019 by RQ, coordination response from the projects the definition of farmlanct area. The requirements	om the Natural lect will not caus nd under the Far	Resources Conservation e a conversion of prime mland Protection Policy	
SECTION	C – CULTURAL RESO	URCES				
Minor Project	ts PA Clearance	Category Ty		al Dates	N/A	
Results of R	laga arab	Eligible and/o				
Archaeology NRHP Buildi NRHP Distric NRHP Bridge	ngs/Site(s) ct(s)	0 ✓ ✓ 0				
Project Effect	:					
No Historic P	Properties Affected	No Adverse I	Effect ✓ Advers	se Effect		
Historic Prop Historic Prop Archaeologic Archaeologic	ion (mark all that apply) erties Short Report erty Report al Records Check/ Review al Phase la Survey Report al Phase lc Survey Report	Documentation Prepared ✓	ES/FHWA Approval Date(s) 10/24/2019 7/22/2019	SHP Approval 11/25/2019 11/25/	Date(s) & 3/2/2020	

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		Illulalia Dep	partment of Transp	Jortation	
County _	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591
Archaeologic	al Phase II Investigation al Phase III Data Recov y and Effect Determina mentation	/ery	3/30/2020 3/30/2020	_	/2020 /2020
Describe all e ategories outl ocal newspape	ined in the remarks box ers. Please indicate the	 The completion of publication date, n 	MOA Signature Dates N/A cluding a detailed summ of the Section 106 process ame of paper(s) and the c t a later date, such as miti	ary of the Section requires that a Leg	106 process, using the ral Notice be published in adline. Likewise include
Remarks:			ject, a Section 106 evaluat ended (54 USC § 306108)	•	
	resources. The Area of one property deep alo (approximately 200	n which the propositions of Potential Effects (ong the project area feet from the road	sed project may cause alt (APE) for this project is an a (approximately 120 feet dway) where more open lix D, pages D-22 and D-23	irregular polygon. from either side of views to the proj	Most of the APE extends the roadway). It is wider
	and e-mailed letter in through D-33). Early (CRO) on August 13, was sent to those or weblink to the Histor individuals that were parties are in bold. [If party. The FHWA is the Please refer to Appe	as initiated with potenviting organization coordination was i 2019 (Appendix D, ganizations that we ic Property Report e sent early coordinate: The Indiana She federal agency endix D, page D-26	tential consulting parties less and individuals to be on nitiated with tribal contapages D-34 and D-35). A sished to be a consulting (HPR) was also provided ination letters. Those who have the historic Preservation undertaking the project of for the list of organizate sulting party corresponded.	consulting parties (cts by the INDOT Csubsequent letter, party (Appendix D, The following is a no indicated they on Officer (SHPO) is with INDOT acting tions invited to be	Appendix D, pages D-28 cultural Resources Office dated October 25, 2019, pages D-43 to D-48). A list of organizations and wished to be consulting an automatic consulting on behalf of the FHWA].
	RQAW's historian on	October 8, 2019, t ng Party letter date	le Raccoon Regional Wa the LRRWD Board Preside ed August 13, 2019, from o, page D-42).	ent, stated that the	y received a copy of the
		ana Landmarks We	the Indiana Landmarks W stern Field Office wishes		=
	invited. However, the	ey did advise inviting the Waveland Chris	he Indiana SHPO staff red g owners of potentially hi stian Church was subsequ	storic property if rig	ght-of-way is likely taken

County Montgomery Route SR 59 Des. No. 1593272 & 1701591

	Section 106 Consulting Parties	Date of Response(s)
1.	Indiana Landmarks, West Regional Office	September 11, 2019 (D-37) November 19, 2019 (D-49)
2.	Montgomery County Cultural Foundation	No response received
3.	Montgomery County Historical Society	No response received
4.	Montgomery County Historian	No response received
5.	Montgomery County Commissioners	No response received
6.	Montgomery County Highway Director	No response received
7.	Property Owner of George Seybold House at 111 E. Main Street	No response received
8.	Waveland Council President	No response received
9.	Waveland Post Office	No response received
10.	Eastern Shawnee Tribe of Oklahoma	No response received
11.	Miami Tribe of Oklahoma	September 9, 2019 (D-36)
12.	Peoria Tribe of Indians of Oklahoma	No response received
13.	Pokagon Band of Potawatomi Indians	No response received
14.	Forest County Potawatomi Community	September 12, 2019 (D-40 to D-41)
15.	Little Raccoon Regional Waste District	October 8, 2019 (D-42)
16.	Waveland Christian Church	No response received

Archaeology:

An archaeology report (Phase Ia Archaeological Reconnaissance) was completed by Cultural Resource Analysts, INC. (CRA) on July 16, 2019 (Curran, July 16, 2019) (Appendix D, pages D-68 to D-69). The archaeological reconnaissance identified one previously unrecorded archaeological site (12My722). The archaeologist noted that the site extends outside of the survey area and its National Register of Historic Places (NRHP) eligibility could not be fully assessed. Additionally, the site demonstrates poor integrity and has little potential to yield significant data about the history of the region. Further investigation was not recommended. In a letter dated November 25, 2019, the Indiana SHPO concurred with the archaeology report (Appendix D, pages D-50 and D-51).

In a letter dated September 9, 2019, the Miami Tribe of Oklahoma stated that they object to projects that will disturb or destroy archaeological sites that are eligible for the National Register of Historic Places. Due to the project's location near the archaeological site (12My111), it is possible that human remains and/or cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) could be discovered during this project. They requested immediate consultation with the entity of jurisdiction if any human remains or archaeological evidence is discovered during any phase of this project (Appendix D, page D-36).

In an email dated September 12, 2019, the Forest County Potawatomi Community stated, "based on information you provided it does not appear that the proposed work will impact any historic properties of concern to the Tribe" and they are "pleased to offer a finding of no historic properties affected, with two conditions. First should the [Indiana] SHPO finding differ the Tribe reserves the right to reconsider based on new evidence. Second, in the event that human remains, or archaeological materials are exposed as a result of project activities then work must halt and the Tribe must be included in any further discussion regarding treatment and disposition of the find prior to its removal." (Appendix D, pages D-40 and D-41).

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Historic Properties:

The APE was investigated for the existence of any historic properties and/or structures by a qualified professional from RQAW on August 9, 2019. Per the field visit and associated documentary research, the historian identified one property listed in the NRHP and three properties that are recommended eligible for listing in the NRHP (Appendix D, pages D-66 to D-67). The properties are discussed below.

Recommended NRHP-Eligible: Waveland Christian Church (Indiana Historic Sites and Structures Inventory (IHSSI) # 107-025-47016): The church is recommended eligible for the NRHP under Criterion C. The Late Gothic Revival church, although altered, is the only example of local architect, W. F. Sharpe's implementation of the Polychrome subtype in a small church building in Montgomery County (Appendix D, page D-10). The property is located at 212 West Main Street, in the northeast quadrant of the Main Street/Jackson Street intersection (Appendix D, page D-23). Please see the *Documentation, Findings* discussion below for impacts to the property.

Recommended NRHP-Eligible: Waveland Post Office (RQAW # 6): The Waveland Post Office is recommended eligible for the NRHP under Criterion A for conveying significance to the federal government's presence in Waveland and southwest Montgomery County through the United States Postal Service's operations. It is also recommended eligible under Criterion C because it embodies distinctive characteristics of Federal Modernism and is a good example of a Thousand Series post office. The Waveland Post Office contributes to the historic character of the community as not many mid-twentieth-century structures are constructed in Waveland (Appendix D, page D-10). The property is located at 103 West Main Street, in the southeast quadrant of the Main Street/High Street intersection (Appendix D, page D-23). Please see the Documentation, Findings discussion below for impacts to the property.

NRHP-Listed: George Seybold House (NR-1682): The property was listed on the NRHP in 2002 for significance under Criterion C in the area of architecture. The house is an outstanding example of late-nineteenth century Stick style architecture although with alterations such as replacement windows and a contemporary metal roof (Appendix D, page D-10). The property is located at 111 East Main Street, in the southeast quadrant of the Main Street/Cross Street intersection (Appendix D, page D-23). Please see the *Documentation, Findings* discussion below for impacts to the property.

Recommended NRHP-Eligible: Waveland Commercial Historic District (IHSSI # 107-025-46001 – 46020): The historic district is recommended NRHP-eligible under Criteria A and C. Although a handful of buildings have been demolished and the extant buildings altered, it retains sufficient integrity to portray significance in late nineteenth century Italianate architecture (Appendix D, pages D-10 to D-11). The Waveland Commercial Historic District is located along both sides of Cross between Howard and Green Streets and includes the Waveland (Carnegie) Library (Appendix D, page D-23). Please see the *Documentation, Findings* discussion below for impacts to the district.

The HPR (Boot, 2019) describing these findings was sent to INDOT CRO on September 11, 2019 and was approved by INDOT CRO on October 24, 2019 (Appendix D, page D-66 to D-67). The HPR was sent to consulting parties, including the Indiana SHPO, on October 25, 2019. In a letter dated November 25, 2019, the Indiana SHPO concurred with the identification of the NRHP-listed property and the recommendations for the three NRHP-eligible properties. However, the SHPO indicated that the three concrete steps from the public sidewalk to SR 59/Main Street appear as though they could date from 1959 and could have been built specifically for this post office building, even though they may be within the SR 59 right-of-way (Appendix D, pages D-50 to D-51). In a letter dated November 19, 2019, the Indiana Landmarks also concurred with the recommendations of the HPR (Appendix D, page D-49).

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		Form Version: June 2013			

Attachment 2

County Montgomery Route SR 59 Des. No. 1593272 & 1701591

In response to the Indiana SHPO letter, dated November 25, 2019, requesting professional evaluation of the project's anticipated effect on the historic resources, an effects letter was completed by the Qualified Professional (QP) staff at RQAW Corporation. Note that the effects letter expanded the boundaries of the Waveland Post Office historic boundary to include the three concrete steps from the public sidewalk to SR 59/Main Street per the Indiana SHPO staff's request. On January 28, 2020, a hard copy of the effects letter was mailed to the Indiana SHPO while other consulting parties were informed via email that the letter could be viewed electronically. The letter identified potential effects to the historic resources and requested comments from consulting parties in response (Appendix D, pages D-52 to D-60).

In a letter dated March 2, 2020, the Indiana SHPO staff provided thanks for expanding the historic property boundary of the Waveland Post Office and commented on the effects letter. Additionally, the Indiana SHPO staff stated, "we do not think that the integrity of any of the characteristics that qualify any of the historic properties for inclusion in the National Register of Historic Places will be diminished by this project." (Appendix D, pages D-63 and D-64).

Documentation, Findings:

Waveland Christian Church (IHSSI # 107-025-47016): Impacts within the historic resource boundary of the Waveland Christian Church will include a new 5-foot wide sidewalk to the south edge of the existing sidewalk, resulting in an approximately 10-foot wide sidewalk. The new proposed sidewalk will be located between the existing sidewalk and the north edge of a new curb and gutter. Additionally, the existing crushed stone parking area will be paved. No unusual or historic features, such as brick or stone sidewalks or curbing, that might be impacted by the project were observed adjacent to or within this historic property. Permanent right-of-way is not anticipated from the property. However, approximately 0.002 acre of temporary right-of-way is anticipated for maneuvering and other related activities during construction only. The reconstructed driveway will remain within the existing right-of-way area. The alterations adjacent to the historic resource boundary and neighboring visible changes (as described above) are not anticipated to reduce the significance or impact any of the characteristics that qualify the Waveland Christian Church for the NRHP in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. The existing sidewalk will be retained, the roadway lane widths will be perpetuated, and the existing crushed stone area will be paved for parking and additional sidewalk. As a result, the project is anticipated to have "No Adverse Effect" to the Waveland Christian Church (Appendix D, page D-11 to D-12).

Waveland Post Office (RQAW # 6): Impacts within the historic resource boundary of the Waveland Post Office will include replacement of the curb (outside the historic resource boundary) and some of the sidewalk (within the historic property boundary). The existing sidewalk and concrete steps between the sidewalk and the curb will not be altered except for the bottom step. The depth (run) of the bottom step will be lengthened approximately 1.5 feet to tie into the proposed back of curb. This will perpetuate the stairs leading from the on-street parking area along Main Street to the post office front entrance. The concrete and railings from the period of significance (circa 1960) and the circa 2012 concrete ramp and railing in front of the post office will remain unaltered as well. Therefore, the integrity of concrete steps and sidewalk from the period of construction will continue to portray historic significance. All work will occur within the existing right-of-way. Temporary or permanent right-of-way will not be required from the Waveland Post Office. The alterations to the historic resource boundary and neighboring visible changes (as described above) are not anticipated to reduce the significance or impact any of the characteristics that qualify the Waveland Post Office at 103 W. Main Street for the NRHP in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. As a result, the project is anticipated to have "No Adverse Effect" to the Waveland Post Office (Appendix D, page D-12).

This is page 21 of 36	Project name:	SR 59 Payement Rehabilitation and Bridge Replacement Project	Date:	July 2. 2020	

County Montgomery Route SR 59 Des. No. 1593272 & 1701591

George Seybold House (NR-1682): Impacts adjacent to the historic resource boundary of the George Seybold House will include replacing curbs at the Main Street/Cross Street intersection and the approaches leading up to it. The proposed curb along Cross Street will be located approximately seven feet west of the existing (and proposed) front edge of sidewalk. Thus, the roadway pavement will tie into the existing road pavement and the buffer lawn will be perpetuated along Cross Street. The proposed curb along Main Street will be located approximately 11 feet north of the existing (and proposed) front edge of sidewalk. Along the south side of Main Street, the existing crushed stone area between the proposed curb and existing sidewalk will be converted to a buffer lawn adjacent to the approach. to the existing right-of-way. All work will occur within the existing right-of-way. Temporary or permanent right-of-way will not be required from the George Seybold House. The alterations adjacent to the historic resource boundary and neighboring visible changes (as described above) are not anticipated to reduce the significance or impact any of the characteristics that qualify the George Seybold House for the NRHP in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. As a result, the project is anticipated to have No Adverse Effect to the George Seybold House (Appendix D, page D-13).

Waveland Commercial Historic District (IHSSI # 107-025-46001 - 46020): Impacts within the historic resource boundary of the Waveland Commercial Historic District will include replacement of the curb and gutters, sidewalks, and Americans with Disabilities Act (ADA) curb ramps along SR 59/Cross Street between Howard and Green streets. As indicated in the historic property report, the Waveland Commercial Historic District retains some unusual contributing and non-contributing features. The contributing features include the limestone steps in front of the Masonic Hall (IHSSI # 107-025-46014). The limestone steps will be retained in place and the concrete sidewalk poured around them, just as the existing sidewalk does. The noncontributing features include: the replacement awning with steel posts in front of the commercial building at 224 Cross Street (IHSSI # 107-025-046013), a concrete sidewalk step along the west side of Cross Street and adjacent to the awning in front of the building at 224 Cross Street, a large concrete sidewalk ramp at the southeast corner of Cross and Green Street, and a cistern located below the Cross Street and alley intersection. These non-contributing features will be removed, replaced, or modified as part of the curb ramps, sidewalks, and pavement replacement. No other unusual or historic features, such as brick or stone sidewalks or curbing, that might be impacted by the project were observed adjacent to or within this property. Due to the significant grade change at the northwest corner of the Union Block (IHSSI # 107-025-46020), curb bump outs are proposed along Green Street in the south quadrants of the Cross Street and Green Street intersection to achieve ADA standards for the curb ramps and sidewalks while maintaining a consistent curb line along Cross Street within the Waveland Commercial Historic District. All work will occur within the existing right-of-way. Temporary or permanent right-of-way will not be required from the Waveland Commercial Historic District. The alterations within the historic resource boundary and nearby visible changes (as described above) are not anticipated to reduce the significance or impact any of the characteristics that qualify the Waveland Commercial Historic District for the NRHP in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. The contributing historic features including the buildings and limestone steps and the overall appearance and feeling of the Waveland Commercial Historic District will be retained. As a result, the project is anticipated to have "No Adverse Effect" to the Waveland Commercial Historic District (Appendix D, pages D-13 to D-14).

The 800.11(e) documentation for the "No Adverse Effect" was sent to INDOT CRO on March 4, 2020, and was signed by INDOT CRO, on behalf of FHWA, on March 30, 2020 (Appendix D, pages D-1 to D-4). The 800.11(e) documentation was sent to consulting parties, including the Indiana SHPO, on March 31, 2020. The Indiana

This is page 22 of 36	Project name:	CD FO Devices at Debelilitation and Deider Devices at Decise	Date:	July 2, 2020
This is page 22 of 36	Project name.	SR 59 Pavement Rehabilitation and Bridge Replacement Project	Date.	July 2, 2020

County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591
	SHPO concurred with the to D-74).	e "No Adverse Effe	ct" Section 106 finding	g on April 27, 2020 (Appendix D, pages D-73
	Public Involvement: To meet the public involvement: Effect", was advertised opportunity to submit coperiod expired 30 days land the affidavit of pubprocess and the response	in <i>The Paper</i> of omment pursuant ter on May 1, 2020 ication appear in	Montgomery County to 36 CFR 800.2(d), 800 D. No public comments Appendix D, pages D-7	on April 1, 2020, D.3(e), and 800.6(a)(were received. The 71 to D-72. This con	offering the public an 4). The public comment text of the public notice
SECTION	ID - SECTION 4(f) RES	OURCES/ SECT	ION 6(f) RESOURC	ES	
Parks & O Public	f) Involvement (mark all that ther Recreational Land ly owned park ly owned recreation area (school, state/national fores		<u>Presence</u> ✓	Yes No	
"D	rogrammatic Section 4(f)* le minimis" Impact* dividual Section 4(f)		Evaluations Prepared	FHWA Approval dat	<u>e</u>
Nation Nation State \	Waterfowl Refuges hal Wildlife Refuge hal Natural Landmark Wildlife Area Nature Preserve		<u>Presence</u>	Yes No	
"D	ogrammatic Section 4(f)* e minimis" Impact* dividual Section 4(f)		Evaluations Prepared	<u>FHWA</u> <u>Approval date</u>	<u>e</u>
Historic P	roperties eligible and/or listed on the N	IRHP	<u>Presence</u> ✓	<u>Use</u> Yes N	(O)
"D	ogrammatic Section 4(f)* e minimis" Impact* dividual Section 4(f)		Evaluations Prepared	FHWA Approval da	i <u>te</u>
This is p	age 23 of 36 Project nam	e: SR 59 Paven	nent Rehabilitation and Bridge R	eplacement Project	Date: July 2, 2020

		indiana Depai	tment of Trans	sportation	
County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591
	oval of the environmental o	document also serve	s as approval of any	/ Section 4f Program	matic and/or De minimis
documentation Individual Sec	historic lands for federa The law applies to sign NRHP eligible or listed Section 4(f) resources.	t and Final documer e refer to the "Proced quirements of Section Department of Tra ally funded transport nificant publicly own historic properties re	nts. For further disc ural Manual for the P n 4(f). nsportation Act of a ation facilities unles and parks, recreation egardless of owners	ussions on Program reparation of Environi 1966 prohibits the u s there is no feasible n areas, wildlife and hip. Lands subject to	matic, "de minimis" and
	(Appendix B, page B-3),	and the RFI report (<i>i</i> ies and four historic	Appendix E, pages E- resources) located v	1 to E-11), there are s vithin the 0.5 mile sea	six Section 4(f) resources arch radius. Four Section
	northeast quadrant of recommended eligible	the Main Street/Jac for the NRHP under cal architect, W. F.	kson Street intersec Criterion C. The Lat Sharpe's implement	tion (Appendix D, pa e Gothic Revival chu ation of the Polychr	the project area, in the age D-23). The church is rch, although altered, is ome subtype in a small
	wide sidewalk to the so The new proposed side and gutter. Additionall features, such as brick adjacent to or within t However, approximate related activities during of-way area. The altera described above) are r qualify the Waveland (property's location, des	uth edge of the exist walk will be located ly, the existing crus or stone sidewalks on the historic property ly 0.002 acre of terms construction only. It it is adjacent to the tot anticipated to rechristian Church for sign, setting, materia ay lane widths will be	ing sidewalk, resulting between the existing hed stone parking or curbing, that might. Permanent right-of-war are reconstructed de historic resource beduce the significanthe NRHP in a manuls, workmanship, fee e perpetuated, and	ng in an approximatel g sidewalk and the narea will be paved. It be impacted by the of-way is not anticipally is anticipated for riveway will remain voundary and neighbore or impact any of ner that would dimiteling, or association. To the existing crushed is sidewall and the existing crushed is sidewall and the existing crushed in the exist	vill include a new 5-foot y 10-foot wide sidewalk. orth edge of a new curb No unusual or historice project were observed ated from the property. maneuvering and other within the existing rightoring visible changes (as the characteristics that hish the integrity of the The existing sidewalk will stone area will be paved
	property. INDOT, actin	ng on FHWA's beha believes that the ten	If, has determined mporary occupancy	the appropriate Sec	h, a Section 4(f) historic tion 106 finding is "No Section 4(f) use because
	should be no chang	ge in ownership of the must be minor, i.e.,	ne land;		of the project, and there

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Ocurry	Wionitgoniciy	rtouto	511 55	DC3. NO.	1333272 & 1701331

- 3. There are no anticipated permanent adverse physical impacts, nor will there be interference with the protected activities, features, or attributes of the property, on either a temporary or permanent basis;
- 4. The land being used must be fully restored, i.e., the property must be returned to a condition which is at least as good as that which existed prior to the project; and
- 5. There must be documented agreement of the official(s) with jurisdiction over the Section 4(f) resource regarding the above conditions.

The temporary occupancy will not constitute a Section 4(f) use for the Waveland Christian Church because all of the conditions listed in 23 CFR 774.13(d) are satisfied (Appendix D, page D-4). The Indiana SHPO concurred that the above criteria for temporary occupancy have been met in a letter dated April 27, 2020 (Appendix D, pages D-73 and D-74).

Waveland Post Office (RQAW # 6) is located at 103 West Main Street, in the southeast quadrant of the Main Street/High Street intersection (Appendix D, page D-23). The Waveland Post Office is recommended eligible for the NRHP under Criterion A for conveying significance to the federal government's presence in Waveland and southwest Montgomery County through the United States Postal Service's operations. It is also recommended eligible under Criterion C because it embodies distinctive characteristics of Federal Modernism and is a good example of a Thousand Series post office. The Waveland Post Office contributes to the historic character of the community as not many mid-twentieth-century structures are constructed in Waveland (Appendix D, page D-10).

Impacts within the historic resource boundary of the Waveland Post Office will include replacement of the curb (outside the historic resource boundary) and some of the sidewalk (within the historic property boundary). The existing sidewalk and concrete steps between the sidewalk and the curb will not be altered except for the bottom step. The depth (run) of the bottom step will be lengthened approximately 1.5 feet to tie into the proposed back of curb. This will perpetuate the stairs leading from the on-street parking area along Main Street to the post office front entrance. The concrete and railings from the period of significance (circa 1960) and the circa 2012 concrete ramp and railing in front of the post office will remain unaltered as well. Therefore, the integrity of concrete steps and sidewalk from the period of construction will continue to portray historic significance. All work will occur within the existing right-of-way. Temporary or permanent right-of-way will not be required from the Waveland Post Office. The alterations to the historic resource boundary and neighboring visible changes (as described above) are not anticipated to reduce the significance or impact any of the characteristics that qualify the Waveland Post Office at 103 W. Main Street for the NRHP in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association (Appendix D, page D-12).

This undertaking will not convert property from Waveland Post Office, a Section 4(f) historic property, to a transportation use; INDOT, acting on FHWA's behalf, has determined the appropriate Section 106 finding is "No Adverse Effect"; therefore, no Section 4(f) evaluation is required for Waveland Post Office.

George Seybold House (NR-1682) is located at 111 East Main Street, in the southeast quadrant of the Main Street/Cross Street intersection (Appendix D, page D-23). The property was listed on the NRHP in 2002 for significance under Criterion C in the area of architecture. The house is an outstanding example of latenineteenth century Stick style architecture although with alterations such as replacement windows and a contemporary metal roof (Appendix D, page D-10).

Impacts adjacent to the historic resource boundary of the George Seybold House will include replacing curbs at the Main Street/Cross Street intersection and the approaches leading up to it. The proposed curb along

This is page 25 of 36	Project name:	SR 59 Pavement Rehabilitation and Bridge Replacement Project	_ Date: _	July 2, 2020	
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Cross Street will be located approximately seven feet west of the existing (and proposed) front edge of sidewalk. Thus, the roadway pavement will tie into the existing road pavement and the buffer lawn will be perpetuated along Cross Street. The proposed curb along Main Street will be located approximately 11 feet north of the existing (and proposed) front edge of sidewalk. Along the south side of Main Street, the existing crushed stone area between the proposed curb and existing sidewalk will be converted to a buffer lawn adjacent to the approach. to the existing right-of-way. All work will occur within the existing right-of-way. Temporary or permanent right-of-way will not be required from the George Seybold House. The alterations adjacent to the historic resource boundary and neighboring visible changes (as described above) are not anticipated to reduce the significance or impact any of the characteristics that qualify the George Seybold House for the NRHP in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association (Appendix D, page D-13).

This undertaking will not convert property from George Seybold House, a Section 4(f) historic property, to a transportation use; INDOT, acting on FHWA's behalf, has determined the appropriate Section 106 finding is "No Adverse Effect"; therefore, no Section 4(f) evaluation is required for George Seybold House.

Waveland Commercial Historic District (IHSSI # 107-025-46001 – 46020) is located along both sides of Cross between Howard and Green Streets and includes the Waveland (Carnegie) Library (Appendix D, page D-23). The historic district is recommended NRHP-eligible under Criteria A and C. Although a handful of buildings have been demolished and the extant buildings altered, it retains sufficient integrity to portray significance in late nineteenth century Italianate architecture (Appendix D, pages D-10 to D-11).

Impacts within the historic resource boundary of the Waveland Commercial Historic District will include replacement of the curb and gutters, sidewalks, and ADA curb ramps along SR 59/Cross Street between Howard and Green streets. As indicated in the historic property report, the Waveland Commercial Historic District retains some unusual contributing and non-contributing features. The contributing features include the limestone steps in front of the Masonic Hall (IHSSI # 107-025-46014). The limestone steps will be retained in place and the concrete sidewalk poured around them, just as the existing sidewalk does. The noncontributing features include: the replacement awning with steel posts in front of the commercial building at 224 Cross Street (IHSSI # 107-025-046013), a concrete sidewalk step along the west side of Cross Street and adjacent to the awning in front of the building at 224 Cross Street, a large concrete sidewalk ramp at the southeast corner of Cross and Green Street, and a cistern located below the Cross Street and alley intersection. These non-contributing features will be removed, replaced, or modified as part of the curb ramps, sidewalks, and pavement replacement. No other unusual or historic features, such as brick or stone sidewalks or curbing, that might be impacted by the project were observed adjacent to or within this property. Due to the significant grade change at the northwest corner of the Union Block (IHSSI # 107-025-46020), curb bump outs are proposed along Green Street in the south quadrants of the Cross Street and Green Street intersection to achieve ADA standards for the curb ramps and sidewalks while maintaining a consistent curb line along Cross Street within the Waveland Commercial Historic District. All work will occur within the existing right-of-way. Temporary or permanent right-of-way will not be required from the Waveland Commercial Historic District. The alterations within the historic resource boundary and nearby visible changes (as described above) are not anticipated to reduce the significance or impact any of the characteristics that qualify the Waveland Commercial Historic District for the NRHP in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. The contributing historic features including the buildings and limestone steps and the overall appearance and feeling of the Waveland Commercial Historic District will be retained (Appendix D, pages D-13 to D-14).

This is page 26 of 36	Project name:	SR 59 Pavement Rehabilitation and Bridge Replacement Project	Date:	July 2, 2020	

County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591
	property, to a transpor	rtation use; INDOT, a	cting on FHWA's beha	lf, has determined	ct, a Section 4(f) historic the appropriate Section r Waveland Commercial
	and the Waveland Base not within or adjacent	eball/Softball Diamon to the project area resources by taking p	nds, located approxim (Appendix E, page E-7 ermanent right of way	ately 0.34 mile east 7). The project will and will not alter t	east of the project area, of the project area, are not use either of these he environment in such ected.
Section 6(1	f) Involvement		Presence	<u>Use</u> Yes No	
Section 6(1	f) Property				
	sed alternatives that satis				
Remarks:		eated to preserve, de	evelop, and assure acc	essibility to outdoo	rater Conservation Fund or recreation resources. a non-recreation use.
		CF properties are loc	ated in Montgomery (County (Appendix I	on September 26, 2019, page I-18).). None of will be no impacts to 6(f)
		-	ent to the project area		
SECTION	these properties are lo resources as a result of	-	ent to the project area		
	these properties are lo resources as a result of E – Air Quality	-	ent to the project area		
Air (Co Is t	these properties are lo resources as a result of	f this project.		Yes No	
Air (Co Is t	these properties are lo resources as a result of resources as a result of the Air Quality Quality Informity Status of the Pathe project in an air quality (ES, then: Is the project in the most is the project exempt fro if the project is NOT exempt is the project in the Table 1.	Project y non-attainment or m t current MPO TIP? m conformity? mpt from conformity, Transportation Plan (1	naintenance area?	Yes No	
Air (Co Is t If Y	these properties are lo resources as a result of resources as a result of the Polyago and the Polyago and the project in an air quality (ES, then: Is the project in the most ls the project exempt fro If the project is NOT exe Is the project in the Tolyago analysis	Project y non-attainment or m t current MPO TIP? m conformity? mpt from conformity, Fransportation Plan (7 s required (CO/PM)?	naintenance area?	Yes No	
Air o	these properties are lo resources as a result of resources as a result of the Air Quality Quality Informity Status of the Pathe project in an air quality (ES, then: Is the project in the most is the project exempt fro if the project is NOT exempt is the project in the Table 1.	Project y non-attainment or m t current MPO TIP? m conformity? mpt from conformity, ransportation Plan (7 s required (CO/PM)? uired?	naintenance area?	Yes No	

	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591
			•		
	1	the project is in Montgomery County which is currently in attainm ffice of Air Quality website (https://www.in.gov/idem/air@ccessed on May 13, 2020 by RQAW. Therefore, the conformity project is of a type qualifying as a CE (Group 1) under 23 CFR ct conformity rule under 40 CFR 93.126, and as such, a Mobile Sometime NOISE			
	Act comormity rule an	uci 40 ci ii 33.120, u	ina as sacii, a iviosiic .	Jource All Toxics and	nysis is not required.
SECTION	F - NOISE				
Noise					Yes No
s a noise a	analysis required in accord	dance with FHWA reg	julations and INDOT's	traffic noise policy?	✓
ES Review	v of Noise Analysis	No Yes/ Da N/A N/A	ate		
Remarks:	This project is a Type I	II project. In accorda	nce with 23 CFR 772	and the current <i>Indi</i>	iana Department of
	Transportation Traffic	Noise Analysis Proced	dure, this action does	not require a forma	l noise analysis.
SECTION	G - COMMUNITY IMP	PACTS			
Will the pro	Community & Neighbork	the local/regional de		r the area?	Yes No
Will the pro Will the pro Will the pro Will constru Does the or If No, a Does the p	posed action comply with posed action result in subsposed action result in subsposed action result in subsposed action result in subsposed activities impact community have an approver steps being made to acroject comply with the transfer project will companticipated to result in properties within the subsposed action result in properties within the subsposed action result in properties within the subsposed action result in properties.	the local/regional de ostantial impacts to constantial impacts to constantial impacts to long munity events (festived transition plan? dvance the community explain plan? (explain plan? (explain plan) with the local/region substantial impact area or divide existing nunity or cause economics.	ommunity cohesion? cal tax base or proper vals, fairs, etc.)? y's transition plan? in the remarks box) egional development is to community cohesions communities. The omic impacts to the second calculate to the second calcu	patterns for the an esion because it will proposed project is urrounding area. Th	✓
Will the pro Will the pro Will the pro Will constru Does the co If No, a	posed action comply with posed action result in subsposed activities impact colommunity have an approve steps being made to acroject comply with the transfer project will companicipated to result in properties within the surrounding commander minimal or no new there are approximate.	the local/regional de ostantial impacts to constantial impacts to constantial impacts to lower the community events (festived transition plan? divance the community explain only with the local/region in substantial impact area or divide existing the consisting of the compacts to the early twelve businesses.	ommunity cohesion? cal tax base or proper vals, fairs, etc.)? y's transition plan? in the remarks box) egional development as to community coh ag communities. The omic impacts to the se e community or local of a within the project an	patterns for the all esion because it will proposed project is urrounding area. The economy.	rea. The project is not ill not change access to not expected to impact

County _	Montgomery	Route	SR 59	Des. No.	1593272	<u>& 1701591</u>
	Per the Montgomery /department/division.p an approved ADA Tran: Plan by reconstructing standards.	hp?structureid=188 sition Plan, dated Oc	4), accessed on May tober 12, 2015. The	13, 2020 by RQAW, No project will comply	Montgomery with the AD	y County has A Transition
					Yes	No
	d Cumulative Impacts posed action result in sub	stantial indirect or cu	mulative impacts?			✓
Remarks:	Indirect impacts are education distance, but are still references related to induct impacts affect the environment, past, present, and reassuch actions.	asonably foreseeabl ed changes in the pa ronment which resul	e. Indirect effects m ttern of land use, po t from the incremen	ay include growth inc pulation density, or g tal impact of the action	ducing effect rowth rate. on when ad	ts and other Cumulative ded to other
	Due to the scope of the cumulative impacts. Th SR 59; however, the p planned. The project w any currently undevelo	e improvement of th roject is not expecte vill not add capacity	e roadway and bridged to increase devel	e will allow for contir opment in the area	nued vehicul beyond wha	lar use along at is already
Will the prop private utiliti	ilities & Services posed action result in sub ies, emergency services, facilities? <i>Discuss how th</i>	religious institutions,	airports, public trans	portation or pedestria		No ✓
Remarks:	Per a desktop review, a area (Appendix B, page 11), there is one religious and one public library managed lands located	B-3), and the infras us facility, two recre located within the (tructure discussion i ational facilities, one 0.5 mile search radio	n the RFI report (App e post office, one me	endix E, pa morial/gath	ges E-1 to E- pering space,
	Note that the RFI repo upon further review associated with Wavela	of online records	(https://indianaecon	omicdigest.com/), t	he recreati	onal facility
	Two public facilities an adjacent to the project Approximately 0.002 a activities during construction the Section 4(f) Resource	t area, in the north acre of temporary r uction only. Access t	neast quadrant of the control of the	he Main Street/Jacks cipated for maneuve be maintained during	son Street i ring and o g construction	intersection. ther related on. Refer to
	The Waveland Post Off area. No temporary or maintained during cons	permanent right-of v	way is required from	this property. Access	-	
This is pa	age 29 of 36 Project nar	ne: SR 59 Pavem	ent Rehabilitation and Bridge	Replacement Project	Date:	July 2, 2020

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Per the RFI report, the nearest recreational facility, Waveland Town Park, is located approximately 0.07 mile east of the project area (Appendix E, pages E-1 to E-11). The Waveland Baseball/Softball Diamonds is located approximately 0.34 mile east of the project area. Access to the two recreational facilities will remain open during construction, as these facilities are located outside of the project area. Therefore, no impacts are expected.

Per review of Google Maps, the Waveland Public Library is located approximately 0.02 mile east of the project area in the southeast quadrant of the Cross Street/Green Street intersection. The Waveland Public Library is located within the Waveland Commercial Historic District. Refer to the Section 4(f) Resources section of this document for further details on the Waveland Commercial Historic District. Access to the Waveland Public Library will remain open during construction, as these facilities are located outside of the project area. Therefore, no impacts are expected.

Per the RFI report, one public airport, Shades State Park, is located within 3.8 miles (20,000 feet) of the project area (Appendix E, page E-2). Per the INDOT Office of Aviation early coordination response letter, dated March 9, 2020, there are no issues with surrounding airspace or airports. This is due to the project meeting the required glideslope requirements to the nearest public-use facility (Appendix C, page C-20). No impact is expected.

Per review of Google Maps, there appears to be one emergency service facility located within the 0.5 mile search radius. The Waveland Fire department station is located approximately 0.02 mile west of the project area, in the northeast quadrant of the Main Street/Howard Street intersection. Access to this property will remain open during construction, as this facility is located outside of the project area. Therefore, no impacts are expected.

During the June 26, 2019 field visit, the Waveland Veterans Memorial, managed by Waveland Strong, was observed adjacent to the west of the project area, in the northeast quadrant of the SR 59 and Green Street intersection. After a follow-up to the early coordination letter on May 13, 2020, a representative of Waveland Strong responded to the early coordination letter on May 14, 2020. Waveland Strong did not express any concerns regarding the project. According to the response, Waveland Strong is a privately-run not-for-profit group that owns and maintains the parcel of land containing the Veteran War Memorial (Appendix C, pages C-26 to C-27). A small amount of permanent right-of-way will be required from this property for work along the adjacent sidewalk. The proposed right-of-way will extend to the existing retaining wall, located along the east side of the property. No temporary right-of way is required from this property. Access to this property will be maintained during construction.

Several utilities are located within the project area including electric, telephone, and sanitary facilities. These utilities may require relocation and would be temporarily impacted. Utility coordination has been initiated.

Early coordination letters were sent to the Waveland Christian Church, Waveland Strong, and the INDOT Office of Aviation on March 5, 2020 (Appendix C, pages C-1 to C-5). The Waveland Christian Church did not respond to the early coordination letter.

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.

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		Form Version: June 2013 Attachment 2			

County _	Montgomery	Route	SR 59	Des. No.	159327	2 & 1701591
	ital Justice (EJ) (Presid				Yes	No
During the de	evelopment of the projec	ct were EJ issues iden	tified?			✓
Does the pro	ject require an EJ analy	sis?			✓	
If YES, then:						
Are an	EJ populations located	I within the project are	a?			✓
Will the	project result in advers	ely high or disproportion	onate impacts to EJ	oopulations?		✓

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 0.5 acre of additional permanent right-of-way. The project will require 1.10 acre of permanent right-of-way. 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). In this project, the COC is Montgomery County. Montgomery County was chosen as the COC because the project limits extend beyond the Town of Waveland corporate limits. The community that overlaps the project limits is called the affected community (AC). In this project, the AC is Brown Township.

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/isf/pages/searchresults.xhtml?refresh=t) on March 18, 2020 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: Montgomery County	AC 1 (Brown Township)			
Percent Low-income	10.2%	5.7%			
125% of COC	12.7%	AC < 125% of COC			
EJ	Population of Concern	No			
Percent Minority	7.8%	3.5%			
125% of COC	9.7%	AC < 125% of COC			
EJ	Population of Concern	No			

AC 1 has a percent low-income of 5.7% which is below 50% and is below the 125% COC threshold (12.7%). Therefore, there are no low-income populations of EJ concern. AC 1 has a percent minority of 3.5% which is below 50% and is below the 125% COC threshold (9.7%). Therefore, there are no minority populations of EJ concern. The census data sheets, map, and calculations can be found in Appendix I, pages I-13 to I-17. No further EJ analysis is warranted.

An early coordination letter was sent to the U.S. Department of Housing and Urban Development (USHUD) on March 5, 2020 (Appendix C, pages C-1 to C-5). The USHUD did not respond to the early coordination letter.

This is page 31 of 36	Project name:	SR 59 Pavement Rehabilitation and Bridge Replacement Project	_ Date: _	July 2, 2020	
		Form Version: June 2013 Attachment 2			

County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591
	of People, Businesses		husingsses or for	ma?	Yes No ✓
Is a Busines Is a Concep	posed action result in the ss Information Survey (BI otual Stage Relocation Str elocation coordination be	S) required? udy (CSRS) required	?	lis?	✓ ✓
Number of I	relocations: Reside	nces: 0 Bus	sinesses: 0	Farms:0	Other: 0
If a BIS or CSI Remarks:		ole, businesses, or fa oject area including	rms will take place electric, telepho	ne, and sanitary faci	oject. Several utilities are lities. These Utilities may en initiated.
SECTION	H – HAZARDOUS MA	TERIALS & REGU	JLATED SUBST	ANCES	
Hazardous	Materials & Regulated	Substances (Mark al	Il that annly)	<u>Documentation</u>	1
Red Flag In Phase I Env Phase II En	•	nent (Phase I ESA) nent (Phase II ESA)	п шас арргуу	✓ 	
		No Yes/ Da			
ES Review	of Investigations	Novemb	er 27, 2019		
Include a sum. Remarks:	by RQAW and was all hazardous material co Storage (LUST) site, and 0.5 mile of the project. One unmapped UST site the IDEM Virtual File adjacent to the project appears to be the locat formally a gas station IDEM VFC, states that co with the excavation pite.	phic information systopproved by INDOT Soncern sites, three Urdone National Pollutarea (Appendix E, pate, a former gas staticabinet (VFC) under tarea in the southeation of a parking lot for and has not been in during an inspection of filled. The report also y pumped the tanks	Site Assessment inderground Storal ant Discharge Elin iges E-1 to E-11). Sion (Main Street at the Agency Iden ast quadrant of Hora commercial but service since appon June 8, 1998, to states that it arout in 1995. No commercial in 1995.	& Management on lige Tank (UST) sites, continuous System (NPD and Howard Street (SI tification (AI) # 4439 toward Street and Crousiness, according to proximately 1988. The anks were seen sitting opeared the waste oil other investigation has	November 27, 2019. Five one Leaking Underground ES) site, are located within R 59), incorrectly stored in 6), appears to be located oss Street (SR 59). The site Google Earth. The site was e document, found in the gabove ground and on site tanks are still in place and s ever been conducted on lix E, page E-6).
SECTION	I – PERMITS CHECKI	LIST			
Permits (m	ark all that apply)		Likely Required	<u>_</u>	
Ind Nat	s of Engineers (404/Sec ividual Permit (IP) ionwide Permit (NWP) gional General Permit (RO		✓		
This is pa	nge 32 of 36 Project na	me : SR 59 Pavem	ent Rehabilitation and Br	idge Replacement Project	Date: July 2, 2020

County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591
IDEM	Pre-Construction Notification (PC Other Wetland Mitigation required Stream Mitigation required	N)			
	Section 401 WQC Isolated Wetlands determination Rule 5 Other Wetland Mitigation required Stream Mitigation required		✓ ✓		
	Construction in a Floodway Navigable Waterway Permit Lake Preservation Permit Other Mitigation Required st Guard Section 9 Bridge Perm (Please discuss in the remarks		✓ — ✓		

Remarks:

A USACE Section 404 RGP and IDEM Section 401 Water Quality Certification Permit will be required due to stream impacts. The project will impact approximately 105 linear feet (0.06 acre) of Little Raccoon Creek. Mitigation will not be required since impacts will not exceed 300 linear feet.

The total area of land disturbance is approximately 8.49 acres. Because the project will result in one acre or more of land disturbance, an IDEM Rule 5 Notice of Intent will be required.

Per the IDNR Division of Fish and Wildlife early coordination response letter, dated April 3, 2020, the project will require formal approval for construction in a floodway under the Flood Control Act, IC 14-28-1. Over 0.10 acre of tree clearing will occur within the floodway; therefore, mitigation is anticipated.

Applicable recommendations provided by the IDNR Division of Fish and Wildlife and the USFWS are included in the *Environmental Commitments* section of this CE document. If a permit is 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.

SECTION J- ENVIRONMENTAL COMMITMENTS

The following information should be provided below: List all commitments, name of agency/organization requesting the commitment(s) and indicating which are firm and which are for further consideration. The commitments should be numbered.

Remarks:

Firm:

- 1. 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. (INDOT Crawfordsville District Environmental Section)
- 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 limits access. (INDOT Crawfordsville District Environmental Section)
- 3. SR 59 is to remain open during the annual Parke County Covered Bridge Festival held each October. (INDOT Crawfordsville District Environmental Section)

This is page 33 of 36	Project name:	SR 59 Pavement Rehabilitation and Bridge Replacement Project	Date: _	July 2, 2020	
		Form Version: June 2013 Attachment 2			

County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591
Courty	Wieling of the L	rtouto	511.55	DC3. 140.	1333272 0 1701331

- 4. Should it be determined during the right-of-way phase that these wells are affected, a cost to cure will likely be included in the appraisal to restore the wells. (INDOT Crawfordsville District Environmental Section)
- 5. A Phase II Environmental Site Assessment (ESA) will be completed for the underground storage tank (UST) site (former gas station) located at Main Street and Howard Street (SR 59). The UST site appears to be located adjacent to the project area in the southeast quadrant of Howard Street and Cross Street (SR 59). Coordination with INDOT SAM should occur to assist with developing the scope of work plan for the Phase II ESA. The Phase II ESA will be completed prior to letting. (INDOT Site Assessment & Management)
- 6. 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)
- 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)
- 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 Northern Long Eared Bat (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)

For Further Consideration:

- 1. Do not cut any trees suitable for Indiana bat or northern long-eared bat roosting (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30. (IDNR Division of Fish and Wildlife)
- 2. If tree removal is needed, the Division of Fish & Wildlife recommends avoiding removing urban trees to the greatest extent possible and replacing trees that must be removed. (IDNR Division of Fish and Wildlife)
- 3. Do not construct any temporary runarounds or causeways. (IDNR Division of Fish and Wildlife)
- 4. 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)
- 5. If box or pipe culverts are used, the bottoms should be buried a minimum of 6 inch (or 20% of the culvert height/pipe diameter, whichever is greater up to a maximum of 2') below the stream bed elevation to allow a natural streambed to form within or under the crossing structure. Crossings should: span the entire channel width (a minimum of 1.2 times the OHWM width); maintain the natural stream substrate within the structure; have a minimum openness ratio (height x width / length) of 0.25; and have stream depth, channel width, and water velocities during low-flow conditions that are approximate to those in the natural stream channel. Banklines should be restored within box and pipe structures to allow for wildlife passage above the ordinary highwater mark. (IDNR Division of Fish and Wildlife)

This is page 34 of 36	Proiect name:	SR 59 Payement Rehabilitation and Bridge Replacement Project	Date:	Julv 2. 2020	

County Montgomery Route SR 59 Des. No. 1593272 & 1701591

- 6. 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. Impacts to non-wetland forest under one acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10 inch dbh or greater (5:1 mitigation based on the number of large trees) or by using the 1:1 replacement ratio based on area depending on the type of habitat impacted (individual canopy tree removal in an urban streetscape or park-like environment versus removal of habitat supporting a tree canopy, woody understory, and herbaceous layer). (IDNR Division of Fish and Wildlife)
- 7. The Division of Fish and Wildlife recommends considering a more sustainable approach to stormwater management. The traditional model of stormwater management aims to drain urban runoff as quickly as possible with the help of channels and pipes, which increases peak flows and costs of stormwater management. This type of solution only transfers flood problems from one section of the basin to another section. A more sustainable approach aims to rebuild the natural water cycle by using storage techniques (retention basins, constructed wetlands, raingardens, etc.), recharging groundwater using infiltration techniques (infiltration basins or trenches, pervious pavement, etc.), and reusing runoff for irrigation elsewhere in the basin. (IDNR Division of Fish and Wildlife)
- 8. 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. (IDNR Division of Fish and Wildlife)
- 9. Riprap or other hard bank stabilization materials should be used only at the toe of the side slopes up to the ordinary high water mark with the exception of areas directly under bridges for instance. The banks above the OHWM should be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. For streambed stabilization or scour protection, riprap or other stabilization materials should not be placed in the active stream channel above the existing streambed elevation. This is to prevent obstructions to the movement of aquatic organisms upstream and downstream. (IDNR Division of Fish and Wildlife)
- 10. 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)
- 11. 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)
- 12. 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)

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.

Re	ma	rks
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Early coordination letters were sent to agencies on March 5, 2020 (Appendix C, pages C-1 to C-5). If a response was not received, it was assumed the agency did not feel the project would result in substantial impacts. See

was not re	was not received, it was assumed the agency did not reel the project would result in substantial impacts. See							
This is page 35 of 36	Project name:	SR 59 Pavement Rehabilitation and Bridge Replacement Project	_ Date: _	July 2, 2020				
Form Version: June 2013 Attachment 2								

County	Montgomery	Route	SR 59	Des. No.	1593272 & 1701591

all responding agency correspondence in Appendix C, pages C-6 to C-71. The following agencies/individuals were contacted during early coordination:

Agency	Date of Response(s)	
INDOT Crawfordsville District (electronic coordination)	No response received	
2. Federal Highway Administration (electronic coordination)	No response received	
3. Natural Resources Conservation Service (electronic coordination)	March 17, 2020	
4. Indiana Geological Survey (electronic submission)	March 5, 2020	
5. IDNR Division of Fish and Wildlife (electronic coordination)	April 3, 2020	
6. IDEM (electronic submission)	March 5, 2020	
7. INDOT Aviation (electronic coordination)	March 9, 2020	
8. INDOT Office of Public Involvement (electronic coordination)	March 5, 2020	
9. U.S. Department of Housing and Urban Development (electronic		
coordination)	No response received	
10. U.S. Army Corps of Engineers, Louisville District (electronic coordination)	No response received	
11. Eighth Coast Guard District, Bridge Program Section	March 12, 2020	
12. U.S. Fish and Wildlife Services (electronic coordination)	March 12, 2020	
13. National Park Service, Midwest Regional Office	No response received	
14. Waveland Strong President	May 14, 2020	
15. Montgomery County Council	No response received	
16. Montgomery County Board of Commissioners	No response received	
17. Montgomery County Surveyor's Office	No response received	
18. Montgomery County Highway Department	No response received	
19. Local Floodplain Administrator	No response received	
20. Waveland Town Council Members	No response received	
21. Montgomery County Community Foundation Board of Directors	No response received	
22. Waveland Christian Church Director	No response received	

This is page 36 of 36	Project name:	SR 59 Pavement Rehabilitation and Bridge Replacement Project	Date:	July 2, 2020

Designation (Des.) Number 1593272 & 1701591 ————

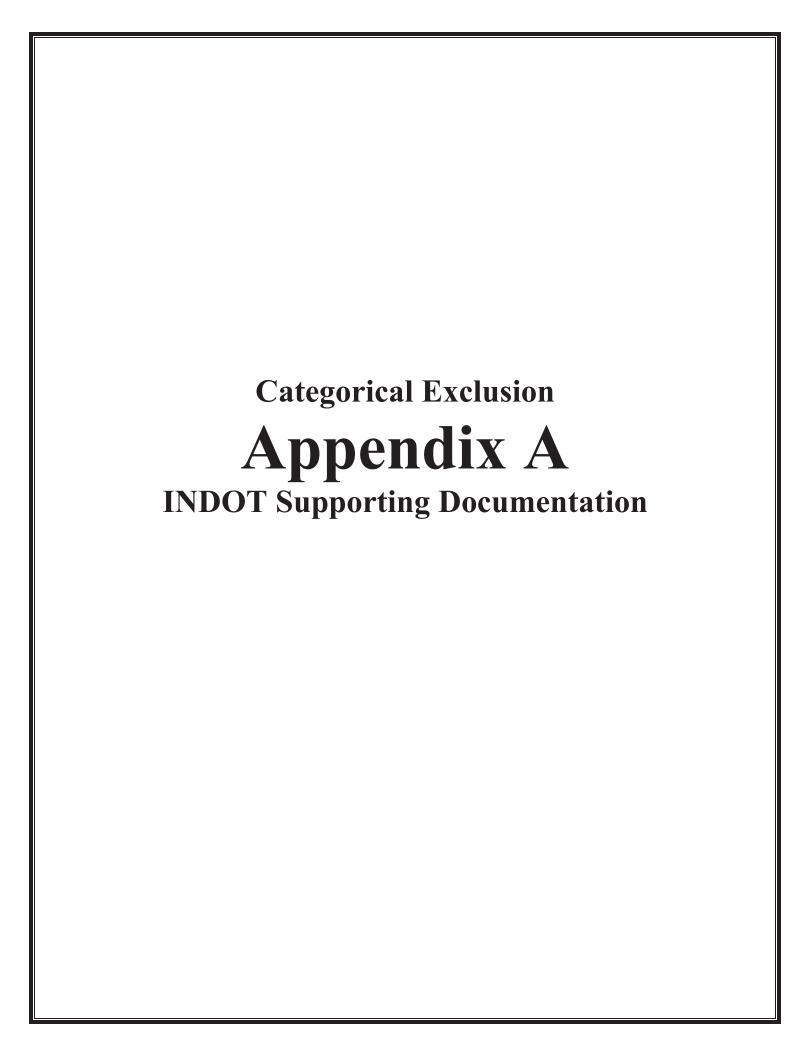
SR 59 Rehabilitation Project – Montgomery County, Indiana

Appendix A: INDOT Supporting Documentation	
Categorical Exclusion Level Thresholds	A-1
Annandiy B: Craphics	
Appendix B: Graphics	D 1
General Location Map	
USGS Topographic Map	
Photographs	
Preliminary Plan Sheets (Road)	
Preliminary Plan Sheets (Rodd)	
Appendix C: Early Coordination	
Sample Early Coordination Letter Sent to Resource Agencies (graphics omitted)	C-1
Indiana Department of Environmental Management (IDEM)	
Roadway Construction Response Letter	C-6
Indiana Department of Natural Resources (IDNR) Division of Fish and Wildlife	
Division of Fish and Wildlife Response Letter	C-16
Indiana Department of Transportation (INDOT)	
Office of Aviation Response E-mail	C-20
Natural Resources Conservation Service (NRCS)	
Response Letter	C-21
Indiana Geological Survey	
Electronic Response	C-22
United States Coast Guard Response E-mail	C 25
·	C-25
Waveland Strong Response E-mail	C 26
U.S. Fish and Wildlife Service (USFWS)	C-26
INDOT District Coordination E-mails	C-28
USFWS Response E-mail	
Information for Planning and Consultation (IPaC) Species List Letter (1593272)	
IPaC Species List Letter (1701591)	
IPaC Concurrence Verification Letter (1593272)	
IPaC Concurrence Verification Letter (1701591)	
Appendix D: Cultural Resources	
• •	D 1
800.11 (e) Documentation (some graphics omitted)	
State Historic Preservation Officer (SHPO) 800.11 (e) Concurrence Letter	
State historic Freservation Officer (SHFO) 800.11 (e) Concurrence Letter	D-73
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Red Flag Investigation	E-1
Appendix F: Water Resources	
Waters of the U.S. Report	
Waters of the U.S. Report Approval Email	F-12
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Sample Notice of Entry for Survey or Investigation Letter	G-1

Designation (Des.) Number 1593272 & 1701591 ———

SR 59 Rehabilitation Project – Montgomery County, Indiana

Appendix H: Air Quality 2020-2024 Statewide Transportation Improvement Program (STIP) (relevant	pages)H-1
Appendix I: Additional Studies	
INDOT Bridge Inspection	l-1
Engineers Mini Scope Report	I-10
Environmental Justice Study	I-13
Land Water Conservation Fund Listing	I-18



Des. Numbers 1593272 & 1701591 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
Air Quality Analysis Required	No	-	-	-	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.

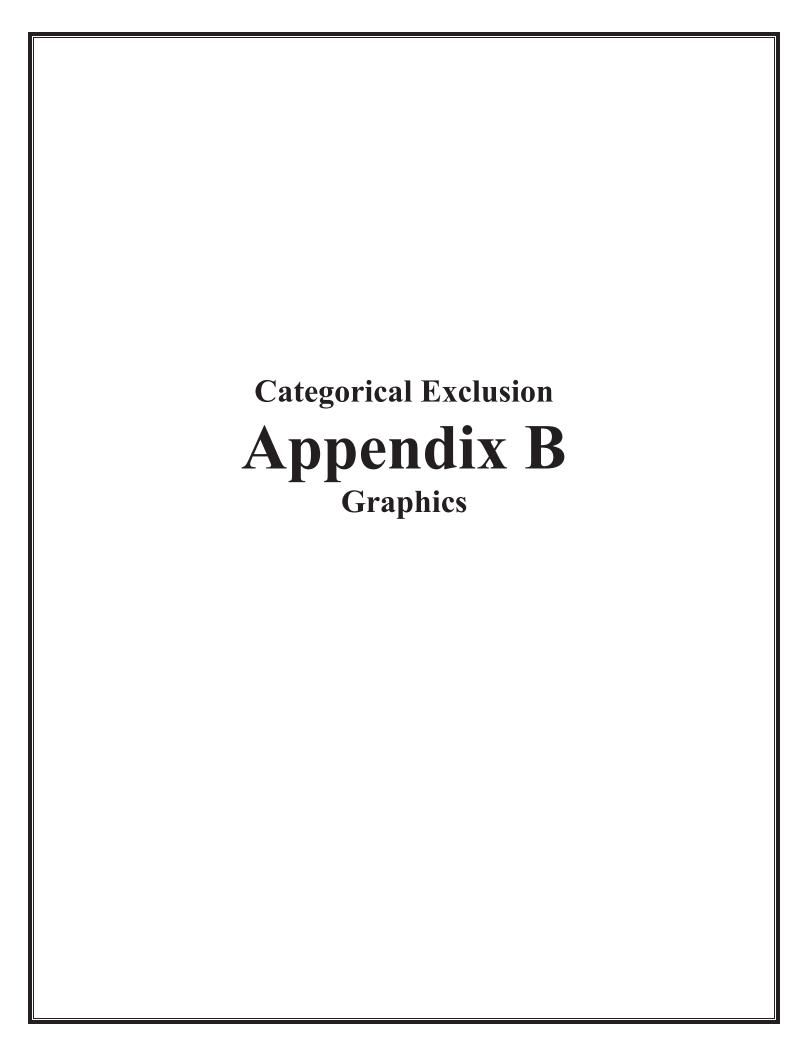
⁴AMMs = Avoidance and Mitigation Measures.

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.

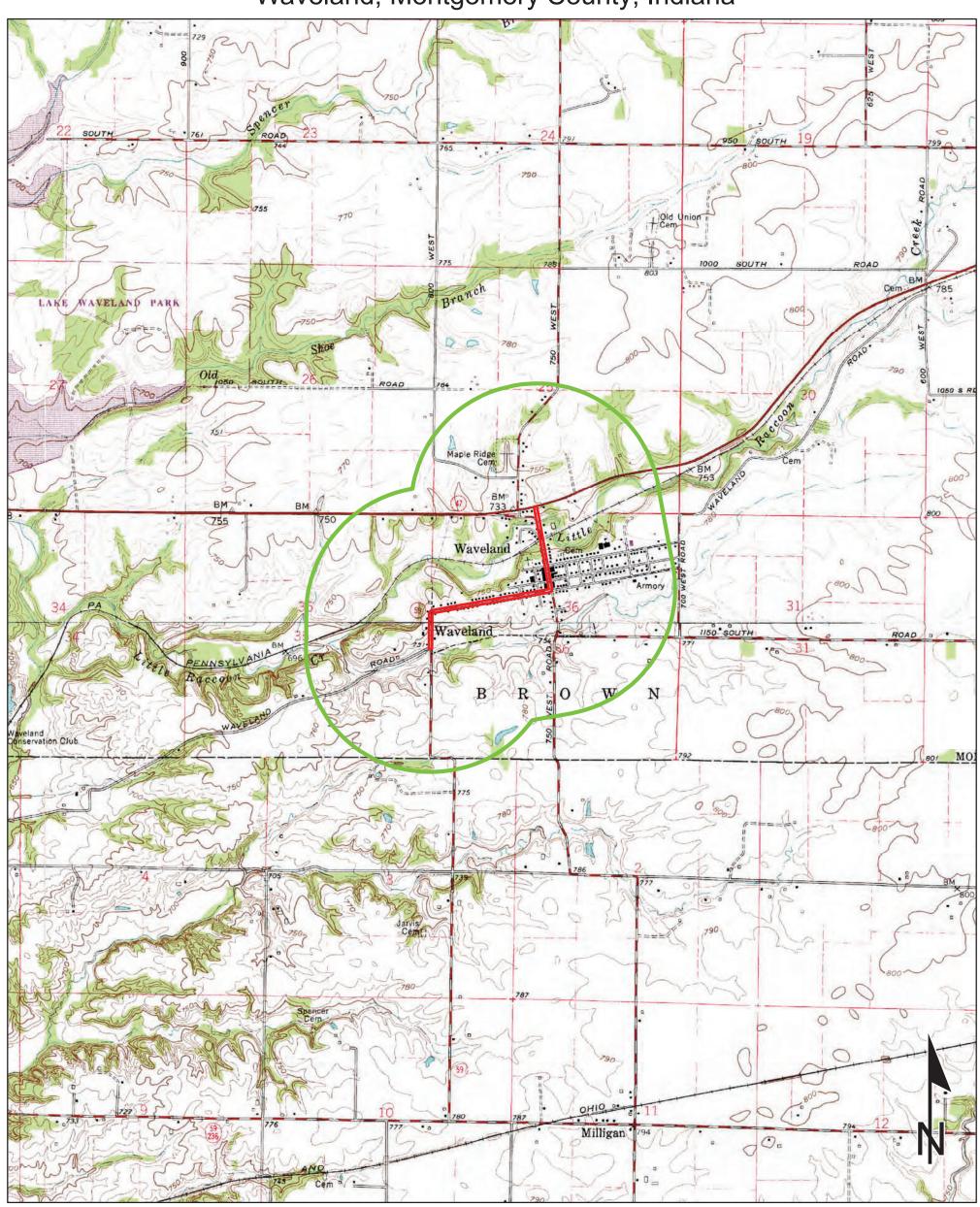
^{*}Substantial public or agency controversy may require a higher-level NEPA document.





Red Flag Investigation - Site Location SR 59, from CR 1150 South to SR 47

Des. Nos. 1593272 & 1701591, Pavement Rehabilitation & Bridge Replacement Waveland, Montgomery County, Indiana



Sources: 0.5 0.25 0 0.5

Non Orthophotography

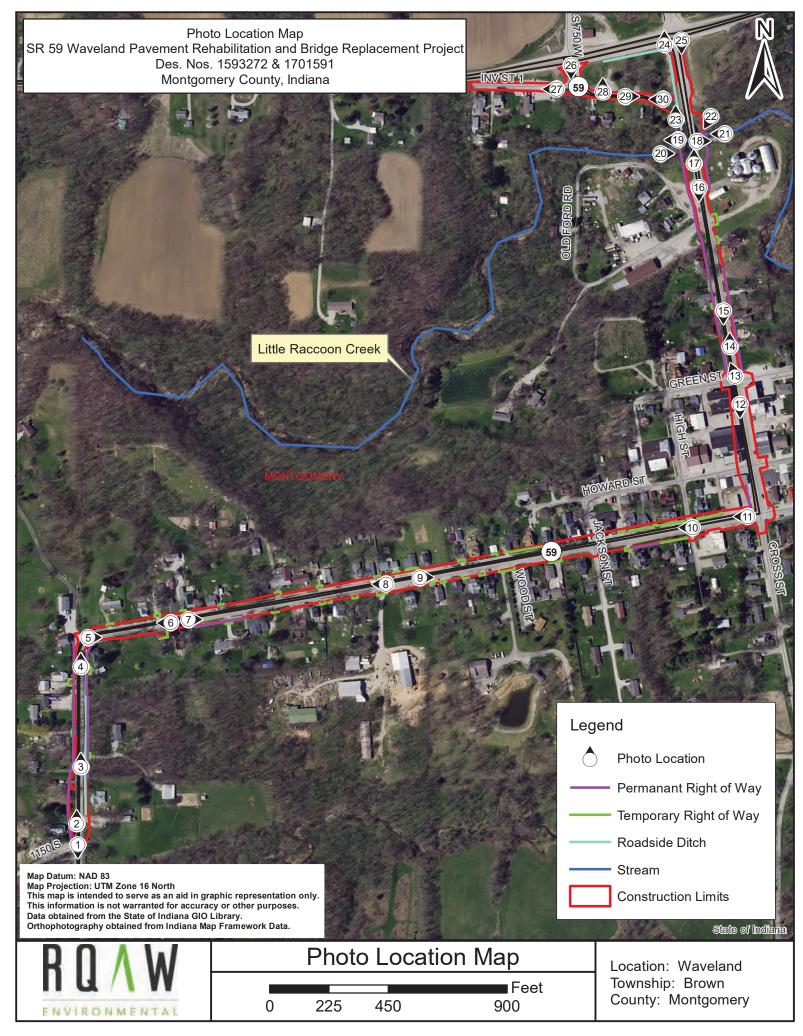
Data - Obtained from the State of Indiana Geographical
Information Office Library

Orthophotography - Obtained from Indiana Map Framework Data
(www.indianamap.org)

Map Projection: UTM Zone 16 N Map Datum: NAD83

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

BELLMORE & ALAMO
QUADRANGLES
INDIANA
7.5 MINUTE SERIES
(TOPOGRAPHIC)





1. From the SR 59 and CR 1150 intersection looking south at SR 59 and adjacent landscape $\frac{1}{2}$



2. From the SR 59 and CR 1150 intersection looking north at SR 59 and adjacent landscape $\,$



3. From approximately 0.05 mile north of the SR 59 and CR 1150 intersection looking north at SR 59 (roadside ditch (RSD) 1 shown right)



4. From approximately 0.12 mile north of the SR 59 and CR 1150 intersection looking north at SR 59 and adjacent landscape



5. From approximately 0.49 mile west of the SR 59 (Main Street) and Cross Street intersection looking east at SR 59 and sidewalk



6. From approximately 0.43 mile west of the SR 59 (Main Street) and Cross Street intersection looking west at SR 59 and sidewalk



 $7.\ From\ approximately\ 0.43\ mile\ west\ of\ the\ SR\ 59\ (Main\ Street)\ and\ Cross\ Street\ intersection\ looking\ east\ at\ SR\ 59\ and\ sidewalk$



8. From approximately 0.27 mile west of the SR 59 (Main Street) and Cross Street intersection looking west at SR 59 and adjacent landscape



9. From approximately 0.43 mile west of the SR 59 (Main Street) and Cross Street intersection looking east at SR 59 and sidewalk



10. From approximately 0.05 mile west of the SR 59 (Main Street) and Cross Street intersection looking west at SR 59 and street scape $\frac{1}{2}$



11. From the SR 59 (Main Street) and Cross Street intersection looking west at SR 59 and adjacent land scape $\,$



 $12. From the SR \, 59 \ (Cross \, Street) \ and \ Green \, Street \ intersection \ looking \, south \ at \, SR \, 59 \ and \, sidewalk$



13. From the SR 59 (Cross Street) and Green Street intersection looking north at SR 59 and sidewalk



14. From the SR 59 (Cross Street) and Green Street intersection looking north at sidewalk and adjacent memorial



 $15.\ From\ approximately\ 0.05\ mile\ north\ of\ the\ SR\ 59\ (Cross\ Street)\ and\ Green\ Street\ intersection\ looking\ south\ at\ SR\ 59\ and\ sidewalk$



16. From just south of Structure No. 059-54-05061 looking south at SR 59 (Cross Street) and adjacent land scape



17. From just south of Structure No. 059-54-05061 looking north at SR 59 (Cross Street) and structure number 059-54-05061



18. From on top Structure No. 059-54-05061 looking east at Little Raccoon Creek (upstream)



19. From on top Structure No. 059-54-05061 looking west at Little Raccoon Creek (downstream)



20. From Little Raccoon Creek looking east at Structure No. 059-54-05061 (upstream)



21. From underneath Structure No. 059-54-05061 looking west at Little Raccoon Creek (downstream)



22. From southwest quadrant of Structure No. 059-54-05061 looking northeast at Structure No. 059-54-05061



 $23.\ From\ northwest\ quadrant\ of\ Structure\ No.\ 059-54-05061\ looking\ north\ at\ roadside\ ditch\ and\ SR\ 59$



24. From the SR 59 (Cross Street) and SR 47 intersection looking north at gas station



25. From the SR 59 (Cross Street) and SR 47 intersection looking south at SR 59 and adjacent land scape



 $26.\ From\ approximately\ 0.05$ mile west of the SR 47 and SR 59 intersection looking south at Old SR 59 and residential property



27. From old SR 59 looking west at commercial property



28. From Old SR 59 looking north at agricultural/residential area



29. From Old SR 59 looking east at roadway and residential area



30. From Old SR 59 looking west at roadway/residential area

PROJECT	DESIGNATION
1593272	1593272
CONTRACT	BRIDGE FILE
RS-39363	

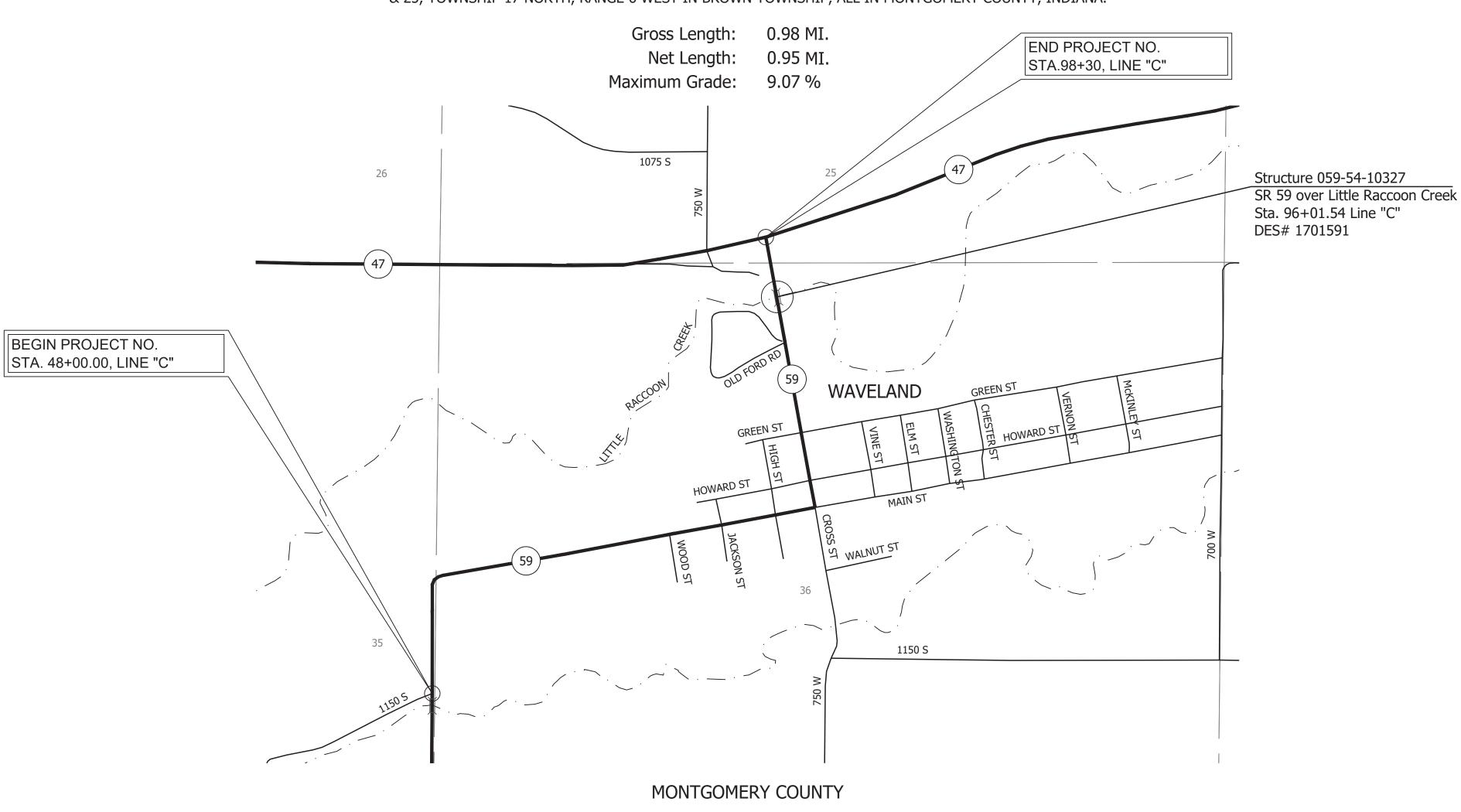
INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS
STATE ROAD 59

PROJECT NO. 1593272 P.E.
1593272 R/W
1593272 CONST.

STATE ROAD 59 REHABILITATION BEGINNING AT A POINT WITH THE INTERSECTION OF COUNTY ROAD 1150 SOUTH EXTENDING NORTHWARD THROUGH THE TOWN OF WAVELAND TO THE INTERSECTION OF STATE ROAD 59 AND STATE ROAD 47 IN SECTIONS 35, 36, & 25, TOWNSHIP 17 NORTH, RANGE 6 WEST IN BROWN TOWNSHIP, ALL IN MONTGOMERY COUNTY, INDIANA.



TRAFFIC DATA		LINE "C"	ı
A.A.D.T.	(2018)	1,970	V.P.D.
A.A.D.T.	(2042)	2,045	V.P.D.
D.H.V.	(2042)	197.3	V.P.H.
DIRECTIONAL DIS	STRIBUTION	9.50 %	A.A.D.T.
TRUCKS		10.77 %	D.H.V.
	_		

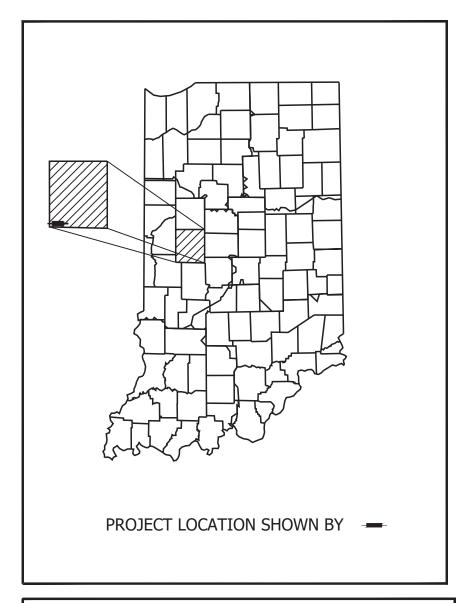
DESIGN DATA	STA. 48+00 TO 54+00 LINE "C"
DESIGN SPEED	40 M.P.H
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	STATE COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL

NONE

FSI	GN	DATA		
ノレシリ			CT A	E4 - 00 TO 00 - 20 LT

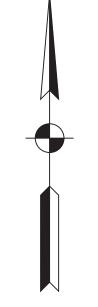
ACCESS CONTROL

	31A. 34100 10 30130 LINE C
DESIGN SPEED	30 M.P.H
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	STATE COLLECTOR
RURAL/URBAN	URBAN (INTERMEDIATE)
TERRAIN	LEVEL
ACCESS CONTROL	NONE



BEGIN:	LATITUDE:	39° 52' 25" N	LONGITUDE:	87° 03' 14" W
				0, 00 - 1 11

D:	LATITUDE:	39° 52' 55" N	LONGITUDE:	87° 02' 45" W	



SCALE: 1" = 500'

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2020 TO BE USED WITH THESE PLANS.

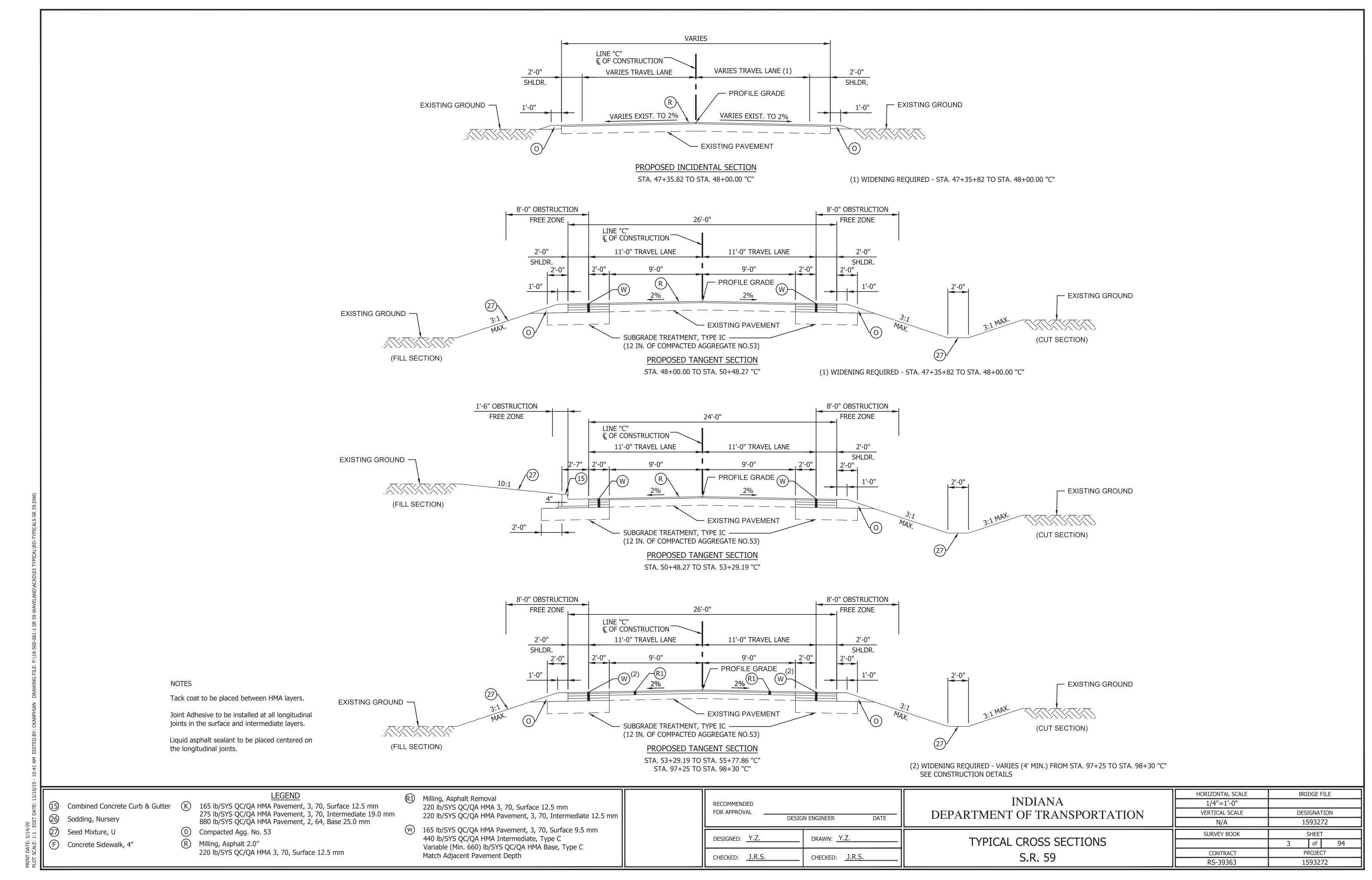
DOAW	8770 NORTH ST., STE. 110 FISHERS, IN 46038
n ij /\ w	P: 317.588.1798
11 0 /	F: 317.588.1799
INTENTIONAL INNOVATION	WWW.RQAW.COM

PLANS PREPARED BY:	RQAW Corporation, Inc.	317-815-7200
CERTIFIED BY:		PHONE NUMBER
APPROVED		DATE
FOR LETTING: _	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

	DESIGNATION			
	1593272			
SURVEY BOOK	SHEET			
	1	of	94	
CONTRACT	PROJECT			
RS-39363	1593272			

Des. Nos. 1593272 & 1701591

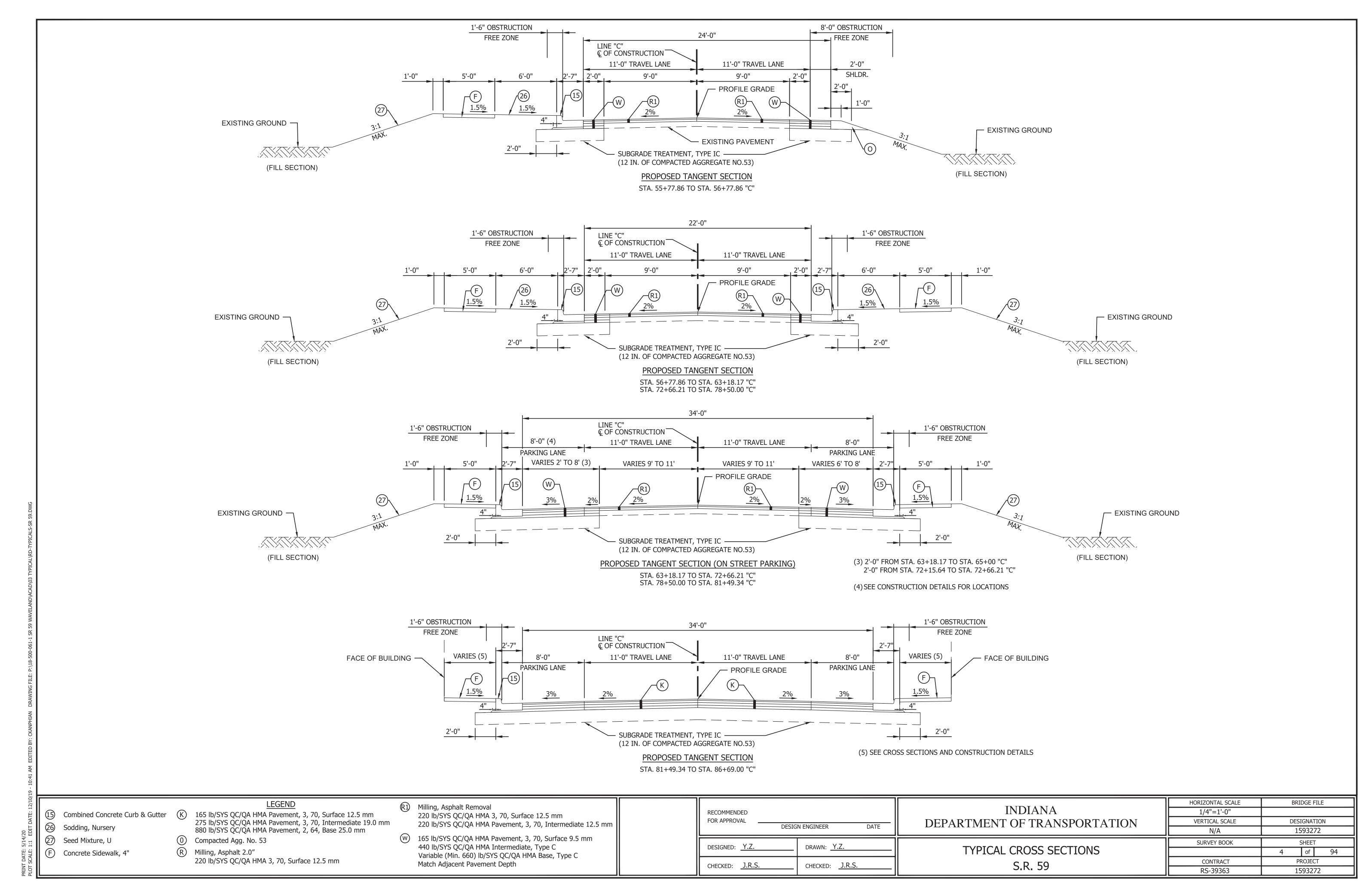
BRIDGE FILE



Des. Nos. 1593272 & 1701591

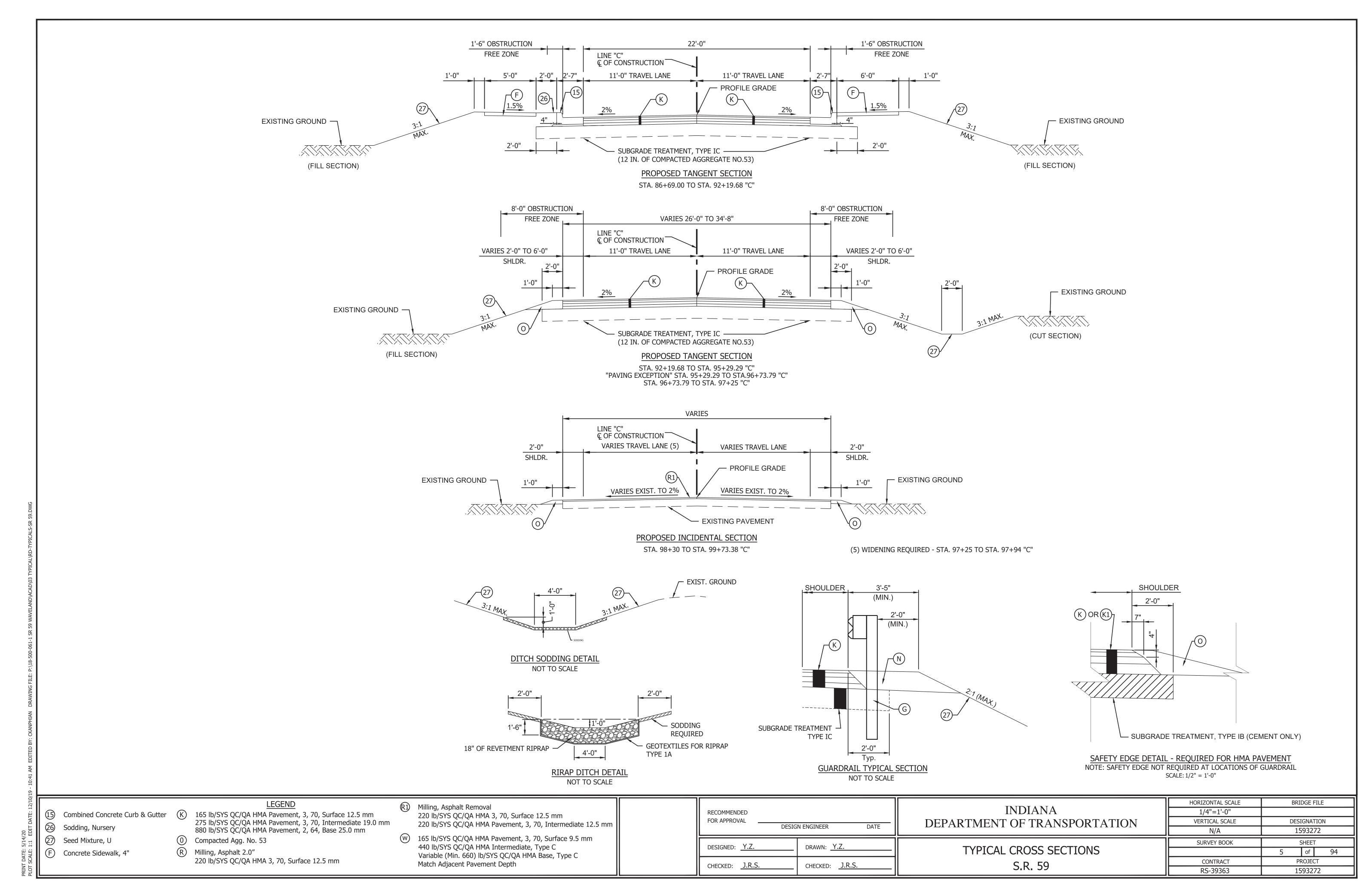
Appendix B: Graphics

R-20



B-21

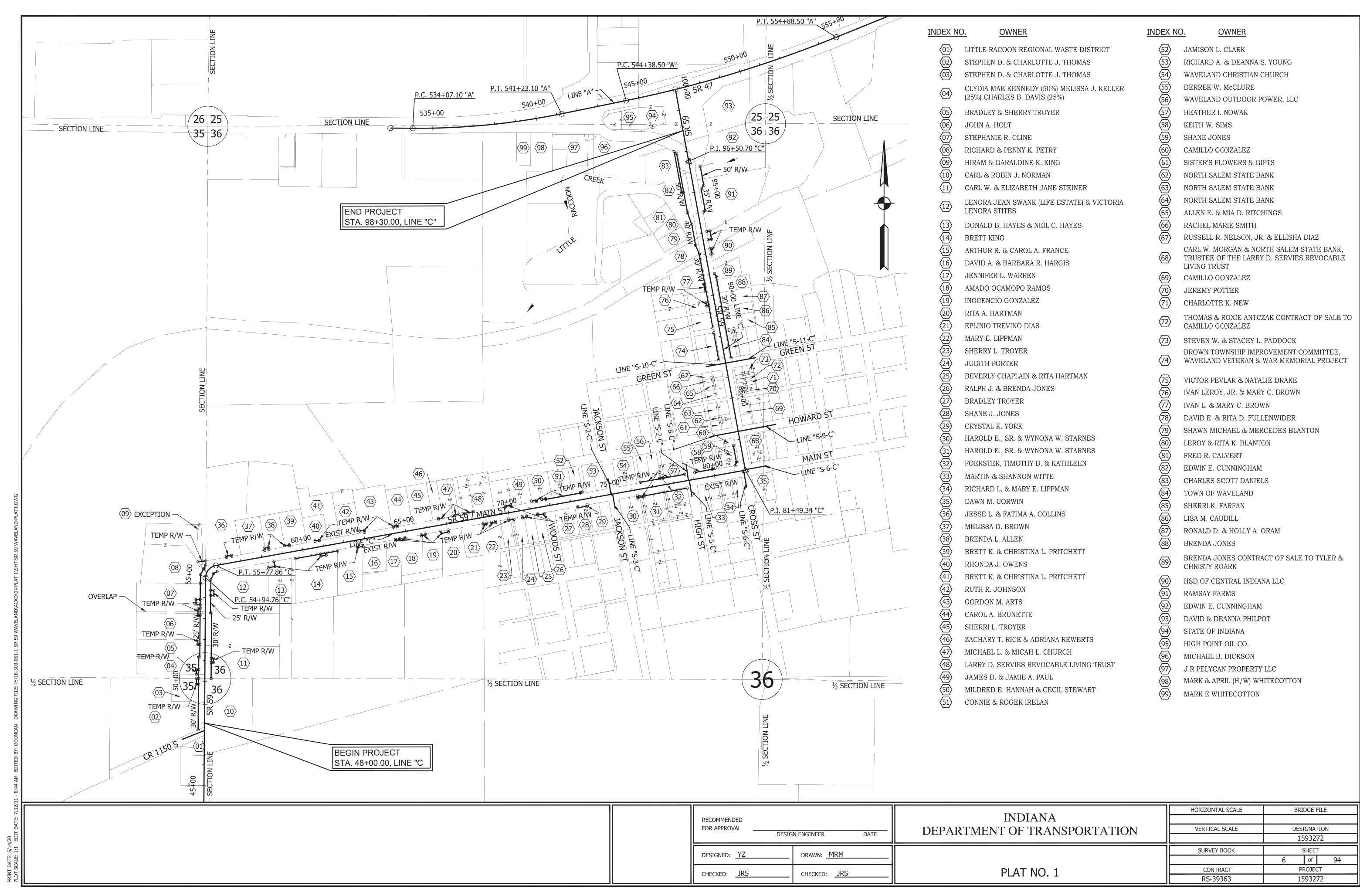
Appendix B: Graphics

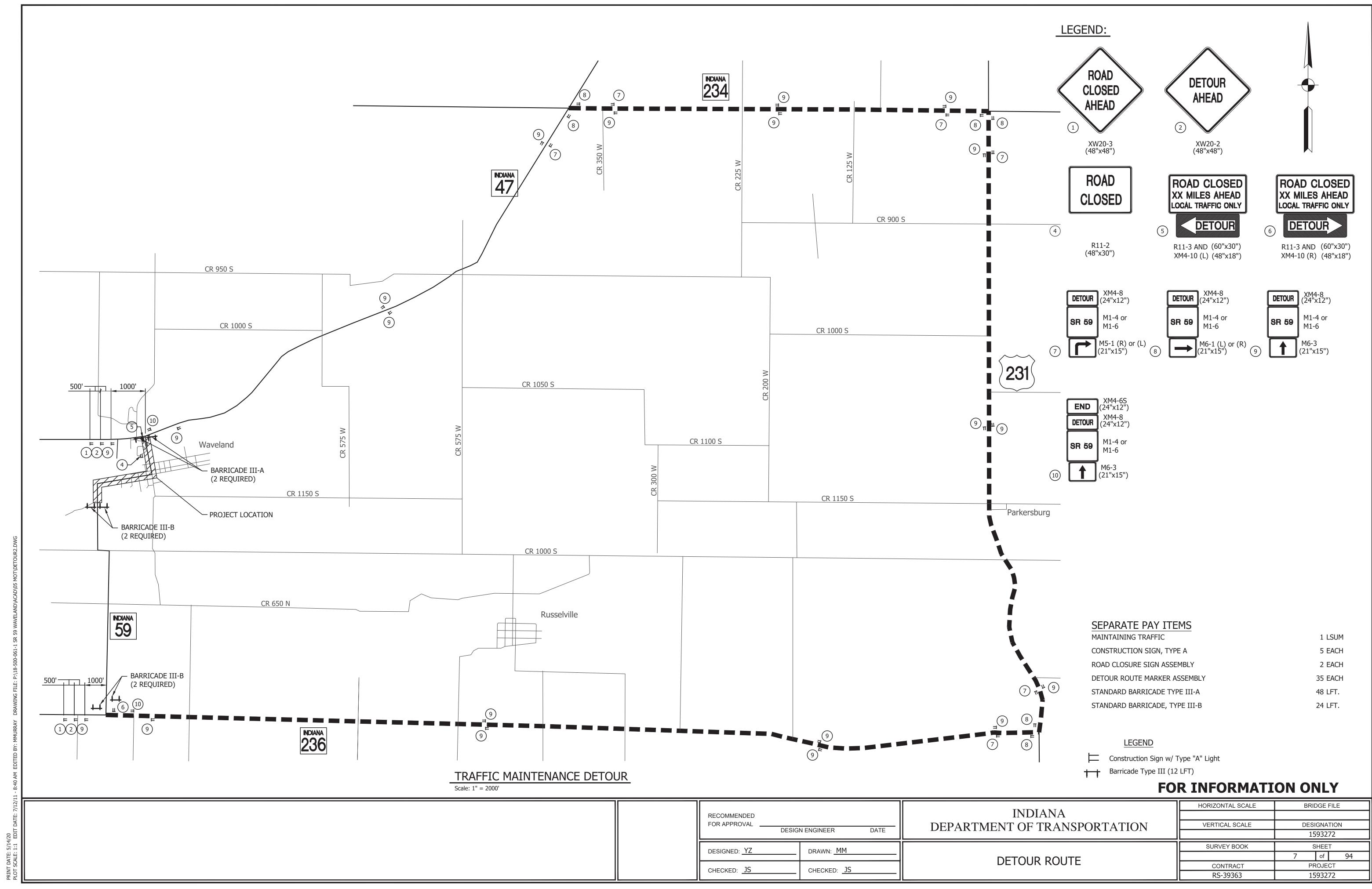


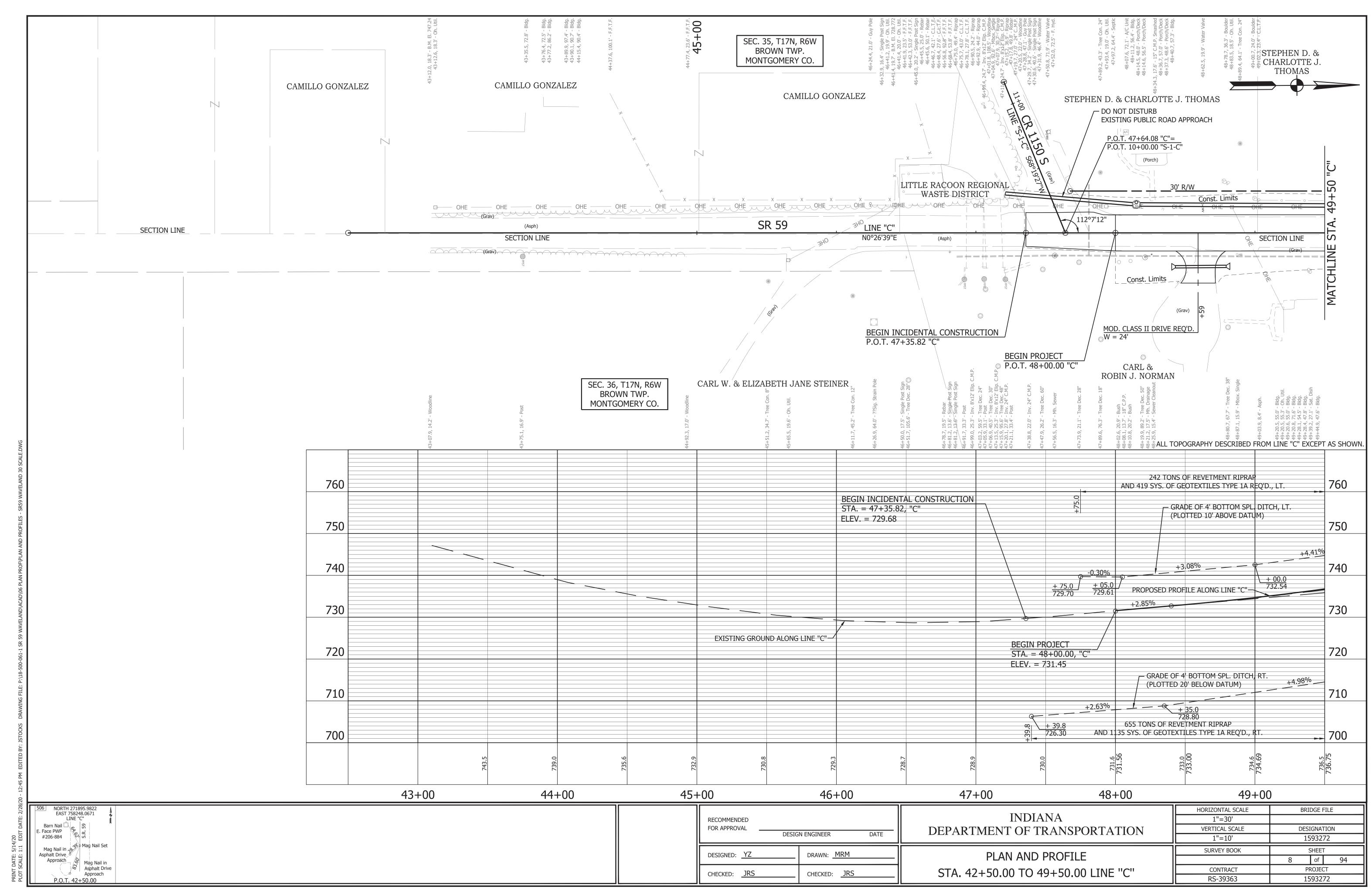
Des. Nos. 1593272 & 1701591

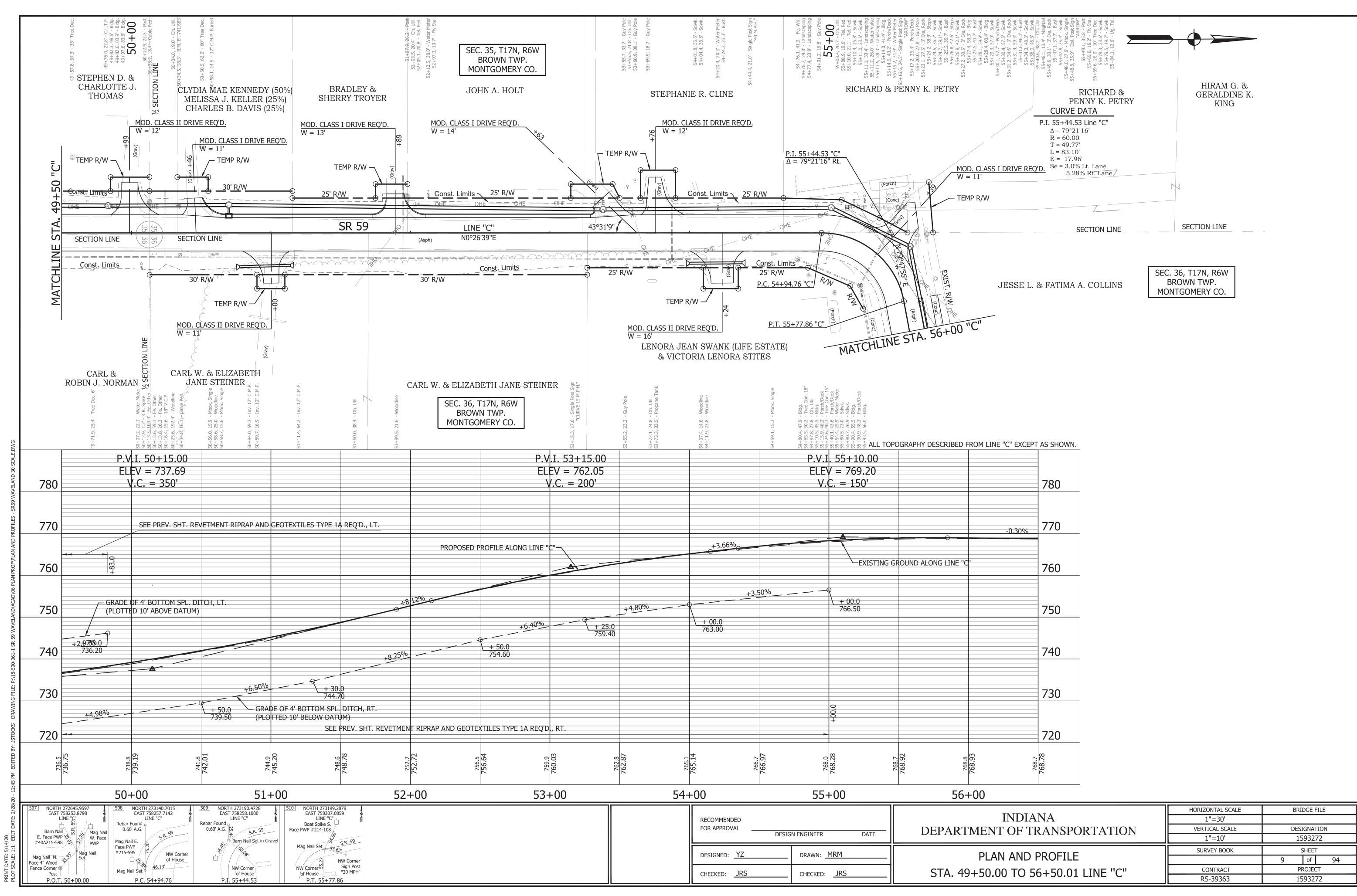
Appendix B: Graphics

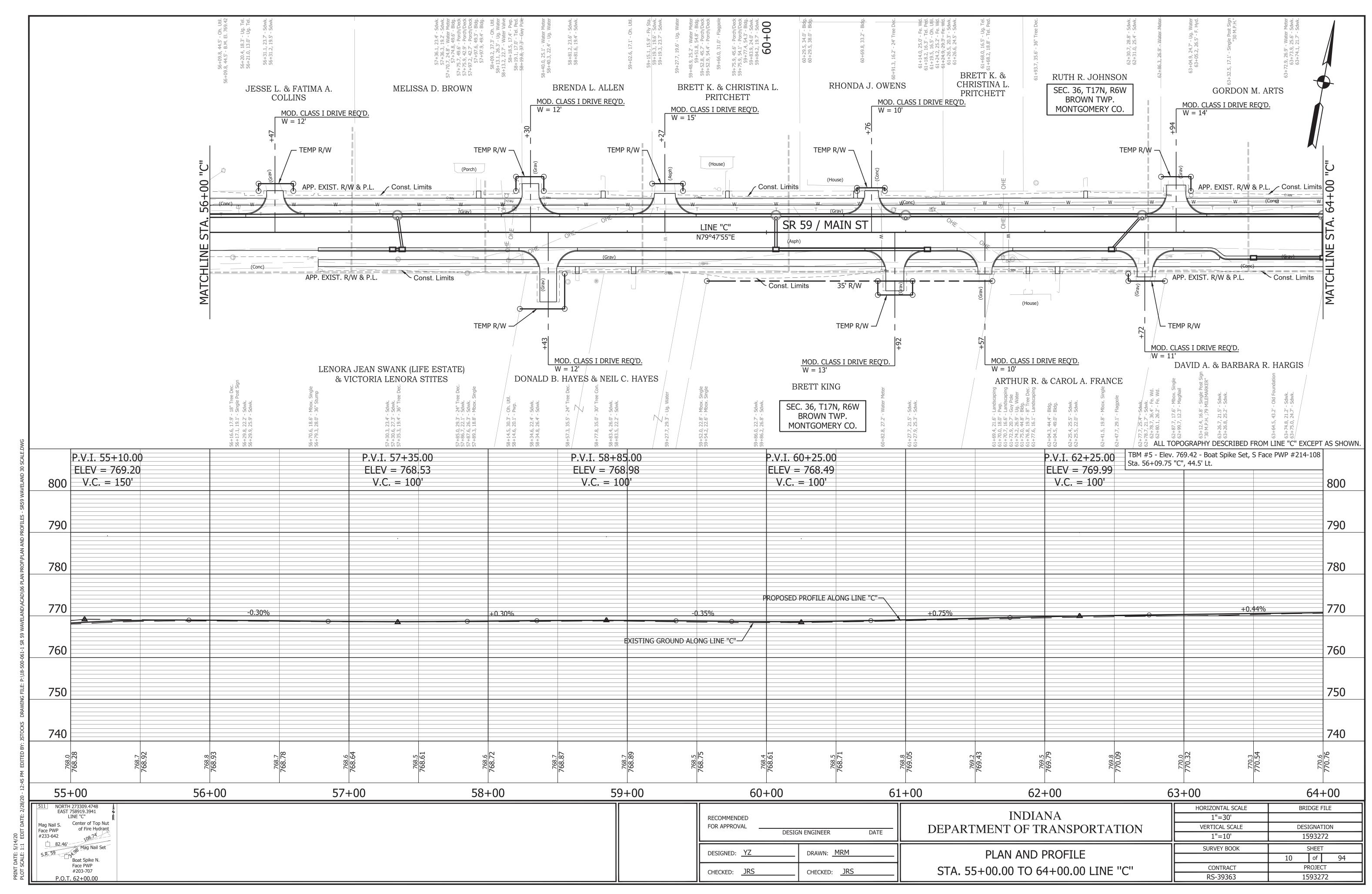
B-22

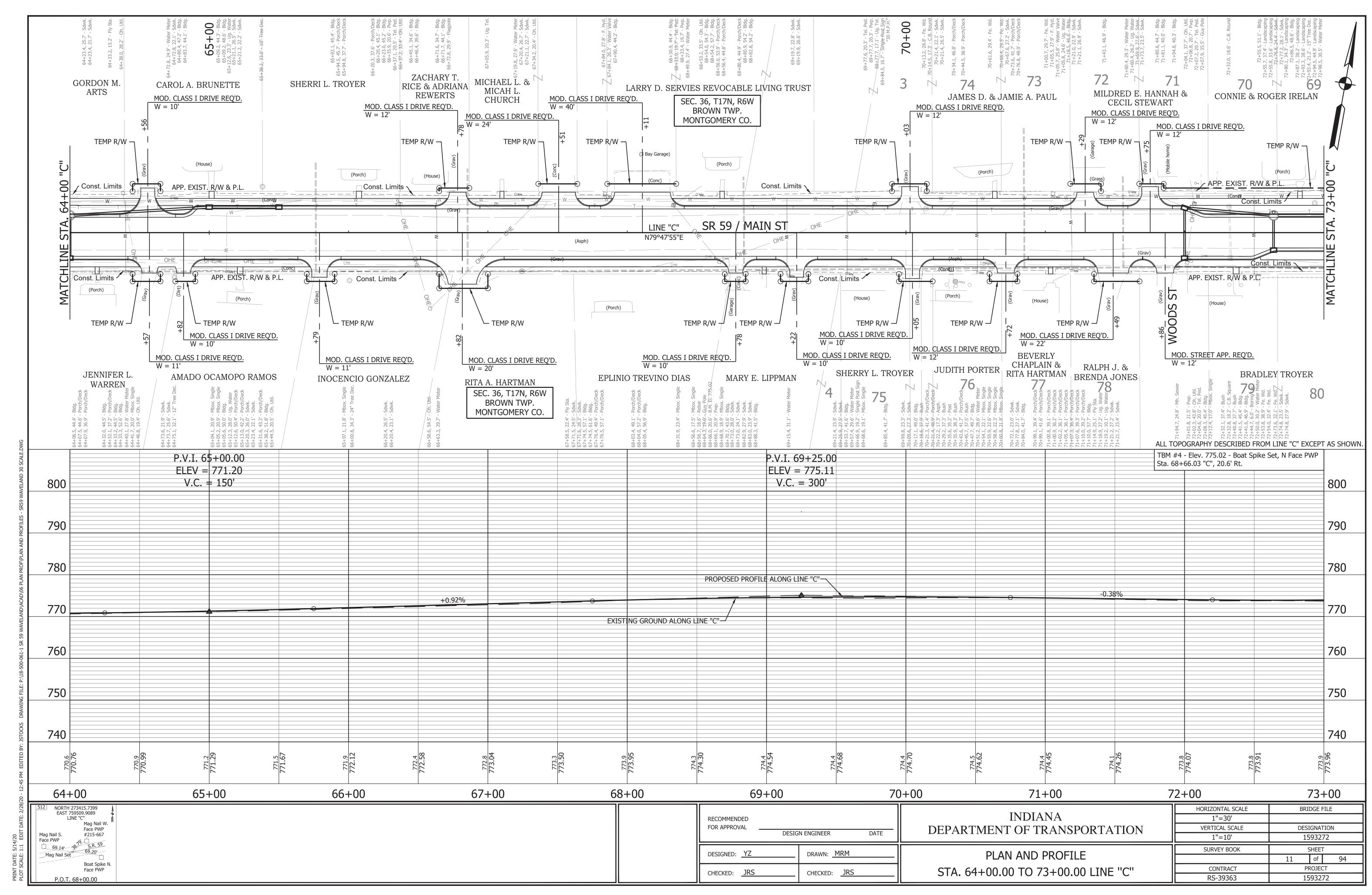






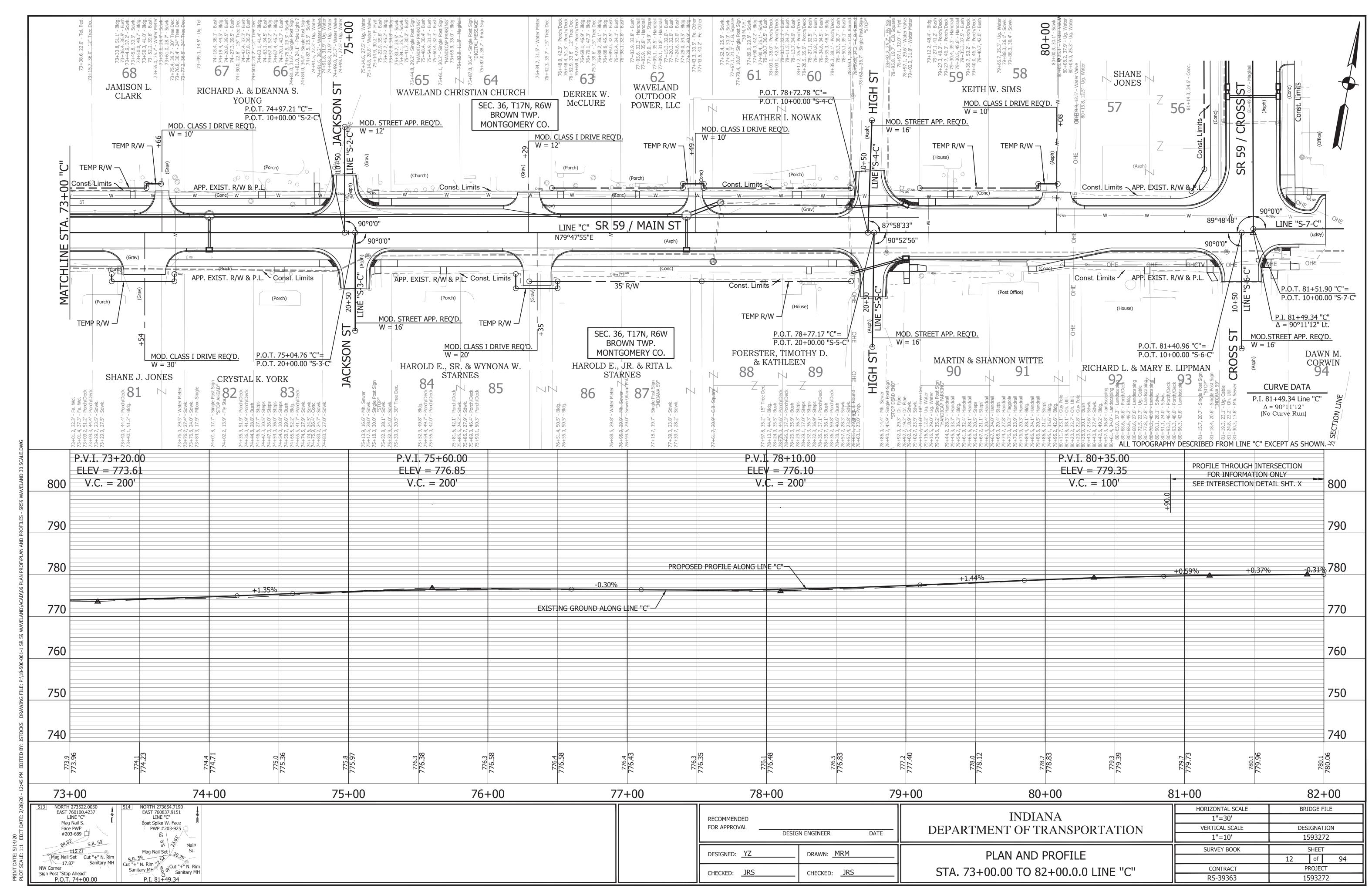






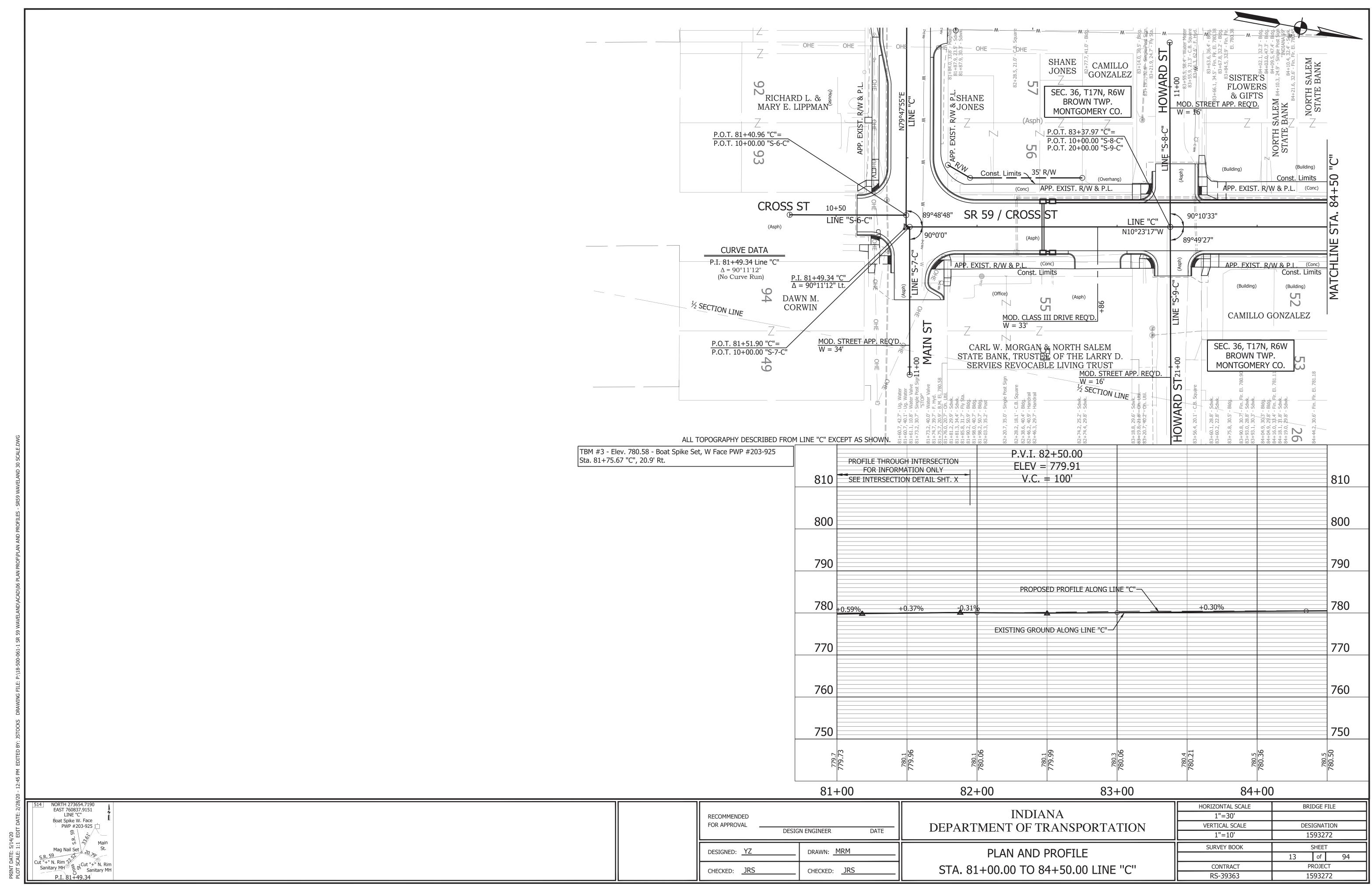
Appendix B: Graphics

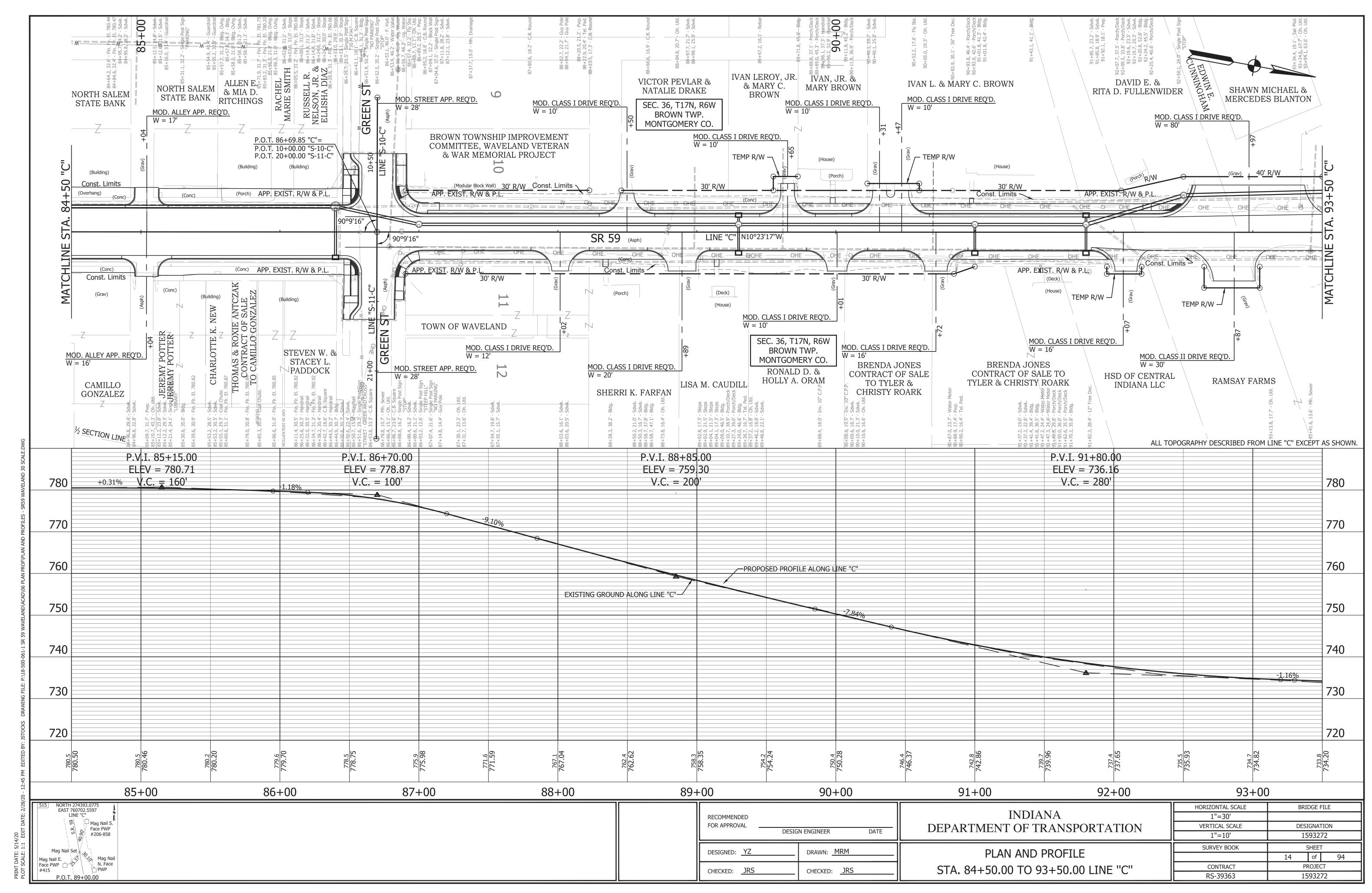
B-28

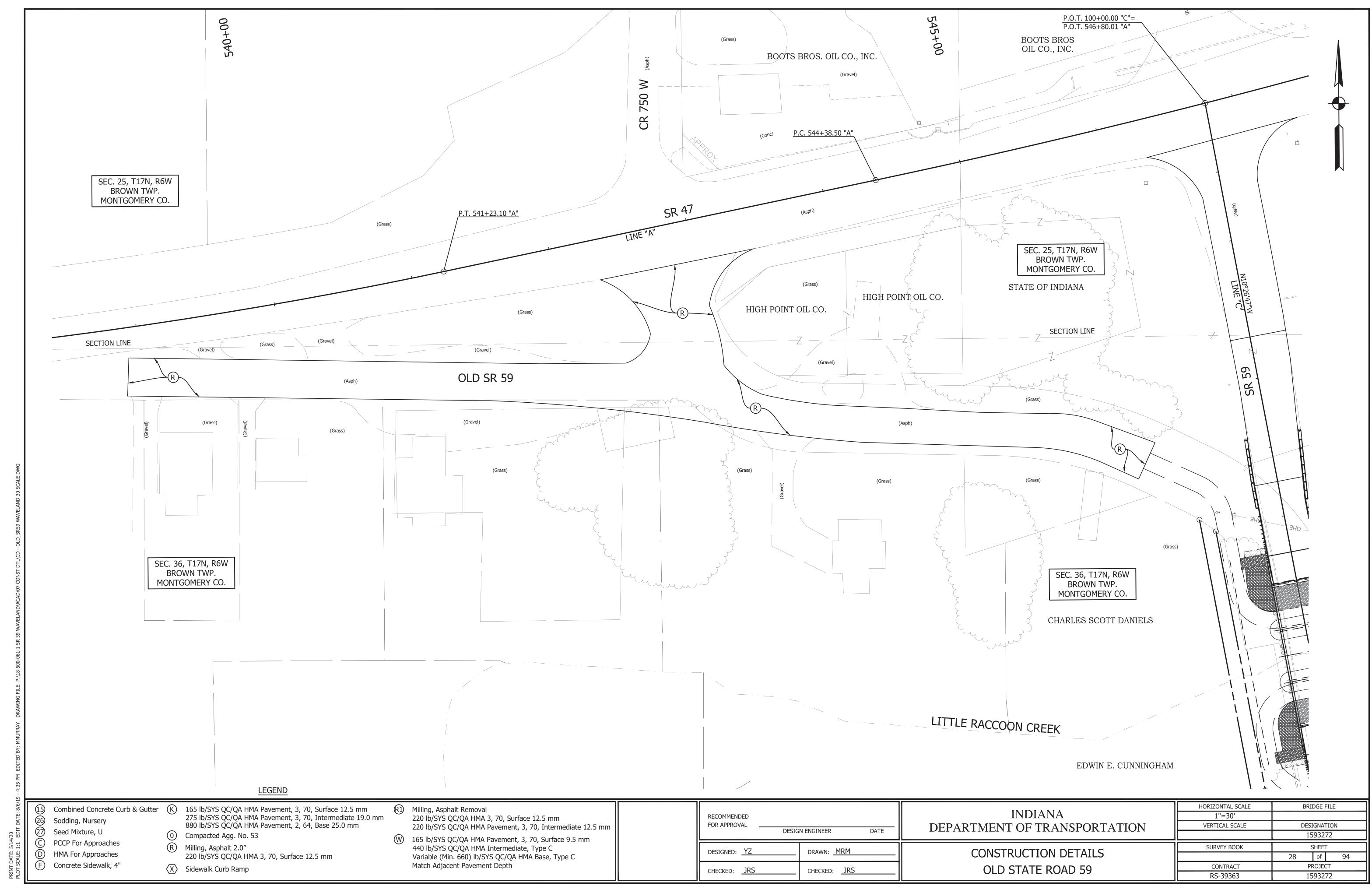


Appendix B: Graphics

B-29







Des. Nos. 1593272 & 1701591

Appendix B: Graphics

B-32

PROJECT	DESIGNATION
1593272	1701591
CONTRACT	BRIDGE FILE
RS-39363	059-54-10327

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
059-54-10327	CONTINUOUS REINFORCED CONCRETE SLAB	3 SPANS: 32'-0", 38'-0", 32'-0" SKEW: SQUARE	LITTLE RACCOON CREEK	96+01.54 LINE "C"

KIN PROJECT INFORMATION		
DESIGNATION	PROJECT DESCRIPTION	
1593272	SR 59 RECONSTRUCTION AND RESURFACE (LEAD DES)	
1701591	SR 59 OVER LITTLE RACCOON CREEK BRIDGE REPLACEMENT	

INDIANA DEPARTMENT OF TRANSPORTATION

NOTE TO REVIEWER:
TRAFFIC DATA SHOWN IS PRELIMINARY AND
BASED ON NEARBY PROJECT ON SR59



BRIDGE PLANS

FOR SPANS OVER 20 FEET

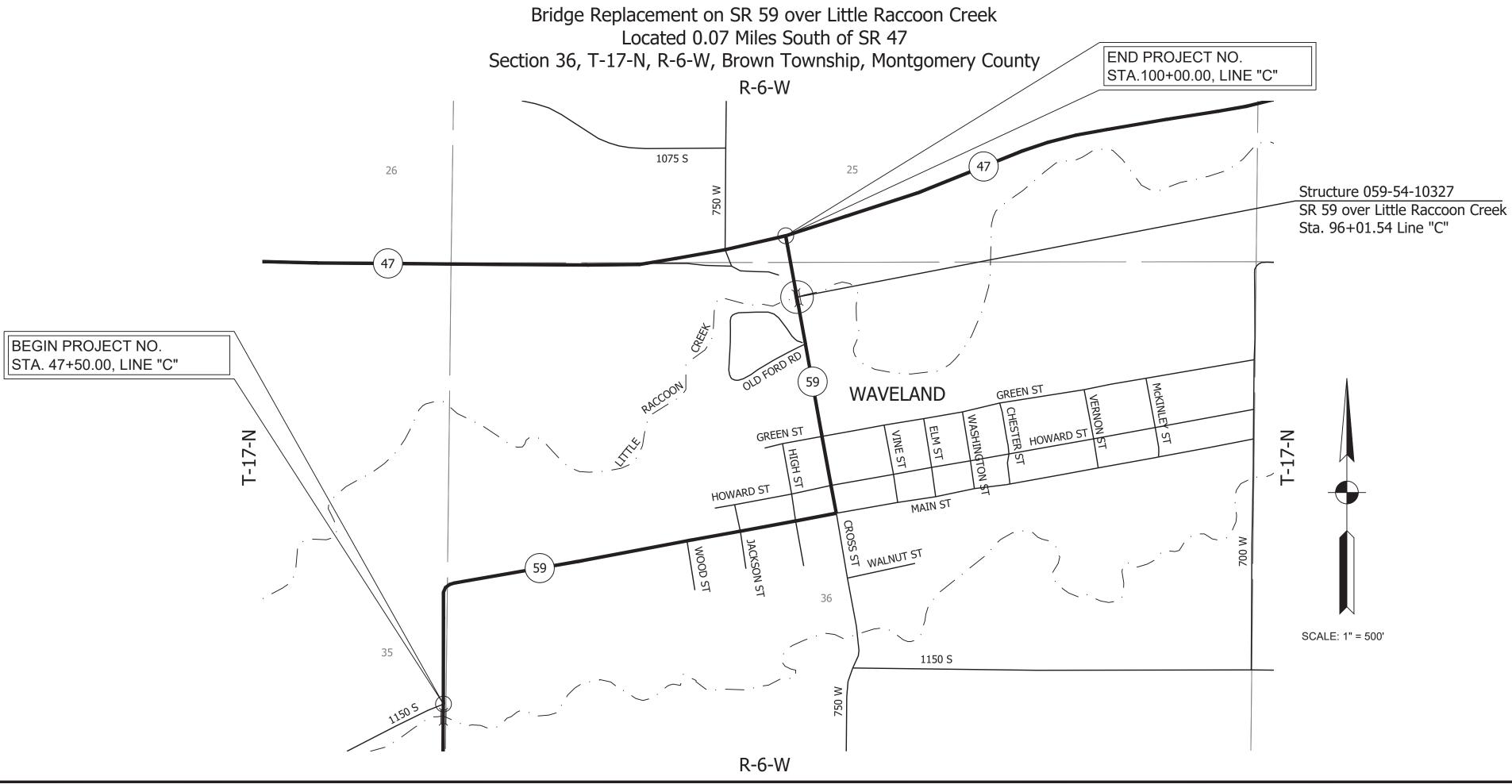
SR 59

ROUTE: PROJECT NO.

AT: RP 79+62 1701591 P.E.

ADDITIONAL RIGHT-OF-WAY REQUIRED TO BE ACQUIRED UNDER THE LEAD DES 1593272.

1701591 CONST.



 TRAFFIC DATA

 A.A.D.T.
 (2018)
 1,111 V.P.D.

 A.A.D.T.
 (2041)
 1,350 V.P.D.

 D.H.V.
 (2041)
 145.4 V.P.H.

 DIRECTIONAL DISTRIBUTION
 9.50 % A.A.D.T.

 TRUCKS
 10.77 % D.H.V.

DESIGN DATA

DESIGN SPEED	30 M.P.H	
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	STATE COLLECTOR	
RURAL/URBAN	RURAL	
TERRAIN	LEVEL	
ACCESS CONTROL	NONE	



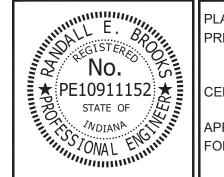
LATITUDE: 39° 52' 51" N	LONGITUDE:	87° 02' 44" W

BRIDGE LENGTH:	0.027	MI.
ROADWAY LENGTH:	0.967	MI.
TOTAL LENGTH:	0.994	MI.
MAX. GRADE:	5.400	%
•		-

HUC: 051201081302

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2020 TO BE USED WITH THESE PLANS



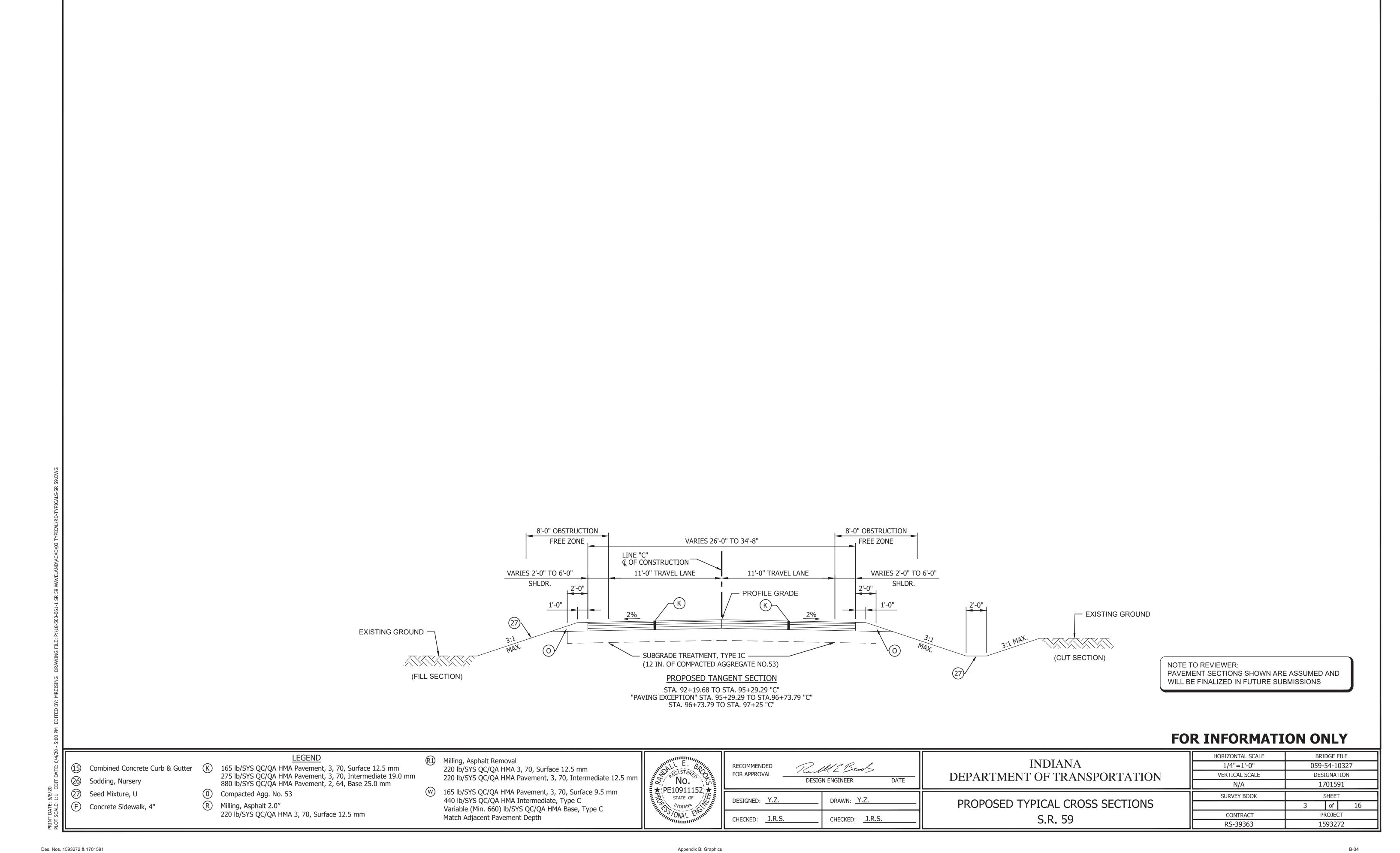


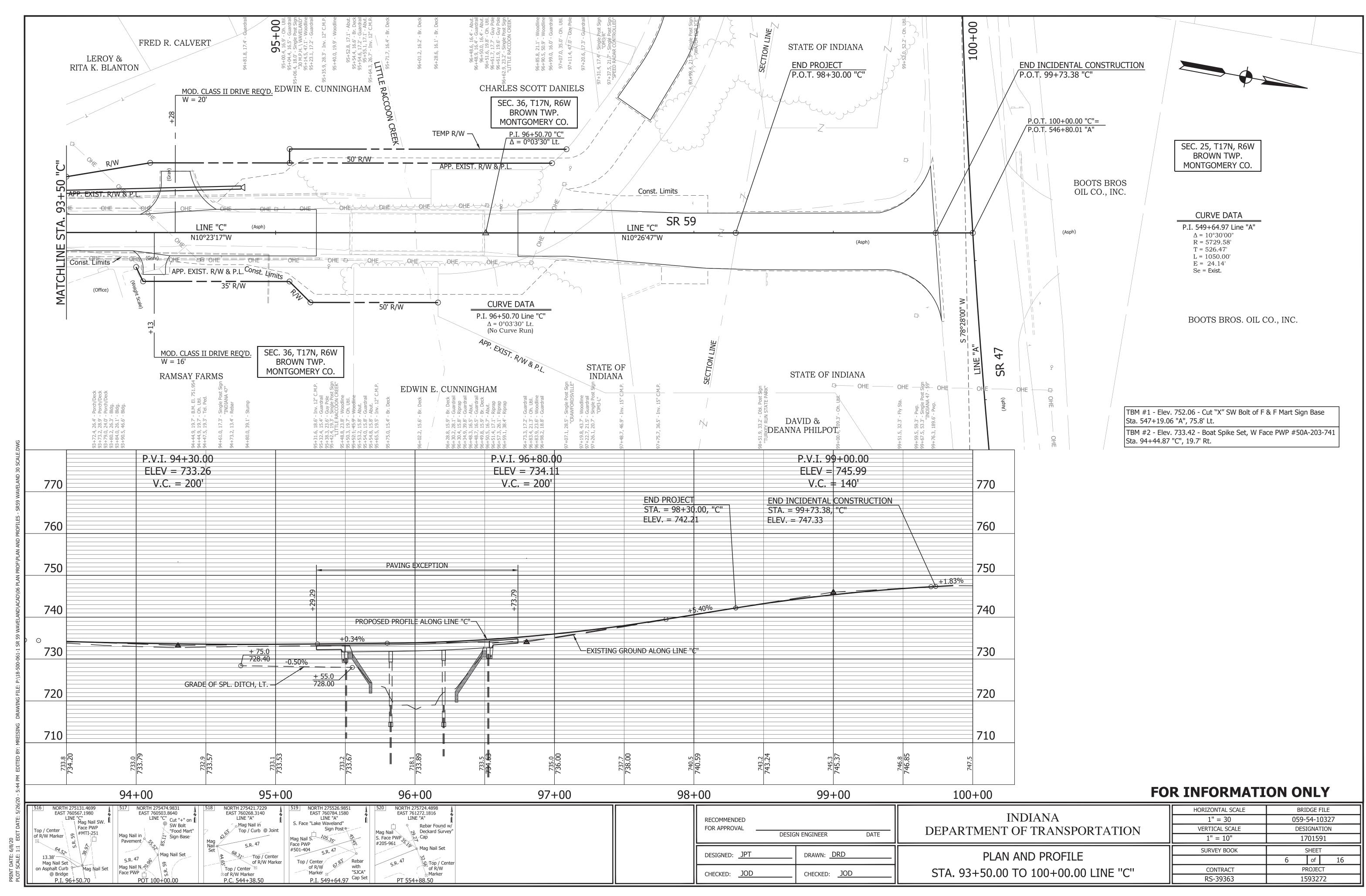
PLANS		
PREPARED BY:	RQAW Corporation, Inc.	317-588-1798
		PHONE NUMBER
CERTIFIED BY:	Roll E Brook	
APPROVED FOR LETTING:		DATE
	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

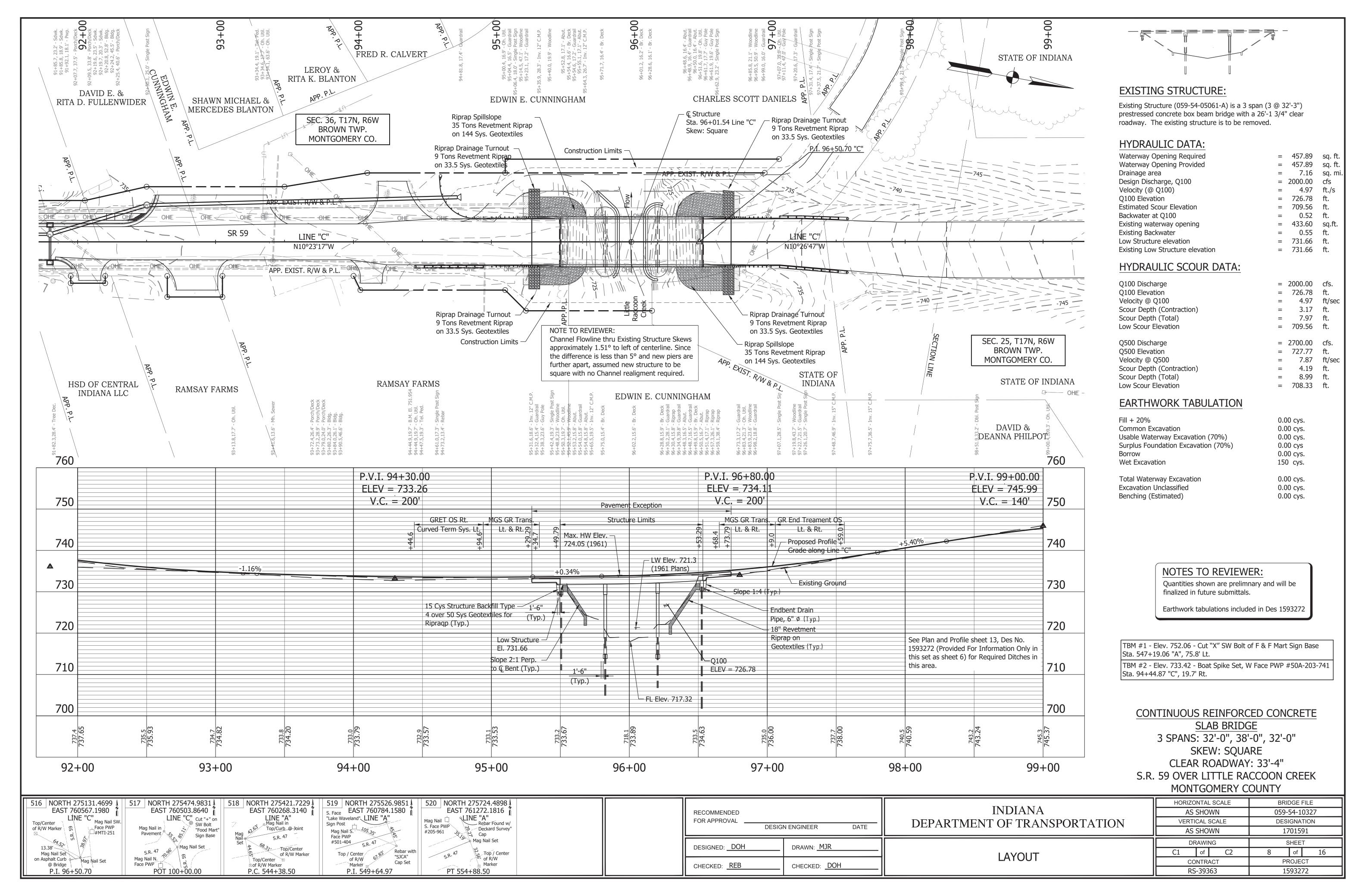
	BINDOLTILL		
	059-54-10327		
	DESIGNATION		NC
	1701591		
SURVEY BOOK	SHEET		
	1	of	16
CONTRACT	PROJECT		
RS-39363	1593272		

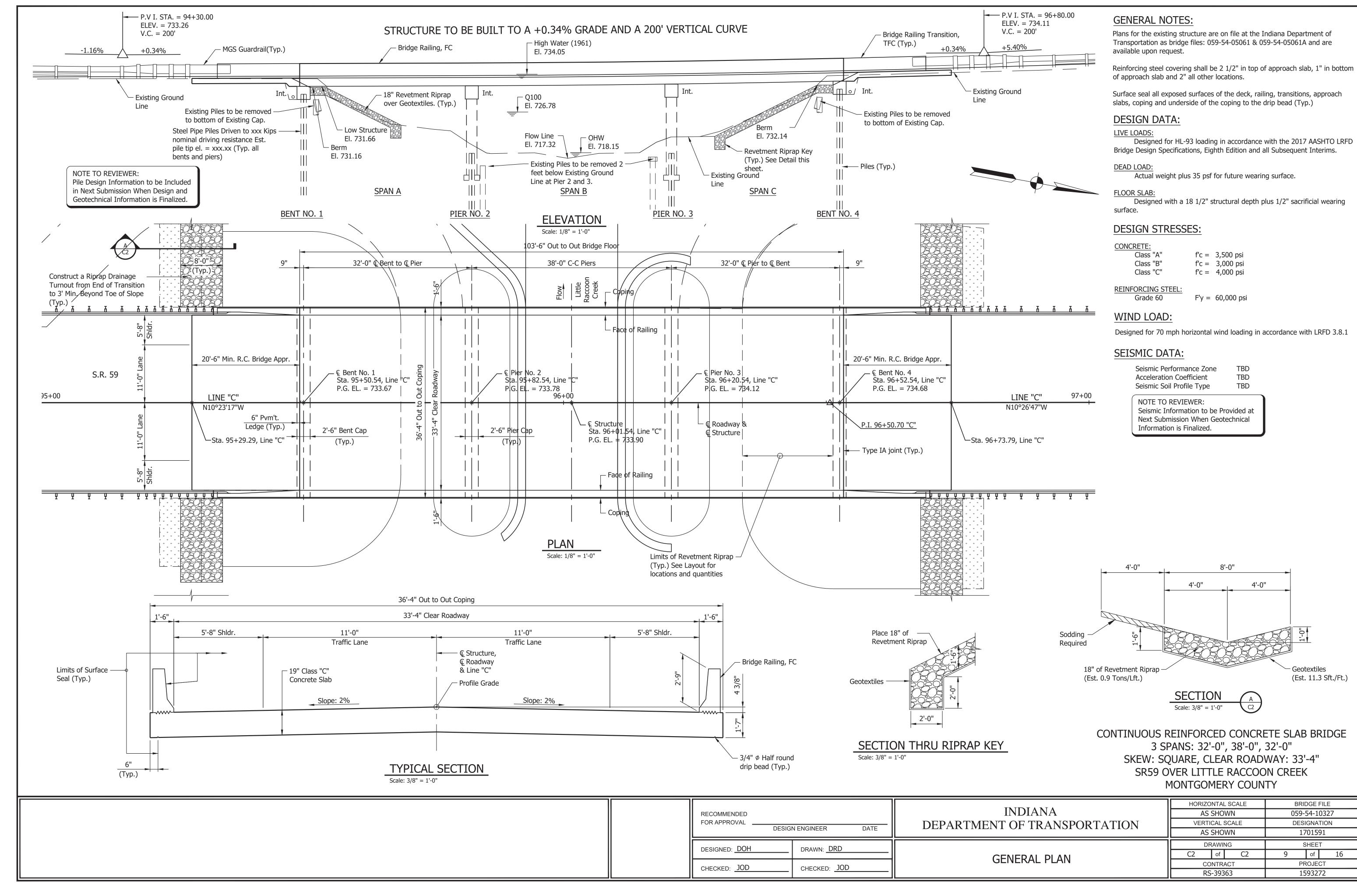
Des. Nos. 1593272 & 1701591

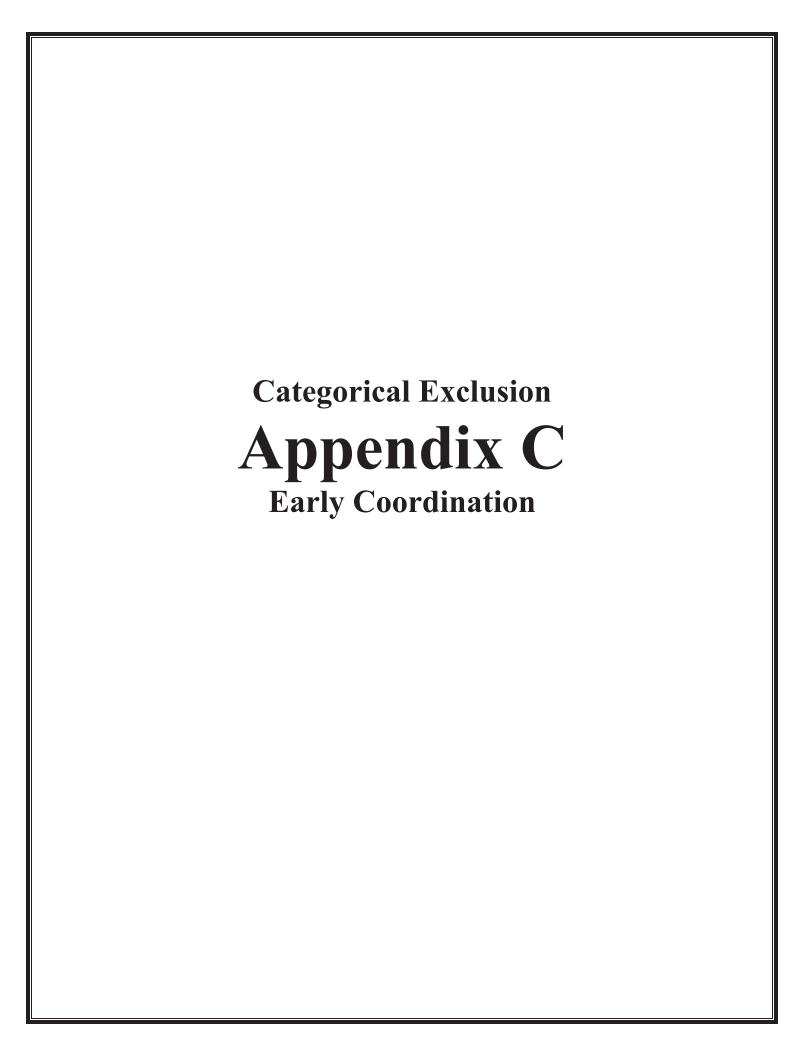
Example 1593272 & 1701591













Fishers, IN - Corporate 8770 North St., Ste. 110 Fishers, IN 46038 317.588.1798

March 5, 2020

«Agency_1»

«Agency_2»

«Address_1»

«Address_2»

Example Letter

«City», «State» «Zip»

Re: Agencies Early Coordination

Designation (Des.) Number(s) 1593272 and 1701591

Pavement Rehabilitation and Bridge Project

State Road 59, from County Road 1150 South to State Road 47

Montgomery County, Indiana

Dear «Position»,

The Indiana Department of Transportation (INDOT) Crawfordsville District and the Federal Highway Administration (FHWA) propose to proceed with a pavement rehabilitation and bridge replacement project in Montgomery County, Indiana (Des. Number(s) 1593272 and 1701591). The FHWA is providing funding and is designated as the lead Federal agency. This letter is part of the early coordination phase of the environmental review process; we are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. **Please use the above Des. Numbers and description in your reply** and we will incorporate your comments into the formal environmental study.

The project is located on State Road (SR) 59, from County Road (CR) 1150 South to SR 47, in the Town of Waveland, Montgomery County, Indiana. The project is within Brown Township, Alamo and Bellmore U.S. Geological Survey (USGS) Topographic Quadrangles, in Sections 25, 35 and 36, Township 17 North, Range 6 West. Please refer to attached project area maps.

This section of SR 59 is classified as a Major Collector. SR 59 runs north/south and east/west through the Town of Waveland and is known locally as Main Street (east/west) and Cross Street (north/south). Within the project area, SR 59 consists of two 11 foot wide travel lanes, one in each direction, with 2 foot wide outside shoulders. Sidewalks of varying widths (4 feet to 12 feet) are present throughout the majority of the project area along Main Street and Cross Street. The travel lanes are not separated by a median. Structure Number 059-54-05061 A is located just south of SR 47 and carries SR 59 over Little Raccoon Creek. The existing structure is a 3-span prestressed concrete box beam bridge, approximately 97 feet in length with an out-to-out width of approximately 32.2 feet. Adjacent land use consists of primarily residential and commercial properties. The existing right-of-way varies from approximately 20 feet to 35 feet from the roadway centerline.

The need for the project is due to the deteriorated condition of the existing SR 59 roadway pavement and Structure Number 059-54-05061 A. Per the INDOT Engineer's Mini Scope Report, dated January 3, 2017,

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Des. Nos. 1593272 & 1701591



the existing pavement has an International Roughness Index (IRI) rating of 210 out of 95 or less, which indicates "Poor Condition". The Engineering Assessment report, completed by RQAW and approved by INDOT on June 25, 2019, states that the existing asphalt is severely age hardened with extensive wheel path cracking. The curbing conditions are poor with some of the curbs cracking and falling apart to the point they are no longer visible. The existing sidewalks are in moderate condition with some minor cracking. The existing drainage system is substandard as sediment has built up throughout the roadway and onto the sidewalks.

Per the INDOT Bridge Inspection Report, dated November 14, 2019, the superstructure and substructure of Structure Number 059-54-05061 A each received Condition Ratings of 5 out of 9 which indicates "Fair" condition. This is due to the box beams exhibiting cracking with leaching and spalling with exposed rebar strands. There are deep spalls with exposed rebar, wide cracks, white efflorescence and some isolated section loss in the substructure units.

The purpose of the project is to improve the IRI pavement rating for this section of SR 59 to 70 ("Good Condition") and improve the Condition Ratings of the superstructure and substructure of Structure Number 059-54-05061 A to 7 ("good condition") or higher to allow for continued vehicular use within the project area. Another desirable outcome is to improve the substandard drainage system and pedestrian facilities within the project area.

The current proposed project on SR 59 would extend from CR 1150 South to SR 47, for a total project length of approximately 1.0 mile. The project would include milling, resurfacing, and widening SR 59 from the beginning of the project to the Main Street and Cross Street intersection, and from north of the bridge over Little Racoon Creek (Structure Number 059-54-05061 A) to SR 47. The first 600 feet of the project would involve widening the pavement to include the addition of 2 foot wide paved (3 feet usable) shoulders to provide lateral stability for the pavement. Drainage through this section of the project would be conveyed by open ditches and drive culverts. Approximately 300 feet along the west side of this section would receive a curb and gutter instead of an open ditch. On SR 59 (Main Street), the pavement would be widened approximately 2 feet to allow for the installation of a storm sewer system with adequate curb offset. The pavement on SR 59 will be widened approximately 8 feet in areas where there is existing gravel for on-street parking.

The existing 11 foot wide travel lanes, on-street parking, curb and gutter, and adjacent sidewalk on SR 59 from the intersection of Main Street and Cross Street to the bridge over Little Racoon Creek would be replaced due to the needed grade raise at the bridge replacement, and due to the thinner existing pavement depth within the downtown area of Waveland. Curbs would be replaced within the downtown area and added to the roadway between the downtown area and the bridge to resolve the drainage problems.

The current proposed project would also remove and replace Structure Number 059-54-05061 A with a three-span continuous reinforced concrete slab bridge. The new bridge would have a total length of 103 feet 6 inches and overall width of 36 feet 4 inches (approximately 4 feet wider than the existing). Riprap drainage turnouts would be added at each quadrant of the bridge. Also, riprap would be placed below

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the bridge along the spillslopes. The approach pavement would be widened approximately 8 feet to ensure adequate guardrail offset. The SR 47 approach would only involve milling and Hot Mix Asphalt (HMA) overlay. North of Structure Number 059-54-05061 A, the pavement would be widened to ensure adequate guardrail offset is provided as well as milling and HMA overlay. The approach to the intersection would include only milling and HMA overlay.

The current proposed project would also include milling and resurfacing the existing pavement of Old SR 59, located southwest of the SR 47 and SR 59 (Cross Street) intersection. A temporary haul road would be constructed from the end of Old SR 59 to the existing bridge to provide access for bridge construction activities. Another temporary haul road would be constructed in the southwest quadrant of the bridge along the west side of SR 59 (Cross Street). Both temporary haul roads would be removed after construction activities, and the surrounding area would be restored to its previous state.

Approximately 1.10 acres of permanent and 0.35 acre of temporary right-of-way would be needed. The proposed right-of-way width would be approximately 30 feet from the roadway centerline. Construction is anticipated to begin in late Winter/early Spring 2022. The maintenance of traffic (MOT) would involve a detour utilizing SR 234, SR 231, and SR 236. A pedestrian MOT plan is being developed and will be coordinated with the residents of Waveland. SR 59 is to remain open during the annual Parke County Covered Bridge Festival. Access to all properties would be maintained during construction. Refer to attached preliminary design plans.

To identify potential environmental concerns within the project vicinity, a Red Flag Investigation was performed for a 0.5 mile radius of the project area by RQAW. The Red Flag Investigation noted the following:

- One unmapped religious facility, Waveland Christian Church, is located adjacent to the Main St. section of the project area. Coordination with Waveland Christian Church is occurring via this letter.
- One public airport, Shades State Park, is located within 3.8 miles (20,000 feet) of the project area; therefore, early coordination with INDOT Aviation is occurring via this letter.
- One National Wetlands Inventory (NWI)-Line segment, associated with Little Raccoon Creek, is located within the Cross St. section of the project area.
- Two stream segments, Little Raccoon Creek and unnamed tributary to Little Raccoon Creek, are located within the Cross St. section and southern limits of the project area, respectively.
- One NWI-Wetland is located approximately 0.01 mile east of the Cross St. section of the project area.
- One unmapped UST site, a former gas station (Main Street (SR 59) and Howard Street), incorrectly stored in the IDEM VFC under the AI # 44396), appears to be located adjacent to the project area in the southeast quadrant of Howard Street and Cross Street (SR 59). A Phase II Environmental Site Assessment is recommended.

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RQAW performed a field visit on June 26, 2019, to identify any ecological resources present within the project area. Two streams and two roadside ditches were observed within the project area. RQAW is preparing a Waters of the U.S. Determination Report documenting these resources. During the field visit, one active gas station was observed adjacent to the northern terminus of the project area. Waveland Veterans Memorial was observed adjacent to the west of the project area, in the northeast quadrant of the SR 59 and Green Street intersection.

The project qualifies for the application of the U.S. Fish and Wildlife (USFWS) range-wide programmatic informal consultation for the Indiana bat and northern long-eared bat. Project information is being submitted through the USFWS Information for Planning and Consultation (IPac) separately.

RQAW is also investigating the Area of Potential Effect (APE) for archaeological and historic resources for compliance with Section 106. Coordination with the Indiana State Historic Preservation Officer (SHPO) will occur.

If we do not receive your response **within 30 calendar days** from the date of this letter, it will be assumed your agency feels there will be no adverse effects incurred because of the project. However, if you feel an extension to the response time is necessary, a reasonable amount may be granted upon request. If you have any questions regarding this matter, please contact Cameron Fraser of the Environmental Department at RQAW, at 317-588-1798 or at cfraser@rqaw.com, or Sara Heck, INDOT Project Manager at 765-361-5231 or at sheck@indot.in.gov. Thank you in advance for your input.

Sincerely,

Cameron Fraser

RQAW | Environmental Department

Appendices:

• Appendix A: Project Area Maps and Photographs

• Appendix C: Preliminary Project Plans

Cc:

• INDOT Crawfordsville District (electronic coordination)

Federal Highway Administration (electronic coordination)

• Natural Resources Conservation Service (electronic coordination)

Indiana Geological Survey (electronic coordination)

• IDNR Division of Fish and Wildlife (electronic coordination)

IDEM (electronic coordination)

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Des. Nos. 1593272 & 1701591 Appendix C: Early Coordination

C-4



- IDEM Ground Water Section (electronic query)
- INDOT Office of Public Involvement (electronic coordination)
- U.S. Army Corps of Engineers, Louisville District (electronic coordination)
- U.S. Department of Housing and Urban Development (electronic coordination)
- INDOT Office of Aviation (electronic coordination)
- US Fish and Wildlife Services (electronic coordination)
- Waveland Strong President
- National Park Service, Midwest Regional Office
- Eighth Coast Guard District, Bridge Program Section
- Montgomery County Council
- Montgomery County Board of Commissioners
- Montgomery County Surveyor's Office
- Montgomery County Highway Department
- Local Floodplain Administrator
- Waveland Town Council
- Montgomery County Community Foundation Board of Directors
- Waveland Christian Church Director

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Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

100 North Senate Avenue - Indianapolis, IN 46204 (800) 451-6027 - (317) 232-8603 - www.idem.IN.gov

INDOT Crawfordsville District

41 West 300 North Crawfordsville, IN 47933

Date: 3/5/2020

RQAW Cameron Fraser 8770 North St., Ste 110 Fishers , IN 46038

To Engineers and Consultants Proposing Roadway Construction Projects:

Des. Nos. 1593272 & 1701591

Appendix C: Early Coordination

RE: The Indiana Department of Transportation (INDOT) Crawfordsville District and the Federal Highway Administration (FHWA) propose to proceed with a pavement rehabilitation and bridge replacement project in Montgomery County, Indiana (Des. Number(s) 1593272 and 1701591). The project is located on State Road (SR) 59, from County Road (CR) 1150 South to SR 47, in the Town of Waveland, Montgomery County, Indiana. The current proposed project on SR 59 would extend from CR 1150 South to SR 47, for a total project length of approximately 1.0 mile. The project would include milling, resurfacing, and widening SR 59 from the beginning of the project to the Main Street and Cross Street intersection, and from north of the bridge over Little Racoon Creek (Structure Number 059-54-05061 A) to SR 47. The first 600 feet of the project would involve widening the pavement to include the addition of 2 foot wide paved (3 feet usable) shoulders to provide lateral stability for the pavement. Drainage through this section of the project would be conveyed by open ditches and drive culverts. Approximately 300 feet along the west side of this section would receive a curb and gutter instead of an open ditch. On SR 59 (Main Street), the pavement would be widened approximately 2 feet to allow for the installation of a storm sewer system with adequate curb offset. The pavement on SR 59 will be widened approximately 8 feet in areas where there is existing gravel for on-street parking. The existing 11 foot wide travel lanes, onstreet parking, curb and gutter, and adjacent sidewalk on SR 59 from the intersection of Main Street and Cross Street to the bridge over Little Racoon Creek would be replaced due to the needed grade raise at the bridge replacement, and due to the thinner existing pavement depth within the downtown area of Waveland. Curbs would be replaced within the downtown area and added to the roadway between the downtown area and the bridge to resolve the drainage problems. The current proposed project would also remove and replace Structure Number 059-54-05061 A with a threespan continuous reinforced concrete slab bridge. The new bridge would have a total length of 103 feet 6 inches and overall width of 36 feet 4 inches (approximately 4 feet wider than the existing). Riprap drainage turnouts would be added at each quadrant of the bridge. Also, riprap would be placed below the bridge along the spillslopes. The approach pavement would be widened approximately 8 feet to ensure adequate guardrail offset. The SR 47 approach would only involve milling and Hot Mix Asphalt (HMA) overlay. North of Structure Number 059-54-05061 A, the pavement would be widened to ensure adequate guardrail offset is provided as well as milling and HMA overlay. The approach to the intersection would include only milling and HMA overlay. The current proposed project would also include milling and resurfacing the existing pavement of Old SR 59, located southwest of the SR 47 and SR 59 (Cross Street) intersection. A temporary haul road would be constructed from the end of Old SR 59 to the existing bridge to provide access for bridge construction activities. Another temporary haul road would be constructed in the southwest quadrant of the bridge along the west side of SR 59 (Cross Street). Both temporary haul roads would be removed after construction activities, and the surrounding area would be restored to its previous state. Approximately 1.10 acres of permanent and 0.35 acre of temporary right-of-way would be needed. The proposed right-of-way width would be approximately 30 feet from the roadway centerline. Construction is anticipated to begin in late Winter/early Spring 2022. The maintenance of traffic (MOT) would involve a detour utilizing SR 234, SR 231, and SR 236. A pedestrian MOT plan is being developed and will be coordinated with the residents of Waveland. SR 59 is to remain open during the annual Parke County Covered Bridge Festival. Access to all properties would be maintained during construction. Refer to attached preliminary design plans.

This letter from the Indiana Department of Environmental Management (IDEM) serves as a standardized response to enquiries inviting IDEM comments on roadway construction, reconstruction, or other improvement projects within existing roadway corridors when the proposed scope of the project is beneath the threshold requiring a formal National Environmental Policy Act-mandated Environmental Assessment or Environmental Impact Statement. As the letter attempts to address all roadway-related environmental topics of potential concern, it is possible that not every topic addressed in the letter will be applicable to your particular roadway project.

For additional information on specific roadway-related topics of interest, please visit the appropriate Web pages cited below, many of which provide contact information for persons within the various program areas who can answer questions not fully addressed in this letter. Also please be mindful that some environmental requirements may be subject to change and so each person intending to include a copy of this letter in their project documentation packet is advised to download the most recently revised version of the letter; found at: http://www.in.gov/idem/5283.htm (http://www.in.gov/idem/5283.htm).

To ensure that all environmentally-related issues are adequately addressed, IDEM recommends that you read this letter in its entirety, and consider each of the following issues as you move forward with the planning of your proposed roadway construction, reconstruction, or improvement project:

WATER AND BIOTIC QUALITY

1. Section 404 of the Clean Water Act requires that you obtain a permit from the U.S. Army Corps of Engineers (USACE) before discharging dredged or fill materials into any wetlands or other waters, such as rivers, lakes, streams, and ditches. Other activities regulated include the relocation, channelization, widening, or other such alteration of a stream, and the mechanical clearing (use of heavy construction equipment) of wetlands. Thus, as a project owner or sponsor, it is your responsibility to ensure that no wetlands are disturbed without the proper permit. Although you may initially refer to the U.S. Fish and Wildlife Service National Wetland Inventory maps as a means of identifying potential areas of concern, please be mindful that those maps do not depict jurisdictional wetlands regulated by the USACE or the Department of Environmental Management. A valid jurisdictional wetlands determination can only be made by the USACE, using the 1987 Wetland Delineation Manual.

USACE recommends that you have a consultant check to determine whether your project will abut, or lie within, a wetland area. To view a list of consultants that have requested to be included on a list posted by the USACE on their Web site, see USACE Permits and Public Notices (http://www.lrl.usace.army.mil/orf/default.asp) (http://www.lrl.usace.army.mil/orf/default.asp) (http://www.lrl.usace.army.mil/orf/default.asp)) and then click on "Information" from the menu on the right-hand side of that page. Their "Consultant List" is the fourth entry down on the "Information" page. Please note that the USACE posts all consultants that request to appear on the list, and that inclusion of any particular consultant on the list does not represent an endorsement of that consultant by the USACE, or by IDEM.

Much of northern Indiana (Newton, Lake, Porter, LaPorte, St. Joseph, Elkhart, LaGrange, Steuben, and Dekalb counties; large portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and lesser portions of Benton, White, Pulaski, Kosciusko, and Wells counties) is

served by the USACE District Office in Detroit (313-226-6812). The central and southern portions of the state (large portions of Benton, White, Pulaski, Kosciosko, and Wells counties; smaller portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and all other Indiana counties located in north-central, central, and southern Indiana) are served by the USACE Louisville District Office (502-315-6733).

Additional information on contacting these U.S. Army Corps of Engineers (USACE) District Offices, government agencies with jurisdiction over wetlands, and other water quality issues, can be found at http://www.in.gov/idem/4396.htm (http://www.in.gov/idem/4396.htm). IDEM recommends that impacts to wetlands and other water resources be avoided to the fullest extent.

- In the event a Section 404 wetlands permit is required from the USACE, you also must obtain a Section 401 Water Quality Certification from the IDEM Office of Water Quality Wetlands Program. To learn more about the Wetlands Program, visit: http://www.in.gov/idem/4384.htm (http://www.in.gov/idem/4384.htm).
- 3. If the USACE determines that a wetland or other water body is isolated and not subject to Clean Water Act regulation, it is still regulated by the state of Indiana . A State Isolated Wetland permit from IDEM's Office of Water Quality (OWQ) is required for any activity that results in the discharge of dredged or fill materials into isolated wetlands. To learn more about isolated wetlands, contact the OWQ Wetlands Program at 317-233-8488.
- 4. If your project will involve over a 0.5 acre of wetland impact, stream relocation, or other large-scale alterations to water bodies such as the creation of a dam or a water diversion, you should seek additional input from the OWQ Wetlands Program staff. Consult the Web at: http://www.in.gov/idem/4384.htm (http://www.in.gov/idem/4384.htm) for the appropriate staff contact to further discuss your project.
- 5. Work within the one-hundred year floodway of a given water body is regulated by the Department of Natural Resources, Division of Water. The Division issues permits for activities regulated under the follow statutes:
 - IC 14-26-2 Lakes Preservation Act 312 IAC 11
 - IC 14-26-5 Lowering of Ten Acre Lakes Act No related code
 - IC 14-28-1 Flood Control Act 310 IAC 6-1
 - IC 14-29-1 Navigable Waterways Act 312 IAC 6
 - IC 14-29-3 Sand and Gravel Permits Act 312 IAC 6
 - IC 14-29-4 Construction of Channels Act No related code

For information on these Indiana (statutory) Code and Indiana Administrative Code citations, see the DNR Web site at: http://www.in.gov/dnr/water/9451.htm (http://www.in.gov/dnr/water/9451.htm) . Contact the DNR Division of Water at 317-232-4160 for further information.

The physical disturbance of the stream and riparian vegetation, especially large trees overhanging any affected water bodies should be limited to only that which is absolutely necessary to complete the project. The shade provided by the large overhanging trees helps maintain proper stream temperatures and dissolved oxygen for aquatic life.

6. For projects involving construction activity (which includes clearing, grading, excavation and other land disturbing activities) that result in the disturbance of one (1), or more, acres of total land area, contact the Office of Water Quality – Watershed Planning Branch (317/233-1864) regarding the need for of a Rule 5 Storm Water Runoff Permit. Visit the following Web page

http://www.in.gov/idem/4902.htm (http://www.in.gov/idem/4902.htm)

To obtain, and operate under, a Rule 5 permit you will first need to develop a Construction Plan (http://www.in.gov/idem/4917.htm#constreq (http://www.in.gov/idem/4917.htm#constreq)), and as described in 327 IAC 15-5-6.5 (http://www.in.gov/legislative/iac/T03270/A00150 [PDF] (http://www.in.gov/legislative/iac/T03270/A00150.PDF), pages 16 through 19). Before you may apply for a Rule 5 Permit, or begin construction, you must submit your Construction Plan to your county Soil and Water Conservation District (SWCD) (http://www.in.gov/isda/soil/contacts/map.html)).

Upon receipt of the construction plan, personnel of the SWCD or the Indiana Department of Environmental Management will review the plan to determine if it meets the requirements of 327 IAC 15-5. Plans that are deemed deficient will require re-submittal. If the plan is sufficient you will be notified and instructed to submit the verification to IDEM as part of the Rule 5 Notice of Intent (NOI) submittal. Once construction begins, staff of the SWCD or Indiana Department of Environmental Management will perform inspections of activities at the site for compliance with the regulation.

Please be mindful that approximately 149 Municipal Separate Storm Sewer System (MS4) areas are now being established by various local governmental entities throughout the state as part of the implementation of Phase II federal storm water requirements. All of these MS4 areas will eventually take responsibility for Construction Plan review, inspection, and enforcement. As these MS4 areas obtain program approval from IDEM, they will be added to a list of MS4 areas posted on the IDEM Website at: http://www.in.gov/idem/4900.htm (http://www.in.gov/idem/4900.htm).

If your project is located in an IDEM-approved MS4 area, please contact the local MS4 program about meeting their storm water requirements. Once the MS4 approves the plan, the NOI can be submitted to IDEM.

Regardless of the size of your project, or which agency you work with to meet storm water requirements, IDEM recommends that appropriate structures and techniques be utilized both during the construction phase, and after completion of the project, to minimize the impacts associated with storm water runoff. The use of appropriate planning and site development and appropriate storm water quality measures are recommended to prevent soil from leaving the construction site during active land disturbance and for post construction water quality concerns. Information and assistance regarding storm water related to construction activities are available from the Soil and Water Conservation District (SWCD) offices in each county or from IDEM.

7. For projects involving impacts to fish and botanical resources, contact the Department of Natural Resources - Division of Fish and Wildlife (317/232-4080) for addition project input.

- 8. For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality Drinking Water Branch (317-308-3299) regarding the need for permits.
- For projects involving effluent discharges to waters of the State of Indiana, contact the Office of Water Quality - Permits Branch (317-233-0468) regarding the need for a National Pollutant Discharge Elimination System (NPDES) permit.
- 10. For projects involving the construction of wastewater facilities and sewer lines, contact the Office of Water Quality Permits Branch (317-232-8675) regarding the need for permits.

AIR QUALITY

The above-noted project should be designed to minimize any impact on ambient air quality in, or near, the project area. The project must comply with all federal and state air pollution regulations. Consideration should be given to the following:

 Regarding open burning, and disposing of organic debris generated by land clearing activities; some types of open burning are allowed (http://www.in.gov/idem/4148.htm (http://www.in.gov/idem/4148.htm)) under specific conditions. You also can seek an open burning variance from IDEM.

However, IDEM generally recommends that you take vegetative wastes to a registered yard waste composting facility or that the waste be chipped or shredded with composting on site (you must register with IDEM if more than 2,000 pounds is to be composted; contact 317/232-0066). The finished compost can then be used as a mulch or soil amendment. You also may bury any vegetative wastes (such as leaves, twigs, branches, limbs, tree trunks and stumps) onsite, although burying large quantities of such material can lead to subsidence problems, later on.

Reasonable precautions must be taken to minimize fugitive dust emissions from construction and demolition activities. For example, wetting the area with water, constructing wind barriers, or treating dusty areas with chemical stabilizers (such as calcium chloride or several other commercial products). Dirt tracked onto paved roads from unpaved areas should be minimized.

Additionally, if construction or demolition is conducted in a wooded area where blackbirds have roosted or abandoned buildings or building sections in which pigeons or bats have roosted for 3-5 years precautionary measures should be taken to avoid an outbreak of histoplasmosis. This disease is caused by the fungus Histoplasma capsulatum, which stems from bird or bat droppings that have accumulated in one area for 3-5 years. The spores from this fungus become airborne when the area is disturbed and can cause infections over an entire community downwind of the site. The area should be wetted down prior to cleanup or demolition of the project site. For more detailed information on histoplasmosis prevention and control, please contact the Acute Disease Control Division of the Indiana State Department of Health at (317) 233-7272.

2. The U.S. EPA and the Surgeon General recommend that people not have long-term exposure to radon at levels above 4 pCi/L. (For a county-by-county map of predicted radon levels in Indiana, visit: http://www.in.gov/idem/4145.htm (http://www.in.gov/idem/4145.htm).)

The U.S. EPA further recommends that all homes (and apartments within three stories of ground level) be tested for radon. If in-home radon levels are determined to be 4 pCi/L, or higher, EPA recommends a follow-up test. If the second test confirms that radon levels are 4 pCi/L, or higher, EPA recommends the installation of radon-reduction measures. (For a list of qualified radon testers and radon mitigation (or reduction) specialists visit:

http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf (http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf).) It also is recommended that radon reduction measures be built into all new homes, particularly in areas like Indiana that have moderate to high predicted radon levels.

To learn more about radon, radon risks, and ways to reduce exposure visit: http://www.in.gov/isdh/regsvcs/radhealth/radon.htm (http://www.in.gov/isdh/regsvcs/radhealth/radon.htm), http://www.in.gov/idem/4145.htm (http://www.in.gov/idem/4145.htm), or http://www.epa.gov/radon/index.html (http://www.epa.gov/radon/index.html).

3. With respect to asbestos removal: all facilities slated for renovation or demolition (except residential buildings that have (4) four or fewer dwelling units and which will not be used for commercial purposes) must be inspected by an Indiana-licensed asbestos inspector prior to the commencement of any renovation or demolition activities. If regulated asbestos-containing material (RACM) that may become airborne is found, any subsequent demolition, renovation, or asbestos removal activities must be performed in accordance with the proper notification and emission control requirements.

If no asbestos is found where a renovation activity will occur, or if the renovation involves removal of less than 260 linear feet of RACM off of pipes, less than 160 square feet of RACM off of other facility components, or less than 35 cubic feet of RACM off of all facility components, the owner or operator of the project does not need to notify IDEM before beginning the renovation activity.

For questions on asbestos demolition and renovation activities, you can also call IDEM's Lead/Asbestos section at 1-888-574-8150.

However, in all cases where a demolition activity will occur (even if no asbestos is found), the owner or operator must still notify IDEM 10 working days prior to the demolition, using the form found at http://www.in.gov/icpr/webfile/formsdiv/44593.pdf (http://www.in.gov/icpr/webfile/formsdiv/44593.pdf).

Anyone submitting a renovation/demolition notification form will be billed a notification fee based upon the amount of friable asbestos containing material to be removed or demolished. Projects that involve the removal of more than 2,600 linear feet of friable asbestos containing materials on pipes, or 1,600 square feet or 400 cubic feet of friable asbestos containing material on other facility components, will be billed a fee of \$150 per project; projects below these amounts will be billed a fee of \$50 per project. All notification remitters will be billed on a quarterly basis.

For more information about IDEM policy regarding asbestos removal and disposal, visit: http://www.in.gov/idem/4983.htm (http://www.in.gov/idem/4983.htm).

- 4. With respect to lead-based paint removal: IDEM encourages all efforts to minimize human exposure to lead-based paint chips and dust. IDEM is particularly concerned that young children exposed to lead can suffer from learning disabilities. Although lead-based paint abatement efforts are not mandatory, any abatement that is conducted within housing built before January 1, 1978, or a child-occupied facility is required to comply with all lead-based paint work practice standards, licensing and notification requirements. For more information about lead-based paint removal visit: http://www.in.gov/isdh/19131.htm (http://www.in.gov/isdh/19131.htm).
- Ensure that asphalt paving plants are permitted and operate properly. The use of cutback asphalt, or asphalt emulsion containing more than seven percent (7%) oil distillate, is prohibited during the months April through October. See 326 IAC 8-5-2, Asphalt Paving Rule (http://www.ai.org/legislative/iac/T03260/A00080.PDF)
 (http://www.ai.org/legislative/iac/T03260/A00080.PDF)).
- 6. If your project involves the construction of a new source of air emissions or the modification of an existing source of air emissions or air pollution control equipment, it will need to be reviewed by the IDEM Office of Air Quality (OAQ). A registration or permit may be required under 326 IAC 2 (View at: www.ai.org/legislative/iac/t03260/a00020.pdf (http://www.ai.org/legislative/iac/t03260/a00020.pdf).) New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.
- For more information on air permits visit: http://www.in.gov/idem/4223.htm
 (http://www.in.gov/idem/4223.htm), or to initiate the IDEM air permitting process, please contact
 the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or OAMPROD
 atdem.state.in.us.

LAND QUALITY

In order to maintain compliance with all applicable laws regarding contamination and/or proper waste disposal, IDEM recommends that:

- 1. If the site is found to contain any areas used to dispose of solid or hazardous waste, you need to contact the Office of Land Quality (OLQ)at 317-308-3103.
- 2. All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. For more information, visit http://www.in.gov/idem/4998.htm (http://www.in.gov/idem/4998.htm).
- 3. If any contaminated soils are discovered during this project, they may be subject to disposal as hazardous waste. Please contact the OLQ at 317-308-3103 to obtain information on proper disposal procedures.
- 4. If PCBs are found at this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding management of any PCB wastes from this site.

- 5. If there are any asbestos disposal issues related to this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding the management of asbestos wastes (Asbestos removal is addressed above, under Air Quality).
- 6. If the project involves the installation or removal of an underground storage tank, or involves contamination from an underground storage tank, you must contact the IDEM Underground Storage Tank program at 317/308-3039. See: http://www.in.gov/idem/4999.htm (http://www.in.gov/idem/4999.htm).

FINAL REMARKS

Should you need to obtain any environmental permits in association with this proposed project, please be mindful that IC 13-15-8 requires that you notify all adjoining property owners and/or occupants within ten days your submittal of each permit application. However, if you are seeking multiple permits, you can still meet the notification requirement with a single notice if all required permit applications are submitted with the same ten day period.

Should the scope of the proposed project be expanded to the extent that a National Environmental Policy Act Environmental Assessment (EA) or Environmental Impact Statement (EIS) is required, IDEM will actively participate in any early interagency coordination review of the project.

Meanwhile, please note that this letter does not constitute a permit, license, endorsement or any other form of approval on the part of the Indiana Department of Environmental Management regarding any project for which a copy of this letter is used. Also note that is it the responsibility of the project engineer or consultant using this letter to ensure that the most current draft of this document, which is located at http://www.in.gov/idem/5284.htm), is used.

Signature(s) of the Applicant

I acknowledge that the following proposed roadway project will be financed in part, or in whole, by public monies.

Project Description

The Indiana Department of Transportation (INDOT) Crawfordsville District and the Federal Highway Administration (FHWA) propose to proceed with a pavement rehabilitation and bridge replacement project in Montgomery County, Indiana (Des. Number(s) 1593272 and 1701591). The project is located on State Road (SR) 59, from County Road (CR) 1150 South to SR 47, in the Town of Waveland, Montgomery County, Indiana. The current proposed project on SR 59 would extend from CR 1150 South to SR 47, for a total project length of approximately 1.0 mile. The project would include milling, resurfacing, and widening SR 59 from the beginning of the project to the Main Street and Cross Street intersection, and from north of the bridge over Little Racoon Creek (Structure Number 059-54-05061 A) to SR 47. The first 600 feet of the project would involve widening the pavement to include the addition of 2 foot wide paved (3 feet usable) shoulders to provide lateral stability for the pavement. Drainage through this section of the project would be conveyed by open ditches and drive culverts. Approximately

300 feet along the west side of this section would receive a curb and gutter instead of an open ditch. On SR 59 (Main Street), the pavement would be widened approximately 2 feet to allow for the installation of a storm sewer system with adequate curb offset. The pavement on SR 59 will be widened approximately 8 feet in areas where there is existing gravel for on-street parking. The existing 11 foot wide travel lanes, on-street parking, curb and gutter, and adjacent sidewalk on SR 59 from the intersection of Main Street and Cross Street to the bridge over Little Racoon Creek would be replaced due to the needed grade raise at the bridge replacement, and due to the thinner existing pavement depth within the downtown area of Waveland. Curbs would be replaced within the downtown area and added to the roadway between the downtown area and the bridge to resolve the drainage problems. The current proposed project would also remove and replace Structure Number 059-54-05061 A with a three-span continuous reinforced concrete slab bridge. The new bridge would have a total length of 103 feet 6 inches and overall width of 36 feet 4 inches (approximately 4 feet wider than the existing). Riprap drainage turnouts would be added at each quadrant of the bridge. Also, riprap would be placed below the bridge along the spillslopes. The approach pavement would be widened approximately 8 feet to ensure adequate guardrail offset. The SR 47 approach would only involve milling and Hot Mix Asphalt (HMA) overlay. North of Structure Number 059-54-05061 A, the pavement would be widened to ensure adequate guardrail offset is provided as well as milling and HMA overlay. The approach to the intersection would include only milling and HMA overlay. The current proposed project would also include milling and resurfacing the existing pavement of Old SR 59, located southwest of the SR 47 and SR 59 (Cross Street) intersection. A temporary haul road would be constructed from the end of Old SR 59 to the existing bridge to provide access for bridge construction activities. Another temporary haul road would be constructed in the southwest quadrant of the bridge along the west side of SR 59 (Cross Street). Both temporary haul roads would be removed after construction activities, and the surrounding area would be restored to its previous state. Approximately 1.10 acres of permanent and 0.35 acre of temporary right-of-way would be needed. The proposed right-of-way width would be approximately 30 feet from the roadway centerline. Construction is anticipated to begin in late Winter/early Spring 2022. The maintenance of traffic (MOT) would involve a detour utilizing SR 234, SR 231, and SR 236. A pedestrian MOT plan is being developed and will be coordinated with the residents of Waveland. SR 59 is to remain open during the annual Parke County Covered Bridge Festival. Access to all properties would be maintained during construction. Refer to attached preliminary design plans.

With my signature, I do hereby affirm that I have read the letter from the Indiana Department of Environment that appears directly above. In addition, I understand that in order to complete that project in which I am interested, with a minimum of impact to the environment, I must consider all the issues addressed in the aforementioned letter, and further, that I must obtain any required permits.

Date:5/21/2020	
Signature of the INDOT Project Engineer or Other	Responsible Agent
Date:5/21/2020	Matthew Soto
Signature of the For Hire Consultant	Canfin

Cameron Fraser

Early Coordination/Environmental Assessment

DNR #: ER-22301 Request Received: March 5, 2020

Requestor: RQAW Environmental

Cameron Fraser

8770 North Street, Suite 110

Fishers, IN 46038

Project: SR 59 pavement rehabilitation from CR 1150 South to SR 47, and bridge

(#059-54-05061 A) replacement over Little Raccoon Creek, Waveland; Des #1593272

& 1701591

County/Site info: Montgomery

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

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

have permitting authority, all recommendations are voluntary.

Regulatory Assessment: This proposal will require the formal approval of our agency for construction in a

floodway pursuant to the Flood Control Act (IC 14-28-1), unless it qualifies for a bridge exemption (see enclosure). Please include a copy of this letter with the permit

application if the project does not meet the bridge exemption criteria.

Natural Heritage Database: The Natural Heritage Program's data have been checked.

To date, no plant or animal species listed as state or federally threatened, endangered,

or rare have been reported to occur in the project vicinity.

Fish & Wildlife Comments: Avoid and minimize impacts to fish, wildlife, and botanical resources to the greatest

extent possible, and compensate for impacts. The following are recommendations that

address potential impacts identified in the proposed project area:

1) Crossing Structure:

For purposes of maintaining fish and wildlife passage through a crossing structure, the Environmental Unit recommends bridges rather than culverts and bottomless culverts rather than box or pipe culverts. Wide culverts are better than narrow culverts, and culverts with shorter through lengths are better than culverts with longer through lengths. If box or pipe culverts are used, the bottoms should be buried a minimum of 6" (or 20% of the culvert height/pipe diameter, whichever is greater up to a maximum of 2") below the stream bed elevation to allow a natural streambed to form within or under the crossing structure. Crossings should: span the entire channel width (a minimum of 1.2 times the OHWM width); maintain the natural stream substrate within the structure; have a minimum openness ratio (height x width / length) of 0.25; and have stream depth, channel width, and water velocities during low-flow conditions that are approximate to those in the natural stream channel. Banklines should be restored within box and pipe structures to allow for wildlife passage above the ordinary highwater mark.

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. The Division of Fish and Wildlife would like to emphasize the importance of wildlife passage issues and transportation infrastructure projects. The following is a good place to start in terms of resources to

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consider in the design of stream crossing structures: http://www.fs.fed.us/wildlifecrossings/library/.

The following are recommended resources for designing and constructing stream crossings for maintenance of instream habitat and aquatic organism passage: https://www.fs.fed.us/biology/nsaec/fishxing/aop_pdfs.html; https://www.fhwa.dot.gov/engineering/hydraulics/pubs/11008/hif11008.pdf.

2) Bank Stabilization:

Some form of bank and/or streambed stabilization is almost always needed with the construction, repair, replacement, or modification of a stream channel or crossing structure. For streambank stabilization and erosion control, regrading to a stable slope (2:1 or shallower) and establishing native vegetation along the banks are typically the most effective techniques. A variety of methods to accomplish this include: planting plugs, whips, container stock, seeding, and live stakes. In addition to vegetation establishment, some additional level of bioengineered bank stabilization may be needed under certain circumstances (inability to regrade to a stable slope, flow velocities that exceed the limits of vegetation alone, etc.). Combining vegetation with any of the following bank stabilization methods can provide additional bank protection while not compromising benefits to fish, wildlife, and botanical resources: geotextiles (erosion control blankets and/or turf reinforcement mats that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles), vegetated geogrids or soil lifts, fiber rolls, glacial stone, or riprap. Information about bioengineering techniques can be found at http://www.in.gov/legislative/iac/20120404-IR-312120154NRA.xml.pdf. Additionally, the following is a link to a USDA/NRCS document that outlines many different bioengineering techniques for streambank stabilization: http://directives.sc.egov.usda.gov/17553.wba.

Riprap or other hard bank stabilization materials should be used only at the toe of the sideslopes up to the ordinary high water mark (OHWM) with the exception of areas directly under bridges for instance. The banks above the OHWM should be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to Central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. For streambed stabilization or scour protection, riprap or other stabilization materials should not be placed in the active stream channel above the existing streambed or flowline elevation unless specifically designed and installed for grade control and aquatic organism passage. This is to prevent obstructions to the movement of aquatic organisms upstream and downstream.

3) Riparian & Urban Tree Habitat:

If tree removal is needed, the Division of Fish & Wildlife recommends avoiding removing urban trees to the greatest extent possible and replacing trees that must be removed. Street trees are important to fish and wildlife resources in urban areas. Indiana's street trees also provide millions of dollars of tangible benefits to Indiana communities by their presence in the urban environment. Their shade and beauty contribute to the quality of life. They provide significant increases in real estate values, create attractive settings for commercial businesses, and improve community neighborhood appeal. Trees decrease energy consumption by providing shade and acting as windbreaks. They reduce water treatment costs and impede soil erosion by slowing the runoff of stormwater. Trees also cool the air temperature, cleanse pollutants from the air, and produce oxygen while absorbing carbon dioxide. Trees are an integral component of the urban environment. Proactively managing and maintaining a street tree population will ultimately maximize the benefits afforded by their aesthetic and ecological functions. The following links give a good overview of the benefits of a street tree program and how to select the right

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species to avoid the negative impacts of non-native invasive species such as the common and popular Bradford pear: https://www.in.gov/dnr/forestry/3605.htm > Community & Urban Forestry > Tree Species Lists.

We recommend a mitigation plan be developed (and submitted with the permit application, if required) for any unavoidable habitat impacts that will occur. The DNR's Floodway Habitat Mitigation guidelines (and plant lists) can be found online at: http://www.in.gov/legislative/iac/20190130-IR-312190041NRA.xml.pdf.

Impacts to non-wetland forest of one (1) 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. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees) or by using the 1:1 replacement ratio based on area depending on the type of habitat impacted (individual canopy tree removal in an urban streetscape or park-like environment versus removal of habitat supporting a tree canopy, woody understory, and herbaceous layer). Impacts under 0.10 acre in and urban area may still involve the replacement of large diameter trees but typically do not require any additional mitigation or additional plantings beyond seeding and stabilizing disturbed areas. There are exceptions for high quality habitat sites however.

4) Street Lighting:

The need for new lighting was not mentioned in the submitted information, but could potentially be needed in certain areas. Most transportation corridor designers and municipalities are trending toward LED lighting. Certain types of LED lighting can have negative impacts on both human and wildlife health and safety. The Division of Fish and Wildlife strongly encourages visiting the International Dark-Sky Association's website to learn more about the potential negative impacts of improperly selected LED lighting systems, if applicable: http://darksky.org/lighting/led-practical-guide/.

5) Stormwater Management:

The Division of Fish and Wildlife recommends considering a more sustainable approach to stormwater management. The traditional model of stormwater management aims to drain urban runoff as quickly as possible with the help of channels and pipes, which increases peak flows and costs of stormwater management. This type of solution only transfers flood problems from one section of the basin to another section. A more sustainable approach aims to rebuild the natural water cycle by using storage techniques (retention basins, constructed wetlands, raingardens, etc.), recharging groundwater using infiltration techniques (infiltration basins or trenches, pervious pavement, etc.), and reusing runoff for irrigation elsewhere in the basin. The following links give a good overview of traditional and sustainable stormwater management systems and their pros and cons for consideration during the design of the proposed project: https://www.epa.gov/greeningepa/epa-facility-stormwater-management; https://www.epa.gov/greeningepa/stormwater-management-practices-epa-facilities.

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

- 1. Revegetate all bare and disturbed areas that are not currently mowed and maintained with a mixture of grasses, sedges, and wildflowers native to Central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion; turf-type grasses (including low-endophyte, friendly endophyte, and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used in currently mowed areas only.
- 2. Minimize and contain within the project limits inchannel disturbance and the clearing

Attachments: A - Bridge Exemption Criteria

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of trees and brush.

- 3. Do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife.
- 4. Do not cut any trees suitable for Indiana bat or Northern Long-eared bat roosting (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
- 5. Do not construct any temporary runarounds or causeways.
- 6. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
- 7. Do not use broken concrete as riprap.
- 8. Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.
- 9. Minimize the movement of resuspended bottom sediment from the immediate project area.
- 10. Do not deposit or allow demolition/construction materials or debris to fall or otherwise enter the waterway.
- 11. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
- 12. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.

Contact Staff:

Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife

Our agency appreciates this opportunity to be of service. Please contact the above staff member at (317) 232-4080 if we can be of further assistance.

Date: April 3, 2020

Christie L. Stanifer Environ. Coordinator

Division of Fish and Wildlife

hristie L. Stanifer

Attachments: A - Bridge Exemption Criteria

Des Nos 1593272 & 1701591

Cameron Fraser

From: Courtade, Julian <JCourtade@indot.IN.gov>

Sent: Monday, March 9, 2020 8:14 AM

Cameron Fraser To:

Subject: RE: Agency Early Coordination Letter for the SR 59 Waveland Projects (DES 1593272 and

1701591)

Cameron -

I reviewed the Early Coordination Letter and found no issues with surrounding airspace or airports. This is due to the project meeting the required glideslope requirements to the nearest public-use facility. Please let me know if you have any questions!

Thanks,

Julian L. Courtade

Chief Airport Inspector INDOT, Office of Aviation **IGCN Room N955** 100 North Senate Avenue Indianapolis, IN 46204

Office: (317) 232-1477











From: Cameron Fraser <cfraser@rqaw.com> Sent: Thursday, March 5, 2020 4:26 PM To: Courtade, Julian <JCourtade@indot.IN.gov>

Subject: Agency Early Coordination Letter for the SR 59 Waveland Projects (DES 1593272 and 1701591)

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Chief Airport Inspector,

Attached, please find an early coordination letter and appendices regarding the above project. These materials are for your records, review, and comment for the environmental document.

Thank you, Cameron

Natural Resources Conservation Service Indiana State Office 6013 Lakeside Boulevard Indianapolis, IN 46278 317-290-3200

March 17, 2020

Cameron Fraser RQAW Corporation 8770 North Street, Suite 110 Fishers, Indiana 46038

Dear Mr. Fraser:

The proposed project to rehabilitate the pavement along State Road 59 from County Road 1150 South to State Road 47 and make bridge improvements in Montgomery County, Indiana (Des No. 1593272 and 1701591), as referred to in your letter received on March 5, 2020, will not cause a conversion of prime farmland.

If you need additional information, please contact John Allen at 317-295-5859.

Sincerely,

RICHARD NEILSON Digitally signed by RICHARD NEILSON Date: 2020.03.20 06:51:21 -04'00'

Acting For

JERRY RAYNOR State Conservationist

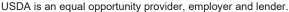
Helping People Help the Land.















Organization and Project Information

Project ID:

Des. ID: 1593272 and 1701591

Project Title: State Road 59 Pavement Rehabilitation and Bridge Project

Name of Organization: RQAW

Requested by: Cameron Fraser

Environmental Assessment Report

Geological Hazards:

Moderate liquefaction potential

Mineral Resources:

Bedrock Resource: High Potential

Sand and Gravel Resource: Low Potential

3. Active or abandoned mineral resources extraction sites:

None documented in the area

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

DISCLAIMER:

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

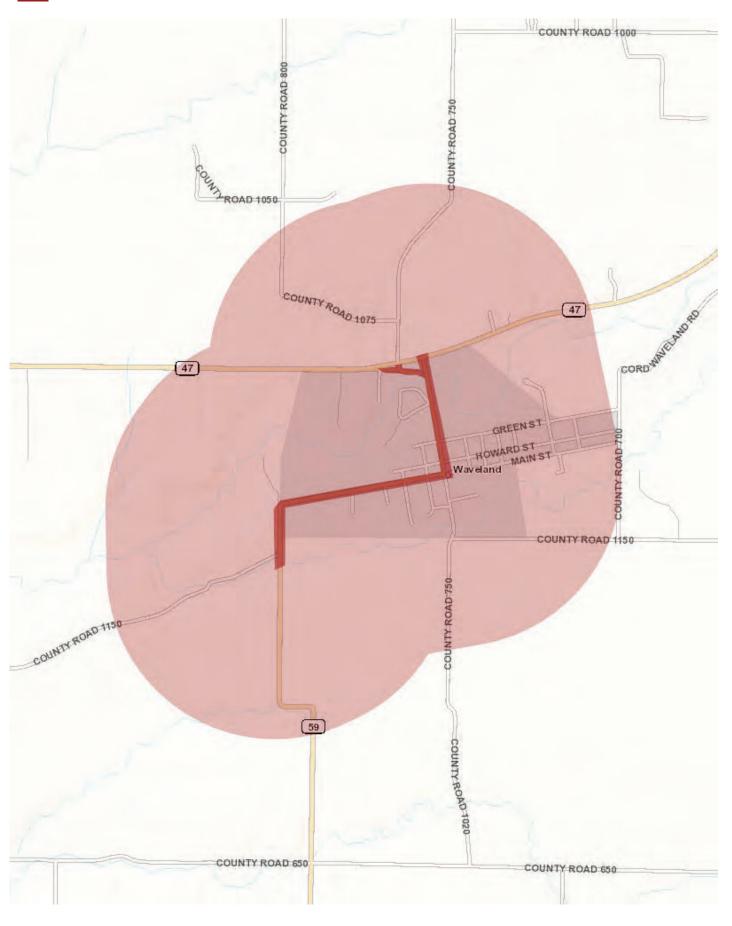
This information was furnished by Indiana Geological Survey

Address: 420 N. Walnut St., Bloomington, IN 47404

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428 Date: March 05, 2020







Metadata:

- https://maps.indiana.edu/metadata/Geology/Seismic_Earthquake_Liquefaction_Potential.html
- https://maps.indiana.edu/metadata/Geology/Industrial_Minerals_Sand_Gravel_Resources.html
- https://maps.indiana.edu/metadata/Geology/Bedrock_Geology.html

Cameron Fraser

From: Washburn, Eric CIV <Eric.Washburn@uscg.mil>

Sent: Thursday, March 12, 2020 1:20 PM

To: Cameron Fraser Cc: Heck, Sara R

Subject: Designation #s' 1593272 & 1701591

Good afternoon. Rec'd your 5 Mar 20 letter....no role for the Coast Guard.

Thanks.

Respectfully,

Eric Washburn USCG Bridge Supervisor, Western Rivers STL 314-269-2378

Cameron Fraser

From: Cameron Fraser

Sent: Thursday, May 14, 2020 4:32 PM

To: Troy Phillips

Subject: RE: Agency Early Coordination Letter for the SR 59 Waveland Projects (DES 1593272 and

1701591)

Hi Troy,

Thank you for getting back to me! Based on your email, it seems that Waveland Strong is a privately run not-for-profit group that *owns and maintains* the parcel of land containing the Veteran War Memorial. If this is correct, no need to respond; however, if this information is not correct, please let me know so that I can make sure it is incorporated into the environmental document accurately.

Kind Regards,

Cameron Fraser

NEPA Specialist O: 317.588.1768 www.rqaw.com

From: Troy Phillips <troyphillips75@gmail.com>

Sent: Thursday, May 14, 2020 10:56 AM **To:** Cameron Fraser <cfraser@rgaw.com>

Subject: Re: Agency Early Coordination Letter for the SR 59 Waveland Projects (DES 1593272 and 1701591)

Cameron,

The Brown Township Improvement Committee has changed to Waveland Strong. It was a group established March of 2016 as a not for profit. Waveland Strong has been doing improvements to the property and getting the work done for the veterans. We have a separate bank account for the memorial for funds and donations we receive. Since you mentioned the property is under the improvement committee that is something we need to look at and address and didn't realize.

Let me know if that helps or if you have any other questions.

Thanks,

Troy

Sent from my iPhone

On May 13, 2020, at 5:10 PM, Cameron Fraser < cfraser@rqaw.com> wrote:

Hello Mr. Phillips,

I just wanted to follow up with you regarding the previously sent Early Coordination Letter (March 5, 2020). The reason you are received this letter is because of your involvement with the Waveland Veterans Memorial property, which is located adjacent to the west of the project area. Currently it appears the property is owned by the Brown Township Improvement Committee. I would like to contact the current property owner and/or board members for the Brown Township Improvement

Committee, if possible. Can you please confirm whether you are a member of the Brown Township Improvement Committee and/or an appropriate contact for the Waveland Veterans Memorial property? If not, do you know who I can contact? Also, I would like to verify whether the Waveland Veterans Memorial property is privately owned or publicly owned. Any information you can provide would be greatly appreciated. Please let me know if you have any questions or concerns.

Thank you,

Cameron Fraser

NEPA Specialist O: 317.588.1768 www.rqaw.com

From: Cameron Fraser

Sent: Thursday, March 5, 2020 4:33 PM

To: troyphillips75@gmail.com

Subject: Agency Early Coordination Letter for the SR 59 Waveland Projects (DES 1593272 and

1701591)

Troy Phillips,

Attached, please find an early coordination letter and appendices regarding the above project. These materials are for your records, review, and comment for the environmental document.

Thank you, Cameron

Cameron Fraser

NEPA Specialist

<image001.png> 8770 North St., Ste. 110 Fishers, IN 46038

O: 317.588.1768 <u>www.rqaw.com</u>

<image003.png>
<image005.png>
<image007.png>
<image009.png>
<image010.png>

Cameron Fraser

From: Mcmullen, Kenneth B < KMcmullen@indot.IN.gov>

Sent: Monday, May 20, 2019 11:42 AM

To: Cameron Fraser

Subject: RE: USFWS Database Check for the SR 59 Road Rehabilitation Project located in

Montgomery County (DES 1593272)

Cameron,

Des 1593272, based on the information provided, review of the USFWS database DID NOT indicate the presence of endangered bat species in or within 0.5 mile of the project area.

Site specific MYSO and/or MYSE hibernacula, capture, or roost tree location data (e.g., geographic coordinates, GIS shapefiles or maps) will not be shared, distributed, or published without prior written consent from USFWS Bloomington Field Office. This is confidential information that can be used to update your IPaC questionnaire, but this information cannot be shared or distributed or placed within any documents.

Respectfully,

Ken McMullen, MELP, CHMM

District Environmental Section Manager/Project Manager

41 West 300 North Crawfordsville, IN 47933 Office: (765) 361-5620 Cell: (765) 427-6521

Email: KMcmullen@indot.in.gov



From: Cameron Fraser [mailto:cfraser@rqaw.com]

Sent: Tuesday, May 14, 2019 11:14 AM

To: Mcmullen, Kenneth B < KMcmullen@indot.IN.gov>

Subject: USFWS Database Check for the SR 59 Road Rehabilitation Project located in Montgomery County (DES 1593272)

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Good Morning Ken,

Attached, please find a topographic and a Red Flag Investigation aerial map showing the project location for a Road Rehabilitation/Bridge replacement project on SR 59 in Montgomery County, Indiana (DES 1593272). We appreciate INDOT's review of the GIS layers for the Indiana and northern long-eared bat as well as the Indiana Natural Heritage database. Please let me know if you need additional information.

Thank you,

Cameron Fraser

From: McWilliams, Robin <robin_mcwilliams@fws.gov>

Sent: Thursday, March 12, 2020 6:19 PM

To: Cameron Fraser

Subject: Re: Agency Early Coordination Letter for the SR 59 Waveland Projects (DES 1593272 and

1701591)

Dear Mr. Fraser,

This responds to your recent letter requesting our comments on the aforementioned project.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (16 U.S.C. 661 et. seq.) and are consistent with the intent of the National Environmental Policy Act of 1969, the Endangered Species Act of 1973, and the U.S. Fish and Wildlife Service's Mitigation Policy.

The project is within the range of the Indiana bat (Myotis sodalis) and northern long-eared bat (Myotis septentrionalis) and should follow the new Indiana bat/northern long-eared bat programmatic consultation process, if applicable (i.e. a federal transportation nexus is established). The Service has 14 days after the "Not Likely to Adversely Affect" determination letter is generated. We will review that information once it is received; if you do not receive a response within 14 days, we have no additional comments.

Based on a review of the information you provided, the U.S. Fish and Wildlife Service has no objection to the project as currently proposed. However, should new information arise pertaining to project plans or a revised species list be published, it will be necessary for the Federal agency to reinitiate consultation. Standard recommendations are provided below.

We appreciate the opportunity to comment at this early stage of project planning. If you have any questions about our recommendations, please call (812) 334-4261 x. 207.

Sincerely, Robin McWilliams Munson

Standard Recommendations:

- 1. Do not clear trees or understory vegetation outside the construction zone boundaries. (This restriction is not related to the "tree clearing" restriction for potential Indiana Bat habitat.)
- 2. 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.
- Culverts should span the active stream channel, should be either embedded or a 3-sided or open-arch culvert, and be installed where practicable on an essentially flat slope. When an open-bottom culvert or arch is used in a stream, which has a good natural bottom substrate, such as gravel, cobbles and boulders, the existing substrate should be left undisturbed beneath the culvert to provide natural habitat for the aquatic community.
- 3. Restrict channel work and vegetation clearing to the minimum necessary for installation of the stream crossing structure.

- 4. 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.
- 5. Implement temporary erosion and sediment control methods within areas of disturbed soil. All disturbed soil areas upon project completion will be vegetated following INDOT's standard specifications.
- 6. Avoid all work within the inundated part of the stream channel (in perennial streams and larger intermittent streams) during the fish spawning season (April 1 through June 30), except for work within sealed structures such as caissons or cofferdams that were installed prior to the spawning season. No equipment shall be operated below Ordinary High Water Mark during this time unless the machinery is within the caissons or on the cofferdams.
- 7. 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

Robin McWilliams Munson Fish and Wildlife Biologist U.S. Fish and Wildlife Service 620 South Walker Street Bloomington, IN 46142 812-334-4261

Mon-Tues 8-3:30p Wed-Thurs 8:30-3p Telework

From: Cameron Fraser <cfraser@rqaw.com> Sent: Thursday, March 5, 2020 4:29 PM

To: McWilliams, Robin < robin_mcwilliams@fws.gov>

Subject: [EXTERNAL] Agency Early Coordination Letter for the SR 59 Waveland Projects (DES 1593272 and 1701591)

Field Supervisor,

Attached, please find an early coordination letter and appendices regarding the above project. These materials are for your records, review, and comment for the environmental document.

Thank you, Cameron



Cameron Fraser NEPA Specialist 8770 North St., Ste. 110 Fishers, IN 46038 O: 317.588.1768 www.rgaw.com

> Best Places to Work in Indiana, 2018 & 2019 Indy Star's Top Workplaces, 2019

> > 2

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Des. Nos. 1593272 & 1701591 Appendix C: Early Coordination



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office 620 South Walker Street Bloomington, IN 47403-2121

Phone: (812) 334-4261 Fax: (812) 334-4273

http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html



In Reply Refer To: February 19, 2020

Consultation Code: 03E12000-2020-SLI-0865

Event Code: 03E12000-2020-E-03940

Project Name: SR 59 Road Rehabilitation Project in Montgomery County (DES 1593272)

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

location, and/or may be affected by your proposed project

To Whom It May Concern:

The attached species list identifies any federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-federal representative) must consult with the Service if they determine their project "may affect" listed species or critical habitat.

Under 50 CFR 402.12(e) (the regulations that implement Section 7 of the Endangered Species Act) the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally. You may verify the list by visiting the ECOS-IPaC website http://ecos.fws.gov/ipac/ at regular intervals during project planning and implementation and completing the same process you used to receive the attached list. As an alternative, you may contact this Ecological Services Field Office for updates.

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at - http://www.fws.gov/midwest/endangered/section7/s7process/index.html. This website contains step-by-step instructions which will help you

Des. Nos. 1593272 & 1701591 Appendix C: Early Coordination

determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process.

For all wind energy projects and projects that include installing towers that use guy wires or are over 200 feet in height, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

Although no longer protected under the Endangered Species Act, be aware that bald eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*) and Migratory Bird Treaty Act (16 U.S.C. 703 *et seq*), as are golden eagles. Projects affecting these species may require measures to avoid harming eagles or may require a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at http://www.fws.gov/midwest/midwestbird/EaglePermits/index.html to help you determine if you can avoid impacting eagles or if a permit may be necessary.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

Official Species List

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

This species list is provided by:

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

Project Summary

Consultation Code: 03E12000-2020-SLI-0865

Event Code: 03E12000-2020-E-03940

Project Name: SR 59 Road Rehabilitation Project in Montgomery County (DES

1593272)

Project Type: TRANSPORTATION

Project Description: The project limits on SR 59 begin approximately 1.0 mile south of the

intersection with SR 47, at CR 1150 South, and extend north to SR 47. Specifically, the project is located in Brown Township, Bellmore and Alamo U.S. Geological Survey (USGS) Quadrangles, Township 17 North,

Range 6 West, Sections 25, 35, and 36.

The proposed road rehabilitation project (Des. No. 1593272) will involve milling and resurfacing the existing pavement, replacing curbs and storm sewer drain inlets, installing new storm sewer trunk lines along SR 59 (Main St.), regrading existing drainage ditches, and replacing existing sidewalks and curb ramps, as needed, to comply with Americans with Disabilities Act (ADA) standards. The existing roadway will be widened from the beginning of the project to the SR 59 (Main St) and SR 59 (Cross St) intersection (0.64 mile), and from north of the bridge over Little Racoon Creek to SR 47 (0.05 mile); however, the approach to the SR 59 and SR 47 intersection will only require milling and overlay. Drainage through the first 600 feet of the project will be conveyed by open ditches and drive culverts.

All work will take place within 50 feet of the existing roadway surface. Approximately 0.95 acre(s) of permanent and 0.35 acre(s) of temporary right-of-way will be needed for this project. The maximum depth of excavation is not expected to exceed 12 feet below ground surface (bgs). The maintenance of traffic (MOT) would involve a detour utilizing SR 234, SR 231, and SR 236 to reroute traffic during construction activities. SR 59 is to remain open during the Parke County Covered Bridge Festival. Access to all properties would be maintained during construction.

Suitable summer habitat is located adjacent to the project area. Approximately 0.13 acres of tree clearing will be required along east side of SR 59, at the southern project area terminus. Approximately 10 trees in various locations along the project area will be cleared. The Dominant tree species to be cleared is silver maple. Tree clearing is expected to take

place during February/March of 2022.

A review of the USFWS Database by INDOT Crawfordsville District did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. Temporary lighting will be utilized during construction. The project will not involve the replacement or installation of permanent lighting. Construction is anticipated to begin in late Winter/early Spring 2022.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/39.87704644816705N87.04463828292617W



Counties: Montgomery, IN

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

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

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

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

Mammals

NAME STATUS

Indiana Bat *Myotis sodalis*

Endangered

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/5949

Species survey guidelines:

https://ecos.fws.gov/ipac/guideline/survey/population/1/office/31440.pdf

Northern Long-eared Bat Myotis septentrionalis

Threatened

C-36

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

 Incidental take of the NLEB is not prohibited here. Federal agencies may consult using the 4(d) rule streamlined process. Transportation projects may consult using the programmatic process. See www.fws.gov/midwest/endangered/mammals/nleb/index.html

Species profile: https://ecos.fws.gov/ecp/species/9045

Critical habitats

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

Des. Nos. 1593272 & 1701591

Appendix C: Early Coordination



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office 620 South Walker Street Bloomington, IN 47403-2121

Phone: (812) 334-4261 Fax: (812) 334-4273

http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html



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In Reply Refer To: February 19, 2020

Consultation Code: 03E12000-2020-SLI-0866

Event Code: 03E12000-2020-E-03942

Project Name: SR 59 Bridge Replacement Project in Montgomery County (DES 1701591)

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

location, and/or may be affected by your proposed project

To Whom It May Concern:

The attached species list identifies any federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-federal representative) must consult with the Service if they determine their project "may affect" listed species or critical habitat.

Under 50 CFR 402.12(e) (the regulations that implement Section 7 of the Endangered Species Act) the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally. You may verify the list by visiting the ECOS-IPaC website http://ecos.fws.gov/ipac/ at regular intervals during project planning and implementation and completing the same process you used to receive the attached list. As an alternative, you may contact this Ecological Services Field Office for updates.

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at - http://www.fws.gov/midwest/endangered/section7/ s7process/index.html. This website contains step-by-step instructions which will help you

Des Nos 1593272 & 1701591 Appendix C: Early Coordination

determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process.

For all wind energy projects and projects that include installing towers that use guy wires or are over 200 feet in height, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

Although no longer protected under the Endangered Species Act, be aware that bald eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*) and Migratory Bird Treaty Act (16 U.S.C. 703 *et seq*), as are golden eagles. Projects affecting these species may require measures to avoid harming eagles or may require a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at http://www.fws.gov/midwest/midwestbird/EaglePermits/index.html to help you determine if you can avoid impacting eagles or if a permit may be necessary.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

Official Species List

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

This species list is provided by:

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

Project Summary

Consultation Code: 03E12000-2020-SLI-0866

Event Code: 03E12000-2020-E-03942

Project Name: SR 59 Bridge Replacement Project in Montgomery County (DES

1701591)

Project Type: TRANSPORTATION

Project Description: The project is located on SR 59, approximately 0.07 mile south of SR 47.

Specifically, the project is located in Brown Township, Section 36,

Township 17 North, Range 6 West.

The proposed bridge replacement project (Des. No. 1701591) includes replacement of the existing bridge over Little Raccoon Creek (Structure No. 059-54-05061 A), which is located near the northern limits of the project. The new bridge will be a three (3) span continuous reinforced concrete slab bridge with a length of 103 feet 6 inches and width of 36 feet 4 inches.

All work will take place within 50 feet of the existing roadway surface. Approximately 0.15 acre(s) of permanent right-of-way will be needed for this project. No temporary right-of-way will be needed for this project. The maximum depth of excavation is not expected to exceed 12 feet below ground surface (bgs). The maintenance of traffic (MOT) would involve a detour utilizing SR 234, SR 231, and SR 236 to reroute traffic during construction activities. SR 59 is to remain open during the Parke County Covered Bridge Festival. Access to all properties would be maintained during construction.

Suitable summer habitat is located adjacent to the project area. Approximately 0.17 acre of tree clearing around the existing bridge will be required for the replacement work. The Dominant tree species to be cleared is silver maple. Tree clearing is expected to take place during February/March of 2022.

A review of the USFWS Database by INDOT Crawfordsville District did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The structure (059-54-05061 A) was inspected for the evidence of bats during the field visit conducted on June 26, 2019 by RQAW and no evidence of bats were observed. Per the Culvert Inspection Report, completed by INDOT on November 14, 2019, no evidence of bats was seen or heard in the culvert. Temporary lighting will be utilized

during construction. The project will not involve the replacement or installation of permanent lighting. Construction is anticipated to begin in late Winter/early Spring 2022.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/39.88098414084488N87.04561456058613W



Counties: Montgomery, IN

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

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

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

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

Mammals

NAME STATUS

Indiana Bat Myotis sodalis

Endangered

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/5949

Species survey guidelines:

https://ecos.fws.gov/ipac/guideline/survey/population/1/office/31440.pdf

Northern Long-eared Bat *Myotis septentrionalis*

Threatened

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

• Incidental take of the NLEB is not prohibited here. Federal agencies may consult using the 4(d) rule streamlined process. Transportation projects may consult using the programmatic process. See www.fws.gov/midwest/endangered/mammals/nleb/index.html

Species profile: https://ecos.fws.gov/ecp/species/9045

Critical habitats

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

Des. Nos. 1593272 & 1701591

Appendix C: Early Coordination

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United States Department of the Interior

FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office 620 South Walker Street Bloomington, IN 47403-2121

Phone: (812) 334-4261 Fax: (812) 334-4273

http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html



In Reply Refer To: February 20, 2020

Consultation Code: 03E12000-2020-I-0865 Event Code: 03E12000-2020-E-03960

Project Name: SR 59 Road Rehabilitation Project in Montgomery County (DES 1593272)

Subject: Concurrence verification letter for the 'SR 59 Road Rehabilitation Project in

Montgomery County (DES 1593272)' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects

within the Range of the Indiana Bat and Northern Long-eared Bat.

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request to verify that the **SR 59 Road Rehabilitation Project in Montgomery County (DES 1593272)** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, and may affect, but is <u>not likely to adversely affect</u> (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the threatened Northern long-eared bat (*Myotis septentrionalis*).

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

Des. Nos. 1593272 & 1701591 Appendix C: Early Coordination

For Proposed Actions that include bridge/structure removal, replacement, and/or maintenance activities: If your initial bridge/structure assessments failed to detect Indiana bats, but you later detect bats during construction, please submit the Post Assessment Discovery of Bats at Bridge/Structure Form (User Guide Appendix E) to this Service Office. In these instances, potential incidental take of Indiana bats may be exempted provided that the take is reported to the Service.

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or Northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required. If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation between the lead Federal action agency and this Service Office is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

Project Description

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

Name

SR 59 Road Rehabilitation Project in Montgomery County (DES 1593272)

Description

The project limits on SR 59 begin approximately 1.0 mile south of the intersection with SR 47, at CR 1150 South, and extend north to SR 47. Specifically, the project is located in Brown Township, Bellmore and Alamo U.S. Geological Survey (USGS) Quadrangles, Township 17 North, Range 6 West, Sections 25, 35, and 36.

The proposed road rehabilitation project (Des. No. 1593272) will involve milling and resurfacing the existing pavement, replacing curbs and storm sewer drain inlets, installing new storm sewer trunk lines along SR 59 (Main St.), regrading existing drainage ditches, and replacing existing sidewalks and curb ramps, as needed, to comply with Americans with Disabilities Act (ADA) standards. The existing roadway will be widened from the beginning of the project to the SR 59 (Main St) and SR 59 (Cross St) intersection (0.64 mile), and from north of the bridge over Little Racoon Creek to SR 47 (0.05 mile); however, the approach to the SR 59 and SR 47 intersection will only require milling and overlay. Drainage through the first 600 feet of the project will be conveyed by open ditches and drive culverts.

All work will take place within 50 feet of the existing roadway surface. Approximately 0.95 acre(s) of permanent and 0.35 acre(s) of temporary right-of-way will be needed for this project. The maximum depth of excavation is not expected to exceed 12 feet below ground surface (bgs). The maintenance of traffic (MOT) would involve a detour utilizing SR 234, SR 231, and SR 236 to reroute traffic during construction activities. SR 59 is to remain open during the Parke County Covered Bridge Festival. Access to all properties would be maintained during construction.

Suitable summer habitat is located adjacent to the project area. Approximately 0.13 acres of tree clearing will be required along east side of SR 59, at the southern project area terminus. Approximately 10 trees in various locations along the project area will be cleared. The Dominant tree species to be cleared is silver maple. Tree clearing is expected to take place during February/March of 2022.

A review of the USFWS Database by INDOT Crawfordsville District did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. Temporary lighting may be utilized during construction. The project will not involve the replacement or installation of permanent lighting. Construction is anticipated to begin in late Winter/early Spring 2022.

Determination Key Result

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

Qualification Interview

1. Is the project within the range of the Indiana bat^[1]?

[1] See Indiana bat species profile

Automatically answered

Yes

2. Is the project within the range of the Northern long-eared bat^[1]?

[1] See Northern long-eared bat species profile

Automatically answered

Yes

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

No

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

7. Is the project located **within** a karst area?

No

- 8. Is there *any* suitable^[1] summer habitat for Indiana Bat or NLEB **within** the project action area^[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)
 - [1] See the Service's summer survey guidance for our current definitions of suitable habitat.
 - [2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the national consultation FAQs.

Yes

- 9. Will the project remove *any* suitable summer habitat^[1] and/or remove/trim any existing trees **within** suitable summer habitat?
 - [1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat. *Yes*
- 10. Will the project clear more than 20 acres of suitable habitat per 5-mile section of road/rail? *No*

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

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

No

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

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

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

- 17. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors occur?
 - *B)* During the inactive season
- 18. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces? *Yes*
- 19. Will the tree removal alter *any* **documented** Indiana bat or NLEB roosts and/or alter any surrounding summer habitat **within** 0.25 mile of a documented roost?
 No
- 20. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

No

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

22.	Will the removal of habitat or the removal/trimming of trees include installing new or replacing existing permanent lighting? No
23.	Does the project include wetland or stream protection activities associated with compensatory wetland mitigation? No
24.	Does the project include slash pile burning? No
25.	Does the project include <i>any</i> bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)? <i>No</i>
26.	Does the project include the removal, replacement, and/or maintenance of <i>any</i> structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.) No
27.	Will the project involve the use of temporary lighting <i>during</i> the active season? <i>Yes</i>
28.	Is there <i>any</i> suitable habitat within 1,000 feet of the location(s) where temporary lighting will be used? <i>Yes</i>
29.	Will the project install new or replace existing permanent lighting? <i>No</i>
30.	Does the project include percussives or other activities (not including tree removal/trimming or bridge/structure work) that will increase noise levels above existing traffic/background levels? No

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

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

Yes

- 32. Will the project raise the road profile **above the tree canopy**? *No*
- 33. Are the project activities that are not associated with habitat removal, tree removal/ trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives consistent with a No Effect determination in this key?

Automatically answered

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

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

Automatically answered

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

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

Automatically answered

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

36. General AMM 1

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

Yes

37. Tree Removal AMM 1

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

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

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

Yes

38. Tree Removal AMM 3

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

Yes

39. Tree Removal AMM 4

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

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

Yes

40. Lighting AMM 1

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

Yes

Project Questionnaire

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

Yes

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

No

3. How many acres^[1] of trees are proposed for removal between 0-100 feet of the existing road/rail surface?

[1] If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

1.03

Avoidance And Minimization Measures (AMMs)

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

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.

LIGHTING AMM 1

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

TREE REMOVAL AMM 1

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

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>.

TREE REMOVAL AMM 3

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

TREE REMOVAL AMM 4

Do not remove **documented** Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or **documented** foraging habitat any time of year.

Determination Key Description: FHWA, FRA, FTA Programmatic Consultation For Transportation Projects Affecting NLEB Or Indiana Bat

This key was last updated in IPaC on December 02, 2019. Keys are subject to periodic revision.

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

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



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office 620 South Walker Street Bloomington, IN 47403-2121

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http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html



In Reply Refer To: February 20, 2020

Consultation Code: 03E12000-2020-I-0866 Event Code: 03E12000-2020-E-03957

Project Name: SR 59 Bridge Replacement Project in Montgomery County (DES 1701591)

Subject: Concurrence verification letter for the 'SR 59 Bridge Replacement Project in

Montgomery County (DES 1701591)' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects

within the Range of the Indiana Bat and Northern Long-eared Bat.

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request to verify that the **SR 59 Bridge Replacement Project in Montgomery County (DES 1701591)** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, and may affect, but is <u>not likely to adversely affect</u> (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the threatened Northern long-eared bat (*Myotis septentrionalis*).

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

Des. Nos. 1593272 & 1701591 Appendix C: Early Coordination

For Proposed Actions that include bridge/structure removal, replacement, and/or maintenance activities: If your initial bridge/structure assessments failed to detect Indiana bats, but you later detect bats during construction, please submit the Post Assessment Discovery of Bats at Bridge/Structure Form (User Guide Appendix E) to this Service Office. In these instances, potential incidental take of Indiana bats may be exempted provided that the take is reported to the Service.

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or Northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required. If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation between the lead Federal action agency and this Service Office is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

Project Description

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

Name

SR 59 Bridge Replacement Project in Montgomery County (DES 1701591)

Description

The project is located on SR 59, approximately 0.07 mile south of SR 47. Specifically, the project is located in Brown Township, Section 36, Township 17 North, Range 6 West.

The proposed bridge replacement project (Des. No. 1701591) includes replacement of the existing bridge over Little Raccoon Creek (Structure No. 059-54-05061 A), which is located near the northern limits of the project. The new bridge will be a three (3) span continuous reinforced concrete slab bridge with a length of 103 feet 6 inches and width of 36 feet 4 inches.

All work will take place within 50 feet of the existing roadway surface. Approximately 0.15 acre(s) of permanent right-of-way will be needed for this project. No temporary right-of-way will be needed for this project. The maximum depth of excavation is not expected to exceed 12 feet below ground surface (bgs). The maintenance of traffic (MOT) would involve a detour utilizing SR 234, SR 231, and SR 236 to reroute traffic during construction activities. SR 59 is to remain open during the Parke County Covered Bridge Festival. Access to all properties would be maintained during construction.

Suitable summer habitat is located adjacent to the project area. Approximately 0.17 acre of tree clearing around the existing bridge will be required for the replacement work. The Dominant tree species to be cleared is silver maple. Tree clearing is expected to take place during February/March of 2022.

A review of the USFWS Database by INDOT Crawfordsville District did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The structure (059-54-05061 A) was inspected for the evidence of bats during the field visit conducted on June 26, 2019 by RQAW and no evidence of bats were observed. Per the Culvert Inspection Report, completed by INDOT on November 14, 2019, no evidence of bats was seen or heard in the culvert. Temporary lighting may be utilized during construction. The project will not involve the replacement or installation of permanent lighting. Construction is anticipated to begin in late Winter/early Spring 2022.

Determination Key Result

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

Qualification Interview

1. Is the project within the range of the Indiana bat^[1]?

[1] See Indiana bat species profile

Automatically answered

Yes

2. Is the project within the range of the Northern long-eared bat^[1]?

[1] See Northern long-eared bat species profile

Automatically answered

Yes

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

No

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

7. Is the project located **within** a karst area?

No

- 8. Is there *any* suitable^[1] summer habitat for Indiana Bat or NLEB **within** the project action area^[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)
 - [1] See the Service's summer survey guidance for our current definitions of suitable habitat.
 - [2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the national consultation FAQs.

Yes

- 9. Will the project remove *any* suitable summer habitat^[1] and/or remove/trim any existing trees **within** suitable summer habitat?
 - [1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat. *Yes*
- 10. Will the project clear more than 20 acres of suitable habitat per 5-mile section of road/rail? *No*

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

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

No

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

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

- 16. Will the removal or trimming of habitat or trees occur within suitable but undocumented NLEB roosting/foraging habitat or travel corridors?
 Yes
- 17. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors occur?
 - *B)* During the inactive season
- 18. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces? *Yes*
- 19. Will the tree removal alter *any* **documented** Indiana bat or NLEB roosts and/or alter any surrounding summer habitat **within** 0.25 mile of a documented roost?
 No
- 20. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

No

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

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

No

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

No

24. Does the project include slash pile burning? *No*

- 25. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)? *Yes*
- 26. Is there *any* suitable habitat^[1] for Indiana bat or NLEB **within** 1,000 feet of the bridge? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's current <u>summer survey guidance</u> for our current definitions of suitable habitat. *Yes*

- 27. Has a bridge assessment^[1] been conducted **within** the last 24 months^[2] to determine if the bridge is being used by bats?
 - [1] See <u>User Guide Appendix D</u> for bridge/structure assessment guidance
 - [2] Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges that meet the physical characteristics described in the Programmatic Consultation, regardless of whether assessments have been conducted in the past. Due to the transitory nature of bat use, a negative result in one year does not guarantee that bats will not use that bridge/structure in subsequent years.

Yes

SUBMITTED DOCUMENTS

- Bridge-Structure Assessment Form_SR 59 Waveland DES 1593272 and 1701591.pdf https://ecos.fws.gov/ipac/project/SQGY3FZTLRGKFH7Z4X33JAM6KM/ projectDocuments/20382033
- Bridge-Structure Assessment Form_SR 59 Waveland DES 1701591.pdf https://ecos.fws.gov/ipac/project/SQGY3FZTLRGKFH7Z4X33JAM6KM/
 projectDocuments/20382039
- Bridge-Structure Assessment Form_SR 59 Waveland DES 1701591.pdf https://ecos.fws.gov/ipac/project/SQGY3FZTLRGKFH7Z4X33JAM6KM/
 projectDocuments/20382040
- 28. Did the bridge assessment detect *any* signs of Indiana bats and/or NLEBs roosting in/under the bridge (bats, guano, etc.)^[1]?
 - [1] If bridge assessment detects signs of *any* species of bats, coordination with the local FWS office is needed to identify potential threatened or endangered bat species. Additional studies may be undertaken to try to identify which bat species may be utilizing the bridge prior to allowing *any* work to proceed.

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

No

29. Will the bridge removal, replacement, and/or maintenance activities include installing new or replacing existing **permanent** lighting?
No

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

No

- 31. Will the project involve the use of **temporary** lighting *during* the active season? *Yes*
- 32. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **temporary** lighting will be used?

Yes

33. Will the project install new or replace existing **permanent** lighting? *No*

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

No

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

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

Yes

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

Automatically answered

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

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

Automatically answered

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

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

Automatically answered

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

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

Automatically answered

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

41. General AMM 1

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

Yes

42. Tree Removal AMM 1

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

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

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

Yes

43. Tree Removal AMM 3

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

Yes

44. Tree Removal AMM 4

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

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

Yes

45. Lighting AMM 1

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

Yes

Project Questionnaire

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

Yes

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

No

3. How many acres^[1] of trees are proposed for removal between 0-100 feet of the existing road/rail surface?

[1] If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0.17

4. Please describe the proposed bridge work:

The proposed bridge replacement project (Des. No. 1701591) includes replacement of the existing bridge over Little Raccoon Creek (Structure No. 059-54-05061 A), which is located near the northern limits of the project. The new bridge will be a three (3) span continuous reinforced concrete slab bridge with a length of 103 feet 6 inches and width of 36 feet 4 inches.

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

Late Winter/early Spring of 2022

6. Please enter the date of the bridge assessment:

June 26, 2019

Avoidance And Minimization Measures (AMMs)

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

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.

LIGHTING AMM 1

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

TREE REMOVAL AMM 1

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

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>.

TREE REMOVAL AMM 3

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

TREE REMOVAL AMM 4

Do not remove **documented** Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or **documented** foraging habitat any time of year.

Determination Key Description: FHWA, FRA, FTA Programmatic Consultation For Transportation Projects Affecting NLEB Or Indiana Bat

This key was last updated in IPaC on December 02, 2019. Keys are subject to periodic revision.

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

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