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1 1	C ategorical Exclusion Level 3 - table 1, CE Le						
Categorical Exclusion, Level 4 – The proposed action meets the criteria for Categorical Exclusion Manual Level 4 - table 1, CE Level Thresholds. Required Signatories: ESM, ES, FHWA							
	Environmental Assess s necessary to determin						documentation
	cuments prepared by or for Enact of Ena			on, it is not necessary fo	r the ESM of the	e district in which the	e project is
Approval ₋	ESM Signature		Oate	ES Signature		Date	
Release for	Fl r Public Involvement	HWA Signati	ure	Date	e:		
N/A			_	481	5	12-3-2020	
ESM Initi	als	Date		ES Initials		Date	
Certificati	on of Public Involvem		of Public I	nvolvement -	Date	_	
Note: Do no	t approve until after Section	on 106 public i	involvement	and all other environ	nmental requir	ements have been	satisfied.
INDOT ESI Env. Review				Da	te:		
	Organization of CE/EA Prepar	rer: Cameron	Fraser / RQA	W Corporation			

County	Putnam	Route	US 231 and CR 800 Sout	h Des. No.		1700091
		<u>Part I -</u>	PUBLIC INVOLV	<u>/EMENT</u>		
			olvement, providing for early nt should be commensura			
If N	lo, then:	ve a historic bridge proc Public Hearing Require	essed under the Historic Bri	yes dges PA*? ✓	N N	0 /
	ring is required for and the ACHP.		ocessed under the Historic	Bridges Programma	atic Agree	ment between INDOT
			tices, letters to affected pro es, etc.) have occurred for to		residents	(i.e. notice of entry)
Remarks:	25, 2019, noti	fying them about the	potentially affected proper project and that individua mple copy of the Notice of	ls responsible for	land surv	eying and field
	Transportation opportunity to local publication	(INDOT) Public Involves submit comment and/ n contingent upon the	m requirements described ment Manual which require for request a public hearing release of this document for equirements are fulfilled.	es the project spons g. Therefore, a lega	sor to offo al notice	er the public an will appear in a
Public Co	ntroversy on En	vironmental Grounds			Yes	No
Will the pro impacts?	oject involve subs	tantial controversy cond	erning community and/or na	atural resource		✓
Remarks:	Currently, the resources.	re is no substantial pu	blic controversy concernin	g impacts to the c	communit	y or to natural
Sponsor o	II - General f the Project: ne of the Facility:	I Project Ident INDOT US 231	ification, Descrip	tion, and De	-	Information Crawfordsville
Funding S	ource (<i>mark all th</i>	at apply): Federal [✓ State ✓ Local	Other*		
*If other is	selected, please	identify the funding sou	rce:			
This is r	age 2 of 31 Pro	oject name:	US 231 Added Auxiliary Lan	es Project	Date:	December 2, 2020

County	Putnar	<u>n</u>	Route	US 231 and CR 800 South	_ Des. No.		1700091
PURPOSE A	ND NEED:	:					
The need for the 800 South interestion and According to the intersection is Daily Traffic (A of accidents and dated December fatal and incaper the purpose of the south fatal and incaper the south fatal and inc	the project in the project in the Abbreviation of this project of the US 231 of this project of the US 231 of th	s due to the sed Engined for the functioning Traffic Forms of the following to a form the following	e poor Level of the poor Level of the poor Level of the poor Los of E (unstantial A7% (Append 00 South interest of the poor Los of	2. Purpose and Need) of Service (LOS) along this consistent angle from A (freent, completed for INDOT by f D (approaching unstable flocompleted by INDOT on Juristable flow) in less than 20 years. In pages I-2 to I-5). Another resection. According to INDOT' recorded at the US 231 and CO12 and 2016 (Appendix I, pages I) (stable flow, at or near free nother purpose of the project	e flow of traffic RQAW in Augu w) due to large e 11 2019, the ears, due to the need for the pr s Index of Crash R 800 South int ges I-6 to I-9).	c) to F (breaust 2020, the vehicle (to LOS for the projected and Frequency tersection, 3	akdown flow of ne corridor and rucks) queuing. nis corridor and Annual Average e to the number and Cost data, 3 of which were
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County	Putnam	Route	US 231 and CR 800 South	Des. No.	1700091	

auxiliary lanes project on US 231 in Putnam County, Indiana. Specifically, the project is within Warren Township, Sections 24 and 25 of Township 13 North, and Range 4 West of the Cloverdale U.S. Geological Survey (USGS) Quadrangle. The project limits extend along US 231 from approximately 0.27 mile north of I-70 to approximately 1.05 miles north of I-70, for a total length of 0.78 mile. A portion of the project will take place along CR 800 South, extending from approximately 0.10 mile west of the US 231 intersection to approximately 0.03 mile east of the US 231 intersection, for a total length of approximately 0.13 mile (Appendix B, pages B-1 and B-2).

Existing Conditions: This section of US 231 is classified as an Other Principal Arterial and is part of the National Highway System (NHS). Within the project area, US 231 consists of two travel lanes in each direction (northbound and southbound) from I-70 to approximately 0.16 mile south of CR 800 South, where it then reduces to one travel lane in each direction to the northern terminus of the project. The travel lanes are 12 feet wide with 8 feet wide paved shoulders. From I-70 to approximately 0.16 mile south of CR 800 South, the northbound and southbound lanes are separated by an approximately 30-foot wide asphalt median with drainage inlets. From approximately 0.16 mile south of CR 800 South to approximately 200 feet north, the asphalt median reduces in width until it is no longer present. The existing INDOT right-of-way width along US 231 varies from approximately 70 feet to 200 feet from the roadway centerline throughout the project corridor. Adjacent land use primarily consists of agricultural land and industrial properties.

CR 800 South consists of one travel in each direction (eastbound and westbound). The travel lanes along CR 800 South, west of US 231, are 12 feet wide. The travel lanes along CR 800 South, east of US 231, vary in width from 8 feet 2 inches to 12 feet 5 inches. The shoulders along CR 800 South are 4 feet wide (unpaved). The intersection of US 231 and CR 800 South does not have traffic signals and is a two-way stop for eastbound and westbound traffic along CR 800 South. The existing INDOT right-of-way width along CR 800 South varies from approximately 35 feet to 80 feet throughout the project corridor (Appendix B, pages B-3 to B-9).

Preferred Alternative: The project will include the addition of turn lanes on US 231 at the following locations:

- one southbound left turn lane will be added at the High Street intersection;
- one northbound left turn lane will be added at the PEI Pipeline Service entrance (approximately 0.16 mile north of the High Street and US 231 intersection);
- one northbound left turn lane and one northbound right turn lane will be added at the CR 800 South intersection;
- and one southbound left turn lane and one southbound right turn lane will be added at the CR 800 South intersection.

The turn lanes will each be 11 feet in width. The project will also include the addition of one 12-foot wide acceleration lane with a 10-foot wide paved shoulder on northbound US 231 and one 12-foot wide acceleration lane with a 10-foot wide paved shoulder on southbound US 231. The northbound acceleration lane will extend north from CR 800 South to the northern project area terminus, where it will merge left into the existing northbound travel lane. The southbound acceleration lane will extend from CR 800 South to approximately 0.16 mile south, where it will connect directly into the existing right-side southbound travel lane. Through lanes within the project area will be 12 feet in width. In order to meet current INDOT design standards, a raised concrete median will be constructed for the entire length of the project. The proposed median width will vary from 0 to 15 feet, with the majority of the median being 4 feet in width.

Segments of US 231 will be widened approximately 4 to 6 feet, along the east side of the roadway to accommodate the addition of the turn lanes and acceleration lanes. Widening the roadway will also require regrading the roadside ditches and roadside slope, generally on both sides of US 231, for the entire length of the project. At the intersection of US 231 and CR 800 South, the profile grade will be increased to reduce the existing slope. This will require full depth pavement replacement on CR 800 South, extending approximately 530 feet west and approximately 155 feet east of the US 231 intersection.

This is page 4 of 31	Project name:	US 231 Added Auxiliary Lanes Project	Date:	December 2, 2020

County	Putnam	Route	US 231 and CR 800 South	Des. No.	1700091

The proposed project will also include the installation and replacement of multiple drive culverts and cross culverts at various locations within the project area. This will require trenching the location and adding, or replacing, the pipe. One new 15-inch diameter by 68-foot long drainage pipe (Structure Number P101) will be installed beneath High Street. Nine existing drainage pipes (Structure Numbers P100, P102, P103, P107, P108, P109, P110, P111, and P112) located beneath US 231 and the adjacent drives will be replaced. Structure Number P100 will be an 18-inch diameter by 115-foot long corrugated metal pipe (CMP). Structure Number P102 will be a 30-inch diameter by 62-foot long CMP. Structure Number P103 will be a 24-inch diameter by 64-foot long CMP. Structure Number P107 will be a 42-inch diameter by 204-foot long CMP. Structure Number P109 will be a 36-inch diameter by 125-foot long CMP. Structure Number P110 will be an 18-inch diameter by 36-foot long CMP. Structure Number P111 will be a 24-inch diameter by 46-foot long CMP. Structure Number P112 will be a 30-inch diameter by 53-foot long CMP (Appendix B, pages B-30 to B-37). Refer to *Design Criteria for Bridges* section of this CE for more details.

For a majority of the project, the depth of excavation will be approximately 2 to 4 feet below ground surface (bgs); however, excavation to a depth of approximately 21 feet bgs will be required for the replacement of Structure Number P107, and approximately 6 feet bgs for all other structure work.

Approximately 2.59 acres of permanent right-of-way and approximately 0.07 acre of temporary right-of-way will be needed for this project. The proposed right-of-way width along US 231 will vary from approximately 70 to 130 feet from the roadway centerline. The proposed right-of-way width along CR 800 South will vary from approximately 30 to 120 feet from the roadway centerline (Appendix B, pages B-10 to B-41).

No residences or businesses will be relocated as part of this project. The maintenance of traffic (MOT) plan will utilize phased construction on US 231 to allow continued two-way traffic flowing to and from Cloverdale and surrounding areas. The east-leg of CR 800 South will remain open during construction, allowing traffic to and from US 231. The west-leg of CR 800 South will be closed at the US 231 intersection for approximately 2 to 4 weeks during construction. Access to the adjacent facilities along CR 800 South to the west of US 231 (Martin Marietta-Cloverdale Quarry and POET Biorefining) will be provided. Coordination with the adjacent facilities will occur throughout the design process. Local detours utilizing adjacent roadways will be used to guide drivers back to US 231 in either direction. Access to all properties will be maintained during construction (Appendix B, pages B-15 to B-29). The estimated project cost is \$3,627,047 (fiscal year [FY] 2022) with construction anticipated to take place during Spring 2022.

The termini for the project along US 231 are logical because the project extends north on US 231 to allow for the addition of the northbound acceleration lane and extends south on US 231 to allow for the addition of the southbound acceleration lane, the left turn lanes at the High Street intersection and the PEI Pipeline Service entrance, and the raised concrete median. The termini for the project along CR 800 South are logical because the project extends east and west to tie the new pavement, required for slope reduction, into the existing pavement. The project also has independent utility because construction of this project is not dependent on any other projects in the area; there are no other known plans for expansion of US 231.

The preferred alternative satisfies the purpose and need of the project by improving the LOS to a C (stable flow, at or near free flow) or better along this corridor of US 231 and at the US 231 and CR 800 South intersection, and by reducing the number of crashes at the US 231 and CR 800 South intersection.

This is page 5 of 31	Project name:	US 231 Added Auxiliary Lanes Project	Date:	December 2, 2020
			<u> </u>	

OTHER 41 T		CONCIDENT				
		CONSIDERED:	-Nothing Alter	native and an explana	ation of why each	n discarded alternative
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County	Putnam		-	S 231 and CR 8	300 South	Des. No.	1700091
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	00 South I Classification:	Local Road					
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		Forda Alica co		D			
Pridge Type	o:	Existing	00 fast	Propo		-+	
Bridge Type	e:	18-inch diamete	er x 98-100t		meter x 156-fo	ot	
Number of	Snane:	long CMP		long CMP			
Weight Res	•	N/A	ton	N/A	ton		
Height Res		-	ft.		ft.		
Curb to Cur		N/A	ft.	N/A	ft.		
	Outside Width:	N/A	it. ft.	N/A	ft.		
		N/A	ft.	N/A			
Shoulder W	Channel Work:	N/A	IL.	N/A	ft.		
Length of C	manner work.	N/A		345	Π.		
Desc	ribe bridges and s	tructures: provid	de specific loc	ation informa	tion for small s	structures.	
Remarks:							rimately 500 feet south
	_			_			ravels east through the
							r by 156-foot long CMP
	_	_		-			
					•		JNT to Limestone Creek
	•	•	_				r to the Streams, Rivers,
	Watercourses &	Jurisdictional E	Ditches sectio	n of this doci	iment for furt	her details of s	stream impacts.
This is pa	age 7 of 31 Proje	ect name:	US 23	31 Added Auxi	liary Lanes Proje	ect [Date: December 2, 2020

County _	Putnam		oute	US 231 and CR 800 So	-	Des.	No.	1700091
Structure/N	IBI Number(s):	Structure Numbe	er P111	Sufficiency Rating	N/A			
							(Rat	ting, Source of Information)
	Е	xisting		Proposed				
Bridge Typ		24-inch diamet	er x 42-foot		er x 46-foo	t long	1	
		long CMP		CMP				
Number of	•	1	Τ.	1				
Weight Res		N/A	ton	N/A	ton			
Height Res		N/A N/A	ft. ft.	N/A N/A	ft. ft.			
	Outside Width:	N/A	ft.	N/A	ft.			
Shoulder V		N/A	ft.	N/A	ft.			
Length of C	Channel Work:	N/A]	N/A	ft.			
D # 1 1	dana a colorio de		teta i e e	n information for sma	II =4: · · ·			
	stormwater to replaced with 35). Structure within roadsio	o the north under a 24-inch diame Number P111 de ditch (RSD) 5	er the adja eter by 46- will conve i. The inst	the CR 800 South int cent access drive. The foot long CMP (Struct y stormwater to the allation of Structure al water resource). Reference to the second control of the second co	e existing ture Num north ur Number	struc ber Pi ider tl P111	ture w l11) (A ne adja will im	ill be removed and ppendix B, page B-acent access drive, pact Wetland B, a
Bridge Typ		ixisting 15-inch diamet	ery 10 foot	Proposed 20 inch diamet	ory 52 foo	`	ating, S	Source of Information)
Driuge Typ	С.	long CMP	ei x 40-1001	30-inch diamet	ei x 55-100	t lollg		
Number of	Spans:	1		1				
Weight Res	strictions:	N/A	ton	N/A	ton		_	
Height Res		N/A	ft.	N/A	ft.			
Curb to Cu	Outside Width:	N/A	ft. ft.	N/A N/A	ft. ft.			
Shoulder V		N/A N/A	ft.	N/A N/A	ft.			
	Channel Work:	N/A	'''	N/A	ft.			
		· ·	1					
Describe bri Remarks:	One 24-inch of 231, approxing stormwater the replaced with Structure Nurus 6. The install	diameter by 40- nately 1,060 fee o the north und a 30-inch diame nber P112 will c ation of Structu	foot long (et north o der the ad eter by 53- onvey stor ure Numbe	f the CR 800 South in jacent access drive. foot long CMP (Struct mwater to the north	an acces ntersection The existing ture Num under the Wetland	s drivers on. The street of th	e exist fucture .12) (A _l cent ac <i>Naters</i>	tent to the west of US ling structure conveys will be removed and ppendix B, page B-35). ccess drive, within RSD of the United States etails.
This is pa	ge 8 of 31 Proj	ect name:	US	5 231 Added Auxiliary Li	anes Projec	ct	ı	Date: December 2, 2020

County _	Putnam	Route∪	S 231 and CR 800 South	_ Des. No	1700091
		Structure Numbers P100, P101, P102, P103, P107, P109, and			
Structure/NB	l Number(s):	P110 (7 total)	Sufficiency Rating:	N/A	
			=	(Rating, Source	of Information)

Existing Proposed

		-9		
Bridge Type:		Ps ranging from 15 to 3		MPs ranging from 18 to 42
	inches in di	ameter by 18 to 42 feet		iameter by 36 to 204 feet in
	length		length	
Number of Spans:	1		1	
Weight Restrictions:	N/A	ton	N/A	ton
Height Restrictions:	N/A	ft.	N/A	ft.
Curb to Curb Width:	N/A	ft.	N/A	ft.
Outside to Outside Width:	N/A	ft.	N/A	ft.
Shoulder Width:	N/A	ft.	N/A	ft.
Length of Channel Work:	N/A		N/A	ft.

Describe bridges and structures; provide specific location information for small structures.

Remarks:

One existing 18-inch diameter by 62-foot long CMP is located beneath High Street adjacent to the east of US 231. The existing structure conveys stormwater north under High Street. The existing structure will be removed and replaced with an 18-inch diameter by 115-foot long CMP (Structure Number P100) (Appendix B, page B-30). Structure Number P100 will convey stormwater to the north under High Street, within RSD 1 and RSD 2. The installation of Structure Number P100 will not impact any jurisdictional waterways.

One 15-inch diameter by 69-foot long CMP (Structure Number P101) will be installed under a commercial property drive located adjacent to the west of US 231, immediately northwest of the High Street intersection (Appendix B, page B-30). Structure Number P101 will convey stormwater to the north under the commercial property drive, and into RSD 3. The installation of Structure Number P101 will not impact any jurisdictional waterways.

One 24-inch diameter by 33-foot long CMP is located adjacent to the east of US 231, approximately 550 feet north of the High Street intersection. The existing structure conveys stormwater north under an access drive to Old SR 43. The existing structure will be replaced with 30-inch diameter by 62-foot long CMP (Structure Number P102) (Appendix B, page B-31). Structure Number P102 will convey stormwater to the north under the access drive, within RSD 2. The installation of Structure Number P102 will not impact any jurisdictional waterways.

One 18-inch wide by 12-inch tall by 37-foot long elliptical CMP is located adjacent to the west of US 231, approximately 910 feet north of the High Street intersection. The existing structure conveys stormwater north under a commercial property drive. The existing structure will be replaced with 24-inch diameter by 64-foot long CMP (Structure Number P103) on new alignment (Appendix B, page B-31). Structure Number P103 will convey stormwater to the north under the commercial property drive, within RSD 3. The installation of Structure Number P103 will not impact any jurisdictional waterways.

One 36-inch diameter by 192-foot long CMP is located under US 231, approximately 1,080 feet south of the CR 800 South intersection. The existing structure conveys stormwater to the east/northeast under US 231. The existing structure will be removed and replaced with a 42-inch diameter by 204-foot long CMP (Structure Number P107) (Appendix B, page B-32). Structure Number P107 will convey storm water to the

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0	Indiana Department of Transportation							
County	Putnam	Route	US 231 and CR 800 South	Des. No.	1700091			
	east/northeast under any jurisdictional wat		3 to RSD 2. The installation of	Structure Num	ber P107 will not impact			
	intersection. The exis be removed and repl alignment (Appendix	ting structure con aced with a 36-in B, page B-33). Stru	g CMP is located under US veys stormwater to the east u ch diameter by 125-foot long acture Number P109 will conve Structure Number P109 will r	inder US 231. Th CMP (Structure ey stormwater to	ne existing structure will Number P109) on new o the east under US 231,			
	approximately 490 fe the north under the diameter by 36-foot lo Number P110 will co	et north of the CR access drive. The ong CMP (Structur onvey stormwater	CMP is located under an acce 800 South intersection. The ele existing structure will be release. Number P110) on new aligner to the north under the adjuil not impact any jurisdiction	xisting structure emoved and re ment (Appendix acent access di	e conveys stormwater to placed with an 18-inch B, page B-34). Structure			
MAINTEN	ANCE OF TRAFFIC	(MOT) DURING	CONSTRUCTION:					
s a tempora Will the proj Provisior Provisior Provisior Will the prop	ns will be made for acce ns will be made for throu ns will be made to accor posed MOT substantially	ss by local traffic a gh-traffic depende nmodate any local v change the envir		,	Yes No			
Remarks:	and surrounding area while the northbound the northbound lane remain open during of closed to through train	s. For phase 1, no d lanes are under of s while the southle construction, allow ffic at the US 231 i	on on US 231 to keep two-warthbound traffic will be direct construction. For phase 2, sou bound lanes are under construing traffic to and from US 23 intersection for approximately South to the west of US 231	ed to one of the thbound traffic uction. The east 31. The west-leg 2 to 4 weeks du	e southbound travel lanes will be directed to one of the end of CR 800 South will g of CR 800 South will be uring construction. Access			

County	Putnam	Route	US 231	and CR 800 South	Des. No.		1700091	
ESTIMATED PROJECT COST AND SCHEDULE:								
Engineering: \$	390,000	_ Right-of-Wa	ay: \$	100,000	Construction:	\$_	3,578,047	(2022)
Anticipated Start	Date of Construction:	This project	is antici	pated to begin in Sp	ring of 2022			
Date project inco	rporated into STIP <u>Ju</u>	ıly 2, 2019 (Apı	pendix F	I, page H-1)				
Is the project in a	Yes an MPO Area?	No ✓						
Name of MPO	N/A							
Location of Project in TIP The project area is not located within a Metropolitan Planning Organization (MPO); as such, it is not listed within an MPO Transportation Improvement Program (TIP).								
Date of incorporation by reference into the STIP N/A								
RIGHT OF WA	Y :							

Amount (acres)						
Land Use Impacts	Permanent	Temporary				
Residential	0	0.07				
Commercial	2.12	0				
Agricultural	0	0				
Forest	0.47	0				
Wetlands	0	0				
Other	0	0				
TOTAL	2.59	0.07				

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 US 231 varies from approximately 70 feet to 200 feet from the roadway centerline throughout the project area. The existing right-of-way width along CR 800 South varies from approximately 35 feet to 80 feet from the roadway centerline throughout the project area. The proposed right-of-way width along US 231 will vary from approximately 70 to 130 feet from the roadway centerline. The proposed right-of-way width along CR 800 South will vary from approximately 30 to 120 feet from the roadway centerline.

The project will require approximately 2.59 acres of permanent right-of-way, consisting of 2.12 acres of commercial land and 0.47 acre of forested land. The right-of-way required from commercial land is primarily

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ty	Putnam	_ Route	US 231 and CR 800 South	Des. No.	1700091
	forested land is locate require approximately	ed along US 231, a y 0.07 acre of tem	outh of the CR 800 South inter adjacent to the north of the H aporary right-of-way. The requ ant of US 231 and CR 800 Sout	High Street intersed uired temporary rig	ction. The project w ght-of-way consists
	approximately 2.66 a	acres of permane 1 to C-3). Since the	on letter sent to agencies or ent right-of-way and no tem at time, the design has been re ht-of-way.	porary right-of-wa	ay would be neede
	•	•	temporary right-of-way amo District Environmental Section	• .	

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

SECTION A – ECOLOGICAL RESOURCES Presence Yes No Streams, Rivers, Watercourses & Jurisdictional Ditches Federal Wild and Scenic Rivers State Natural, Scenic or Recreational Rivers Nationwide Rivers Inventory (NRI) listed Outstanding Rivers List for Indiana Navigable Waterways

Remarks:

Per a desktop review, a field visit conducted on September 23, 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 Red Flag Investigation (RFI) report (Appendix E, page E-9), twenty stream segments are mapped within 0.5 mile of the project area. Two stream segments, associated with an unnamed tributary (UNT) to limestone Creek, are mapped within the project area.

A *Waters of the U.S. Determination Report* was completed by RQAW and approved by the INDOT Ecology and Waterway Permitting Office on February 25, 2020 (Appendix F, pages F-1 to F-29). It was determined that one stream, UNT to limestone Creek (documented as UNT 1 in the *Waters of the U.S. Determination Report*), is located within the project area and is likely to be considered jurisdictional (i.e. *Waters of the United States*). The U.S. Army Corps of Engineers (USACE) makes all determinations regarding jurisdiction.

Per the field visit, and as described in the *Waters of the U.S. Determination Report*, seven roadside ditches (RSD 1 through RSD 7) were identified within the project area (Appendix B, page B-3; and Appendix F, pages F-1 to F-6). The ditches are located along the east and west sides of US 231 and convey stormwater drainage from the existing roadway and surrounding landscape to the UNT to Limestone Creek. The roadside ditches did not exhibit ordinary high water mark (OHWM) characteristics and are not captured streams. Therefore, the roadside ditches are not likely to be considered jurisdictional (i.e. *Waters of the United States*).

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County	Putnam	Route	US 231 and CR 800 South	Des. No.	1700091	
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UNT to Limestone Creek flows in a northwest to southeast direction under US 213 (Appendix B, page B-3). The stream was not flowing at the time of the field investigation. No data was available for UNT to Limestone Creek on the USGS StreamStats website (https://streamstats.usgs.gov/ss/); thus, the upstream drainage area for the stream was not provided. Since no data was available through USGS Streamstats, the upstream drainage area of UNT to Limestone Creek is assumed to have an upstream drainage area less than one square mile. This stream has OHWM characteristics of 1.75 feet in width and 6 inches in depth. UNT to Limestone Creek flows into Limestone Creek, which then flows into Deer Creek, which converges with Mill Creek and Big Walnut Creek, which then merges into Eel River. Eel River then flows into the Wabash River, a Traditionally Navigable Waterway (TNW) (Appendix F, pages F-1 to F-6). Based on these criteria, this stream is likely to be considered jurisdictional (i.e. Waters of the United States). The UNT to limestone Creek is not listed as a Federal Wild and Scenic River or on the National Rivers Inventory. The UNT to limestone Creek is also not listed as a State Natural, Scenic and Recreational River or as an Outstanding River for Indiana.

Work within the stream channel of UNT to Limestone Creek includes replacing the existing 18-inch diameter by 98-foot long CMP with a 36-inch diameter by 156-foot long CMP (Structure Number P108) (Appendix B, page B-33), regrading the existing ditch, realigning the stream channel, and the placement of riprap. Work within the stream channel will permanently impact approximately 345 linear feet of the UNT to Limestone Creek below the OHWM. Stream mitigation will not be required since new impacts (247 linear feet) will not exceed 300 linear feet. A USACE Section 404 Regional General Permit and Indiana Department of Environmental Management (IDEM) Section 401 Water Quality Certification Permit will be required due to stream impacts.

Early coordination letters were sent electronically to the USACE, Indiana Department of Natural Resources (IDNR) Division of Fish and Wildlife, and IDEM on April 17, 2020 (Appendix C, pages C-1 to C-3). The USACE did not respond to the early coordination letter. An automated response was received from IDEM on April 17, 2020; however, the response did not contain project specific comments (Appendix C, pages C-4 to C-13).

The IDNR Division of Fish and Wildlife responded to early coordination efforts on May 15, 2020 with recommendations to avoid or minimize impacts to fish, wildlife, and botanical resources (Appendix C, pages C-14 to C-15). Recommendations regarding streams generally include 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 agency recommendations are included in the *Environmental Commitments* section of this CE document.

	<u>Presence</u>		<u>impacts</u>	
Other Surface Waters			Yes	No
Reservoirs				
Lakes	✓			✓
Farm Ponds				
Detention Basins				
Storm Water Management Facilities				
Other:				

Remarks:

Per a desktop review, a field visit conducted on September 23, 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-9), eleven lakes are located within 0.5 mile of the project area. The nearest lake is mapped within the project area.

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Waterway Permitting portion of the lake movere determined to	Office on February 2! apped within the projo be located within the	5, 2020 (Appendix F, p ect area is actually ide	ages F-1 to F-29). It was determined that t ntified as a wetland. No other surface wat	he ers
on April 17, 2020 (Ap An automated respo	pendix C, pages C-1 to nse was received fror	o C-3). The USACE did n IDEM on April 17, 2	not respond to the early coordination lett	er.
recommendations to C-14 to C-15). The res	avoid or minimize im ponse did not contain	pacts to fish, wildlife specific comments o	and botanical resources (Appendix C, pagn other surface waters. All applicable ager	ges
		<u>Presc</u>	ence <u>Impacts</u> Yes No	
-	_ ` ` ` `	-		
		·	the total wetland area impacted above.)	
			Comments	
A PEIVI	0.032	0.006	The state of the s	ıth
B PEM	0.007	0.003	located on the east side of US 231, approximately 0.20 mile north of CR 800 Sou	uth
PEM	0.031	0.016	located on the west side of US 231,	ıth
) PSS	0.168	0.029	located on the west side of US 231,	
Mark all that anniv	!	<u>Documentation</u>	ES Approval Dates	
termination lineation ated Waters Determina	tion	✓ ✓	February 25, 2020 February 25, 2020	
It in (Mark all that apply ntial adverse impacts to ntially increased project engineering, traffic, ma ntial adverse social, eco ject not meeting the ide	y and explain): o adjacent homes, bus costs; intenance, or safety p pnomic, or environmer entified needs.	iness or other improversions; roblems; ntal impacts, or	ed properties;	
	Waterway Permitting portion of the lake may were determined to more information on Early coordination let on April 17, 2020 (Ap An automated responsive project specific community of the IDNR Division of recommendations to C-14 to C-15). The responsive project specific and area: Occupant of the IDNR Division of recommendations are recommendations are recommendations are recommendations are permitted by the IDNR Division of recommendations are recommendations are recommendations are permitted by the IDNR Division of the	Waterway Permitting Office on February 2: portion of the lake mapped within the projection of the lake mapped within the projection of the lake mapped within the more information on the wetland. Early coordination letters were sent electron on April 17, 2020 (Appendix C, pages C-1 to An automated response was received from project specific comments (Appendix C, pages C-1 to An automated response was received from project specific comments (Appendix C, pages C-1 to An automated response was received from project specific comments (Appendix C, pages C-1 to An automated response did not contain recommendations to avoid or minimize im C-14 to C-15). The response did not contain recommendations are included in the Environmendation has not been made for non-isolated/iscontain and permitted in the Internation of the Internation lineation lineation land waters Determination lineation land lineation l	Waterway Permitting Office on February 25, 2020 (Appendix F, portion of the lake mapped within the project area is actually ide were determined to be located within the project area. See th more information on the wetland. Early coordination letters were sent electronically to the USACE, on April 17, 2020 (Appendix C, pages C-1 to C-3). The USACE did An automated response was received from IDEM on April 17, 2 project specific comments (Appendix C, pages C-4 to C-13). The IDNR Division of Fish and Wildlife responded to early corecommendations to avoid or minimize impacts to fish, wildlife, C-14 to C-15). The response did not contain specific comments or recommendations are included in the Environmental Commitmental Commitm	Early coordination letters were sent electronically to the USACE, IDNR Division of Fish and Wildlife, and IDE on April 17, 2020 (Appendix C, pages C-1 to C-3). The USACE did not respond to the early coordination lett An automated response was received from IDEM on April 17, 2020; however, the response did not contain project specific comments (Appendix C, pages C-4 to C-13). The IDNR Division of Fish and Wildlife responded to early coordination efforts on May 15, 2020 werecommendations to avoid or minimize impacts to fish, wildlife, and botanical resources (Appendix C, page C-14 to C-15). The response did not contain specific comments on other surface waters. All applicable ager recommendations are included in the Environmental Commitments section of this CE document. Presence

US 231 Added Auxiliary Lanes Project Date: December 2, 2020

This is page 14 of 31 Project name:

County Putna	n Route	US 231 and CR 800 South	Des. No.	1700091
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Remarks:

Per a review of the National Wetlands Inventory (NWI) online mapper (https://www.fws.gov/wetlands/data/mapper.html) on August 20, 2020 by RQAW, USGS topographic map (Appendix B, page B-2), and the water resources map in the RFI report (Appendix E, page E-9), eight wetlands are located within 0.5 mile of the project area. The nearest wetland is mapped approximately 0.05 mile west of the project area.

A *Waters of the U.S. Determination Report* was completed by RQAW and was approved by the INDOT Ecology and Waterway Permitting Office on February 25, 2020 (Appendix F, pages F-1 to F-29). It was determined that four wetlands (wetland A through wetland D) are located within the project area. The USACE makes all final determinations regarding jurisdiction.

Wetland A is approximately 0.032 acre in size and is a palustrine emergent wetland (PEM) located on the east side of US 231, approximately 0.35 mile south of CR 800 South (Appendix B, page B-3). Wetland A drains into the UNT to Limestone Creek. Two data points (A-1 and A-2) were taken to determine the boundary of Wetland A (Appendix F, pages F-10 to F-13). Data point A-1 was taken within Wetland A and exhibited hydrophytic vegetation, hydric soils, and wetland hydrology; thus, meeting the three criteria to be classified as a wetland per the *Corps of Engineers Wetland Delineated Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region Version 2.0 (2010)*. Data point A-2 was collected north of Wetland A and did not meet all three of the criteria to be considered within a wetland. This wetland is likely to be considered jurisdictional (i.e. *Waters of the United States*) due to its connectivity to the Wabash River (Appendix F, page F-5). Work within Wetland A will include regrading the existing ditch, permanently impacting approximately 0.006 acre of Wetland A.

Wetland B is approximately 0.007 acre in size and is a PEM located on the east side of US 231, approximately 0.20 mile north of CR 800 South (Appendix B, page B-3). Wetland B drains into Limestone Creek. Two data points (B-1 and B-2) were taken to determine the boundary of Wetland B (Appendix F, pages F-14 to F-17). Data point B-1 was taken within Wetland B and exhibited hydrophytic vegetation, hydric soils, and wetland hydrology; thus, meeting the three criteria to be classified as a wetland per the *Corps of Engineers Wetland Delineated Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region Version 2.0 (2010).* Data point B-2 was collected north of Wetland B and did not meet all three of the criteria to be considered within a wetland. This wetland is likely to be considered jurisdictional (i.e. *Waters of the United States*) due to its connectivity to the Wabash River (Appendix F, page F-5). The project will permanently impact approximately 0.003 acre of Wetland B within the construction limits.

Wetland C is approximately 0.031 acre in size and is a PEM located on the west side of US 231, approximately 0.20 mile north of CR 800 South (Appendix B, page B-3). Wetland C drains into the UNT to Limestone Creek. Two data points (C-1 and C-2) were taken to determine the boundary of Wetland C (Appendix F, pages F-18 to F-21). Data point C-1 was taken within Wetland C and exhibited hydrophytic vegetation, hydric soils, and wetland hydrology; thus, meeting the three criteria to be classified as a wetland per the Corps of Engineers Wetland Delineated Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region Version 2.0 (2010). Data point C-2 was collected west of Wetland C and did not meet all three of the criteria to be considered within a wetland. This wetland is likely to be considered jurisdictional (i.e. Waters of the United States) due to its connectivity to the Wabash River (Appendix F, page F-5). The project will impact approximately 0.016 acre of Wetland C within the construction limits.

Wetland D is approximately 0.168 acre in size and is a palustrine scrub-shrub wetland (PSS) located on the west side of US 231, approximately 0.13 mile south of CR 800 South (Appendix B, page B-3). Wetland D drains into the UNT to Limestone Creek. Two data points (D-1 and D-2) were taken to determine the boundary of

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County	Putnam	Route	US 231 and CR 800 South	Des. No.	1700091

Wetland D (Appendix F, pages F-22 to F-25). Data point D-1 was taken within Wetland D and exhibited hydrophytic vegetation, hydric soils, and wetland hydrology; thus, meeting the three criteria to be classified as a wetland per the *Corps of Engineers Wetland Delineated Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region Version 2.0 (2010)*. Data point D-2 was collected east of Wetland D and did not meet all three of the criteria to be considered within a wetland. This wetland is likely to be considered jurisdictional (i.e. *Waters of the United States*) due to its connectivity to the Wabash River (Appendix F, page F-5). The project will impact approximately 0.029 acre of Wetland D within the construction limits.

The project will result in approximately 0.054 acre of total wetland area impacts. Wetland impacts are necessary along the roadway to provide clearance for pavement widening and the associated ditch and slope regrading. Avoidance alternatives would not be practicable because the wetlands are present within the construction limits and would inhibit construction activities associated with pavement widening necessary to construct the added auxiliary lanes (acceleration, deceleration, and turn lanes). Because wetland impacts will not exceed 0.1 acre, wetland mitigation will not be required.

Early coordination letters were sent electronically to the USACE, IDNR Division of Fish and Wildlife, and IDEM on April 17, 2020 (Appendix C, pages C-1 to C-3). The USACE did not respond to the early coordination letter. An automated response was received from IDEM on April 17, 2020; however, the response did not contain project specific comments (Appendix C, pages C-4 to C-13).

The IDNR Division of Fish and Wildlife responded to early coordination efforts on May 15, 2020 with recommendations to avoid or minimize impacts to fish, wildlife, and botanical resources (Appendix C, pages C-14 to C-15). Recommendations regarding wetlands generally include implementing erosion and sediment control measures and mitigating at the appropriate ratio. All applicable agency recommendations are included in the *Environmental Commitments* section of this CE document.

Prosonco

Impacts

	rescrice	inipacts		
		Yes	No	
Terrestrial Habitat	✓	✓		
Unique or High Quality Habitat				

ornade of riight addity riabitat

Use the remarks box to identify each type of habitat and the acres impacted (i.e. forested, grassland, farmland, lawn, etc).

Remarks: Per a desktop review, a field visit conducted on September 23, 2019 by ROAW, and an aerial photograph

Per a desktop review, a field visit conducted on September 23, 2019 by RQAW, and an aerial photograph of the project area (Appendix B, page B-3), terrestrial habitat within the project area consists of maintained roadside grass with wooded and riparian habitat. Dominant tree species included silver maple (*Acer Saccharinum*) and black walnut (*Juglans nigra*). Dominant vegetation included bush honeysuckle (*Lonicera maackii*), multiflora rose (*Rosa multiflora*), poison ivy (*Toxicodendron radicans*), tall fescue (*Schedonorus arundinaceus*). Although no animals were observed, it is assumed that certain common animals are likely present within the project area (e.g. squirrels, raccoons, birds, etc.).

The total area of land disturbance is approximately 11 acres. Trees greater than three inches in diameter-at-breast-height (dbh) are within the construction limits. Approximately 0.76 acre of tree clearing will be needed along the southeast section of the project area. Tree clearing is necessary along the roadway to provide clearance for regrading. Avoidance alternatives would not be practicable because the trees are present within the construction limits and would inhibit construction activities associated with regrading.

Early coordination letters were sent electronically to the USACE, IDNR Division of Fish and Wildlife, and IDEM on April 17, 2020 (Appendix C, pages C-1 to C-3). The USACE did not respond to the early coordination letter.

This is page 16 of 31	Project name:	US 231 Added Auxiliary Lanes Project	Date:	December 2, 2020
		Form Version: June 2013 Attachment 2		

		Indiana De	partment of Transpo	rtation	
County	Putnam	Route	US 231 and CR 800 South	Des. No.	1700091
	An automated respo		from IDEM on April 17, 2020; , pages C-4 to C-13).	; however, the res	ponse did not contai
464	recommendations to C-14 to C-15). Recomminimizing tree and applicable agency redocument.	o avoid or minimize nmendations regar brush clearing, an ecommendations	fe responded to early coord e impacts to fish, wildlife, and ding terrestrial habitat general d mitigating impacts to non- are included in the <i>Environn</i>	I botanical resourd ally include reveget wetland forest at nental Commitme.	tes (Appendix C, page tating disturbed areas appropriate ratios. A ants section of this C
			served in the project area, or if bri ng wildlife crossings should be tak		s appear to be the sole
-		•	to the potential Karst Area of e footprint of the proposed pro	Indiana?	Yes No ✓/
	If yes, will the projectives box to identify any k October 13, 1993)		se karst features? o the project area. (Karst inves	stigation must com	ply with the Karst
Remarks:	in the October 13, 1 pages E-1 to E-13), t portion of the proje the project area dur Determination Repo Permitting Office on report. Impacts to th	993 Memorandum there are karst feat ct area is located ving the field visit of the was completed February 25, 2020 ne cave entrance defined.	t is located inside the designal of Understanding (MOU). Actures identified within or adjawithin a cave density area. No conducted on September 23, by RQAW and was approved (Appendix F, pages F-1 to F-25 ensity is not anticipated.	ccording to the RF ecent to the projec o karst features w , 2019 by RQAW. I by the INDOT Ec 9). No karst featur	I report (Appendix E, ct area. The northern rere identified within A Waters of the U.S. cology and Waterway res were noted in the
	exist in the project a within an area with	rea (Appendix C, pa moderate liquefa in the area, and	Indiana Geological Survey (IG ages C-18 to C-20). The IGS also ction potential, high potentia a 1% annual chance flood oril 17, 2020.	o stated that the p al for bedrock res	roject area is located ources, no sand and
	Programmatic Information (revised February Administration (FTA and Minimization Min	mal Consultation f 2018), between), and the USFWS. easure (AMM) 1: F ices, secondary c avoid impacts to te fueling areas and	ompleted on April 16, 2020 for the Indiana bat and north FHWA, Federal Railroad A The effect determination keen projects located within kars ontainment measures, or opossible hibernacula. Where I other major containment risk by (Appendix C, page C-40).	hern long-eared be dministration (FR ey included the Hil st areas, on-site pe other standard s e practicable, a 30	bat, dated May 2016 (A), Federal Transit bernacula Avoidance ersonnel will use best pill prevention and 0-foot buffer will be
	sent to the Cloverda	-	ent to the west of the project on 17, 2020 (Appendix C, pages	•	

		Indiana De	partment of Transp	ortation		
County	Putnam	Route	US 231 and CR 800 South	Des. No	1700091	<u>-</u>
				Presence	Impa	<u>cts</u>
Within th Any critic Federal	d or Endangered Speci le known range of any fo cal habitat identified with species found in project ecies found in project ar	ederal species nin project area area (based upon		✓ 	Yes	No
Is Section	n 7 formal consultation	required for this ac	Yes	No ✓		
Remarks:	13), the IDNR Putna (Appendix E, pages E ETR species located response letter dated American Badger (<i>Tax</i> the project area. How badger or its preferred applicable agency redocument.	om County Endan -12 to E-13). The li- within Putnam Co d May 15, 2020, to exidea taxus), a star wever, the IDNR I ed habitat are unlacommendations a	rt completed by RQAW on a gered, Threatened and Rahighlighted species on the lounty. Per the IDNR Division he Natural Heritage Prograte species of special concern Division of Fish and Wildlife ikely as a result of this program included in the Environ the Environ the USFWS Informatical Program in the USFWS Infor	ire (ETR) Species List reflect the feder n of Fish and Wildl m's database has been documed indicated that implect (Appendix C, paramental Commitmental Commitment	ist has been al and state ic life early coor leen checked, nted within 0.5 pacts to the Alages C-14 to Conts section of	checked dentified dination and the 5 mile of merican 3-15). All

website (https://ecos.fws.gov/ipac/) on May 19, 2020 by RQAW and an official species list was generated (Appendix C, pages C-22 to C-27). Per the official species list, the project area is within the range of the federally endangered Indiana bat (Myotis sodalis) and the federally threatened northern long-eared bat (Myotis septentrionalis).

Per the official species list, no additional species were found within the project area. The project qualifies for the *USFWS Interim Policy for the Review of Highway Transportation Projects in Indiana dated May 29, 2013*. As such, further coordination with the USFWS regarding other species is not needed.

The project qualifies for the *Range-wide Programmatic Informal Consultation for the Indiana bat and northern long-eared bat*, dated May 2016 (revised February 2018), between FHWA, FRA, FTA, and the USFWS. An effect determination key was completed on April 16, 2020 by RQAW, and 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 May 19, 2020 (Appendix C, pages C-28 to C-42). No response was received from the USFWS within the 14-day review period; therefore, it was concluded the USFWS concurs with the finding. AMMs are included as firm commitments in the *Environmental Commitments* section of this document.

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.

This is page 18 of 31	Project name:	US 231 Added Auxiliary Lanes Project	Date:	December 2, 2020
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		Indiana De _l	partment of Transp	ortation	
County	Putnam	Route	US 231 and CR 800 South	Des. No	1700091
SECTION	B – OTHER RESOUR	RCES			
Wellhea Public W Residen Source V Sole Sol If a SSA	Vater Resources d Protection Area Vater System(s) tial Well(s) Vater Protection Area(s) urce Aquifer (SSA) is present, answer the fo the Project in the St. Jose the FHWA/EPA SSA MOI tial Groundwater Assesta	llowing: eph Aquifer Systen J Applicable? nent Required?		No No	No V
Remarks:	the only legally design Agency (EPA) Sole Son	nated sole source urce Aquifer Mem	ounty, which is not located aquifer in Indiana. Thereformandum of Understandin ssment is not needed, and	ore, the FHWA/Envi g (MOU) is not appl	ronmental Protection icable to this project.

The Indiana Department of Environmental Management's Wellhead Proximity Determinator website (http://www.in.gov/idem/cleanwater/pages/wellhead/) was accessed on April 17, 2020 by RQAW. This project is not located within a Wellhead Protection Area or Source Water Area. No impacts are expected.

The IDNR Water Well Record Database website (https://www.in.gov/dnr/water/3595.htm) was accessed on May 13, 2020 by RQAW, two water wells are located within 0.5 mile of the project area. The nearest water well (unspecified) is located in the northwest quadrant of the CR 800 South and US 231 intersection. 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 22 feet. For a majority of the project, the maximum depth of excavation will be approximately 2 to 4 feet below ground surface (bgs); however, excavation to a depth of approximately 21 feet bgs will be required for the replacement of Structure Number P107 (Appendix B, page B-32), and approximately 6 feet bgs for all other structure work. The excavation required for the replacement of Structure Number P107 (21 feet bgs) will occur more than 0.25 mile from the unspecified well. Per coordination with the designer, the project area does not contain any residential water wells. Impacts are not expected.

Per a desktop review of the INDOT Municipal Separate Storm Sewer Systems (MS4) website (https://entapps. indot.in.gov/MS4/), by RQAW on May 13, 2020, and the RFI report (Appendix E, page E-3), this project is not located in an Urbanized Area Boundary. No impacts are expected.

Per a desktop review, a field visit conducted on September 23, 2019 by RQAW, the aerial map of the project area (Appendix B, page B-3), and coordination with the designer, the project is within an area with a public water system. However, impacts are not expected.

This is page 19 of 31	Project name:	US 231 Added Auxiliary Lanes Project	Date:	December 2, 2020
			_	

County	Putnam	Route	US 231 ar	nd CR 800 South	Des. No.	1700091
				Presence	e Impact	s
Flood Plair	-				Yes	No_
-	linal Encroachment					
	rse Encroachment	d floodalaia				
	ocated within a regulate ocated in floodplain with		tream from	project		
Homes	ocated in noodplain with	iii 1000 up/dowiis	li Calli IIOIII	project		
Discuss impac	cts according to classific	ation system descr	ribed in the '	'Procedural Manua	l for Preparing Enviro	onmental Studies".
Remarks:	The IDNR Indiana Flo					
	accessed on May 17,	•				
	from approved IDNR					
	for the implementation	on of 23 CFR 650, 2	23 CFR 771,	and 44 CFR. No in	npacts are expected	
				Presence	Impacts	
Farmland				110001100	Yes No	
Agricultu	ıral Lands			✓	✓	
Prime Fa	armland (per NRCS)			✓	✓	
Total Pair	nts (from Section VII of 0	PA 106/AD 1006*	ŧ гл			
	reater, see CE Manual for		54	<u> </u>		
	al for guidance to deterr		form is appr	opriate for your pro	ject.	
Remarks:	Based on a desktop r	eview, a site visit	on Septemb	er 23, 2019 by RC	AW, and the aerial	map of the project
	area (Appendix B, pag	ge B-3), the project	will not co	nvert any farmland	as defined by the Fa	armland Protection
	Policy Act.					
	An early coordination			-		
	Services (NRCS). Coo				•	-
	(Appendix C, pages C-	•		_	•	
	consideration of alter					_
	prime, unique, statew	•			-	
	those previously disc farmland.	ussea in this doc	ument will	be investigated w	ithout reevaluating	impacts to prime
	idillidilu.					
	Please note that the	NRCS early coordi	nation resn	onse letter and ac	companied NRCS-CE	Δ-106 form stated
	that approximately 0	•	-		•	
	proposed right-of-wa	•	•		•	•
	P - P	,		, , ,	,	71-67
SECTION	C - CULTURAL RES	SOURCES				
		•	_			A1/A
Minor Projec	te DA Clearance		Type	INDOT Approva		N/A
willor Project	ts PA Clearance	В	B-3 & B-9	February 20, 2020	1	
		Eligible a	nd/or Listed			
		Resource	ce Present			
Results of F	Research					
Archaeology	,					
NRHP Buildi						
NRHP Distri						
NRHP Bridg	e(s)					
This is no	age 20 of 31 Project n	ame:	IIC 221 Adda	d Auxiliary Lanes Pro	oject Date:	December 2, 2020
i iliə iə þa	age zo or or Froject II	ame.	03 231 Aude	u Auxiliai y Lalles PIC	nale.	DECEITIBEL 2, 2020

County _	Putnam	Route	US 231 and CR 800 South	Des. No.	1700091
Project Effect					
No Historic P	Properties Affected	No Adve	rse Effect Adverse	Effect	
		Documentat Prepared			
Documentat	ion (mark all that apply)		ES/FHWA Approval Date(s)	SHPO Approval Da	ate(s)
Historic Prop Archaeologic	erties Short Report erty Report al Records Check/ Reviev al Phase la Survey Repor		2/24/2020	N/A	
Archaeologic Archaeologic Archaeologic	al Phase Ic Survey Repor al Phase II Investigation F al Phase III Data Recover	t Report y			
APE, Eligibili 800.11 Docui	ty and Effect Determinatio mentation	n			
local newspap	ors. Please indicate the potential of th	the INDOT Cultary, and Capes D-1 to D-5) lies to projects acceleration and undisturbed soil litural Resource le archaeologic ljacent to or with the complete of the control	of the Section 106 process requirement of paper(s) and the commet at a later date, such as mitigation tural Resources Office (CRO) deategory B, Type 9 under the Mind. where construction of added to deceleration lanes) and should also and an archaeological investives Office determines that no later resources are present within thin a National Register-listed of the same and the same and the same and the same archaeological investives of the same	ent period deadling or deep trenching etermined the property projects Programmer, of travel, turning, of the widening occupation conducted National Register the project area	roject falls within the grammatic Agreement r auxiliary lanes (e.g., ars in either previously d by the applicant and r-listed or potentially a. It also applies when
	and other drainage struarchaeological investigate determines that no Natare present within the and other drainage struistoric brick or stone under the following corresponding corresponding to the storic brick or stone and the following corresponding to the storic brick or stone and the following corresponding to the storic brick or stone and the storic brick or storic b	ies to projects vactures occurs in ation conducted ional Register-liproject area. It ucture, and the sidewalks, curbudition: The struit	where installation, replacement in either previously undisturbed by the applicant and reviewed sted or potentially National Regalso applies when work does not be are no impacts to unusual so rourb ramps, stepped or electure exhibits no wood, stone, wase la field reconnaissance was	d soils, or in und d by INDOT Cult gister-eligible arc ot involve installa features, includi evated sidewalk or brick structure	disturbed soils and an ural Resources Office haeological resources ation of a new culverting but not limited to s and retaining walls, es or parts therein.
	20, 2020 by Cultural Res project area had been	source Analysts previously surv	, Inc. (CRA). The records review eyed. No previously recorded ted in the documentation of one	indicated that a archaeological si	portion of the current tes are in the project

US 231 Added Auxiliary Lanes Project Date: December 2, 2020

This is page 21 of 31 Project name:

County	Putna	m	Route _	US 231 and CR 800 Sout	th Des. No	1700091
	Historic Plac portion of the little potent recommend Cultural Res Standards as D, page D-6	tes (NRHP) eligible the site document tial to yield sign ted for the portion tources Office per to per 36 CFR Part to D-7). No furt	ility could no red within th ificant data n of 12Pm438 ersonnel wh 61. There ar her consulta	t be fully assessed by e project area demons about the history of located within the pro o meet the Secretary e no archaeological co	he project area and its N the current investigation strated poor archaeologic the region. Therefore, oject area. The report was of the Interior's Profess oncerns for the project as completes the Section 10 led.	al integrity and has no further work is reviewed by INDOT sional Qualification a whole (Appendix
SECTION	D - SECTIO	N 4(f) RESOUR	RCES/ SEC	TION 6(f) RESOURC	CES	
Parks & Ot Publicly Publicly	ther Recreatio y owned park y owned recrea			<u>Presence</u>	Yes No	
"De Ind Wildlife & \ Nationa Nationa State V	ogrammatic Se e minimis" Impa dividual Section Waterfowl Ref al Wildlife Refu al Natural Land Vildlife Area Nature Preserve	act* i 4(f) f uges ge Imark		Evaluations Prepared Presence	FHWA Approval date Use Yes No	
"De Ind		act*	5	Evaluations Prepared Presence	FHWA Approval date Use Yes No	
"De Ind <i>HWA appr</i> o	ogrammatic See e minimis" Impa lividual Section oval of the envi discussed belo	act* 4(f) ronmental docum	nent also sen	Evaluations Prepared wes as approval of any	FHWA Approval date Section 4f Programmatic	c and/or De minimis
This is pa	age 22 of 31	Project name:		5 231 Added Auxiliary Lar	nes Project Date	: December 2, 2020

County _	Putnam	_ Route	US 231 and CR 800 South	_ Des. No	1700091
ocumentation dividual Sect	n must be separate Dra	aft and Final docu se refer to the "Pro	ection 4(f) impacts in the renuments. For further discussion occural Manual for the Preparection 4(f).	ons on Programma	atic, "de minimis" and
	lands for federally fur law applies to signific	ided transportation ant publicly owner	sportation Act of 1966 prohit on facilities unless there is no ed parks, recreation areas, w ardless of ownership. Lands s	ot a feasible and pruil	udent alternative. The wl refuges, and NRHP
	(Appendix B, page B-3 one recreational facil Park, is located appro and therefore does no	B), and the infrast ity located within eximately 0.23 mil ot qualify for prot	on September 23, 2019 by Retructure discussion in the RF the 0.5 mile search radius. The east of the project area. Content and the content and the project area of the project area. The core, no use is expected.	I report (Appendix The recreational f Cloverdale RV Park	E, page E-2), there is facility, Cloverdale RV is not publicly owned
Section 6(f) Involvement		Presence	<u>Use</u> Yes No	
Section 6(f) Property			Tes No]
•	The U.S. Land and Wa (LWCF), which was cr	ter Conservation eated to preserve	nts of Section 6(f). Discuss a Fund Act of 1965 established e, develop, and assure acces sion of lands purchased with	d the Land and Wat sibility to outdoor	er Conservation Fund recreation resources.
scuss propo	The U.S. Land and Wa (LWCF), which was cr Section 6(f) of this Act Per a review of the LW 2019, there are three	ter Conservation eated to preserve prohibits convers /CF property list p LWCF properties a	Fund Act of 1965 established	d the Land and Wat sibility to outdoor LWCF monies to a of Outdoor Recrea ndix I, page I-1). No	er Conservation Fund recreation resources. non-recreation use. tion, dated December ne of these properties
scuss propo Remarks:	The U.S. Land and War (LWCF), which was cr Section 6(f) of this Act Per a review of the LW 2019, there are three are located within or	ter Conservation eated to preserve prohibits convers /CF property list p LWCF properties a	Fund Act of 1965 established e, develop, and assure acces sion of lands purchased with rovided by the IDNR Division are in Putnam County (Appen	d the Land and Wat sibility to outdoor LWCF monies to a of Outdoor Recrea ndix I, page I-1). No	er Conservation Fund recreation resources. non-recreation use. tion, dated December ne of these properties
iscuss propo Remarks:	The U.S. Land and War (LWCF), which was creation 6(f) of this Action Per a review of the LW 2019, there are three are located within or result of this project.	ter Conservation eated to preserve prohibits convers /CF property list p LWCF properties a	Fund Act of 1965 established e, develop, and assure acces sion of lands purchased with rovided by the IDNR Division are in Putnam County (Appen	d the Land and Wat sibility to outdoor LWCF monies to a of Outdoor Recrea ndix I, page I-1). No	recreation Fund recreation resources. non-recreation use. tion, dated December ne of these properties
SECTION Air Cools to	The U.S. Land and Wa (LWCF), which was cr Section 6(f) of this Act Per a review of the LW 2019, there are three are located within or result of this project. E – Air Quality	ter Conservation eated to preserve prohibits convers CF property list p LWCF properties a adjacent to the preserve ty non-attainment st current MPO TIF om conformity? empt from conform Transportation Pla	Fund Act of 1965 established e, develop, and assure accession of lands purchased with rovided by the IDNR Division are in Putnam County (Appendict area. Therefore, there or maintenance area?	d the Land and Wat sibility to outdoor LWCF monies to a of Outdoor Recrea ndix I, page I-1). No	er Conservation Fund recreation resources. non-recreation use. tion, dated December ne of these properties
SECTION Air C Co Is ti If Y	The U.S. Land and Wa (LWCF), which was cr Section 6(f) of this Act Per a review of the LW 2019, there are three are located within or result of this project. E – Air Quality Quality Informity Status of the he project in an air qualife (ES, then: Is the project in the most sthe project exempt for If the project is NOT extends the project in the	ter Conservation eated to preserve prohibits convers CF property list p LWCF properties a adjacent to the preserve ty non-attainment of current MPO TIF om conformity? empt from conform Transportation Pla is required (CO/PN)	Fund Act of 1965 established e, develop, and assure accession of lands purchased with rovided by the IDNR Division are in Putnam County (Appendict area. Therefore, there or maintenance area?	d the Land and Wat sibility to outdoor LWCF monies to a of Outdoor Recrea ndix I, page I-1). Nor will be no impacts	er Conservation Fund recreation resources. non-recreation use. tion, dated December ne of these properties
SECTION Air Cools to If Y	The U.S. Land and Wa (LWCF), which was cr Section 6(f) of this Act Per a review of the LW 2019, there are three are located within or result of this project. E – Air Quality Quality Informity Status of the he project in an air quality ES, then: Is the project in the most sthe project exempt from the project is NOT exemple to the project in the lis a hot spot analys	ter Conservation eated to preserve prohibits convers CF property list p LWCF properties a adjacent to the preserve ty non-attainment of current MPO TIF om conformity? empt from conform Transportation Pla is required (CO/PN)	Fund Act of 1965 established e, develop, and assure accession of lands purchased with rovided by the IDNR Division are in Putnam County (Appendict area. Therefore, there or maintenance area?	d the Land and Wat sibility to outdoor LWCF monies to a of Outdoor Recrea ndix I, page I-1). Nor will be no impacts	recreation Fund recreation resources. non-recreation use. tion, dated December ne of these properties

County _	Putnam	Route	US 231 and CR 800 South	Des. No.	1700091
	of Air Quality website (htt	ps://www.in.	s currently in attainment for all ogov/idem/airquality/files/nonatconformity procedures of 40 CF	ttainmentcountylist.	pdf), accessed on
			CE (Group 1) under 23 CFR 771.: 6, and as such, a Mobile Source		
SECTION	F - NOISE				
Noise Is a noise ar	nalysis required in accordan	ce with FHWA	regulations and INDOT's traffic		es No
		No Yes	:/ Date		
ES Review	of Noise Analysis				
Remarks:			ordance with 23 CFR 772 and the ocedure, this action does not re		
SECTION	G – COMMUNITY IMPAC	стѕ			
Will the prop Will the prop Will construct Does the co	osed action result in substa	local/regiona ntial impacts t ntial impacts t unity events (t transition plar nce the comm	o local tax base or property valu festivals, fairs, etc.)? i? unity's transition plan?		No No V
Remarks:	anticipated to result in sproperties within the area the surrounding communitate minimal or no negation. Several businesses are logaritation of the Fairs and Festival fairs or festivals are curred Greencastle Fiber Event is 17, 2020. Both events will the project area. Both list	ubstantial im a or divide ex ty or cause eve impacts to cated within action. Is website (wontly scheduled for be held at the ted events ar ince fair or feroes to consider the cated executed ince fair or feroes to consider the cated executed ince fair or feroes to consider the cated executed ince fair or feroes to consider the cated executed ince fair or feroes to consider the cated executed ince fair or feroes to consider the cated executed ince the catedox and the catedox are the catedox and the catedox are the catedox	al/regional development patter pacts to community cohesion listing communities. The propose conomic impacts to the surrour of the community or local economic, or adjacent to, the project a www.fairsandfestivals.net), accessed within a 10 mile radius of ziper April 17, 2020 and the 2020 Pure Putnam County Fairgrounds, local any future fairs/festivals that estival goers will be able to utiled during construction.	because it will not exed project is not exactly area. Therefore my. Trea. Access to all pushed as a code 46120 (project tham County Fair is speciated approximatel at may be planned as a code 46120 (project tham County Fair is speciated approximatel at may be planned as a code 46120 (project tham County Fair is speciated approximatel at may be planned as a code 46120 (project tham County Fair is speciated approximatel at may be planned as a code as a c	change access to pected to impact e, the project will properties will be 20 by RQAW, two t area). The 2020 scheduled for July y 9 miles north of are unlikely to be
This is pa	ge 24 of 31 Project name		US 231 Added Auxiliary Lanes Proje	ect Date:	

		Indiana De	epartment of Transp	ortation	
County	Putnam	Route	US 231 and CR 800 South	Des. No	1700091
	Americans with Disab 4, 2020, the Putnam RQAW. Per the plan, " entities develop a Tra cross curbs," and "Th Accessibility Guideline or be provided where ramps, or other slope alterations would req quite rural and as suc Because the project	ility Act (ADA) Tr County Auditor Title II of the ADA nsition Plan spec nere is no requi es for Pedestrian they are not cur ed areas where p uire that non-co ch has no faciliti takes place ale	nty Auditor's Office on June ansition Plan (dated April 20 provided an electronic copy (28 CFR Section 35.150 [d]) (cific to curb ramps or other strement under Title II of the Facilities with Public Right-corently provided. The law stipedestrian walks cross curbs, mpliant sidewalks be improves within the ROW [right-office on gang highway and does exproject is not required to co	14). Per e-mail con of the approved areas at locate ADA or propose of the approved that are accessible of the extent proposed to the extent proposed to the approved to the ap	nmunication on August ADA Transition Plan to and local governmental ations where walkways d PROWAG [Proposed lks be made accessible blic entity provide curb e. New construction or possible. The County is pages I-15 and I-16). existing ADA facilities
	d Cumulative Impacts posed action result in su	bstantial indirect	or cumulative impacts?		Yes No ✓
Remarks:	still reasonably forese induced changes in the environment which re	eable. Indirect endeather in the land esult from the incole future action	the action and later in time ffects may include growth inc use, population density, or g remental impact of the actions regardless of what age	ducing effects and or rowth rate. Cumulan n when added to o	other effects related to ative impacts affect the ther past, present, and
	indirect or cumulative reduce vehicular crash	e impacts. The imnes along US 231	mited impacts, the project is provement of the roadway was . However, the project is not d. The project will not pro	will allow a more st expected to increa	able flow of traffic and se development in the
Vill the pro private utilit	ies, emergency services	, religious institut	on health and educational fa ions, airports, public transpor of traffic will affect public fac	tation or pedestrian	Yes No ✓
Remarks:	project area (Appendi 2), one recreational fa RV Park, is located ap	ix B, page B-3), a acility is located proximately 0.23 ject area and the	ducted on September 23, 20 and the infrastructure discuss within the 0.5 mile search ramile east of the project area entrance to the park, off of ted.	ion in the RFI repo adius. The recreation. Cloverdale RV Pa	rt (Appendix E, page E- onal facility, Cloverdale rk is not located within
	stations located within	n the 0.5 mile sea les (20,000 feet)	es not appear to be any em arch radius. Per the Red Flag of the project area, and the ages E-1 to E-13).	Investigation, there	e are no public airports
	Per coordination with However, according to	_	ne project area is located wi		•

US 231 Added Auxiliary Lanes Project

Date: December 2, 2020

This is page 25 of 31 Project name:

	•	ilulalia D	epartinent or Transpo	itation	
County	Putnam	Route	US 231 and CR 800 South	Des. No.	1700091
	gas, water and sanitary f		been identified within the proprocess.	oject area. Utility	coordination is ongoing
	Putnam County Surveyo	r's Office, the District, Inc., (o the Putnam County Council, Putnam County Highway De on March 17, 2020 (Appendix tion letter.	partment, and th	e West Central Indiana
	-		ponsor to notify school corpo hat would block or limits acce		rgency services at leas
During the	ental Justice (EJ) (Presider development of the project roject require an EJ analysis	were EJ issue			Yes No
Are a	ny EJ populations located w		ect area? oportionate impacts to EJ pop	ulations?	✓ ✓
	adverse effect on minori an Environmental Justice	ty or low-inco (EJ) Analysis t right-of-wa	ams, policies, and activities do ome populations. Per the curr is required for any project tha y. The project will require	ent INDOT Catego t has two or more	orical Exclusion Manual e relocations or 0.5 acre
	reference population to disproportionately high town and is called the community that overlap Census Tract 9565. An Action minority or if the low- year estimates data ((https://factfinder.censu	o determine and adverse community of the project C has a popul income or mi 2013 through s.gov/faces/	if populations of EJ conce impacts to them. The referen f comparison (COC). In this p limits is called the affected co ation of concern for EJ if the p inority population is 125% of the th 2017) was obtained from the control of the	rn exist and whom ce population may be project, the COC is promunity (AC). In population is more the COC. Americal or the U.S. Ce html?refresh=t) or	tether there could be any be a county, city, or is Putnam County. The ather this project, the AC is than 50% low-income Community Survey 5 thans Bureau website on March 18, 2020 by
	Table: Low-inco	me and Mino	rity Data (American Communi	ty Survey, 2013 t	hrough 2017)
		CO	C: Putnam County		sus Tract 9565
	Percent Low-income		11.6%		.0.0%
	125% of COC	opulation of	14.5%	AC < 1.	25% of COC No
	Percent Minority	opulation of	8.1%		2.2%
	125% of COC		10.2%		25% of COC

AC 1 has a percent low-income of 10.0% which is below 50% and is below the 125% COC threshold. Therefore, there are no low-income populations of EJ concern. AC 1 has a percent minority of 2.2% which is below 50% and is below the 125% COC threshold. Therefore, there are no minority populations of EJ concern. The census

This is page 26 of 31	Project name:	US 231 Added Auxiliary Lanes Project	_ Date:	December 2, 2020

EJ Population of Concern

	Putnam	Route	US 231 and CR 800 South	Des. No.	1700091
	data sheets, map, and warranted.	calculations car	be found in Appendix I, pag	es I-10 to I-14. No	further EJ analysis is
	-	on April 17, 202	nt electronically to the U.S 20 (Appendix C, pages C-1 to 0	-	=
Relocation	of People, Businesses	or Farms			Yes No
Is a Busines Is a Concep	posed action result in the as Information Survey (BIS tual Stage Relocation Stu elocation coordination bee	S) required? idy (CSRS) requ			/ / / / / / / / / / / / / / / / / / /
Number of r	relocations: Resider	nces: 0	Businesses: 0 Farm	ns: 0 Othe	er: <u>0</u>
	RS is required, discuss the	e results in the re	emarks box.		
Remarks:	located within the proje	ect area includir	or farms will take place beca ng electric, telephone, gas, wa emporarily impacted. Utility c	ter and sanitary fac	cilities. These Utilities
SECTION	H – HAZARDOUS MA	TERIALS & R	EGULATED SUBSTANCE	 S	
Phase II En Design/Spe	vironmental Site Assessm vironmental Site Assessm cifications for Remediatio	nent (Phase II Es n required? No Yes	SÁ) s/ Date		
ES Review	of Investigations	Sep	tember 28, 2020		
Include a sumi	mary of findings for each	nvestigation.			
Remarks:		IS and available			
, G.Haine	to E-13). Two Resource (TSD) sites, one State Clone Institutional Control NPDES pipe location, and Two sites with hazardo	e Assessment & e Conservation eanup site, four ols site, three Nord one Notice of the material cor	Management (SAM) on Sept and Recovery Act (RCRA) gend leaking underground storage ational Pollutant Discharge El f Contamination site are locat acerns are located within the	tember 28, 2020 (A erator/Treatment, S tank (LUST) sites, to imination System (I ed within 0.5 mile of project area. One	Storage, and Disposal wo Brownfields sites, NPDES) facilities, one of the project area.
, Gillaine.	to E-13). Two Resource (TSD) sites, one State Cone Institutional Control NPDES pipe location, and Two sites with hazarde Brownfields site and the no hazmat sites were in	e Assessment & e Conservation eanup site, four ols site, three Nord one Notice of the site is ideal to the other site is ideal entified in or well as seen the site is ideal to the site in or well as seen the site is ideal to the site in or well as seen t	Management (SAM) on Sept and Recovery Act (RCRA) gend leaking underground storage ational Pollutant Discharge El Contamination site are locat	tember 28, 2020 (A erator/Treatment, 9 tank (LUST) sites, to imination System (I ed within 0.5 mile of project area. One offields site, and NPC rea that will impact	ppendix E, Pages E-1 Storage, and Disposal wo Brownfields sites, NPDES) facilities, one of the project area. site is identified as a DES facility. However, the project.

US 231 Added Auxiliary Lanes Project Date: December 2, 2020

This is page 27 of 31 Project name:

		mulana De	partment of Transpo	itation	
County	Putnam	Route	US 231 and CR 800 South	Des. No.	1700091
SECTION	I - PERMITS CHECK	(LIST			
Permits (m	ark all that apply)		Likely Required		
Ind Nar Reg Pre Oth We Stro IDEM	tland Mitigation required eam Mitigation required ction 401 WQC lated Wetlands determin	RGP) n (PCN)	✓ ————————————————————————————————————		
	ier itland Mitigation required eam Mitigation required				
Na Lak Oth Mit US Coast (nstruction in a Floodway vigable Waterway Permi te Preservation Permit ner igation Required Guard Section 9 Bridge ease discuss in the ren	Permit			
Remarks:	0.054 acre of wetland Certification Permit w The total area of land	ds. A USACE Section in the required during disturbance is a properties of the section of the sec	45 linear feet (approximately on 404 Regional General Perne to stream and wetland impoproximately 11 acres. Because 5 Notice of Intent will be reconstructed.	nit and IDEM Secti acts. use the project will	on 401 Water Quality
	Per the IDNR Division may require formal a proposal to construct has a drainage area g not located within a result in the second	of Fish and Wildlit pproval for constr , excavate, or fill reater than one s egulatory floodpla	fe early coordination response ruction in a floodway under t in or on the floodway of a str equare mile (Appendix C, pag ain, and the upstream drainage area less than one square m	e letter, dated May he Flood Control A ream or other flow es C-14 to C-15). E ge area of the UNT	act, IC 14-28-1 for any ying waterbody which decause this project is to Limestone Creek is
	in the <i>Environmental</i> conditions of the perr	Commitments se nit will be require	by the IDNR Division of Fish a ction of this CE document. If ments of the project and will r to identify and obtain all rea	a permit is found supersede these re	to be necessary, the

County	Putnam	Route	US 231 and CR 800 South	Des. No.	1700091

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 ESD and the INDOT District Environmental Section will be contacted immediately. (INDOT Crawfordsville District Environmental Section)
- 2. Access to the adjacent facilities along CR 800 South to the west of US 231 (Martin Marietta-Cloverdale Quarry and POET Biorefining) will be provided. Coordination with the adjacent facilities will occur throughout the design process. (INDOT Crawfordsville District Environmental Section)
- 3. 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)
- 4. Any work in a wetland area within right-of-way or in borrow/waste areas is prohibited unless specifically allowed in the U.S. Army Corps of Engineers permit. (INDOT Environmental Services Division)
- 5. General AMM 1: Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs. (USFWS)
- 6. Hibernacula AMM1: For projects located within karst areas, on-site personnel will use best management practices, secondary containment measures, or other standard spill prevention and countermeasures to avoid impacts to possible hibernacula. Where practicable, a 300-foot buffer will be employed to separate fueling areas and other major containment risk activities from caves, sinkholes, losing streams, and springs in karst topography. (USFWS)
- 7. Lighting AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)
- 8. Tree Removal AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- 9. Tree Removal AMM 2: Apply time of year restrictions for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/rail surface and outside of documented roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed. (USFWS)
- 10. Tree Removal AMM 3: Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits). (USFWS)
- 11. Tree Removal AMM 4: Do not remove documented Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 mile of roosts, or documented foraging habitat any time of year. (USFWS)

For Further Consideration:

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 inches dbh or greater (5:1 mitigation based on the number of large trees)

This is page 29 of 31	Project name:	US 231 Added Auxiliary Lanes Project	Date:	December 2, 2020
		Form Version: June 2013		

Attachment 2

County Putnam Route US 231 and CR 800 South Des. No. 1700091

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. (IDNR Division of Fish and Wildlife)

- 2. 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)
- 3. 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 Interim Policy Recommendation)
- 4. Culverts should span the active stream channel, should be either embedded or a 3-sided or openarch culvert, and be installed where practicable on an essentially flat slope. When an open-bottomed culvert or arch is used in a stream, which has a good natural bottom substrate, such as gravel, cobbles and boulders, the existing substrate should be left undisturbed beneath the culvert to provide natural habitat for the aquatic community. (USFWS Interim Policy Recommendation)
- 5. 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 Interim Policy Recommendation)
- 6. 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 Interim Policy Recommendation)

SECTION K-EARLY COORDINATION

Please list the date coordination was sent and all agencies that were contacted as a part of the development of this Environmental Study. Also, include the date of their response or indicate that no response was received. INDOT and FHWA are automatically considered early coordination participants and should only be listed if a response is received.

Remarks:

Early coordination letters were sent to agencies on March 17, 2020 and April 17, 2020 (Appendix C, pages C-1 to C-3). If a response was not received, it was assumed the agency did not feel the project would result in substantial impacts. See all responding agency correspondence in Appendix C, pages C-4 to C-42. The following agencies/individuals were contacted during early coordination:

	Agency	Date of Response(s)
1.	Natural Resources Conservation Service (electronic coordination)	May 4, 2020
2.	Indiana Geological Survey (electronic submission)	April 17, 2020
3.	IDNR Division of Fish and Wildlife (electronic coordination)	May 15, 2020
4.	IDEM (electronic submission)	April 17, 2020
5.	INDOT Office of Public Involvement (electronic coordination)	No response received
6.	U.S. Department of Housing and Urban Development (electronic	
	coordination)	No response received
7.	West Central Indiana Economic Development District, Inc.	No response received

This is page 30 of 31	Project name:	US 231 Added Auxiliary Lanes Project	Date:	December 2, 2020

County Putnam Route US 231 and CR 800 South Des. No. 1700091

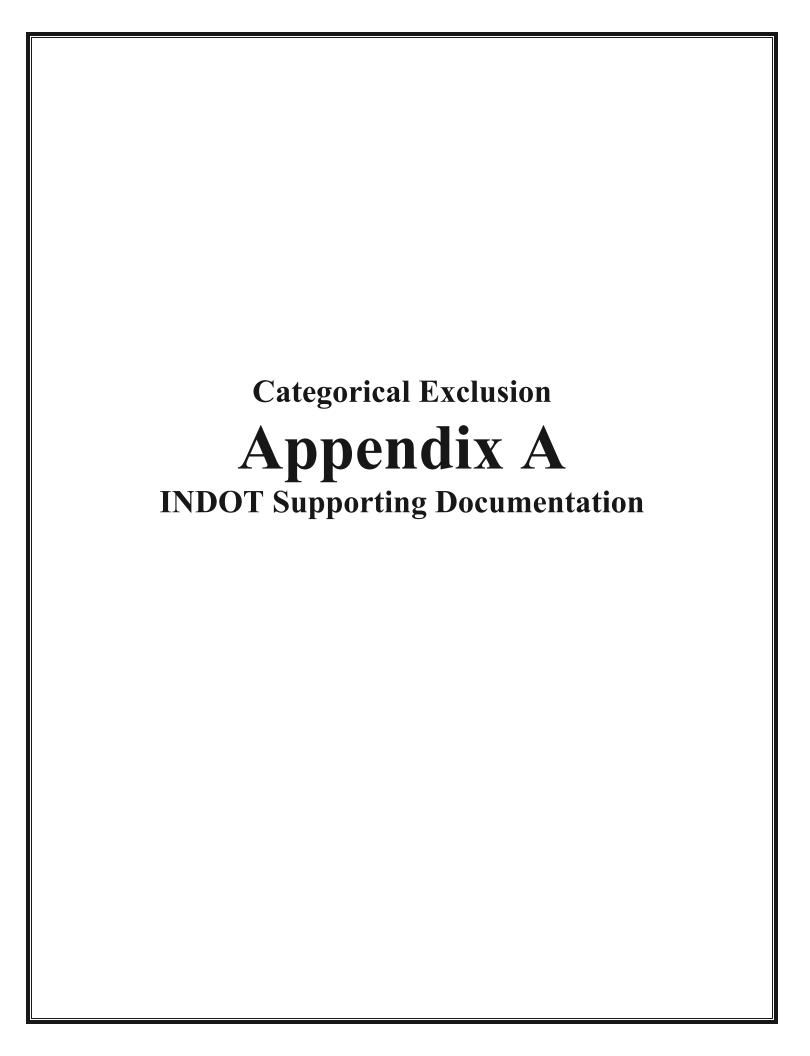
8. National Park Service, Midwest Regional Office	No response received
9. Putnam County Council	No response received
10. Putnam County Board of Commissioners	No response received
11. Putnam County Surveyor's Office	No response received
12. Putnam County Highway Department	No response received
13. Cloverdale Quarry	No response received
14. USFWS (IPaC electronic coordination)	May 19, 2020

This is page 31 of 31 Project name: US 231 Added Auxiliary Lanes Project Date: December 2, 2020

Designation (Des.) Number 1700091 ——

US 231 Added Auxiliary Lanes Project – Putnam County, Indiana

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Indiana Department of Natural Resources (IDNI	
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Putnam County ADA Transition Plan	I-15



Des. Numbers 1700091 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.

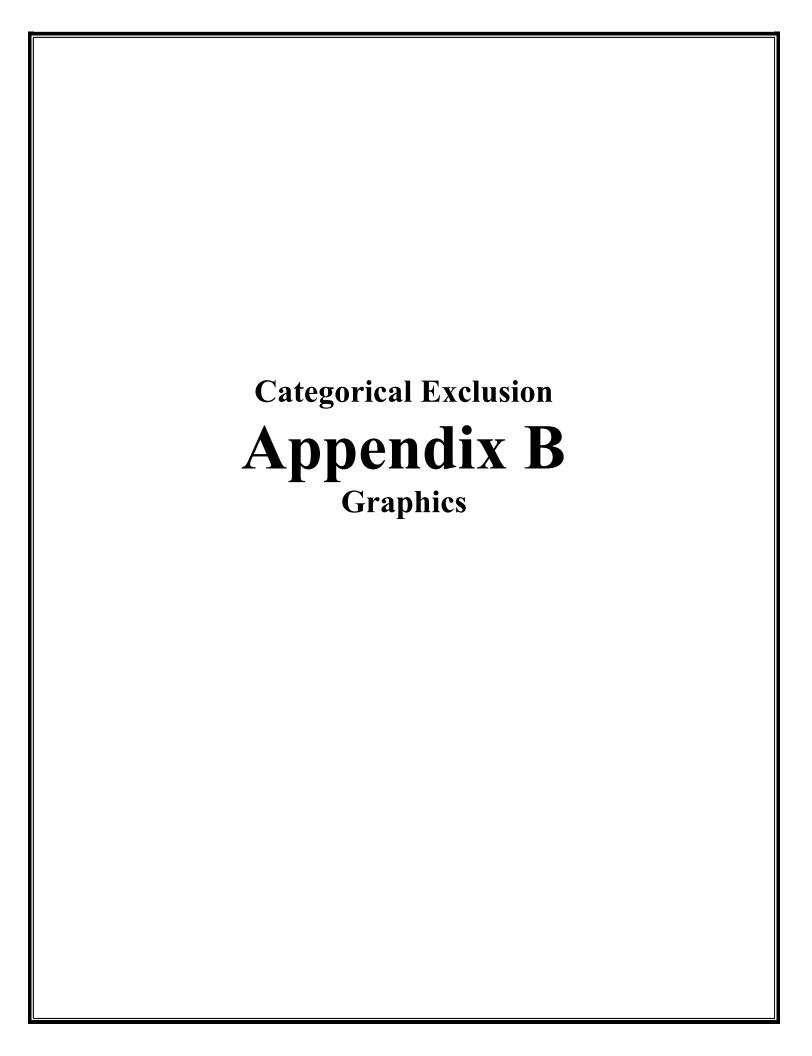
⁴AMMs = Avoidance and Mitigation Measures.

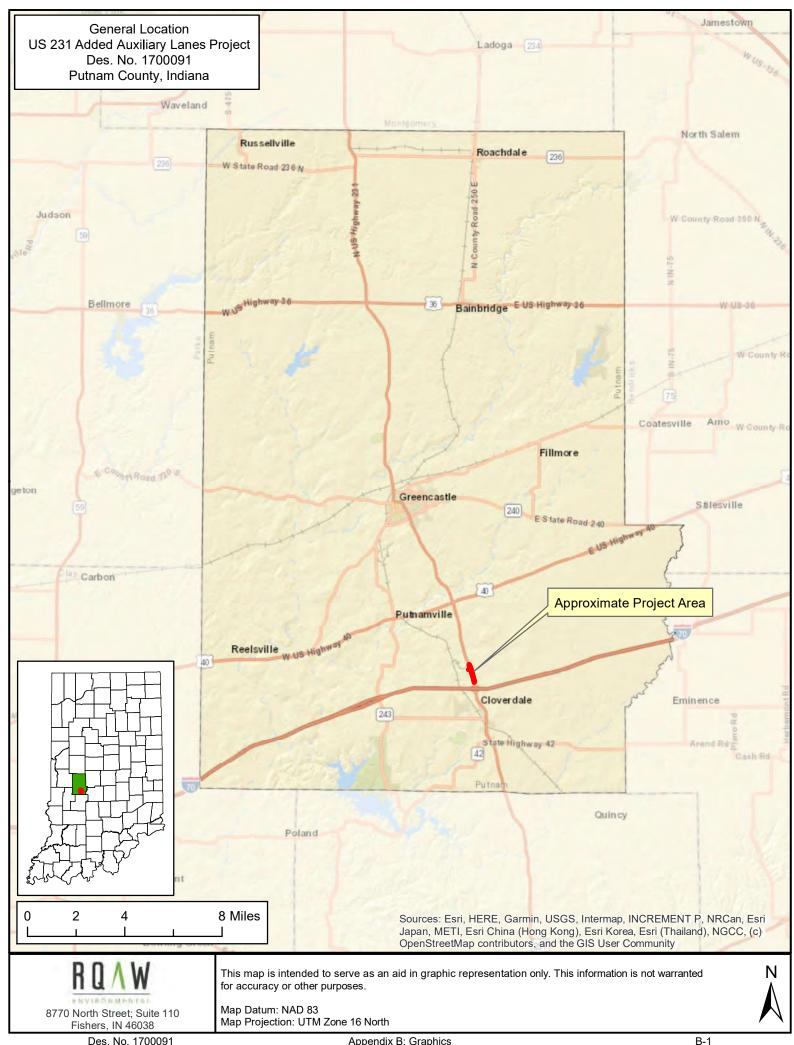
⁵AMMs determined by the IPAC decision key to be needed that are listed in the USFWS *User's Guide for the Range-wide Programmatic Consultation for Indiana bat and Northern long-eared bat* as "required for all projects".

⁶Potential for causing a disproportionately high and adverse impact.

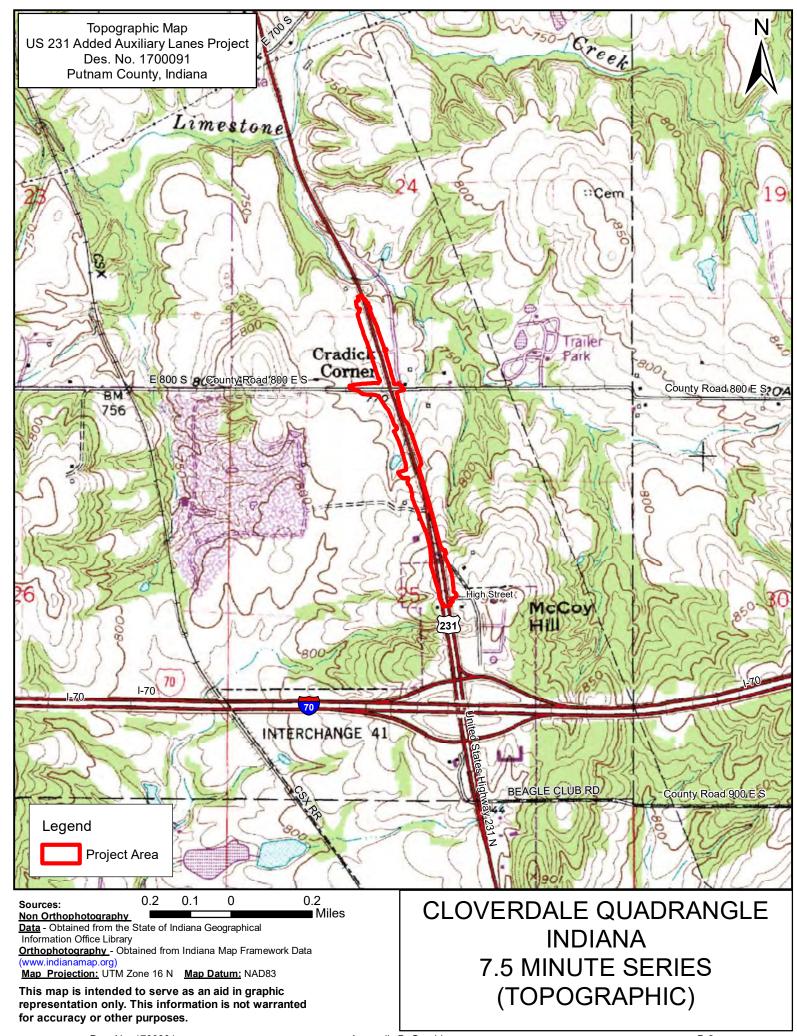
⁷Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

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

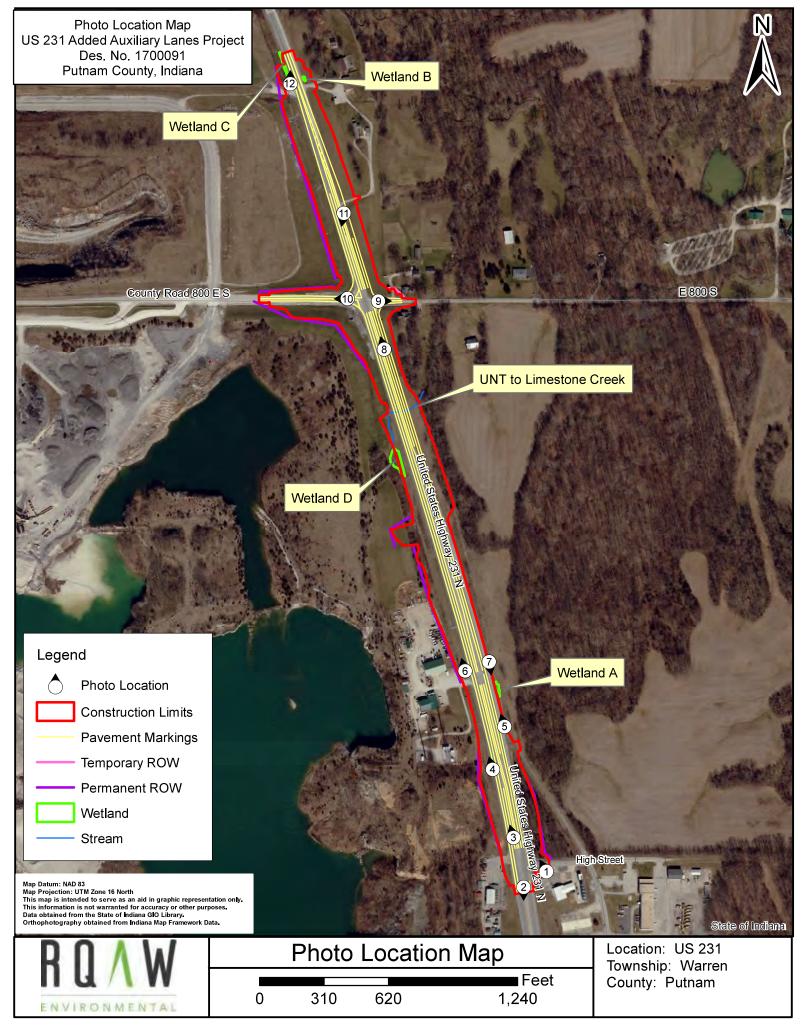




Des. No. 1700091 Appendix B: Graphics



Des. No. 1700091 Appendix B: Graphics B-2



Des. No. 1700091 Appendix B: Graphics B-3



1. Facing northwest along US 231 from High Street intersection



2. Facing south from median along US 231 at High Street intersection $\,$



3. Facing north along US 231 at High Street intersection



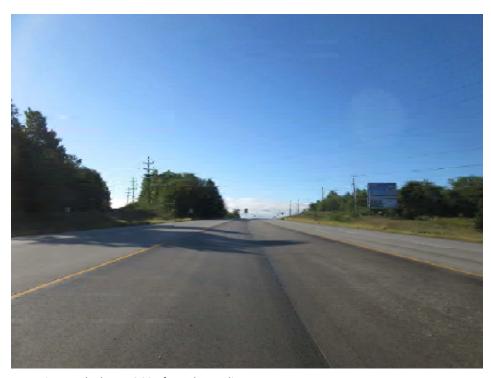
4. Facing northwest along US 231



5. Facing northwest along US 231



6. Facing northwest along US 231 from median



7. Facing south along US 231 from the median



8. Facing northwest along US 231 towards CR 800 S $\,$



9. Facing east along CR 800 S from US 231



10. Facing west towards CR 800 S from US 231 $\,$



11. Facing south along US 231



12. Looking north along US 231

PROJECT	DESIGNATION
1700091	1700091
CONTRACT	BRIDGE FILE
P-40742	N/A

INDIANA DEPARTMENT OF TRANSPORTATION

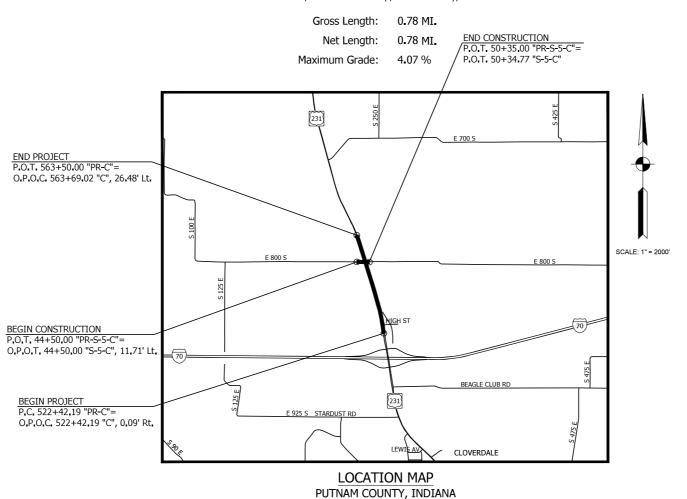


ROAD PLANS

U.S. ROUTE 231 - ADDED AUXILIARY LANES (ACCEL AND TURN LANES)

PROJECT NO. 1700091 P.E. PROJECT NO. 1700091 R/W PROJECT NO. 1700091 CONST.

Added Travel Lanes Along U.S. Route 231, Located 0.27 Miles North of the I-70 Junction, RP 141+69 to 1.05 Miles North of the I-70 Junction, RP 142+47, in Sections 24 & 25, Township 13 North, Range 4 West, in Warren Township, Putnam County, Indiana.



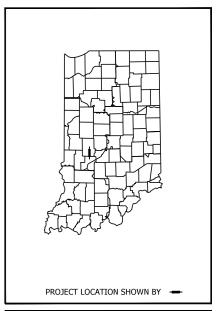
A.A.D.T.	(2021)	12,129 V.P.D.
A.A.D.T.	(2041)	13,246 V.P.D.
D.H.V	(2041)	1137 V.P.H.
DIRECTIONAL DISTRIBUT	TION	50.01 %
TRUCKS		12.94 % A.A.D.T
		9.89 % D.H.V.
DESIGN SPEED		BEGIN PROJECT TO CR 800)
PROJECT DESIGN CRITER	RIA	RECONSTRUCTION (NON-FREEWAY
FUNCTIONAL CLASSIFICA	ATION	PRINCIPAL ARTERIA
RURAL/URBAN		URBAN/SUBURBAI
TERRAIN		LEVE
ACCESS CONTROL		NON
DESIGN	DATA	(CR 800 TO END PROJECT)
DESIGN SPEED		55 M.P.F
PROJECT DESIGN CRITER	RIA	RECONSTRUCTION (NON-FREEWAY
FUNCTIONAL CLASSIFICA	ATION	PRINCIPAL ARTERIA
RURAL/URBAN		URBAN/SUBURBAI
TERRAIN		LEVE
ACCESS CONTROL		MOM

TRAFFIC DATA

TRAFFIC DATA

A.A.D.T.	(2021)	1001 V.P.D.
AADT	(2041)	1035 V.P.D.
D.H.V	(2041)	104 V.P.H.
DIRECTIONAL DISTRIBUTION		64.33 %
TRUCKS		10.00 % AADT
		% DHV
DESIGN DA	ΑTΑ	
DESIGN SPEED		30 M.P.
DESIGN SPEED PROJECT DESIGN CRITERIA		30 M.P. RECONSTRUCTION (NON-FREEWA
PROJECT DESIGN CRITERIA		RECONSTRUCTION (NON-FREEWA' LOCAL ROA
PROJECT DESIGN CRITERIA FUNCTIONAL CLASSIFICATION		RECONSTRUCTION (NON-FREEWAY

C.R. 800



BEGIN: LATITUDE: 39° 32' 12" N LONGITUDE: 86° 48' 13" W

END: LATITUDE: 39° 32' 51" N LONGITUDE: 86° 48' 27" W

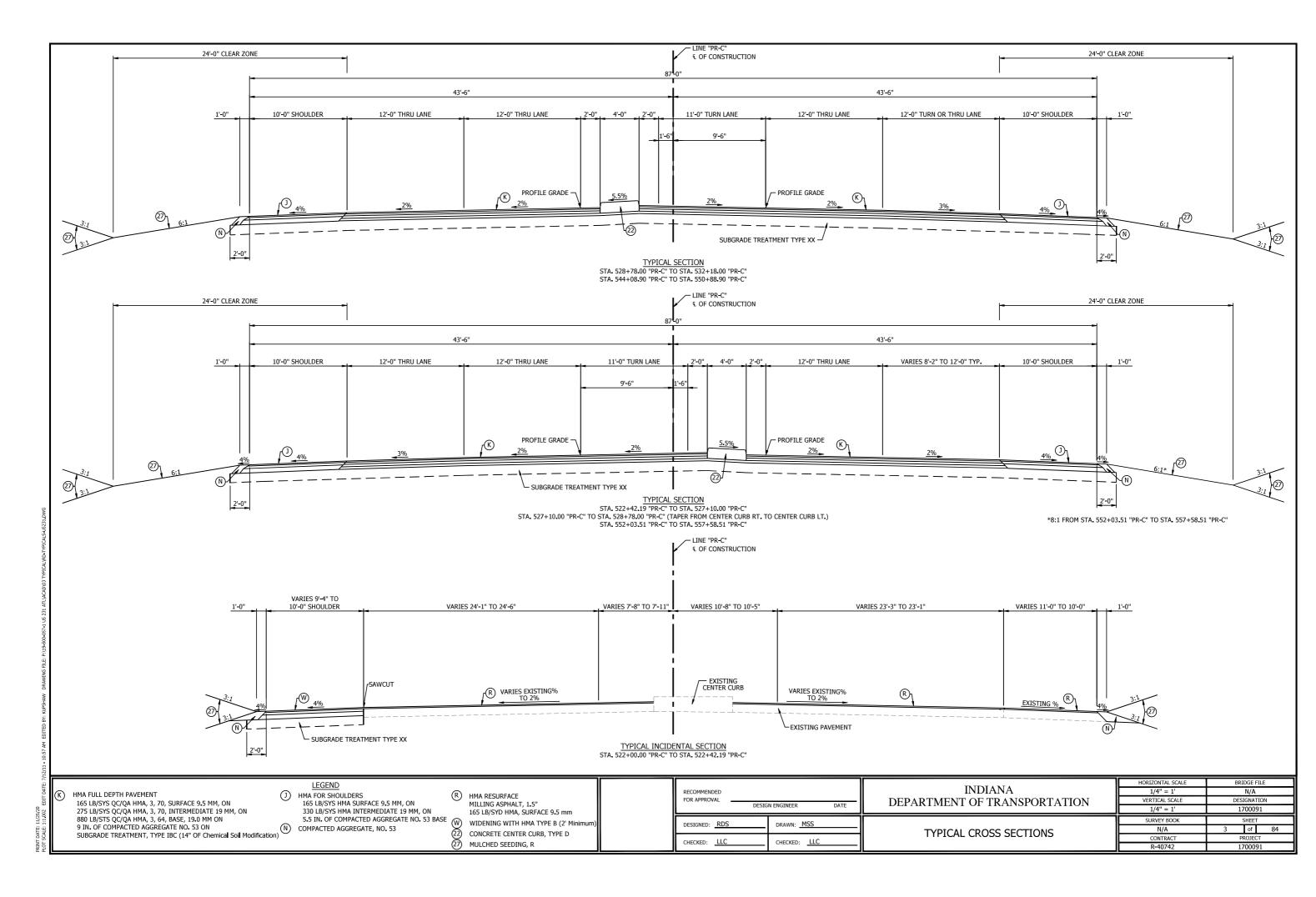
INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2020 TO BE USED WITH THESE PLANS.

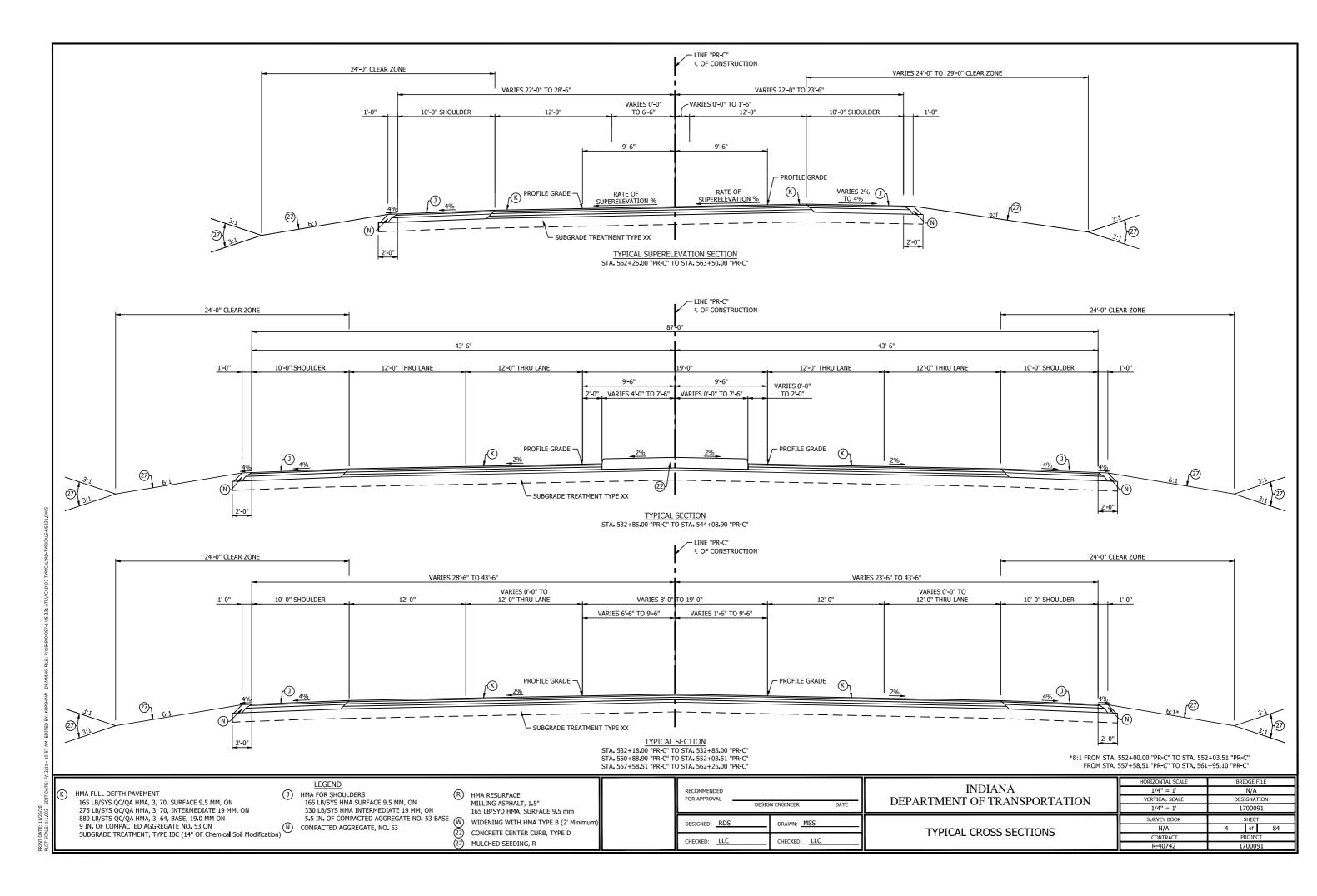
D	FREFARED BI.	17-588-1798 PHONE NUMBER
P: 317,588.1798 F: 317,588.1799 WWW.RQAW.COM	CERTIFIED BY:	DATE

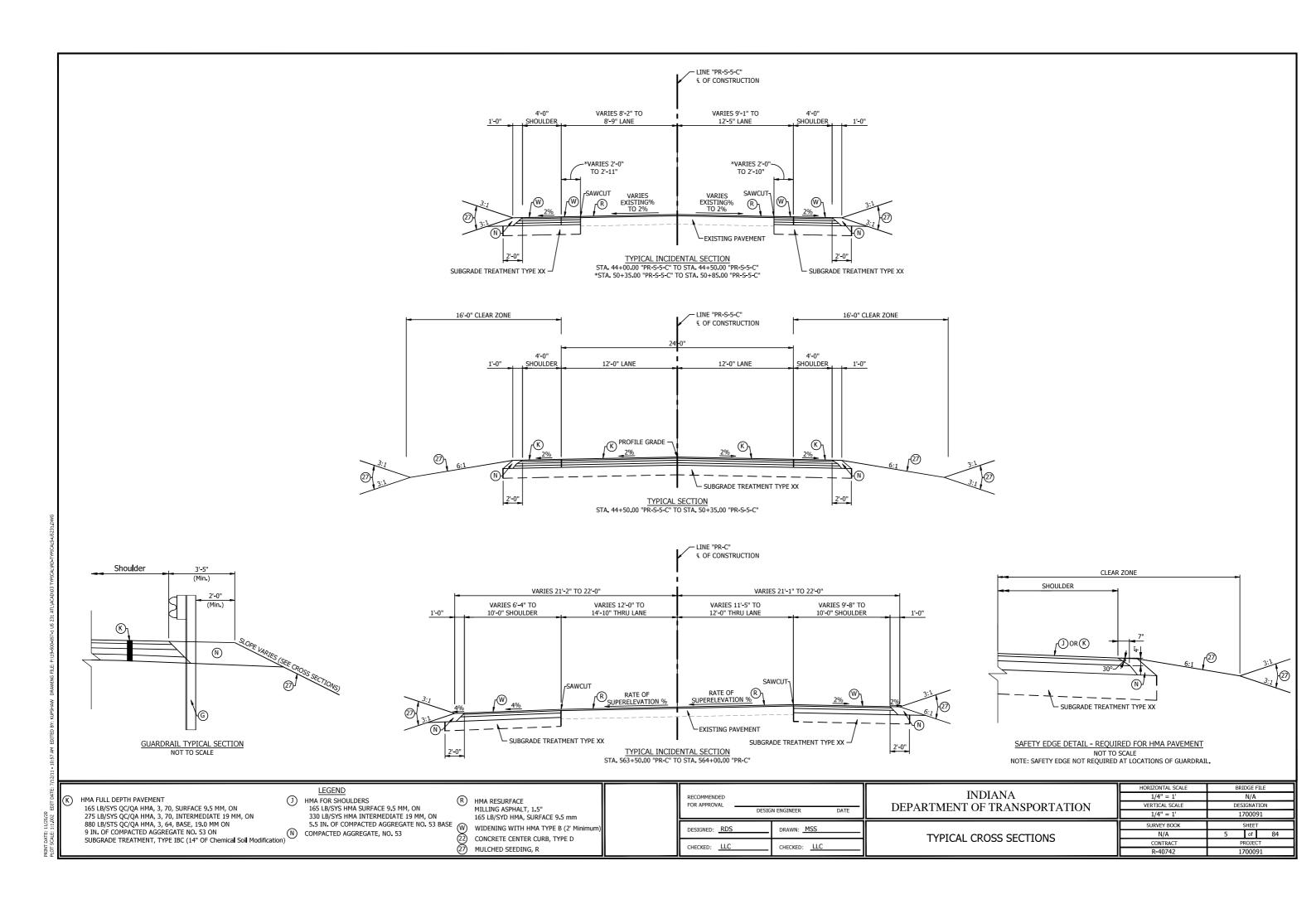
	DESIGNATION
	1700091
SURVEY BOOK	SHEET
SURVEY BOOK	SHEET 1 of 84
SURVEY BOOK CONTRACT	

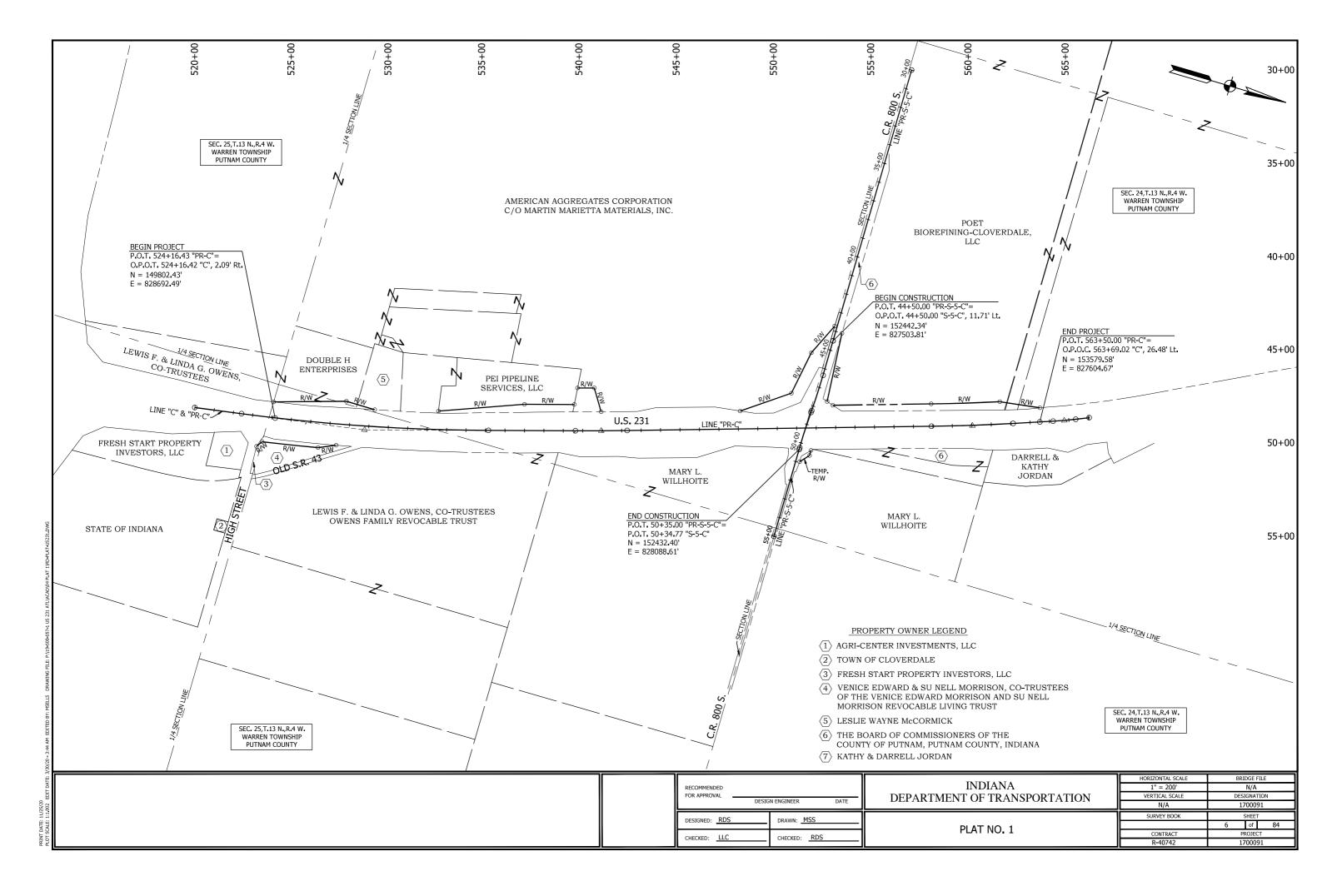
DATE: 7/12/11 - 10:45 AM EDITED BY: KUPSHAW DRAWING FILE: P:\19-500

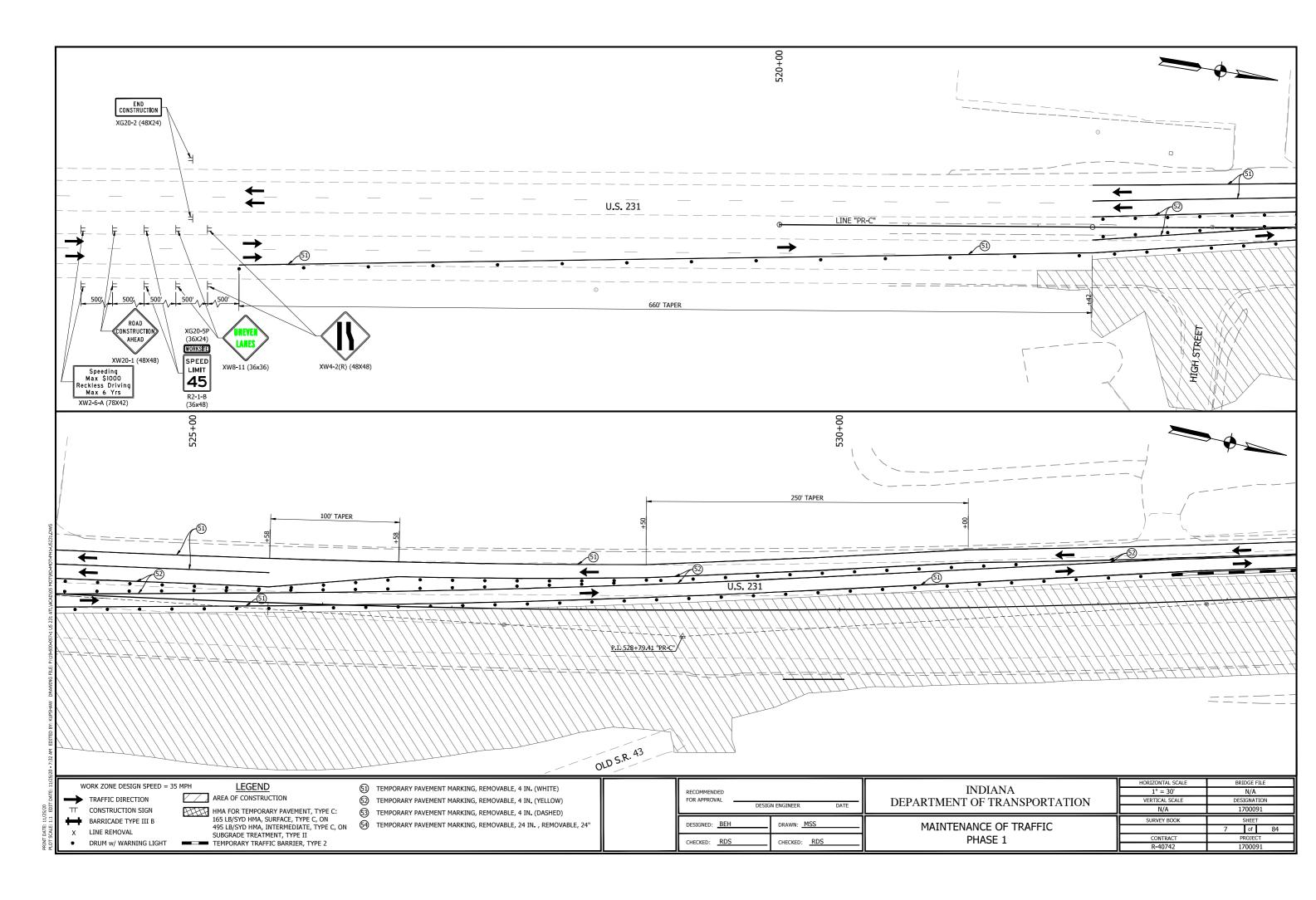
PLOT SCALE: 1:1,002 EDIT DATE

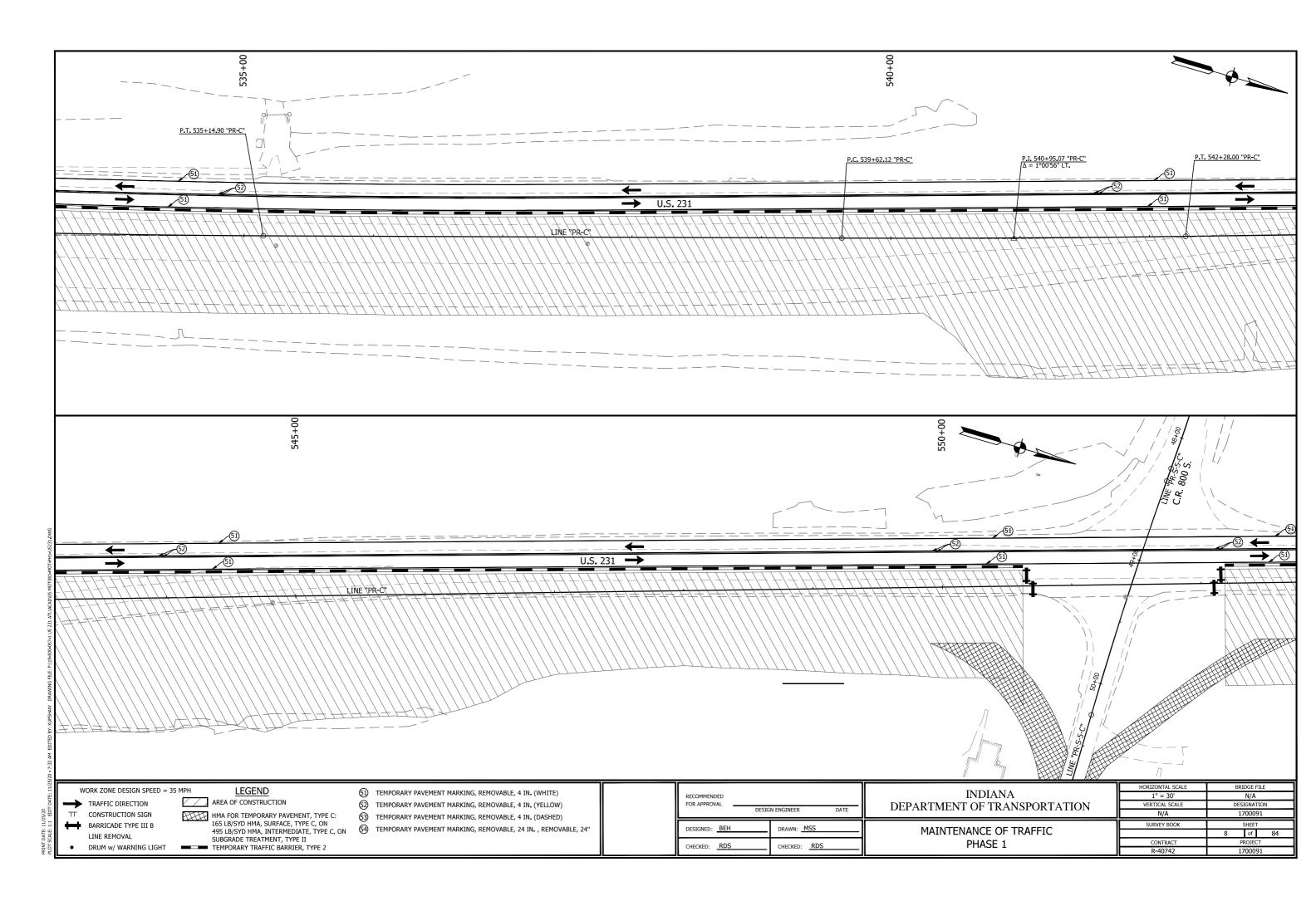


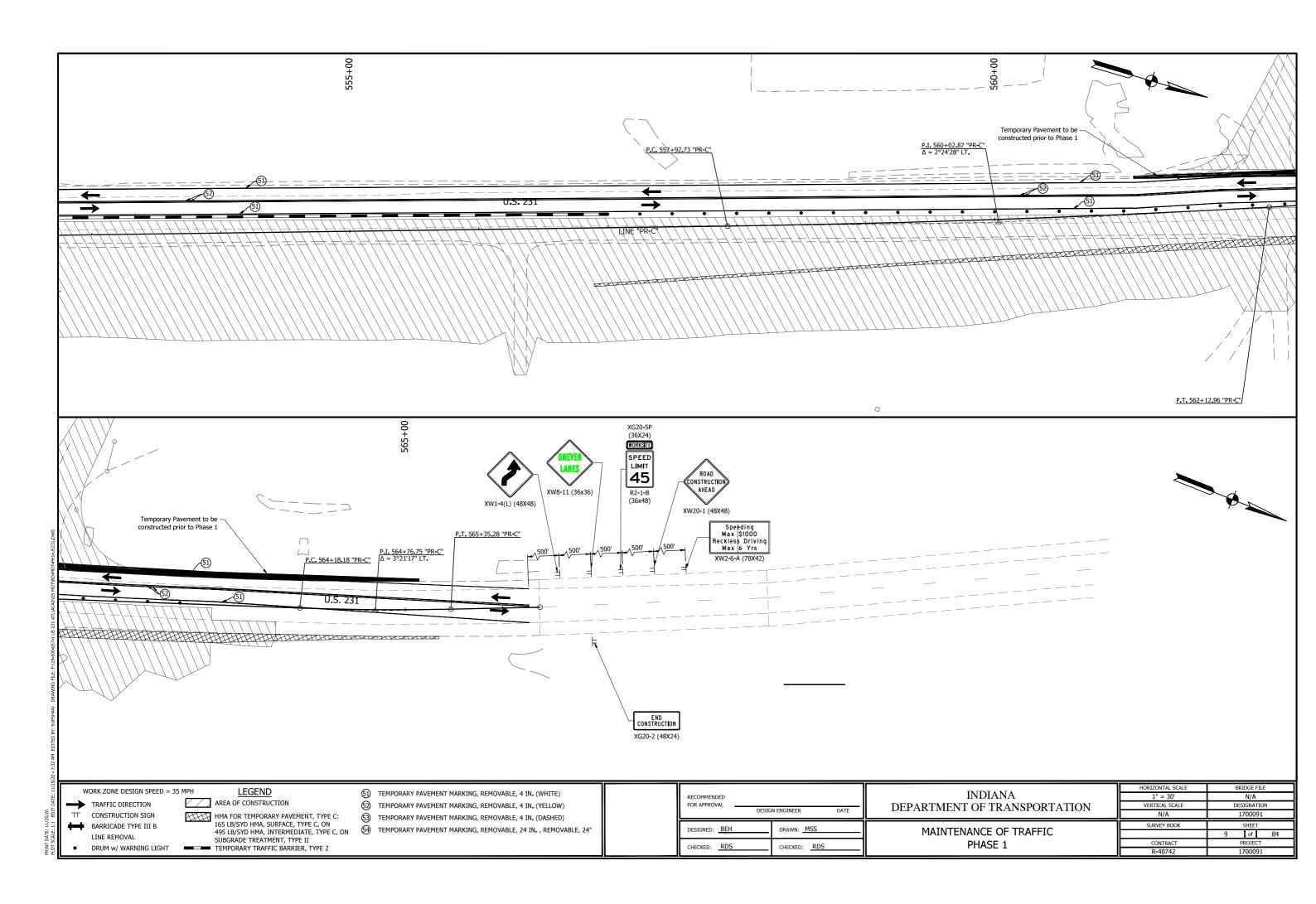


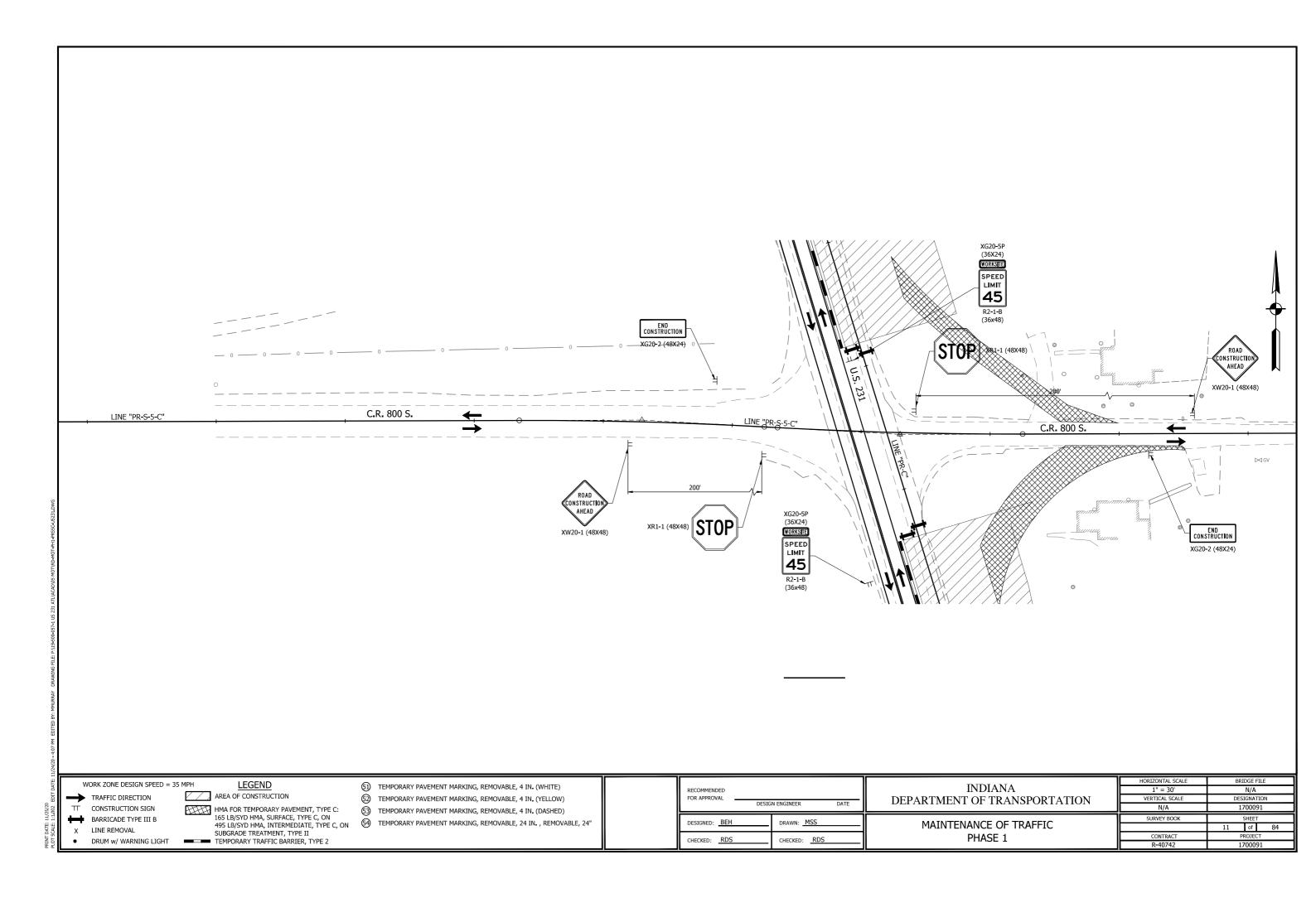


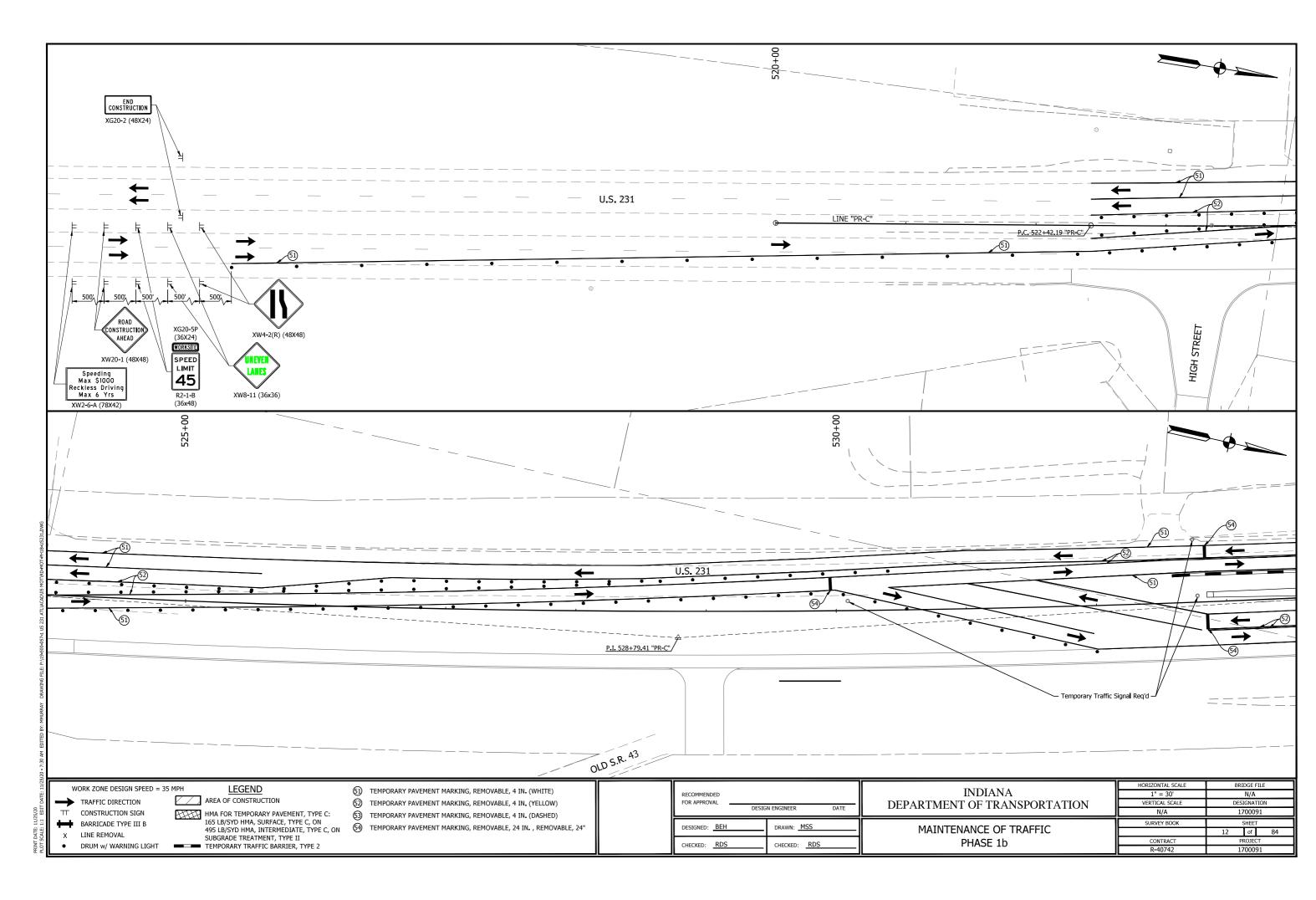


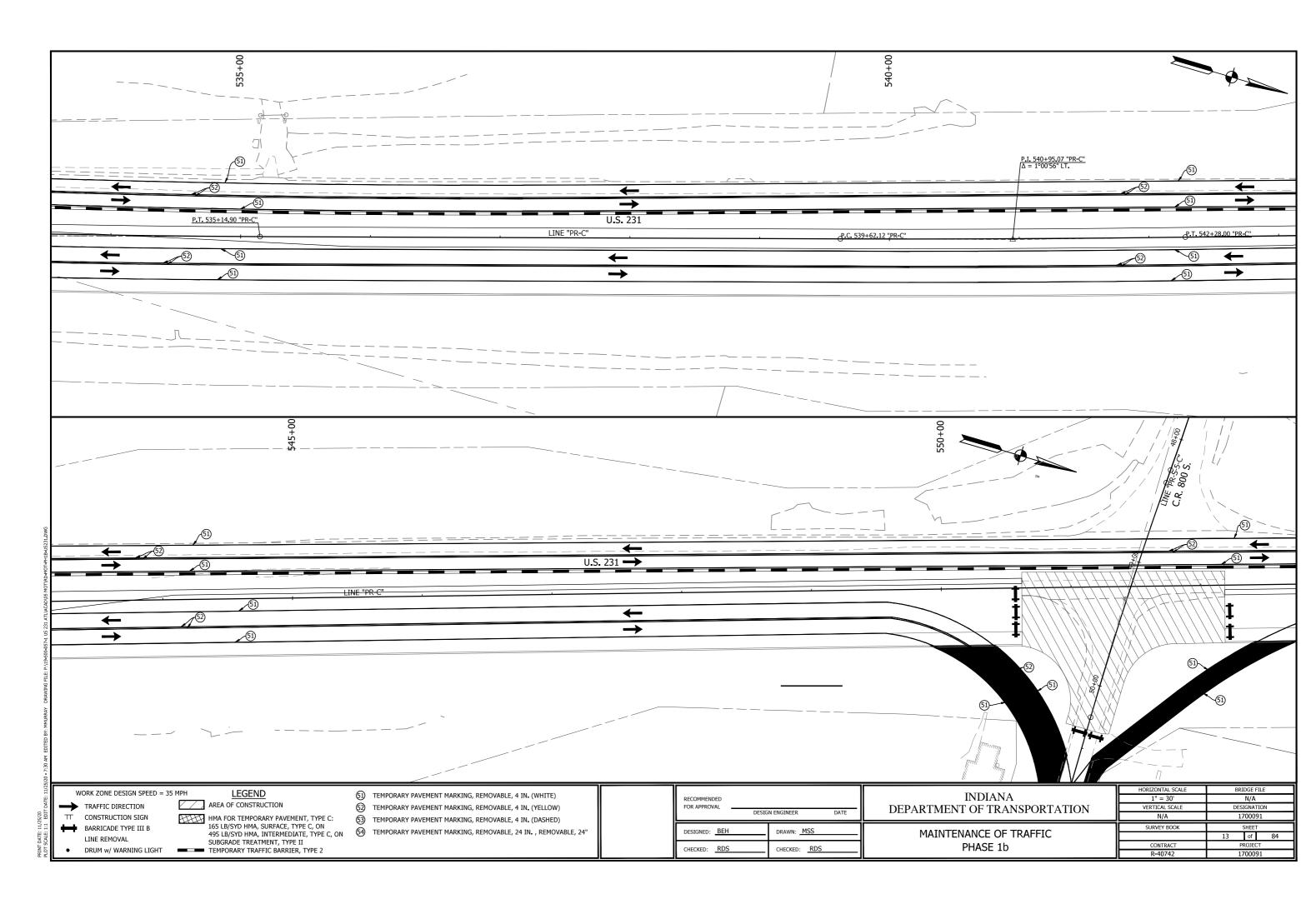


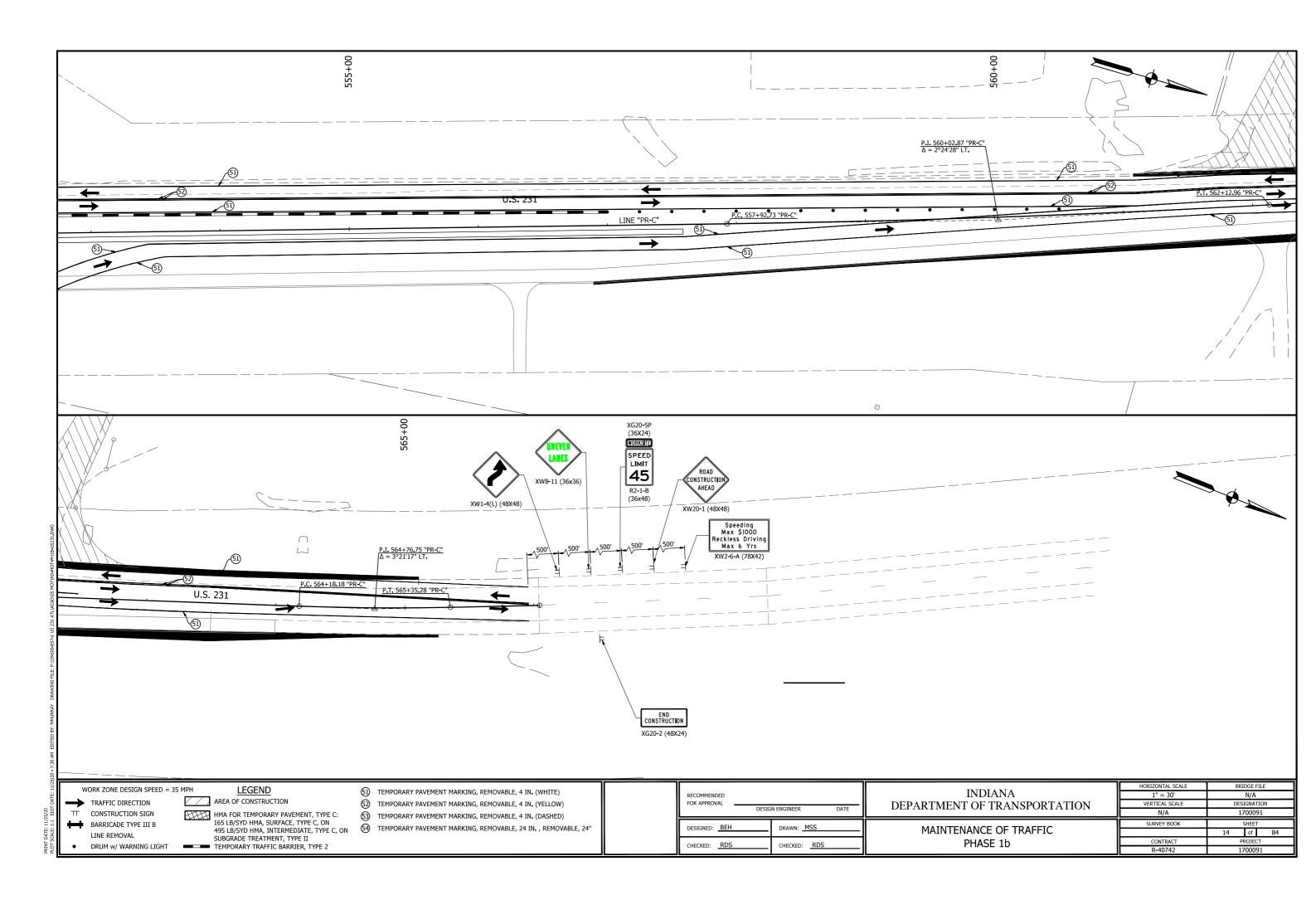


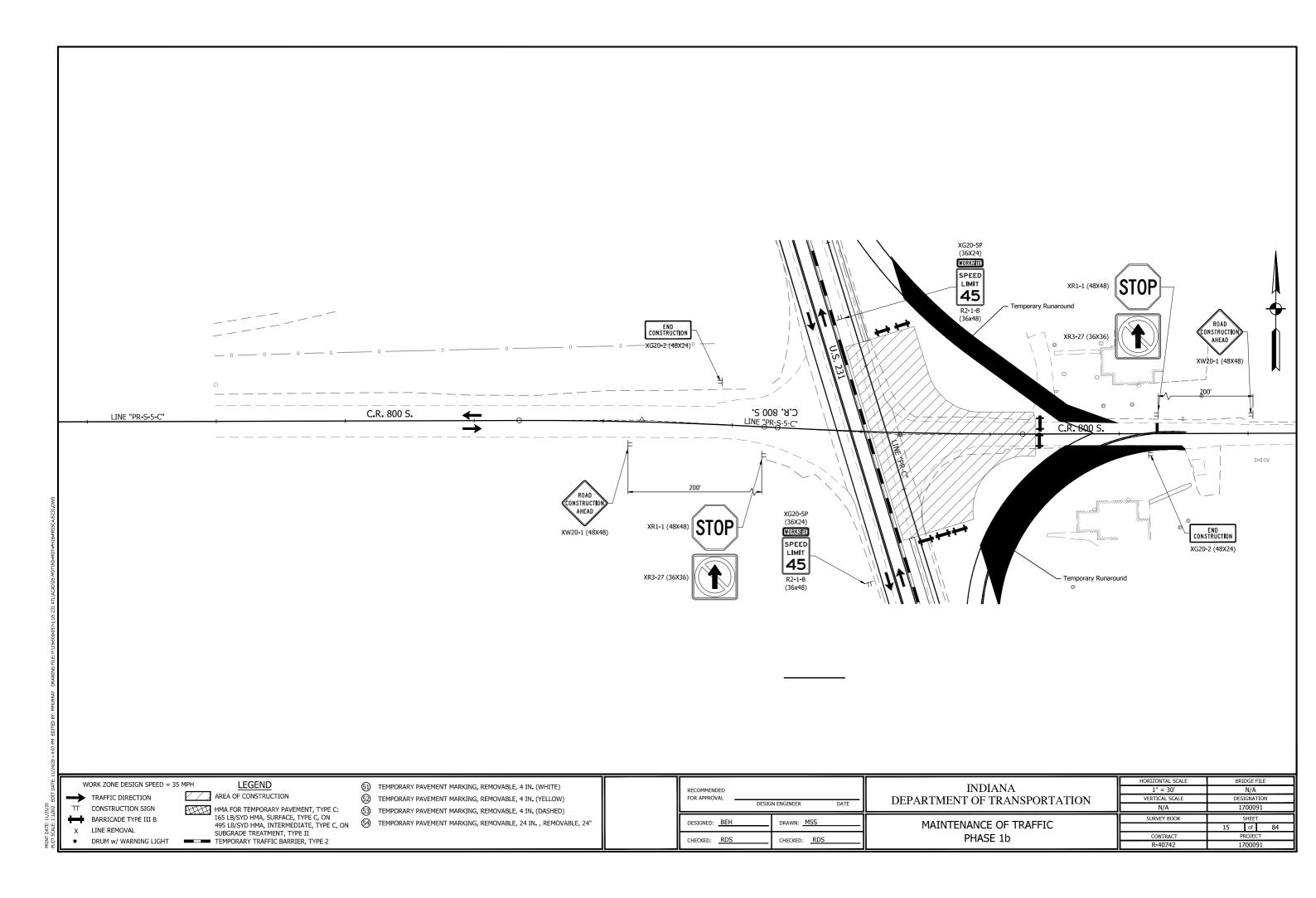


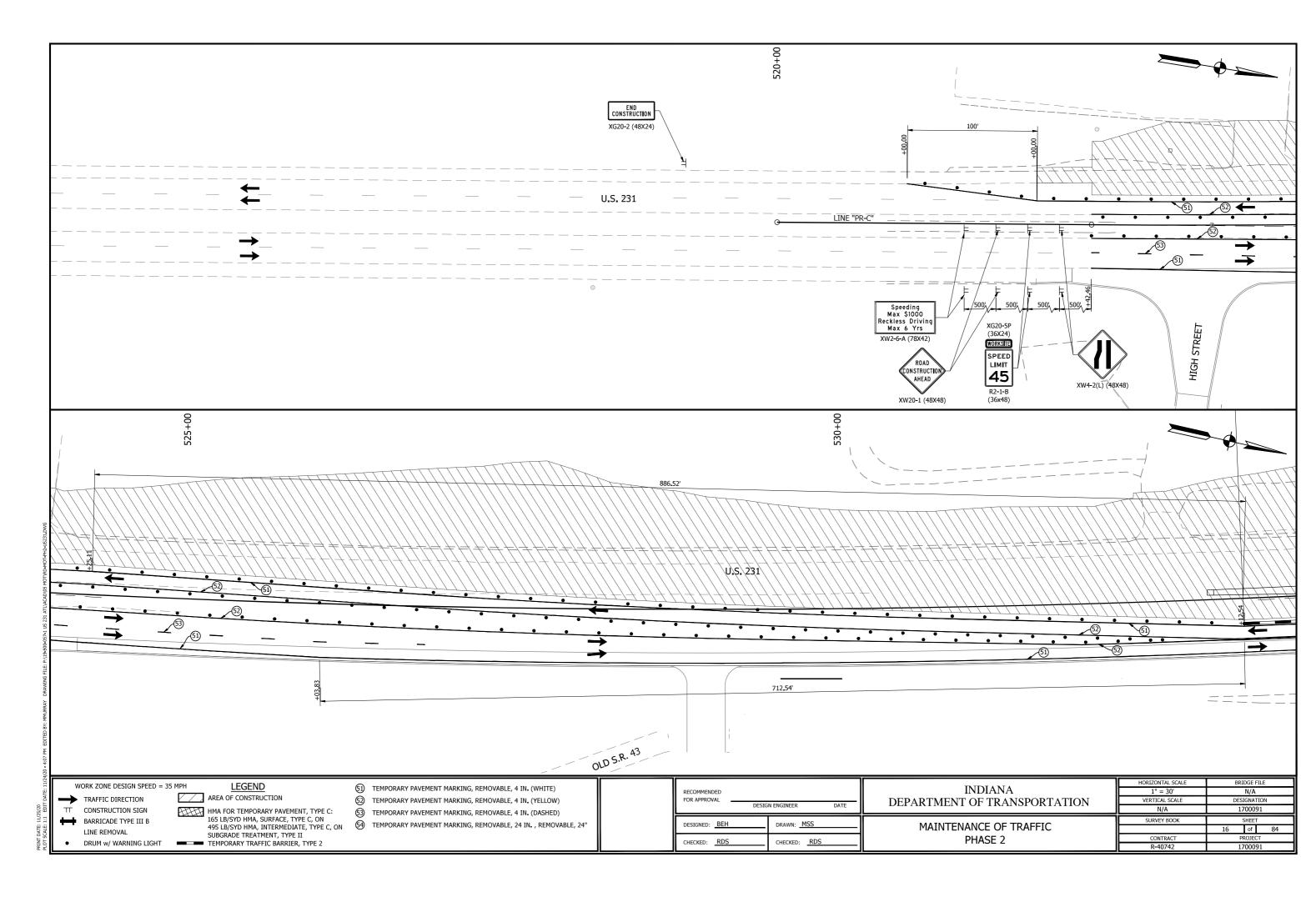




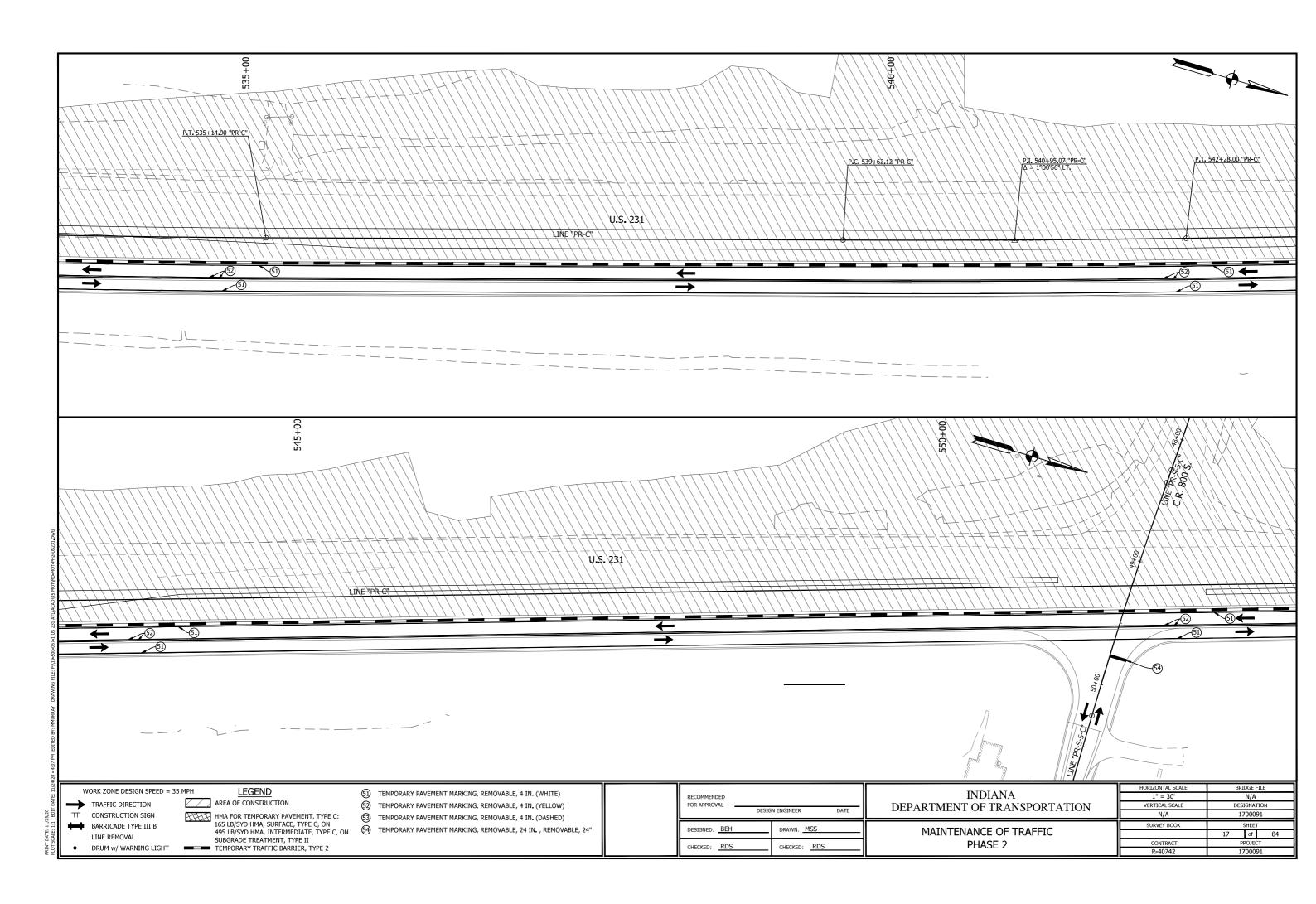


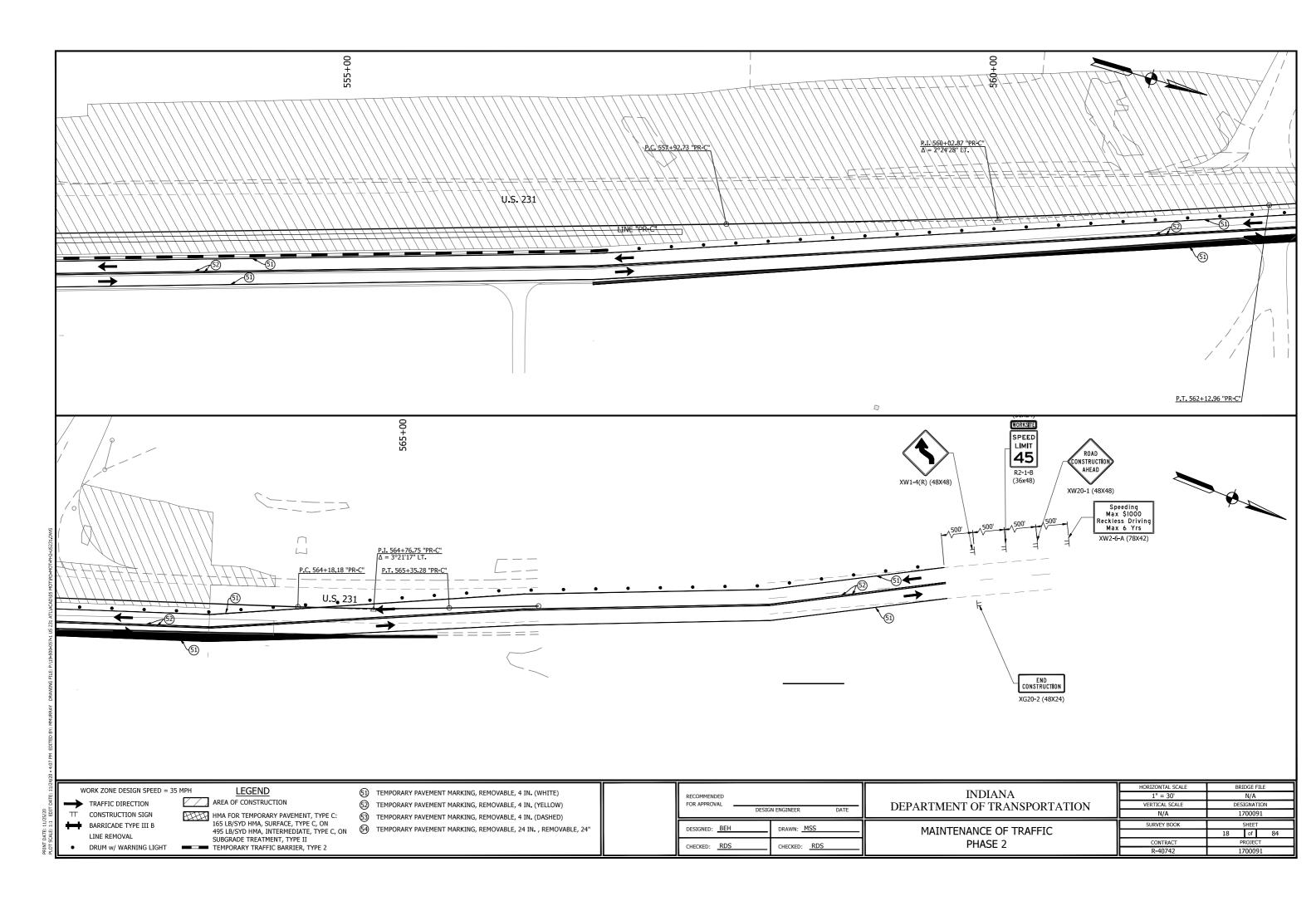


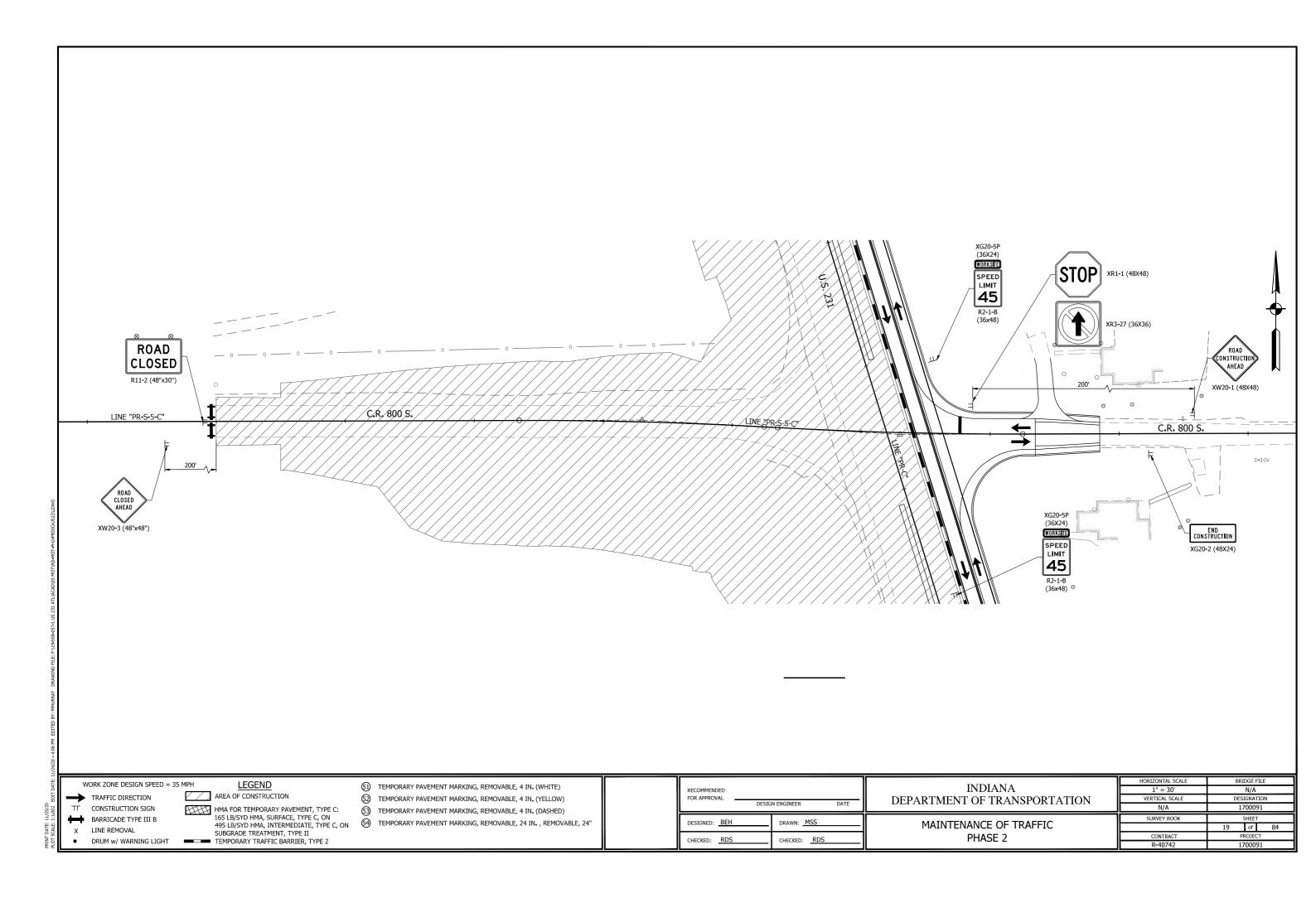


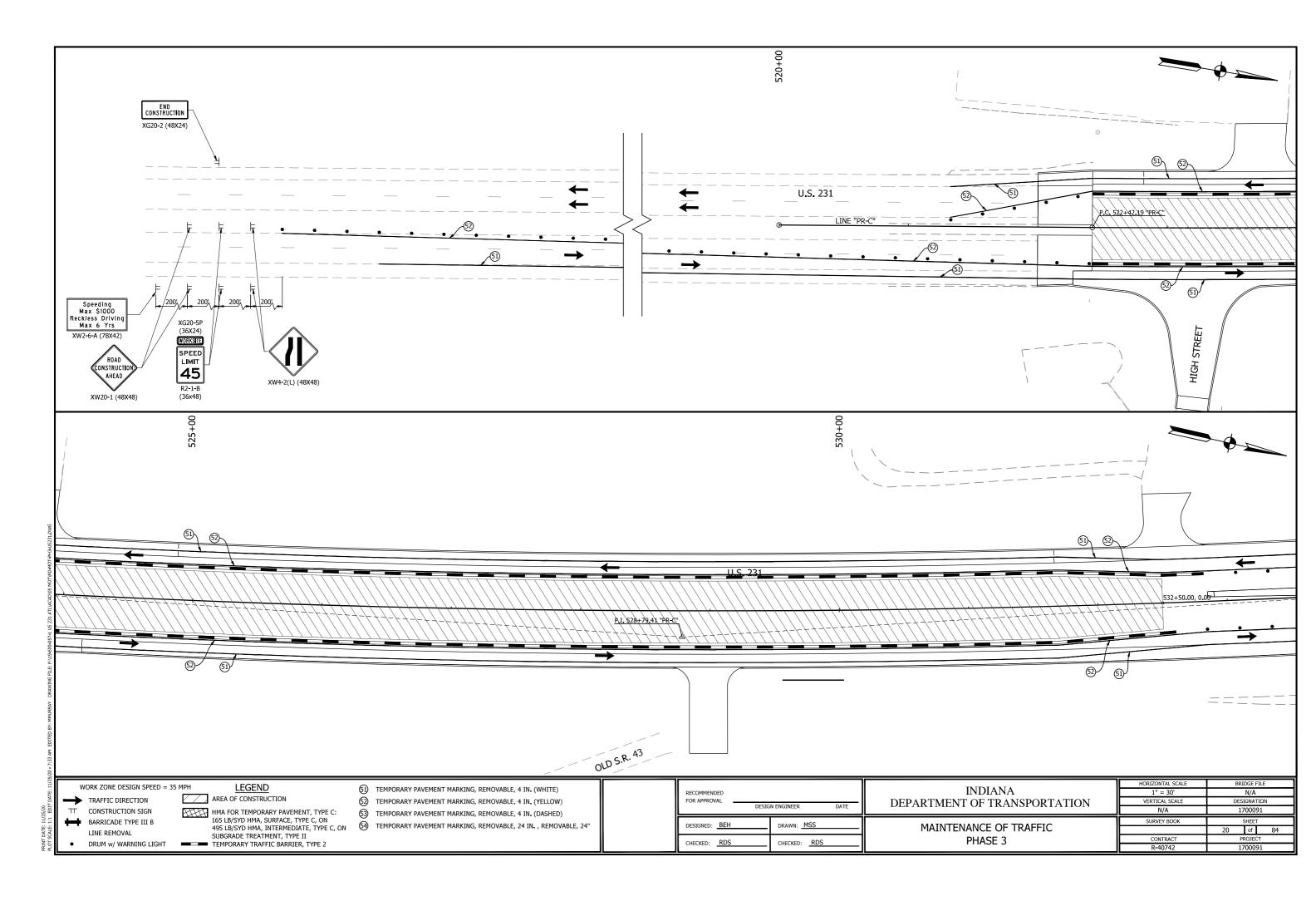


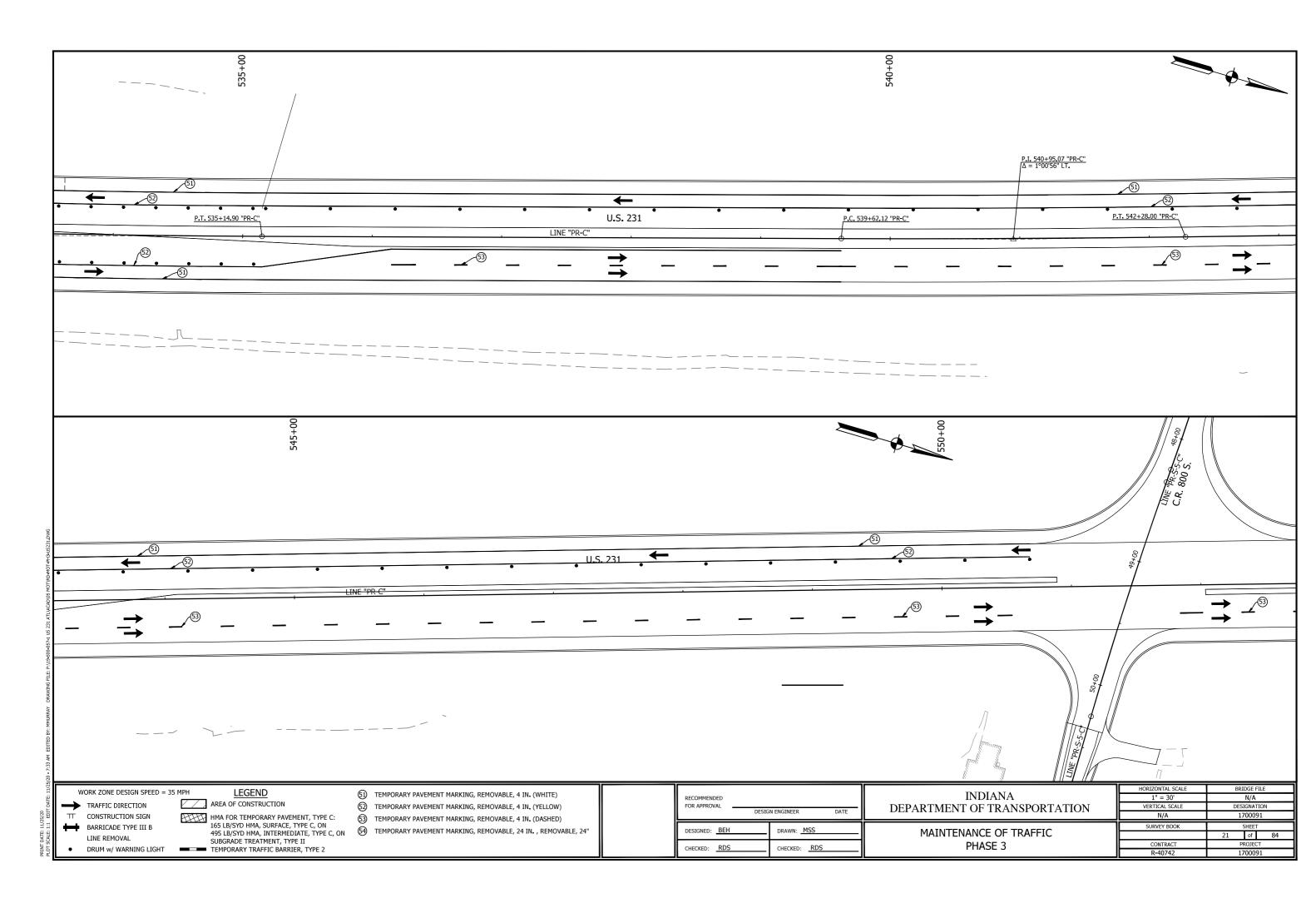
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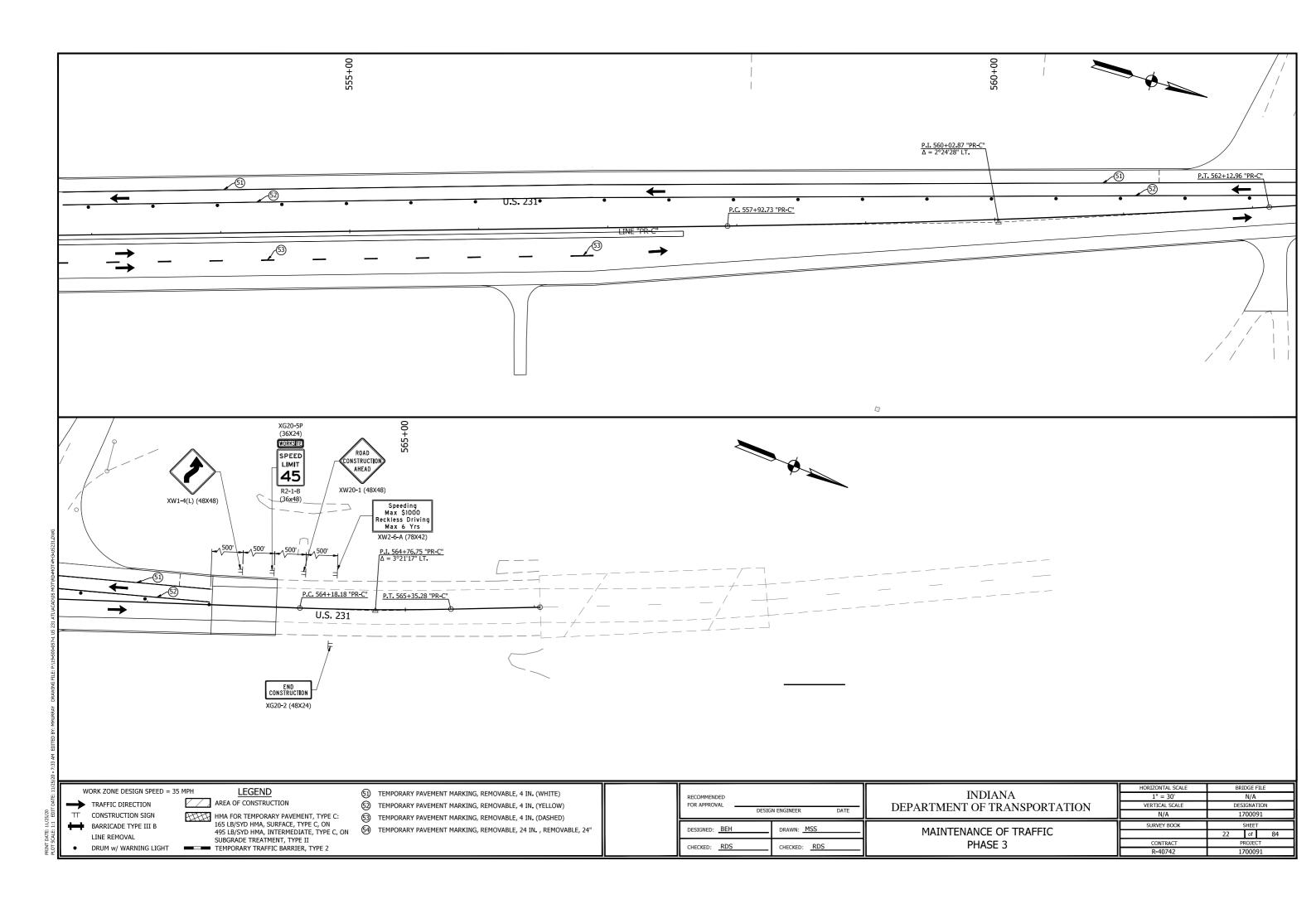


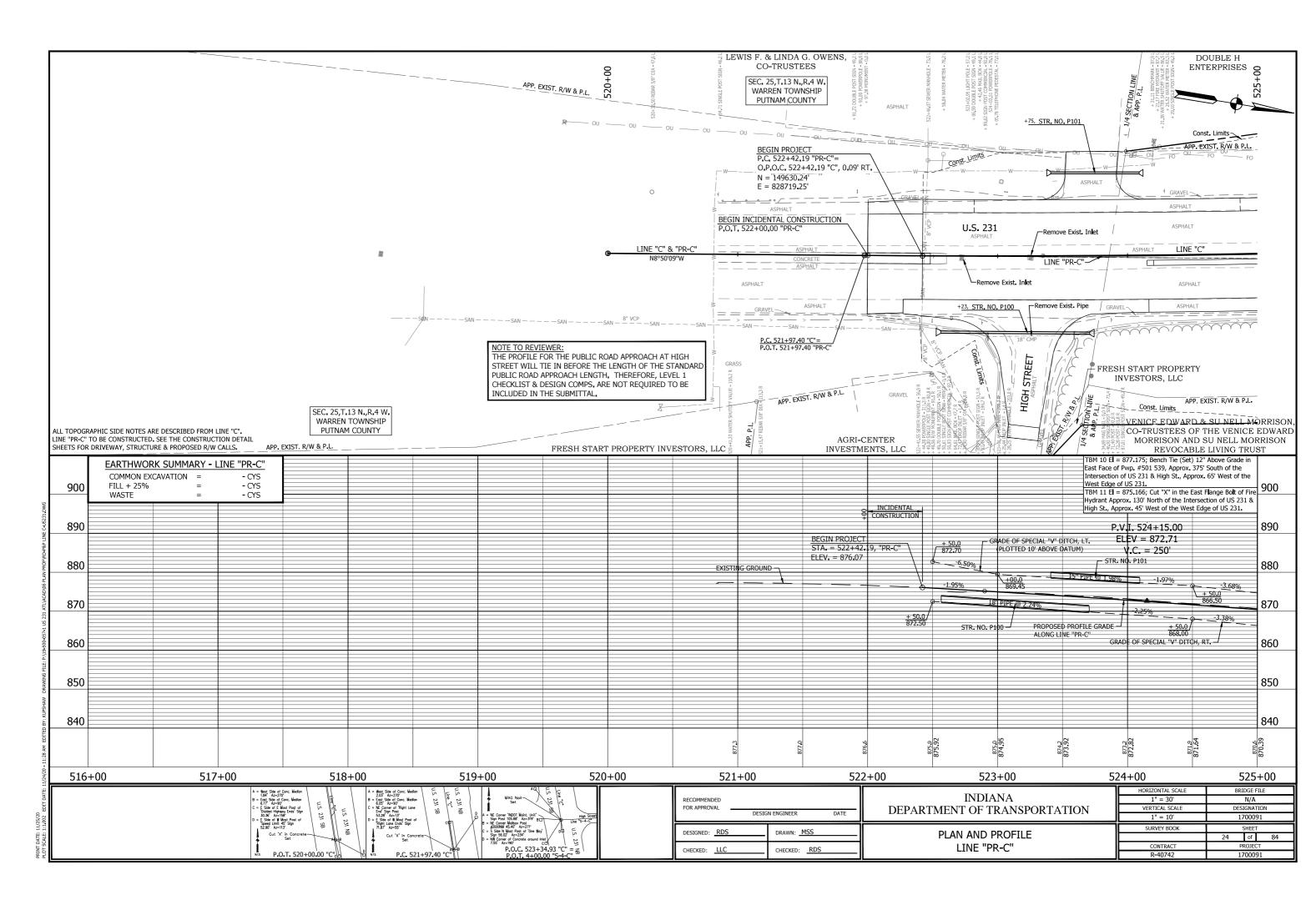


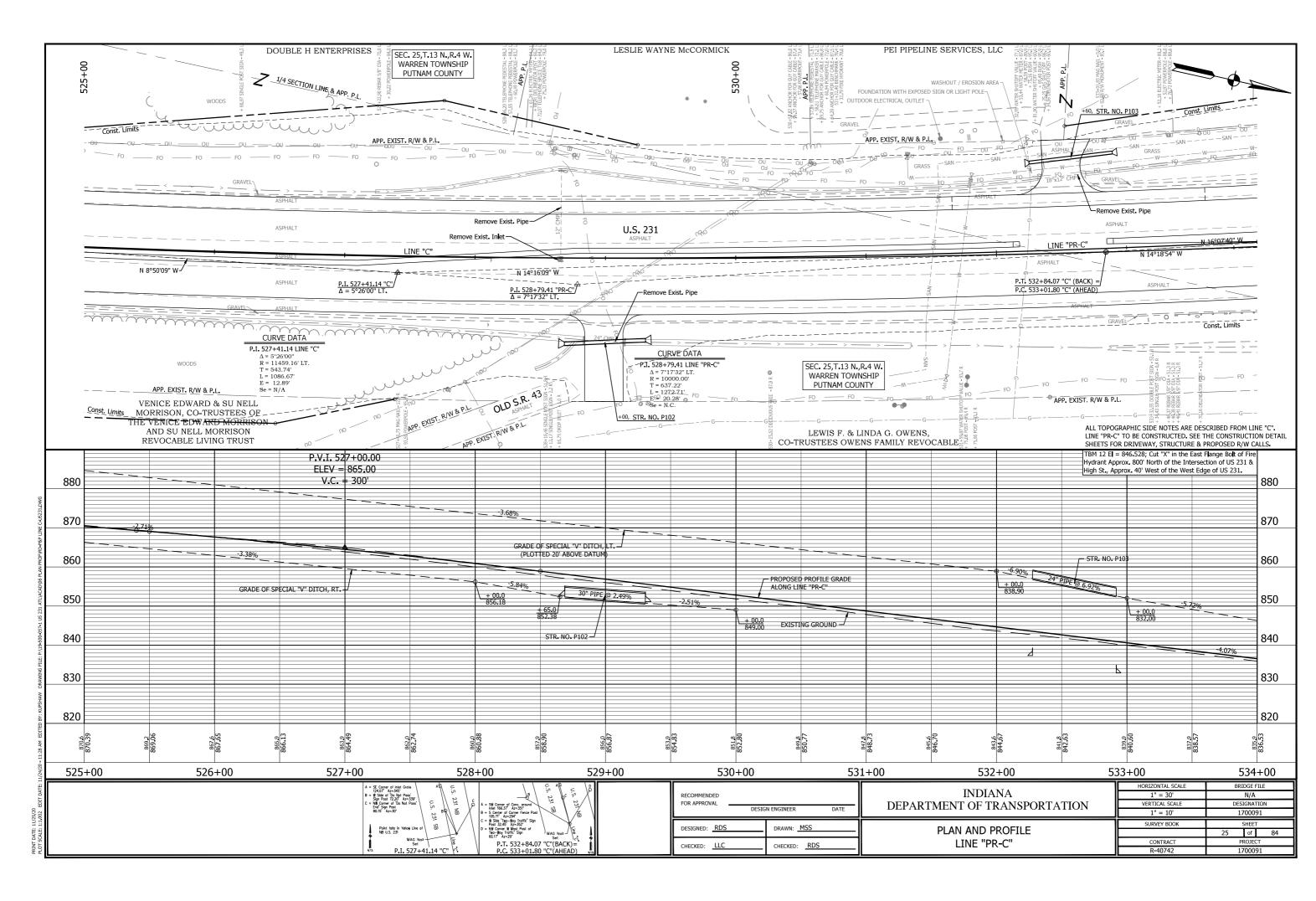












Appendix B: Graphics

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