X Categorical Exc Level 2 - table 1, Categorical Exc Level 3 - table 1, Categorical Exc Level 4 - table 1, Environmental A	RICAL EX	CLUSION / E	Environmental Documen NVIRONMENTAI ROJECT INFORMATION	t L ASSESSMENT FORI
After completing this form, I review/approve if Level 4 CE X Categorical Exc Level 2 - table 1, Categorical Exc Level 3 - table 1, Categorical Exc Level 4 - table 1, Environmental A is necessary to de Note: For documents prepared b to release for public involvement Approval ESM Signature FHWA Signature Release for Public Involvement N/A ESM Initials	/ :	Third Street, Bo	oonville, Warrick Cou	nty, Indiana
After completing this form, I review/approve if Level 4 CE X	ıber:	1600891		
Categorical Exc Level 2 - table 1, Categorical Exc Level 3 - table 1, Categorical Exc Level 4 - table 1, Environmental A is necessary to de Note: For documents prepared b to release for public involvement ESM Signature FHWA Signature Release for Public Involvement N/A ESM Initials	on/Termini:	Road Rehabilita to 460 feet nortl		Street from Sycamore Stree
Categorical Exc Level 3 - table 1, Categorical Exc Level 4 - table 1, Environmental A is necessary to de Note: For documents prepared b to release for public involvement ESM Signature FHWA Signature Release for Public Involv N/A ESM Initials		hat this project qualific	es for the following type of C	ategorical Exclusion (FHWA must
Categorical Exectevel 4 - table 1, Environmental Asis necessary to de Note: For documents prepared by to release for public involvement Approval ESM Signature FHWA Signature Release for Public Involvement N/A ESM Initials				a for Categorical Exclusion Man vironmental Scoping Manager)
Release for Public Involve ResM Initials Level 4 - table 1, Environmental A is necessary to de to release for public involvement for release for public involvement for release for public involvement for the release for Public Involvement for Public				a for Categorical Exclusion Man (Environmental Services Division
Note: For documents prepared beto release for public involvement Approval ESM Signature FHWA Signature Release for Public Involvement N/A ESM Initials			ed action meets the criteried Signatories: ESM, ES,	a for Categorical Exclusion Man FHWA
Approval ESM Signature FHWA Signature Release for Public Involv N/A ESM Initials			re a separate FONSI. Additionment. Required Signation	litional research and documentati tories: ES, FHWA
Release for Public Involv N/A ESM Initials	gnature	Date	ES Signature	Date
N/A ESM Initials	ignature	Date		
ESM Initials	Involvement			
			BDW.	6/10/2020
Certification of Public Ir		ate	ES Initials	Date
	D			
		Office of Public	Involvement Da	te
INDOT ES/District Env. Reviewer Signature:	blic Involveme	Office of Public		al requirements have been satisfied.
Name and Organization of CE/E.	blic Involvement blic Involvement blic Involvement blicker Involve	Office of Public	ent and all other environment	

County	Warrick		Route	Third Street	Des. No	16	00891	
		<u>Part</u>	I - PUB	BLIC INVO	LVEMENT			
					r early and continuous o			hout
If	oes the project ha No, then: pportunity for a P			under the Historic l	Bridges PA*? X	No	_	
	l public hearing is r tween INDOT, FHV			rocessed under the Hi	storic Bridges Programm	atic Agre	ement	
				notices, letters to affect rticles, etc.) have occu	ted property owners and rred for this project.	residents	(i.e. notic	ce of entry)
Remarks:	Notice of Ent Notice of Ent 2018 notifyin	ry ry letters were n g them about the	nailed to pote project and	entially affected pro that individuals resp	perty owners near the consible for land surve letter is included in Ap	ying and	l field ac	
				jects Programmatic der Section 106 are	Agreement, Category satisfied.	B-1. Fe	ederal Hi	ighway
	Transportatio an opportunity local publicat	will meet the n (INDOT) Publy to submit comrion contingent up	ic Involvemenent and/or roon the releas	ent Manual which request a public hear	ed in the current <i>I</i> equires the project sporing. Therefore, a legator public involvement	nsor to o	offer the will appe	public ear in a
	ontroversy on En			ng community and/	or natural resource imr	acts?	Yes	No X
Vill the p	project involve sub	ostantial controve	ersy concerni	,	or natural resource imp	_		X
Vill the p	At this time	ostantial controve	ersy concerni	,	•	_		X
Vill the p	At this time	ostantial controve	ersy concerni	,	•	_		X
Vill the p	At this time	ostantial controve	ersy concerni	,	•	_		X
Vill the p	At this time	ostantial controve	ersy concerni	,	•	_		X
Vill the p	At this time	ostantial controve	ersy concerni	,	•	_		X
	At this time	ostantial controve	ersy concerni	,	•	_		X

County	Warrick		Route	Third Street		Des. No	. 1	600891	
<u>Par</u>	<u>t II - Gener</u>	<u>al Project I</u>	<u>dentif</u>	<u>ication,</u>	<u>Descrip</u>	tion, and	l Des	<u>ign In</u>	<u>formatic</u>
-	f the Project: ne of the Facility:	City of Boonville Third Street	e		I	NDOT Distri	et: <u>Vi</u>	ncennes	<u> </u>
Funding S	Source (mark all tha	at apply): Fed	leral X	State	Local X	Other*]		
*If other i	s selected, please in	ndentify the funding	g source:	N/A			_		
PURPOS	E AND NEED:								
		em that the project w. IV.B.2. Purpose and .		The solution to	o the traffic pro	blem should NO	OT be dis	cussed in t	his section.
The need wear. Residrainage	surfacing of the pa is inadequate. The	due to the current vement over the year current sidewalks walk and deteriorate	ears has res	educed the end	xposure of the	e curb surface	and th	e surface	water
		is to improve the c sting Third Street,					alks, cu	arbs, and	
PROJEC	T DESCRIPTION	(PREFERRED A	LTERN	ATIVE):					
County:	Warrick	Mur	nicipality:	City of I	Boonville				
Limits of	Proposed Work: _	From Sycamore Sta	reet to 460) feet north of	Olive Street				
Total Wor	k Length: 0.6	9 Mile(s)		Total Work	Area:	4.7 Ac	re(s)		
		Study / Interchange Ju at a conditional appro			S) required?		Yes ¹ Date:		No X
^I If an IMS oi IMS/IJS.	r IJS is required; a co	py of the approved C	E/EA docu	ment must be s	ubmitted to the	FHWA with a r	equest fo	r final app	roval of the
Tl	nis is page 3 of 23	Project name: T	hird Street	Improvement			Date:	June 10	, 2020

County	Warrick	Route	Third Street	Des. No.	1600891
_	_		_	_	_

In the remarks box below, describe existing conditions, provide in detail the scope of work for the project, including the preferred alternative. Include a discussion of logical termini. Discuss any major issues for the project and how the project will improve safety or roadway deficiencies if these are issues.

Location:

The project is on the near northwest side of the City of Boonville in Boon Township, Warrick County, Indiana. Specifically, the project is located in Section 26, Township 5 South, Range 8 West, as shown on the *Boonville*, Indiana 7.5-minute USGS quadrangle map. The proposed improvements will extend from Sycamore Street to 460 feet north of Olive Street (NCL Boonville); the total project length is approximately 0.69 miles. Location can be shown in the site map and aerial map (Appendix B-1)

Existing Conditions:

Third Street is a two-lane, north/south roadway that is approximately 30 feet wide (two travel lanes at 15 feet each) bordered by concrete curbs and/or asphalt shoulders that vary from 0 to 3 feet wide. The existing right-of-way varies from 24 feet to 60 feet in width. Third Street was formerly SR 61, but was relinquished to the City of Boonville subsequent to construction of a bypass around the west side of the city. Third Street is still classified as an Urban Principal Arterial. Third Street is not an element of the National Highway System or the National Truck Route. Third Street serves as a gateway for access into the City of Boonville from Interstate 64 to the north, and rural Warrick County. The horizontal alignment of the roadway is tangent, and the vertical alignment is at grade. The posted speed limit is 30 mph. Overhead utility lines run parallel to both sides of Third Street, and a six-inch natural gas line passes under the roadway near Centennial Street. Drainage along Third Street is handled via curb inlets, which are connected to an existing combined sanitary/storm sewer trunk line.

Preferred Alternative:

It is proposed to provide two 11 feet wide travel lanes bordered by concrete curb and gutter. New curb inlets will be installed to channel stormwater to outlet to the existing trunk line. As part of this project, patching of the existing pavement at defined locations will be completed before the roadway is milled and resurfaced to improve functional and structural life of the pavement. The proposed design speed of 30 mph will match the current posted speed limit along the corridor. The existing horizontal alignment and vertical profile for the proposed roadway will essentially remain the same to reduce additional right-of-way requirements and impacts to utilities. The existing sidewalks and access ramps have been evaluated for Americans with Disabilities Act (ADA) compliance and will be repaired or replaced as necessary. New street lighting will be installed to provide safer travel for all users of the corridor. Project plans can be found in Appendix B-10.

Reducing the pavement width has the benefit of increasing green space along the corridor and reducing the amount of stormwater runoff. The additional greenspace will allow trees to be planted between the sidewalks and the curbs. Separation between the sidewalks and travel lanes will also improve safety for pedestrians using the sidewalks. Completion of the Boonville Bypass will reduce the number of trucks using Third Street and the need for wider travel lanes. It is anticipated that a maximum of 1.5 acres of additional permanent and 0.25 acre of temporary right-of-way will be required. The estimated construction cost is \$3,100,000.00 (2022)

A maintenance of traffic (MOT) plan was developed in coordination with the City and the Indiana Department of Transportation (INDOT). The road will be closed to through traffic during construction and the bypass will be used as the detour route. A detour route utilizing West Main Street to North Eskew Road to New Harmony Road will be marked for use, an approximate 5.3-mile route. Third Street will be closed one block at a time. Cross streets will remain open. Access to local businesses and residences will be maintained throughout the whole project.

Upon the completion of construction, the structural deficiencies of the existing pavement, sidewalks/access ramps and poor (surface) drainage will be improved. Pedestrian and other non-motorized traffic will be enhanced by the construction, providing increased safety for all these modes of transportation.

Termini will be from the intersection of Sycamore Street and 3rd Street to 460 feet north of Olive Street on 3rd Street. Utility will be independent as the roadway and sidewalks will be connected to existing roadways and sidewalks and ensure continuity

This is page 4 of 23	Project name:	Third Street Improvement	Date:	June 10, 2020
		Form Version: June 2013 Attachment 2		

throughout a whole neighborhood, while connecting the residential properties to the downtown area. OTHER ALTERNATIVES CONSIDERED: Describe all discarded alternatives, including the Do-Nothing Alternative and an explanation of why each discarded alternative was not sele "Do Nothing" Alternative: This alternative would not require an expenditure of funds; however, it would not address the purpose of the project which is to correct the deteriorated condition of the existing pavement and drainage concerns. With the "Do Nothing" alternate, the existing roadway and drainage patterns will continue to deteriorate and require constant maintenance. The "Do Nothing" alternative does not address the purpose and need of the project and was dismissed from further consideration. Transportation System Management (TSM):
Describe all discarded alternatives, including the Do-Nothing Alternative and an explanation of why each discarded alternative was not sele "Do Nothing" Alternative: This alternative would not require an expenditure of funds; however, it would not address the purpose of the project which is to correct the deteriorated condition of the existing pavement and drainage concerns. With the "Do Nothing" alternate, the existing roadway and drainage patterns will continue to deteriorate and require constant maintenance. The "Do Nothing" alternative does not address the purpose and need of the project and was dismissed from further consideration.
Describe all discarded alternatives, including the Do-Nothing Alternative and an explanation of why each discarded alternative was not sele "Do Nothing" Alternative: This alternative would not require an expenditure of funds; however, it would not address the purpose of the project which is to correct the deteriorated condition of the existing pavement and drainage concerns. With the "Do Nothing" alternate, the existing roadway and drainage patterns will continue to deteriorate and require constant maintenance. The "Do Nothing" alternative does not address the purpose and need of the project and was dismissed from further consideration.
"Do Nothing" Alternative: This alternative would not require an expenditure of funds; however, it would not address the purpose of the project which is to correct the deteriorated condition of the existing pavement and drainage concerns. With the "Do Nothing" alternate, the existing roadway and drainage patterns will continue to deteriorate and require constant maintenance. The "Do Nothing" alternative does not address the purpose and need of the project and was dismissed from further consideration.
This alternative would consist of traffic control measures such as signal timing, turn lane construction at intersections, high occupancy vehicle (HOV) lanes and other similar measures to move traffic efficiently throughout the corridor. The TSM alternative does not address the purpose and need of the project because it does not fix the deteriorating pavement and sidewalks and does not fix the inadequate drainage and therefore was dismissed from further consideration.
The Do Nothing Alternative is not feasible, prudent or practicable because (Mark all that apply): It would not correct existing capacity deficiencies; It would not correct existing safety hazards; It would not correct the existing roadway geometric deficiencies; It would not correct existing deteriorated conditions and maintenance problems; or It would result in serious impacts to the motoring public and general welfare of the economy. Other (Describe) ROADWAY CHARACTER: 3 rd Street
Functional Classification: Current ADT: Design Hour Volume (DHV): Designed Speed (mph): Existing Principal Arterial 5,700 VPD (2021) Design Year ADT: 6,300 VPD (2041) 7 7 Proposed
Number of Lanes: 2 2 Type of Lanes: 15 ft. through travel lanes 11 ft. through travel lanes Pavement Width: 20-30 ft. 22 ft. Shoulder Width: 0-3 ft. Curb and gutter Median Width: N/A ft. N/A ft. Sidewalk Width: Varies to 3 ft. 5 ft. Setting: X Urban Suburban Rural Topography: X Level Rolling Hilly If the proposed action has multiple roadways, this section should be filled out for each roadway.

County Warrick	Route	Third Street	Des. No.	1600891
DESIGN CRITERIA FOR	BRIDGES: N/A			
Structure/NBI Number(s):	N/A	Sufficiency Rating:		
			(Rating, So	urce of Information)
			ζ Ο	,
	Existing	Proposed		
D:1 m	T			
Bridge Type:				
Number of Spans:	ltan	ton		
Weight Restrictions: Height Restrictions:	ton ft.	ton ft.		
Curb to Curb Width:	ft.	ft.		
Outside to Outside Width:	ft.	ft.		
Shoulder Width:	ft.	ft.		
Length of Channel Work:		ft.		
	structures; provide specific loca		ructures.	
Remarks: No bridge	es or small structures are located	within this project.		
			Yes	No N/A
Will the structure be rehabil	itated or replaced as part of the	project?		X
If the proposed action has mi	ultiple bridges or small structure	es, this section should be fille	d out for each	ı structure.
MAINTENANCE OF TRA	AFFIC (MOT) DURING CON	STRUCTION:		
				Yes No
Is a temporary bridge propo	sed?			X
Is a temporary roadway pro				X
	use of a detour or require a ram		ks)	X
	for access by local traffic and so	•		X
	for through-traffic dependent bu			X
	to accommodate any local speci			X
	ostantially change the environme		ion?	X
Is there substantial controve	ersy associated with the propose	d method for MOT?		<u>X</u>
This is page 6 of 23	Project name: Third Street In	nprovement	D	ate: June 10, 2020

Date:

This is page 6 of 23 Project name:

		Indiana De	epartment of	f Transpo	rtation		
County	Warrick	Route	Third Street		Des. No.	1600891	
Remarks:	The MOT for the project A detour route utilizing approximate 5.3-mile route whole project. Third The lane restrictions will and emergency services cease upon project concompletion.	W Main St to Noute. Access to l Street will be clo l pose a temporar); however, no s	N Eskew Rd to ocal businesses used one block a ry inconvenience significant delay	New Harmo and residen t a time. Cro e to traveling s are anticij	ony Rd will be a ces will be mai ass streets will re g motorists (included) pated, and all in	marked for use ntained through emain open. Juding school bunconveniences	, an hout uses will
ESTIMAT	TED PROJECT COST AN	D SCHEDULE:					
Engineering	g: \$ <u>600,000</u> (2019)	Right-of-Way	v: \$ <u>548,250</u>	(2020)	Construction:	\$ 3,100,000	(2022
Anticipated	d Start Date of Construction:	Summer 2020	1				
Date projec	ct incorporated into STIP _	July 2, 2019					
Is the proje	ect in an MPO Area? Ye						
If yes, Name of	MPO _Evansville Metrop	olitan Planning O	rganization				
Location	of Project in TIP Page 8	31 in 2020-2024 T	IP (Appendix H)				
Date of ir	ncorporation by reference in	to the STIP	July 2, 2019				
RIGHT O	F WAY:						
					Amount (acres)	
	Land Use Impa	acts		Permanent	t	Temporary	
Residentia	1			1.50		0.25	
Commercia	al			0.00		0.00	
Agricultura	al			0.00		0.00	
Forest				0.00		0.00	
Wetlands				0.00		0.00	
Other			1	0.00		0.00	l

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.

0.00

1.50

0.00

0.25

Other:

TOTAL (Acres)

This is page 7 of 23	Project name:	Third Street Improvement	Date:	June 10, 2020

County	Warrick	Route	Third Street		Des. No.	1600891
Remarks:	~ ~	of-way is approximately the limits of the existing		~ .	_	
	to Third Street. Th	es approximately 1.5 acre e project also requires ap to Third Street for gradin	proximately 0.25	icre of tempor	ary right-of-w	ay from residential
Part III	<u> – Identifica</u>	tion and Evalu	ation of Im	pacts of	the Pro	posed Action
SECTION	A – ECOLOGICA	L RESOURCES				
Federal Wil State Natura Nationwide	ld and Scenic Rivers al, Scenic or Recreat Rivers Inventory (N g Rivers List for Indi	RI) listed	es	<u>Presence</u>	Yes	No No
Remarks:	area (Appendix B-1), there is one stre	o review, a site visit on (3), and the water resource am within the 0.5 mile so area. There are no other	es map in the Red earch radius. The	Flag Investig nearest river o	ation (RFI) restream is 2,	eport (Appendix E- 165 feet (0.41 mile)
	Department of Env on February 13, 2 disturbed land is erosion control m comments that app low-water in stream	en: I letters were sent to the rironmental Management (019). In their letter date-vegetated as soon as easures be implemented elicable water impacts should be restricted enmitments section of this	(IDEM), and United July 6, 2019 possible upon prand maintained ould be properly produced. All applicable as	ted States Fish, the IDNR oject complete for the duration of t	and Wildlife recommended ion and that on of the professions FWS states the	e Service (USFWS) If that all bare and appropriate design oject. IDEM made lat any work below
			Pre	<u>sence</u>	Impacts	
Reservoirs Lakes Farm Ponds Detention E		ties			Yes No	
mi .	s is page 8 of 23 Pro	Third Street	Improvement		Dot	e. June 10, 2020

County _	Warrick	F	Route Thir	d Street	Des. No.	1600891
Other:						
Remarks:	No presence, no imp Based on a desktop rarea (Appendix B-3) located within the 0.5 Therefore, no impact Early Coordination Early coordination dated July 6, 2018, possible upon projec maintained for the diproperly permitted, applicable agency redocument.	eview, a site vol., and the water of mile search restricted. Etters were sent the IDNR restricted to completion and uration of the USFWS states	er resources madius. The neat to IDNR, II commended that approproject. IDEM that any wor	DEM, and USFWS nat all bare and dispriate design erosion I made comments the below low-water	on February 13, 20 turbed land is re-v control measures land applicable water in streams should	there are 20 lakes a of the project area. O19. In their letter egetated as soon as be implemented and r impacts should be be restricted. All
Wetlands				Presence	Yes	cts No
Total wetla	and area: N/A ination has not been ma	_ acre(s) ade for non-iso		and area impacted: wetlands, fill in the	N/A acre	` '
Wetland N	O. Classification	Total Size (Acres)	Impacted Acres		Comments	
Wetland De Wetland De USACE Iso Mitigation F Improveme would resul Substan Substan Unique Substan	lated Waters Determin	It in any wetla ly and explain) adjacent home t costs; aintenance, or onomic, or envi	nd impacts and impacts and impacts and impacts and impacts are safety problem.	other improved prop	ecause such avoid	ance

County	Warrick	Route	Third Street	Des. No.	1600891
<u> </u>			d 4 - 1 - din d in 41 -		
Remarks:	(https://www.fws.gov/report (Appendix E-1 nearest wetland is 43; 2018 by BLN persons	eview of the wetlands/data/Mappe showed there are 25 feet (0.08 miles) no nel and no wetland as	National Wetlands r.html), the USGS to NWI wetlands loc rth of the project are reas were located alo		lix B-2), and the RFI search radius. The lucted on October 2, There are no other
	July 6, 2018, the IDN upon project comple maintained for the du properly permitted. U	NR recommended that tion and that appro- ration of the project. USFWS states that ar	t all bare and disturing priate design erosion IDEM made commony work below low-	VS on February 13, 2019 bed land is re-vegetated on control measures b ents that applicable water water in streams should conmental Commitments	as soon as possible e implemented and er impacts should be d be restricted. All
			Presence	<u>Impacts</u> Yes No	0
Terrestria Unique or l	l Habitat High-Quality Habitat		X	X	
se the remar Remarks:	Presence, with impact Based on a desktop rearea (Appendix B-3) t trees. Five trees are lo	et: view, a site visit on O here is terrestrial habi cated within the proje diameters at breast he	ctober 2, 2018 by BI tat. The terrestrial ha ct area that will be re ight (DBH): a 4" Ma	Depth of the serial of the ser	map of the project project area includes are following
	recommendations to n the IDNR recommend completion and that ap duration of the project	ninimize adverse impa ded that all bare and d opropriate design eros . USFWS commented on zone boundaries. A	acts on terrestrial resonant is turbed land is re-version control measures that the project should applicable agency	uary 13, 2019. The agenources. In their letter datagetated as soon as possible be implemented and maild not clear trees or und recommendations are incommendations.	ted July 6, 2018, ble upon project intained for the erstory vegetation
	gh incidences of animal mo nent, consideration of utiliz			lges and other areas appear	r to be the sole corridor fo
	proposed project located rst features located within				s No X X
Thi	s is page 10 of 23 Projec	t name: Third Street	Improvement	Da	ate: June 10, 2020

ounty	Warrick	Route	Third Street	Des. No.	1600891	
If yes,	will the project impac	t any of these karst featu	res?			
	Use the remarks box to MOU, dated October 1	identify any karst features 3, 1993)	within the project area.	(Karst investigation mus	t comply with the	Karst
emarks:	Outside karst area Based on a desktop outside the designa Understanding (Mo coordination respon the project area (A) surface coal mines		na as outlined in the Ofeatures identified witeral Survey (IGS) did not indicate that there are will not be affected by	ctober 13, 1993 Memo hin the project area. In ot indicate that karst fe active and abandoned	randum of the early atures may exisunderground an	st in d
	2019, the IGS prodesigner on Januar	n: letters were sent to the Idvided an Environmental by 7, 2020. All applicables on of this CE document.	Assessment Report.	The IGS response wa	s provided to t	
				<u>Presence</u>	<u>Impact</u>	s
Within the Any critical Federal		y federal species		X	Yes	No X
Is Section	on 7 formal consultati	on required for this actio	n? Yes	No X		
emarks:	the IDNR Warrick included in (Apper species located wi March 15, 2019 (A	county Endangered, The County Endangered, The highlighth hin the county. According to the National County is a state or fed ty.	nreatened and Rare (I ted species on the list ling to the IDNR-DF ural Heritage Progran	ETR) Species List has t reflect the federal and W early coordination a's Database has been	been checked a state identified response letter checked. To da	and is I ETR dated ate, no
	Indiana Bat and N	orthern Long-Eared B	at			
	The project qualification northern long-ear Railroad Administ Information for Plate I-1) and no addition	tic Informal Consultation es for the Range-wide Ford bat (NLEB), dated Paration (FRA), and USF mining and Consultation (anal species were founded Indiana bat (Myotis	Programmatic Information May 2016 (revised INS. Project information (IPaC) portal, and an owithin the project as	al Consultation for the February 2018), between tion was submitted the official species list was rea. Warrick County is	een FHWA, F rough the USF generated (App within range	ederal WS's bendix of the
Thi	is is page 11 of 23 Pro	ject name: Third Street	Improvement	D	ate: June 10,	2020

		Indiana De	epartment of Tra	nsportation	
County	Warrick	Route	Third Street	Des. No.	1600891
	based on the response and/or the NLEB (A) requested USFWS's r period; therefore, it (AMMs) are included This precludes the new Species Act, as amen	es provided, the proje ppendix I-7). INDOT review of the finding. was concluded they as firm commitments and for further consultanded. If new information	effect determination left was found to be "not reviewed and verifie No response was recein concur with the finds in the Environmental attion on this project as attion on endangered secontacted for consultate	ot likely to adversely a d the effect finding of ved from USFWS with ling. Avoidance and Commitments section required under Section pecies at the site bec	ffect" the Indiana bat n June 13, 2019 and hin the 14-day review Mitigation Measures of this document. n 7 of the Endangered
ECTION	B – OTHER RESOUR	RCES			
			Presei	<u>ıce</u> <u>Im</u>	<u>pacts</u>
Wellhea Public V Residen Source	Water Resources ad Protection Area Water System(s) ttial Well(s) Water Protection Area(s) urce Aquifer (SSA))	X	Yes	X X
Is t Is t Ini	A is present, answer the the Project in the St. Jose the FHWA/EPA SSA Mi tial Groundwater Assess tailed Groundwater Assess	eph Aquifer System? OU Applicable? ment Required?	Yes	S No	
Remarks:	Aquifer, the only FHWA/Environmenta (MOU) is not applical Source Water Area Located in a Source The Indiana Departs website (http://www.personnel. This projection)	in Warrick County, legally designated sal Protection Agency ble to this project. No water Area: ment of Environment in gov/idem/cleanwatect is located within a The contact person	which is not located woole source aquifer of (EPA) Sole Source of impacts are expected at al Management's (Inter/pages/wellhead/) wood Source Water Area.	DEM) Wellhead Pro as accessed on Marc	ana. Therefore, the m of Understanding eximity Determinator h 12, 2019 by BLN be affected due to the
	Water Wells No wells present, no The Indiana Dep	impacts: artment of Natur	vas accessed on March		Database website rsonnel. No wells are

June 10, 2020

Date:

Third Street Improvement

This is page 12 of 23 Project name:

County	Warrick	Route	Third Street		Des. No.	1600891
	Urban Area Boundar In an Urban Area Bo Based on a desktop personnel on, January Boundary (UAB) loc Boonville and the Ev respond within the 30-	review of the INI at 15, 2019 and the Fation. An early coansville Metropolita	AFI report (Append ordination letter w	ix E-1); this pr as sent on Fe	oject is locate bruary 13, 20	d in an Urban Area 119, to the City of
	Public Water System In a Public Water System Based on a desktop rearea (Appendix B-3), will be affected because was sent on February	stem Location view, a site visit on this project is locate se a water line will	d where there is a require relocation	public water sidue to curb inl	ystem. The p ets. An early	ublic water system
]	Presence	Impac	<u>ts</u>
Transver Project l	ns dinal Encroachment rse Encroachment ocated within a regulate ocated in floodplain with				Yes	No
Remarks:	Discuss impacts according Not in floodplain The Indiana Depart (http://dnrmaps.dnr.in not located in a regula Therefore, it does not CFR. No impacts are	rtment of Natural gov/appsphp/fdms/) atory floodplain as fall within the guid	Resources Ind was accessed on M determined from a	iana Floodwa Iarch 12, 2019 pproved IDNR	ay Informati by BLN perso	on Portal website onnel. This project is naps (Appendix F-2).
	ural Lands armland (per NRCS)		Presence	<u>ee</u>	Impacts Yes N	10
	nts (from Section VII of or greater, see CE Manu		·			
Remarks:	No presence, no impa Based on a desktop re area (Appendix B-3), Policy Act (FPPA) wi project; therefore, no i	net view, a site visit on there is no land tha thin or adjacent to th	October 2, 2018 bt meets the definite project area. The	y BLN person	nel, the aerial d under the F	armland Protection
SECTION	C – CULTURAL RES	OURCES				
		Category Ty	pe INDOT	Approval Dat	tes	N/A
Thi	s is page 13 of 23 Projec	t name· Third Stre	et Improvement		Dat	e: June 10, 2020

County W	arrick	Route	Third Street	Des. No.	1600891
Minor Projects I	PA Clearance	В	1 April 4, 20	19	
		Eligible and/o Resource P			
Results of Rese	arch	<u> resource r</u>	Teserre		
Archaeology NRHP Building NRHP District(s NRHP Bridge(s Project Effect	s)				
No Historic Pro	perties Affected	No Adverse I	Effect A	lverse Effect	
		Documentation Prepared			
Documentation	(mark all that apply)		ES/FHWA Approval Date(s)		HPO val Date(s)
Historic Propert Archaeological I APE, Eligibility 800.11 Docume Memorandum o De cat put Lit. Remarks: Remarks:	Records Check/ Review Phase Ia Survey Report Phase Ic Survey Report Phase II Investigation Re Phase III Data Recovery and Effect Determination	nt cultural resource arks box. The composite indicate the Section 106 work whory B projects: OOT Cultural Res B, Type 1 under	MOA Signature Dates, including a detailed soletion of the Section 10 expublication date, name inch must be completed on the Minor Projects I	es (List all signatories) ummary of the Section 106 6 process requires that a L of paper(s) and the comme at a later date, such as miti- determined that this pro	process, using the egal Notice be ent period deadline. gation or deep trenching. oject falls within the nt, (Appendix D-1),
A ci ci	ncluding when projects chabilitation, or resurfacion qualified professional heck and field reconnaionsultation is required. The ection 106 have been fulfilled.	ng projects. archaeologist conssance did not id. This completes the	nducted a records chentify any cultural m	eck and field reconnais	ssance. The records ect area. No further
Thic ic	page 14 of 23 Project na	me· Third Stree	t Improvement	Da	te: June 10, 2020

County	Warrick	Route	Third Street	Des. No.	1600891
SECTION	N D – SECTION 4(f) RESOURCES	S/ SECTIO	ON 6(f) RESOURCES		
Parks & C	f) Involvement (mark all that apply) Other Recreational Land Ely owned park Ely owned recreation area (school, state/national forest, bikewa		<u>Presence</u>	Yes No	
"I	rogrammatic Section 4(f)* De minimis" Impact* dividual Section 4(f)		Evaluations Prepared	<u>FHWA</u> <u>Approval date</u>	
Nation Nation State V	a Waterfowl Refuges nal Wildlife Refuge nal Natural Landmark Wildlife Area Nature Preserve		Presence	Yes No	
"E	ogrammatic Section 4(f)* De minimis" Impact* dividual Section 4(f)		Evaluations Prepared	FHWA Approval date	
Historic P	roperties eligible and/or listed on the NRHP		<u>Presence</u>	Yes No	
"E	ogrammatic Section 4(f)* De minimis" Impact* dividual Section 4(f)		Evaluations Prepared	FHWA Approval Date	
Th	is is page 15 of 23 Project name: _	Third Street	Improvement	Date	e: June 10, 2020

County	Warrick	Route	Third Street	Des. No.	1600891
Remarks:	evaluation(s) discussed below. Individual Sec Programmatic, "de min of Environmental Studie No presence, no im	below. Discuss Programmetion 4(f) documentation imis" and Individual Sections". Discuss proposed alternact:	natic Section 4(f) an must be separate I on 4(f) evaluations p rnatives that satisfy to	nd "de minimis" Section 4(f, Oraft and Final documents. lease refer to the "Procedura he requirements of Section 4(f	
	historic lands for fee The law applies to	lerally funded transporta significant publicly ow ted historic properties re	ation facilities unle ned parks, recrea	1966 prohibits the use of ss there is no feasible and tion areas, wildlife / water ship. Lands subject to this	prudent alternative. erfowl refuges, and
	area (Appendix B-3		(Appendix E-1) th	BLN personnel, the aeria here are no Section 4(f) :	
Section 6(f) Involvement		Presence	Yes Use No	
Section 6(f) Property				
Remarks:	No presence, no im The U.S. Land and V (LWCF), which was Section 6(f) of this A A review of 6(f) pro https://www.lwcfcoa	pact: Water Conservation Function from created to preserve, devact prohibits conversion perties on the Land and	d Act of 1965 estable lop, and assure act of lands purchased Water Conservation d a total of zero pro	ction 6(f). Discuss any Second blished the Land and Water coessibility to outdoor recreation with LWCF monies to a report of this project.	r Conservation Fund eation resources. non-recreation use.
SECTION	NE – Air Quality				
Is the If YE: Is Is If	project in an air quality S, then: the project in the most of the project exempt from the project is NOT exer Is the project in the T Is a hot spot analysis required of MSAT Analysis required.	non-attainment or main current MPO TIP? n conformity? npt from conformity, the cansportation Plan (TP)? required (CO/PM)?	en:	Yes No X	
Th	is is page 16 of 23 Proj	ect name: Third Street	Improvement	Da	te: June 10, 2020

County	Warrick	Route	Third Street	Des. No.	1600891
Remarks:		rovement Program (MF			Planning Organization sportation Improvement
	1997 standard which South Coast Air Que projects design cond Organization Trans	t is located in Warrick C h was revoked in 2015 b ality Management Distr cept and scope are accur	out is being evaluated ict V. Environmental rately reflected in both the Transportation Im	for conformity due to the Protection Agency, Et. In the Evansville Metrop provement Program (T	he February 16, 2018, Al. Decision. The olitan Planning IP) and both conform to
	1 0	type qualifying as a ca ir Act conformity rule	•	· /	R 771.117(c), or exempt bile Source Air Toxics
SECTION	F - NOISE				
	w of Noise Analysis Type III Project: This project is a Ty	No Yes/ Da Pe III project. In accord	lance with 23 CFR 77	2 and the current <i>India</i>	na Department of
SECTION	N G – COMMUNITY	IMPACTS			
Will the pr Will the pr Will the pr Will constr Does the co If No, a	roposed action result in roposed action result in ruction activities impactory community have an appare steps being made to	with the local/regional of substantial impacts to of substantial impacts to let community events (fe	community cohesion? ocal tax base or prope stivals, fairs, etc.)? y's transition plan?		Yes No X X X X X X X X
Remarks:		orary inconveniences as and fugitive dust. There			
Th	is is page 17 of 23 Pro	ject name: Third Stree	t Improvement	n	oate: June 10, 2020

County	Warrick	Route	Third Street	Des. No.	16008	91
	values as a result of the project result from the proposed project not appreciably affect the project of Boonville website and www.no scheduled festivals or other	ject. Acquisition perty tax base www.fairsandfest	on of the additional per of the City if Boonvil ivals.net, an online res	rmanent and temporar lle or Warrick County. source for local fairs a	y right-of A review nd festiva	-way would of the City
	As required by the American as well as the city itself, has Warrick County ADA Transipatterns for the area. The exception of the area as necessarily as the control of the area as necessarily as the control of the area.	s developed an ition Plan. In ac xisting sidewal	ADA Transition Pladdition, the project co	n. The proposed project mplies with local and	ect compl regional d	ies with the levelopment
	nd Cumulative Impacts oposed action result in substanti	ial indirect or c	umulative impacts?		Yes	No X
Remarks:	Indirect impacts are effects we but are still reasonably forest related to induced changes in affect the environment which present, and reasonably foreactions.	eeable. Indire the pattern of th result from	ct effects may included land use, population of the incremental impa	e growth inducing efficients; or growth rate. ct of the action when	ects and o Cumula added to	other effects tive impacts other past,
	Because this project is a servin commercial or residential growth rate is expected as a of the project.	development is	n the project area. No	change in land use, p	oopulatior	density, or
Will the propriet with private utility	cilities & Services oposed action result in substant lities, emergency services, re and bicycle facilities? <i>Discuss</i> ess.	eligious institu	itions, airports, publ	lic transportation or	Yes	No X
Remarks:	Presence, no impacts: Based on a desktop review, area (Appendix B-3), and the airport, four schools, five receive 0.5 mile radius of the promise Mill St. This pipeline will no planned curb inlets. Access to impacts are expected.	RFI report (Apreational facility) ject. One under to be affected by	ppendix E-1), there are ties, three pipelines, a ground natural gas pipy the proposed project	e 11 religious facilities railroad and a manage peline runs through the t. Water lines will be r	s, two cented land look e project a relocated t	neteries, one cated within area north of to match the
	Early Coordination: Early coordination letters we Neither agency respond to the the utility that owns the natural control of the second control of the sec	e early coordin	ation letter. Clark – D	Dietz Inc., a subconsult	ant, coord	linated with
	It is the responsibility of the weeks prior to any construction			oration and emergency	services	at least two
Thi	is is page 18 of 23 Project name:	Third Street	Improvement	Σ	ate: Ju	ine 10, 2020

County _	warrick	Route	Inira Street	Des. No.	1600	891	
E	-tal Instina (F.D. (Dura	:1:150 12000)			Vac	No	
	ntal Justice (EJ) (Pres			r	Yes	No	
During the c	development of the pro	ject were EJ issues ide	ntified?			X	
Does the pro	oject require an EJ anal	ysis?			X		
If YES, then	1:						
	ny EJ populations locat the project result in adve	1 5		o EJ populations?		X	

Remarks:

EJ Analysis, No EJ Populations

Under FHWA Order 6640.23A, FHWA and the City of Boonville, as a recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT Categorical Exclusion Manual, an Environmental Justice (EJ) Analysis is required for any project that has two or more relocations or 0.5 acre of additional permanent right-of-way. The project will require 1.5 acres of additional permanent right-of-way from residential properties adjacent to Third Street. Therefore, an EJ Analysis is required.

Potential EJ impacts are detected by locating minority and low-income populations relative to a reference population to determine if populations of EJ concern exists and whether there could be disproportionately high and adverse impacts to them. The reference population may be a county, city or town and is called the community of comparison (COC). In this project, the COC is Warrick County, IN. The community that overlaps the project limits is called the affected community (AC). In this project, the AC is Boonville, IN. An AC has a population of concern for EJ if the population is more than 50% minority or low-income or if the low-income or minority population is 125% of the COC. Data from the Census Tract 306 was obtained from the US Census Bureau Website https://factfinder.census.gov/ on January 2, 2020 by BLN personnel. The data collected for minority and low-income populations within the AC are summarized in the below table.

Table: Minority and Low-Income Data (ACS, 2013-2017)						
	COC Warrick County	AC Boonville, IN				
Percent Minority	7.20	8.32				
125% of COC	9.00					
EJ Population of Concern		No				
Percent Low-Income	7.69	17.61				
125% of COC	9.61					
EJ Population of Concern		Yes				

AC, Boonville, IN has a percent minority of 8.32% which is below 50% and is below the 125% COC threshold. Therefore, AC does not contain minority populations of EJ concern.

AC, Boonville, IN has a percent low-income of 17.61% which is below 50% and is above the 125% COC threshold. Therefore, AC is a low-income populations of EJ concern.

Conclusion

Approximately 1.5 acres of permanent residential right-of-way and 0.25 acres of temporary residential right-of-way will be required for this project. No relocations, changes in access, or changes in community cohesion will occur. The affected community will see a net benefit because this project will separate the sidewalks and

This is page 19 of 23	Project name:	Third Street Improvement	Date:	June 10, 2020
This is page 19 of 23	Project name:	Third Street improvement	Date:	June 10, 2020

County	Warrick	Route	Third Street	Des. No.	1600891
	travel lanes which will improve stravel lanes and sidewalks adding INDOT-ESD stated that they "disproportionately high and adve to non EJ population in accord 6640.23a. No further EJ Analysis	g greenspa would not rse effect of lance with	ce, and stormwater runof consider the impacts as on minority and/or low in the provisions of Exec	f will be reduced sociated with this come populations	On February 7, 2020 s project as causing a of EJ concern relative
Relocation	of People, Businesses or Farms				Yes No
Will the pro Is a Busine Is a Concep	oposed action result in the relocation ss Information Survey (BIS) require of the Stage Relocation Study (CSRS) relocation coordination been initiated.	ed? 5) required	?		X X X X X X X X X X
Number of	relocations: Residences: (<u>)</u> Bu	sinesses: 0 Farm	ns: <u>0</u> Oth	her:0
Remarks:	If a BIS or CSRS is required, discuss to No Relocations No relocations of people, busines Utility Coordination Utility coordination has been con	ses, or far	ns will take place as a res	ult of this project.	
SECTION	H – HAZARDOUS MATERIAL	S & REG	ULATED SUBSTANCE	S	
Red Flag In Phase I Env Phase II En	s Materials & Regulated Substant nvestigation wironmental Site Assessment (Phase avironmental Site Assessment (Phase ecifications for Remediation require	I ESA) e II ESA)		ocumentation X	
ES Review	No of Investigations	Yes/ Da	15, 2019	7	
Remarks:	Include a summary of findings for each Presence, no impact Based on a review of GIS and a October 17, 2018 by BLN person (Appendix E-1). One state clear storage tanks (LUSTs), one rest project area and one of the UST state intersection of Mill Street; he	h investigate vailable p nnel and a nup site, s ricted was sites is loca	ublic records, a Red Flag pproved on January 15, 2 even underground storage ste site and five brownfo ated adjacent to the projec	019 by INDOT E e tanks (UST), sizelds are located vertarea on the west	nvironmental Services k leaking underground within 0.5 mile of the side of Third Street at
Th:	s is page 20 of 23 Project name:	Third Stree	t Improvement		Date: June 10, 2020

Date:

This is page 20 of 23 Project name:

County _	Warrick	Route	Third Street	Des. No.	1600891
	area that will impact the project.	Other type	s of hazmat sites and t	the provimity of the	negrest site to Third
	Street are as follows:	omer types	s of nazmat sites and t	me proximity of the	nearest site to 1 mird
	State cleanup site – 0.46 mile				
	LUST – 0.15 mile				
	Restricted waste site – Closed Brownfield – 0.11 mile				
	No impacts are expected. Further	investigatio	on for hazardous mater	ial concerns is not rec	quired at this time.
SECTION	I – PERMITS CHECKLIST				
Permits (m	ark all that apply)		Likely Required		
	ps of Engineers (404/Section10 Per	mit)			
	lividual Permit (IP) tionwide Permit (NWP)				
	gional General Permit (RGP)				
	-Construction Notification (PCN)				
Oth	· · · · · · · · · · · · · · · · · · ·				
	tland Mitigation required				
	eam Mitigation required				
DEM					
	ction 401 WQC lated Wetlands determination				
	le 5		X		
Oth			A		
	etland Mitigation required				
	eam Mitigation required				
DNR					
	nstruction in a Floodway				
	vigable Waterway Permit				
Lai Oth	ke Preservation Permit				
	tigation Required				
	Guard Section 9 Bridge Permit				
	ease discuss in the remarks box bel	ow)			
Remarks:	A Rule 5 Notice of Intent and disturbance is anticipated.	erosion co	ntrol plan will be ne	cessary as more tha	n one acre of land
	Applicable recommendations prov Environmental Commitments secti conditions of the permit will be rec	on of this o	document. If a Rule 5 p	permit is found to be	necessary, the
	1	•		•	
	It is the responsibility of the City of		e to identity and obtain	an reduired bermins	

ounty	Warrick	Route	partment of Tra Third Street	Des. No.	1600891		
~~~~			~				
CTIO	N J- ENVIRONMENTAI	L COMMITMENTS	<u> </u>				
emarks:	The following information si commitment(s) and indicating Firm:						
xemarks.	1. If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division (ESD) and the INDOT Vincennes District Environmental Section will be contacted immediately. (INDOT- ESD and INDOT Vincennes)						
	2. It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access. (INDOT-ESD)						
	3. General AMM 1:Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs. (USFWS)						
	4. Lighting AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)						
	5. Lighting AMM 2:When installing new or replacing existing permanent lights, use downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting); or for those transportation agencies using the BUG system developed by the Illuminating Engineering Society, be as close to 0 for all three rating with a priority of "uplight" of 0 and "backlight" as low as practicable. (USFWS)						
	6. Tree Removal AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal.						
	7. Tree Removal AMM 2: Apply time of year restrictions for tree removal, April 1 through June 30 th , when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of the year within 100 feet of existing road rail surface and outside of documented roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with <u>no bats observed</u> . (USFWS)						
	8. 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)						
	9. Tree Removal AMM 4: Do not remove documented Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or documented forage habitat any time of the year. (USFWS)						
	For Further Consideration:						
	10. Plant five trees, at least two inches in diameter at breast height for each tree that is removed that is 10 inches or greater in diameter at breast height. (IDNR)						

County	Warrick	Route	Third Street	Des. No.	1600891			
SECTIO	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 was initiated on February 13, 2019 with applicable federal, state, and local agencies. A copy of the outgoing early coordination letter is included in Appendix C. The agencies that were contacted and the date on which they replied are identified below.

EARLY COORDINATION RECIPIENTS	RESPONSE RECEIVED	APPENDIX
National Park Service, Midwest Region	No Response	-
Natural Resources Conservation Service	No Response	-
City of Boonville	No Response	-
Evansville MPO	No Response	-
IDEM – electronic response	February 19, 2019	C-4
IDEM – Ground Water Section	February 22, 2019	C-8
USFWS, Bloomington Field Office	March 4, 2019	C-10
IDNR- Division of Fish and Wildlife	March 15, 2019	C-12
Indiana Geological Survey	February 19, 2019	C-13
INDOT Vincennes District	February 15, 2019	C-16

This is page 23 of 23 Project name: Third Street Improvement Date: June 10, 2020

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# Appendix A:

# INDOT Supporting Documentation

## **Categorical Exclusion Level Thresholds**

	PCE	Level 1	Level 2	Level 3	Level 4 ¹
Section 106	Falls within guidelines of Minor Projects PA	"No Historic Properties Affected"	"No Adverse Effect"	-	"Adverse Effect" Or Historic Bridge involvement ²
Stream Impacts	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	Individual 404 Permit
Wetland Impacts	No adverse impacts to wetlands	< 0.1 acre	-	< 1 acre	≥ 1 acre
Right-of-way ³	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations	None 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 None	-	-	-	Any
Section 4(f) Impacts	None None	-	-	-	Any
Section 6(f) Impacts	None None	-	-	-	Any
Added Through Lane	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Coast Guard Permit	None	-	-	-	Any
Noise Analysis Required	No No	-	-	-	Yes V7
Air Quality Analysis Required Approval Level	No Concurrence by INDOT District	-	-	<u>-</u>	Yes ⁷
<ul> <li>District Env. Supervisor</li> <li>Env. Services Division</li> </ul>	Environmental or Environmental Services	Yes	Yes	Yes Yes	Yes Yes Yes
FHWA  Coordinate with INDOT Environmental Section 1.					1 58

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.

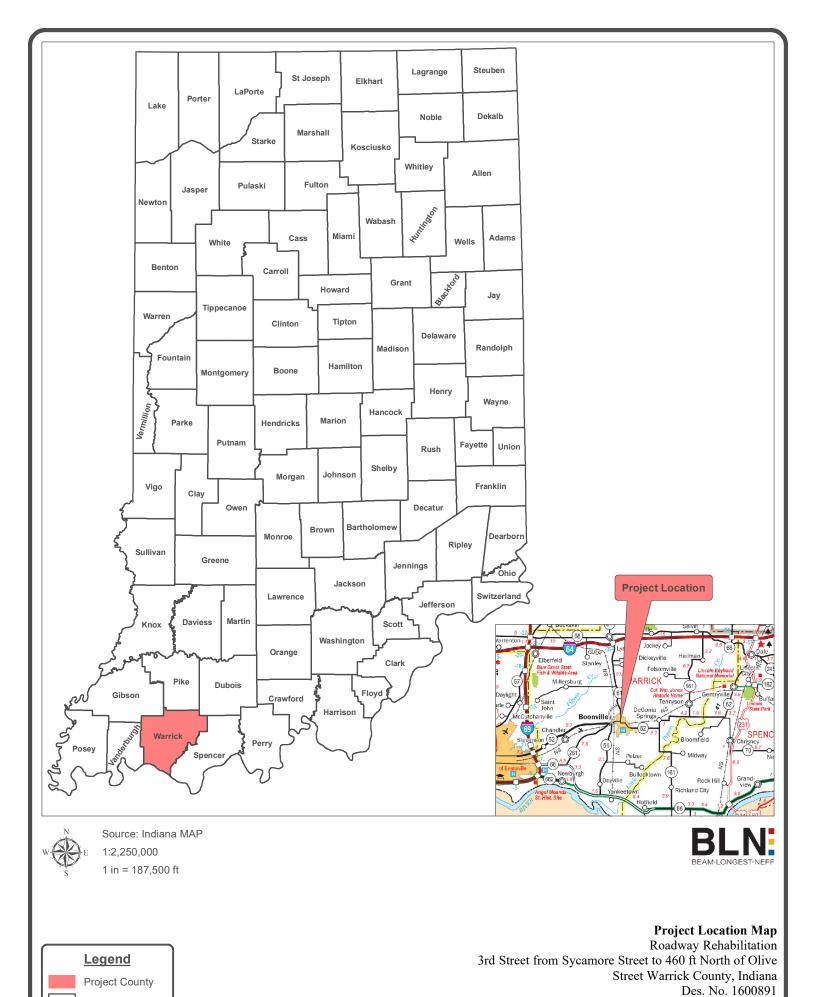
⁵AMMs determined by the IPAC decision key to be needed that are listed in the USFWS *User's Guide for the Range-wide Programmatic Consultation* for Indiana bat and Northern long-eared bat as "required for all projects". ⁶Potential for causing a disproportionately high and adverse impact.

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

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

# Appendix B:

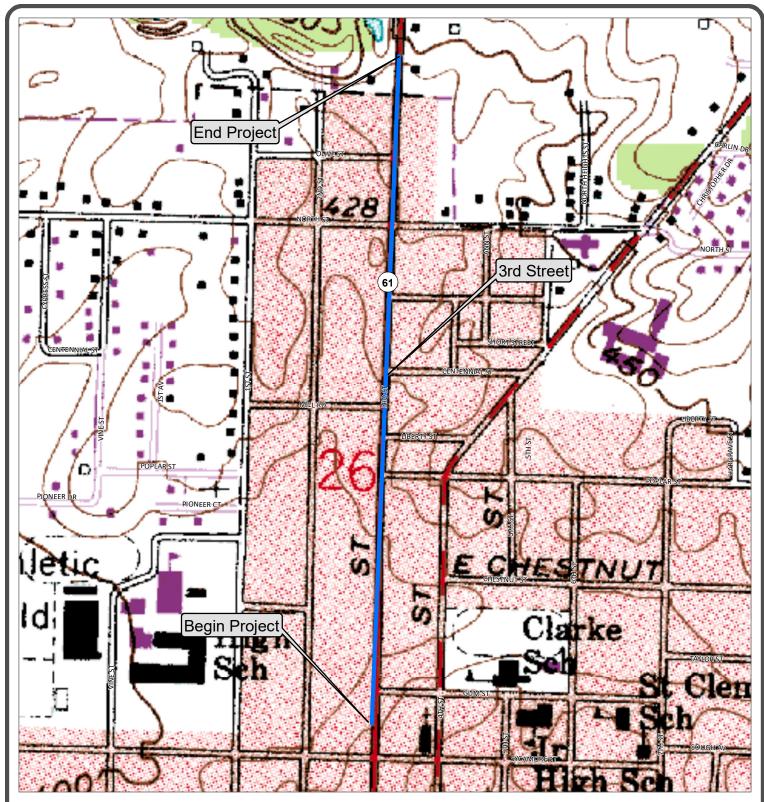
Graphics



June 14, 2018

P180031 - Roomville 3rd StreefiGIS Project Granbics Template - Project Location Man - 11v8 5 mvd | Thursday June 14 2015

**County Boundary** 





Source: U.S. Geological Survey

1:6,000

1 in = 500 ft



#### **USGS Topographic Map**







Source: Indiana MAP 1:6,000

1 in = 500 ft

BLN:
BEAM·LONGEST·NEFF

#### **Aerial Map**





1. View Looking South on Third Street at North Terminus



2. View Looking North on Third Street at Olive Street





**3. View Looking South on Third Street at Olive Street** 



4. View Looking North on Third Street at Center Street



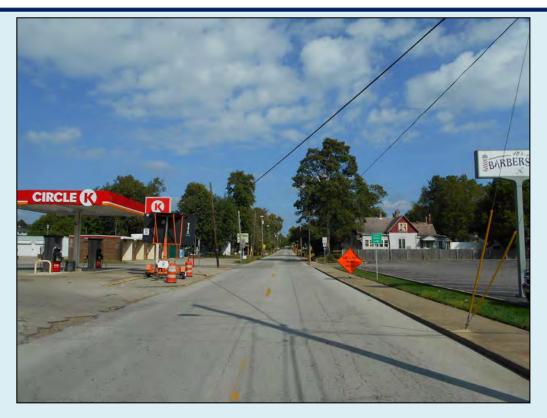


5. View Looking North on Third Street at Centennial Street



6. View Looking South on Third Street at Centennial Street





7. View Looking North on Third Street at Liberty Street



8. View Looking East on Liberty Street at Third Street





9. View Looking North on Third Street at Poplar Street



10. View Looking South on Third Street at Poplar Street





11. View Looking North ion Third Street at Sycamore Street, just South of South Terminus

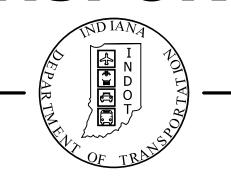


12. View Looking South on Third Street at Sycamore Street, just South of the South Terminus



PROJECT	DESIGNATION
1600891	1600891
CONTRACT	BRIDGE FILE
R-39840	N.A.

## INDIANA DEPARTMENT OF TRANSPORTATION

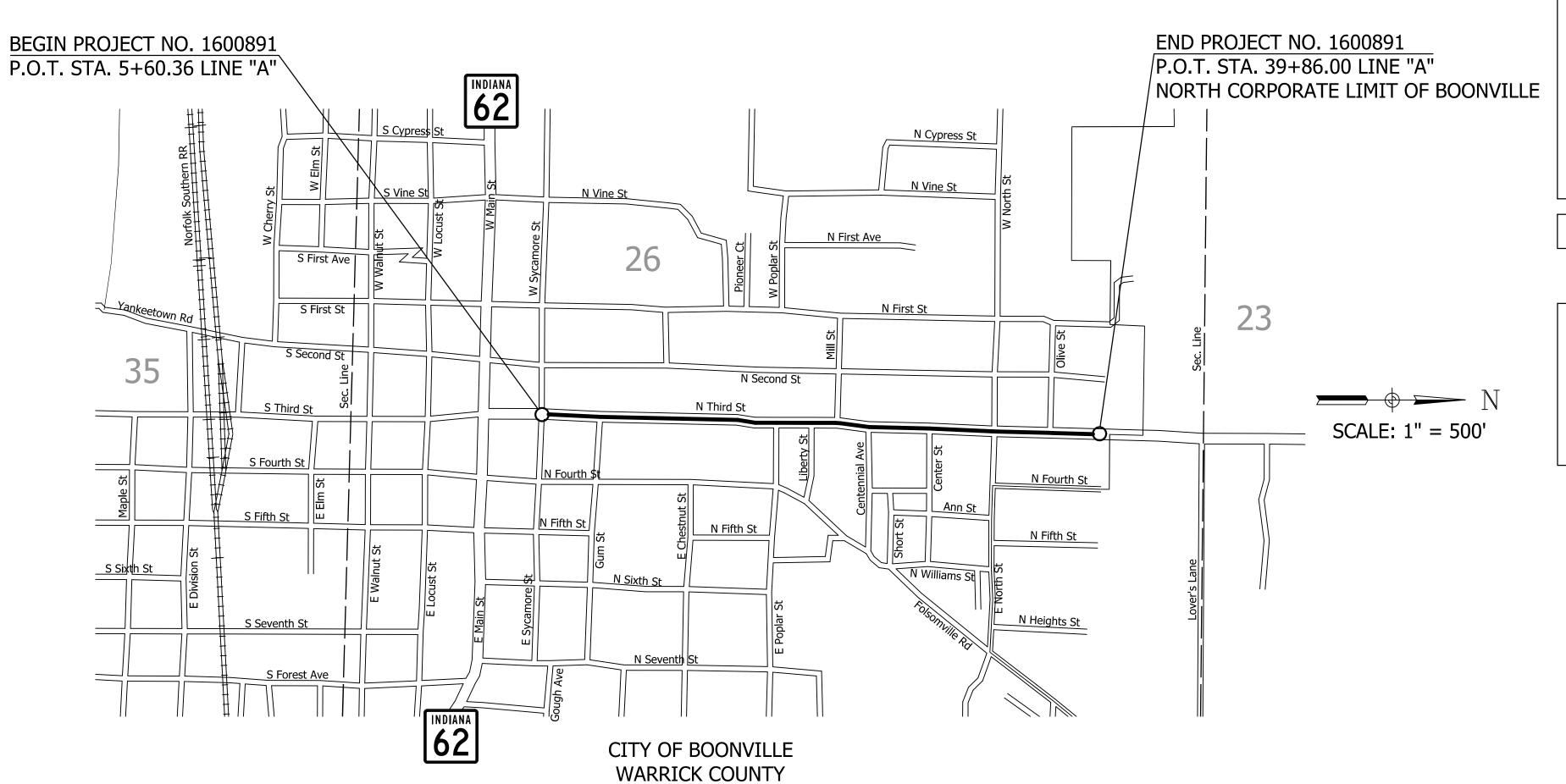


## ROAD PLANS

PROJECT NO. 1600891 P.E. 1600891 CONST.

Road Rehabilitation of 3rd Street From Sycamore Street to North Corporate Limit of Boonville (± 460 Feet North of Olive Street)

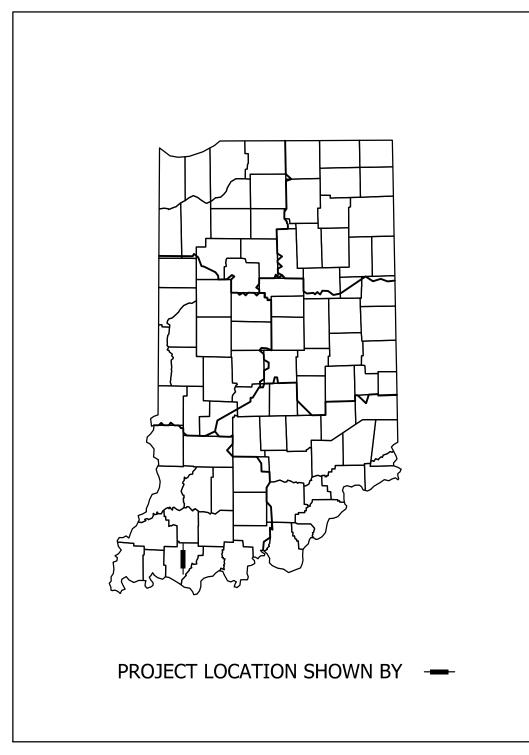
All in Section 26, T-5-S, R-8-W, Boone Township, City of Boonville, Warrick County, Indiana



TRAF	FIC DAT	A
A.A.D.T.	(2021)	5,700 V.P.D.
A.A.D.T.	(2041)	6,300 V.P.D.
D.H.V	(2041)	567 V.P.H.
DIRECTIONAL DIS	STRIBUTION	50 %
TRUCKS		7 % A.A.D.T.
	-	40/ 0117

## **DESIGN DATA**

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



LATITUDE: 38° 03' 19" N LONGITUDE: 87° 16' 27" W

HUC: 051420211101

GROSS LENGTH:	0.59 MI.
BRIDGE LENGTH:	
NET LENGTH:	<u>0.59</u> MI.
MAX. GRADE:	3.52 %

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2018 TO BE USED WITH THESE PLANS

	N.A.		
	DESIGNATION		
	1600891		
SURVEY BOOK	SHEETS		
ELECTRONIC	1 of 94		
CONTRACT	PROJECT		
R-39840	1600891		



PREPARED BY:	Beam, Longest & Neff, L.L.C.	(317) 849-5832 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:		DATE
	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE

## UTILITIES

AT&T 240 N. Meridian St., Room 1791 Indianapolis, IN 46204 Attn: Matt Spindler Ph: 317-265-3050 Email: ms4822@att.com

Boonville/Chandler Natural Gas 1425 North Rockport Road Boonville, IN 47601 Attn: John Lewellyn Ph: 812-897-2260 Fax: 812-897-2277 Email: johnl@bngas.com

Insight Communications 1900 N. Fares Avenue Evansville, IN 47711 Attn: Scott Dotson Ph: 812-253-2736 Fax: 812-909-0293 Email: Dotson.s@insightcom.com

Vectren Energy Delivery 16000 Allisonville Rd. Noblesville, IN 46061
Attn: Public Project
Ph: 317-718-3639
Email: publicproject@vectren.com Veolia Water 117 E. Locust Street Boonville, IN 47601 Attn: Shawn Wright Ph: 812-897-2118 Fax: 812-897-6819 Email: shawn.wright@veoliawaterna.com

Wide Open West (WOW) 102 Brownsville Avenue Liberty, IN 47353 Attn: James Fambrough Email: james.fambrough@wowinc.com

GENERAL NOTES				
* *	All unpaved disturbed areas shall be sodded.			

* *	REPRESENTS	<b>GENERAL</b>	NOTES	REQUIRED
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	INDEX
SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	INDEX SHEET
3-4	TYPICAL CROSS SECTIONS
5	DETOUR ROUTE
6-19	PLAN AND PROFILE SHEETS
20-94	CROSS SECTIONS

INDIANA UNDERGROUND PLANT PROTECTION SERVICE, INC.





Know what's **below.** Call before you dig.

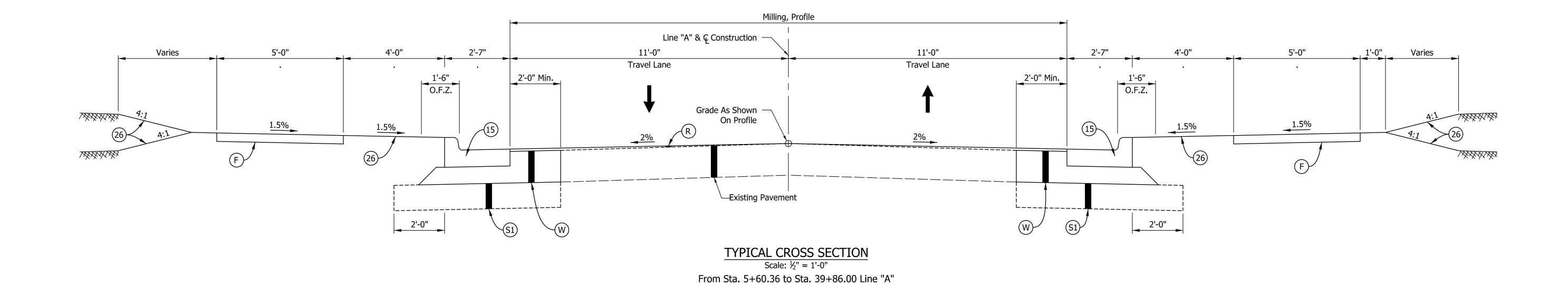
Per Indiana State Law IC-8-1-26-16, It is against the law to excavate without notifying the underground location service two (2) full working days before commencing work.

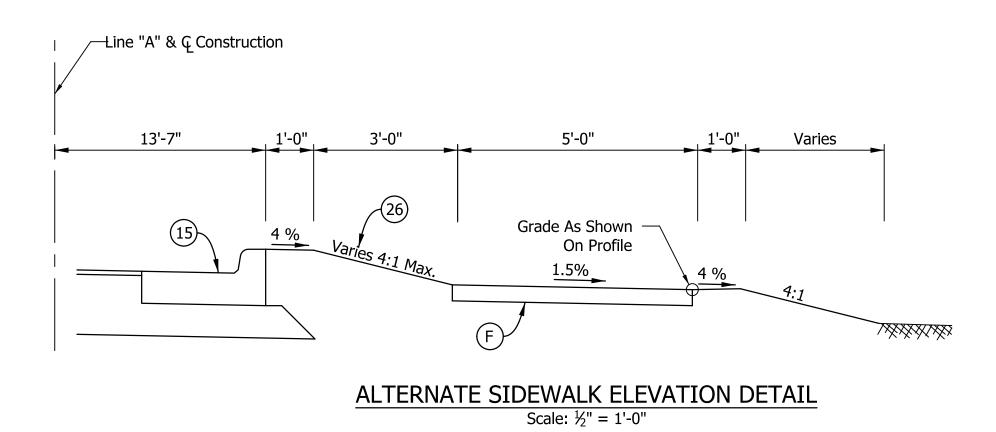
> INDIANA UNDERGROUND 1-800-382-5544 OR CALL 811 24 HOURS A DAY 7 DAYS A WEEK

Note: Utility Locations are shown based upon information (maps and paint marks) supplied by others, and there is no guarantee of the accuracy or completeness of said locations.

	REVISIONS			
SHEET NO.	DATE	REVISED		

RECOMMENDED FOR APPROVAL DESIGN ENGINEER DAT	INDIANA DEPARTMENT OF TRANSPORTATION	N.A.  VERTICAL SCALE  N.A.	BRIDGE FILE  \$BRIDGE_FILE\$  DESIGNATION  1600891
DESIGNED: PBW DRAWN: MAB/JJP	3RD STREET	SURVEY BOOK \$SRV_BK\$	SHEETS 2 of 94
CHECKED: MSM CHECKED: PBW		CONTRACT R-39840	PROJECT 1600891

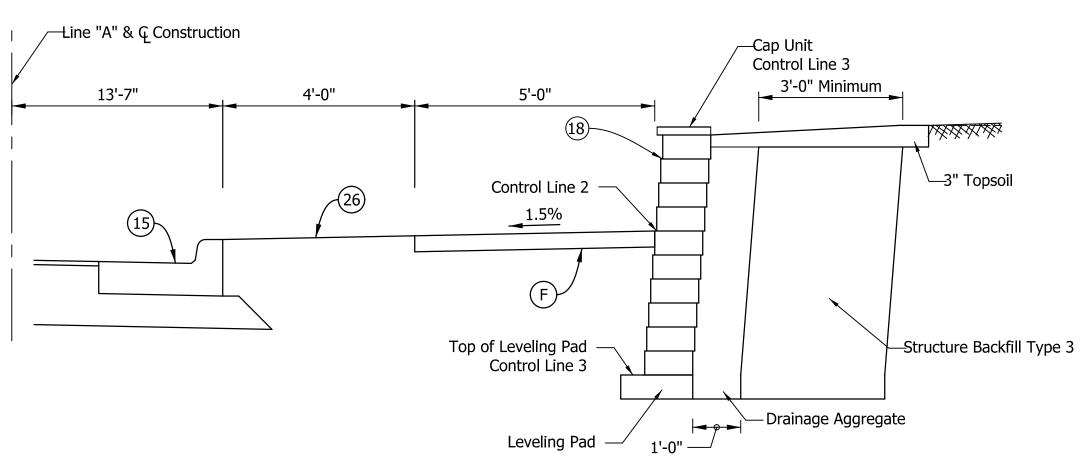




From Sta. x+xx to Sta. x+xx

OFZ = Obstruction Free Zone

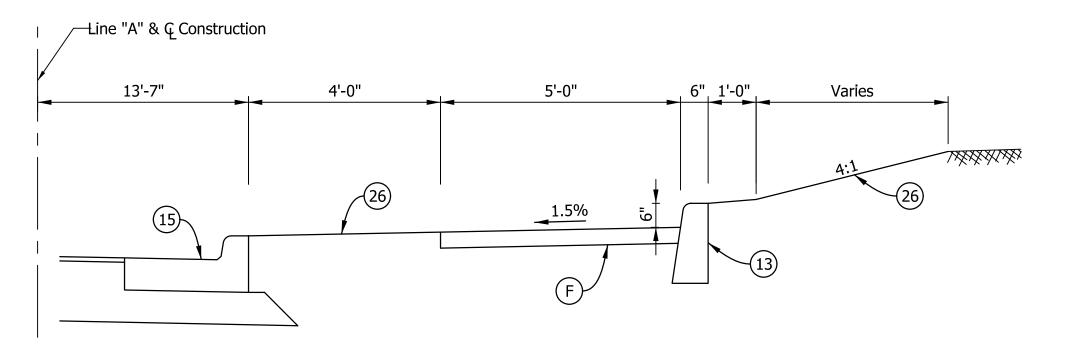
		TAIDTANIA	HORIZONTAL SCALE	BRIDGE FILE
RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE		INDIANA	AS NOTED	\$BRIDGE_FILE\$
		DEPARTMENT OF TRANSPORTATION	VERTICAL SCALE	DESIGNATION
			AS NOTED	1600891
DECICNED DDW	DDAMAN MAD/IID		SURVEY BOOK	SHEETS
DESIGNED: PBW DR	DRAWN: MAB/JJP	3RD STREET	\$SRV_BK\$	3 of 94
CLIFCKED MCM	CHECKED DDW	TYPICAL CROSS SECTION	CONTRACT	PROJECT
CHECKED: MSM	CHECKED:PBW	THICKE CROSS SECTION	R-39840	1600891



### MODULAR BLOCK WALL DETAIL

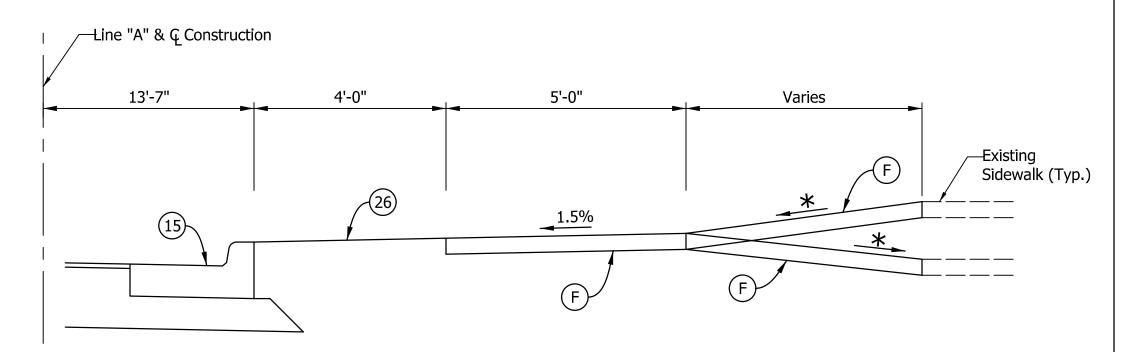
Scale:  $\frac{1}{2}$ " = 1'-0"

From Sta. 24+50 to Sta. 25+50 Rt. From Sta. 26+50 to Sta. 27+00 Rt. From Sta. 31+69 to Sta. 33+00 Rt.



## $\frac{\text{CURB DETAIL}}{\text{Scale: } \frac{1}{2}" = 1'-0"}$

From Sta. 24+25 to Sta. 24+45 Rt. From Sta. 27+00 to Sta. 27+90 Rt. Fram Sta. 30+70 to Sta. 31+50 Rt.



## PRIVATE SIDEWALK CONNECTION DETAIL

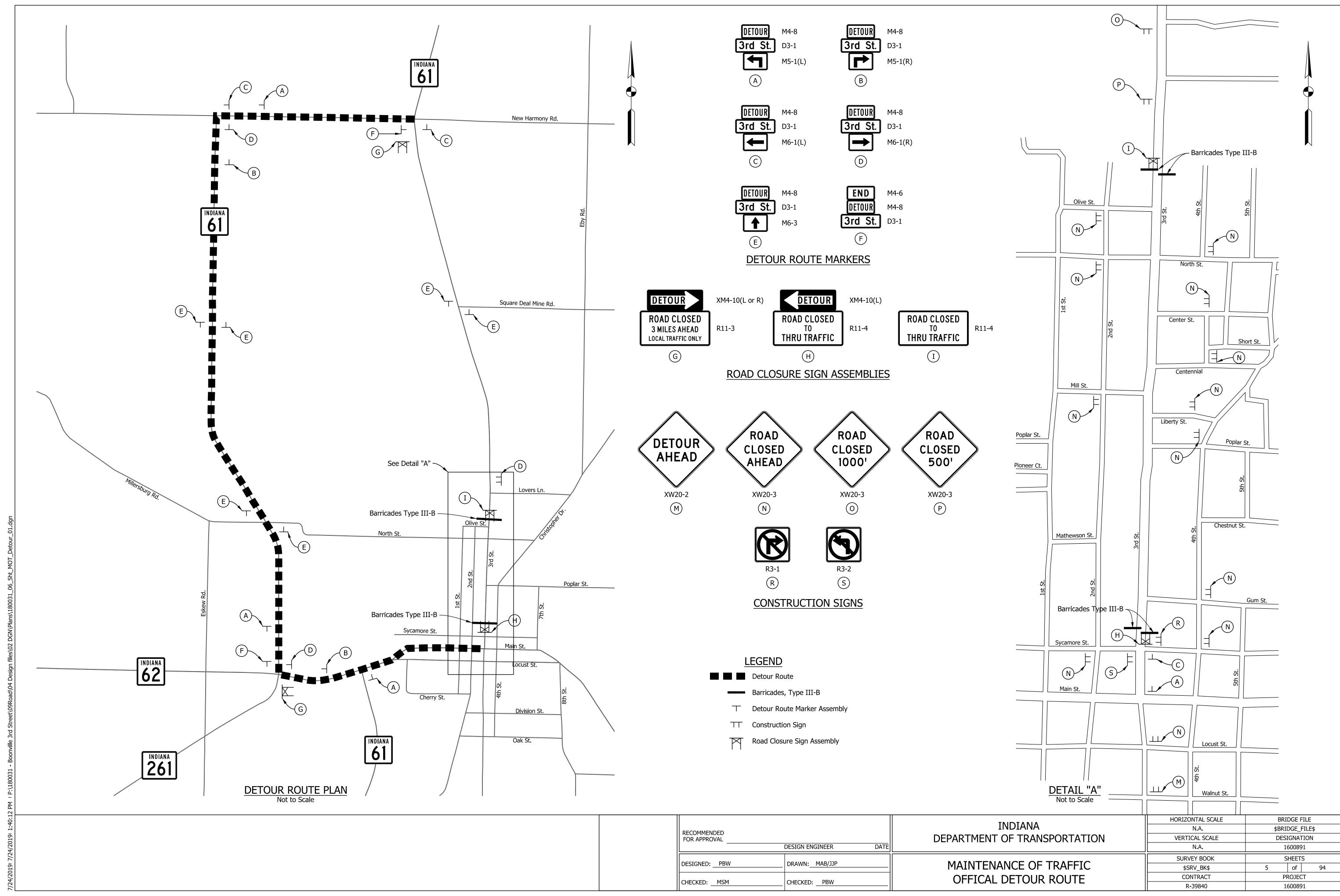
Scale: ½" = 1'-0"

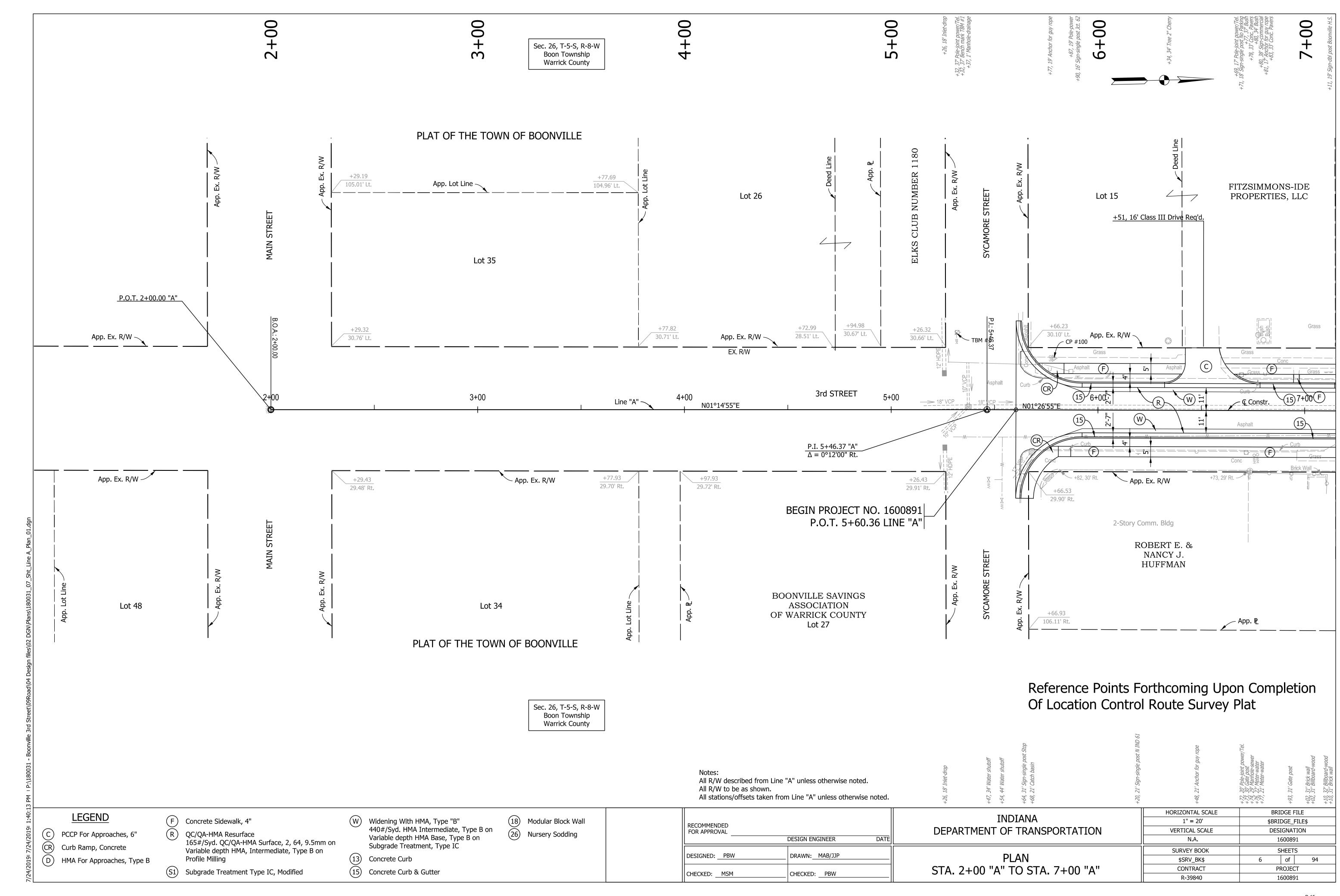
* 5.00 % Maximum

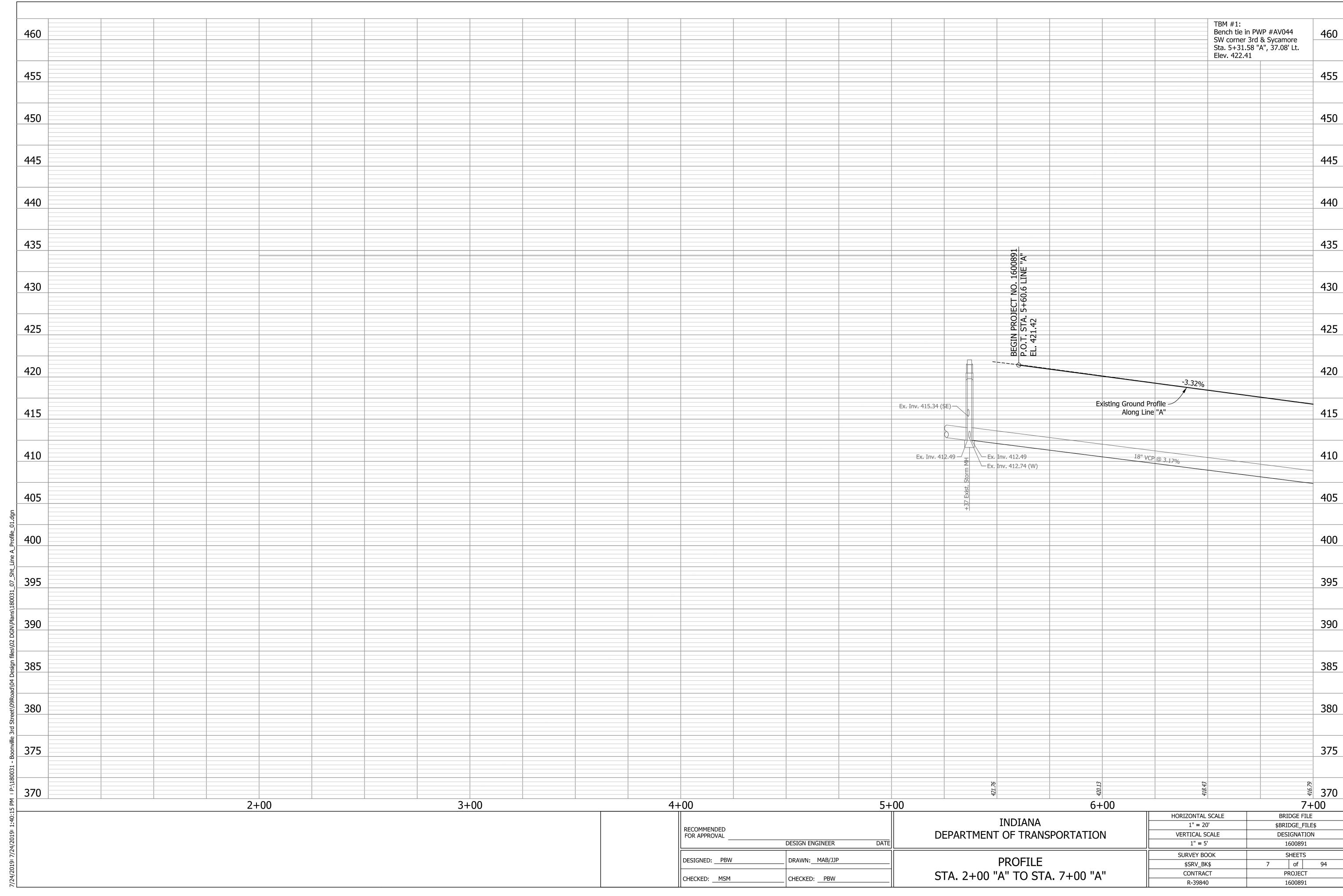
Sta. 7+35 Rt. Sta. 7+38 Lt. Sta. 7+65 Lt. Sta. 7+75 Rt. Sta. 8+06 Lt. Sta. 8+26 Lt. Sta. 8+89 Lt. Sta. 9+19 Rt. Sta. 9+69 Lt. Sta. 9+69 Lt. Sta. 10+32 Lt. Sta. 10+83 Rt. Sta. 10+89 Lt. Sta. 11+27 Rt. Sta. 11+40 Lt. Sta. 11+66 Lt. Sta. 11+85 Lt. Sta. 12+32 Rt.	Sta. 16+55 Rt. Sta. 16+86 Lt. Sta. 17+13 Rt. Sta. 17+33 Lt. Sta. 17+50 Rt. Sta. 17+67 Lt. Sta. 18+70 Rt. Sta. 19+04 Lt. Sta. 19+22 Rt. Sta. 19+71 Rt. Sta. 21+50 Lt. Sta. 21+50 Rt. Sta. 21+50 Lt. Sta. 21+50 Lt. Sta. 21+50 Lt. Sta. 31+75 Lt. Sta. 33+75 Lt.
Sta. 11+81 Rt.	Sta. 28+63 Lt.
Sta. 12+79 Rt.	Sta. 34+72 Lt.
Sta. 12+88 Lt. Sta. 13+35 Rt. Sta. 13+61 Lt.	Sta. 37+10 Lt. Sta. 37+50 Lt. Sta. 37+57 Rt.
Sta. 13+86 Lt. Sta. 14+26 Rt. Sta. 14+92 Lt.	Sta. 38+10 Rt. Sta. 38+58 Lt. Sta. 39+22 Lt.
Sta. 15+24 Rt. Sta. 15+61 Lt.	Sta. 39+50 Lt.

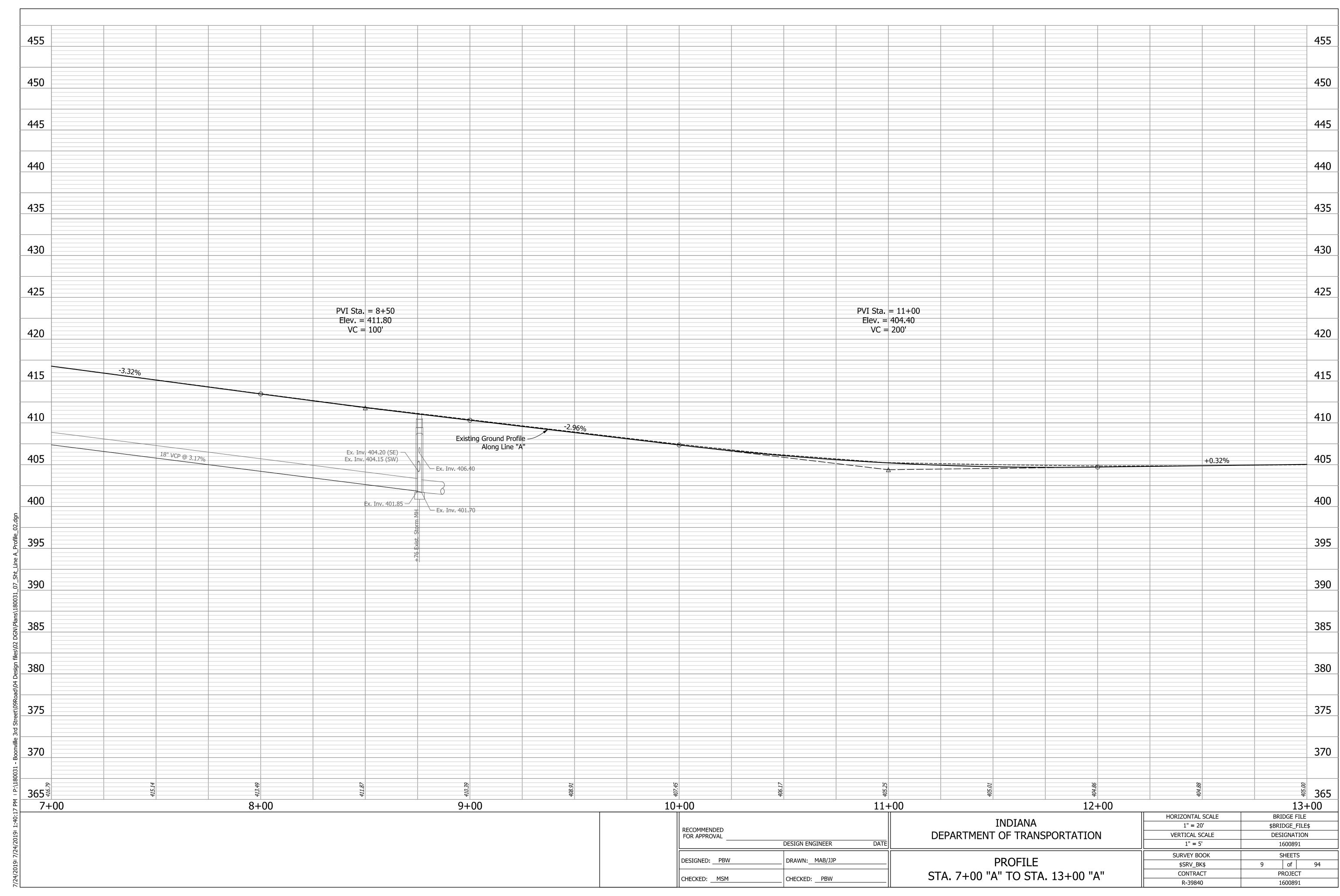
OFZ = Obstruction Free Zone

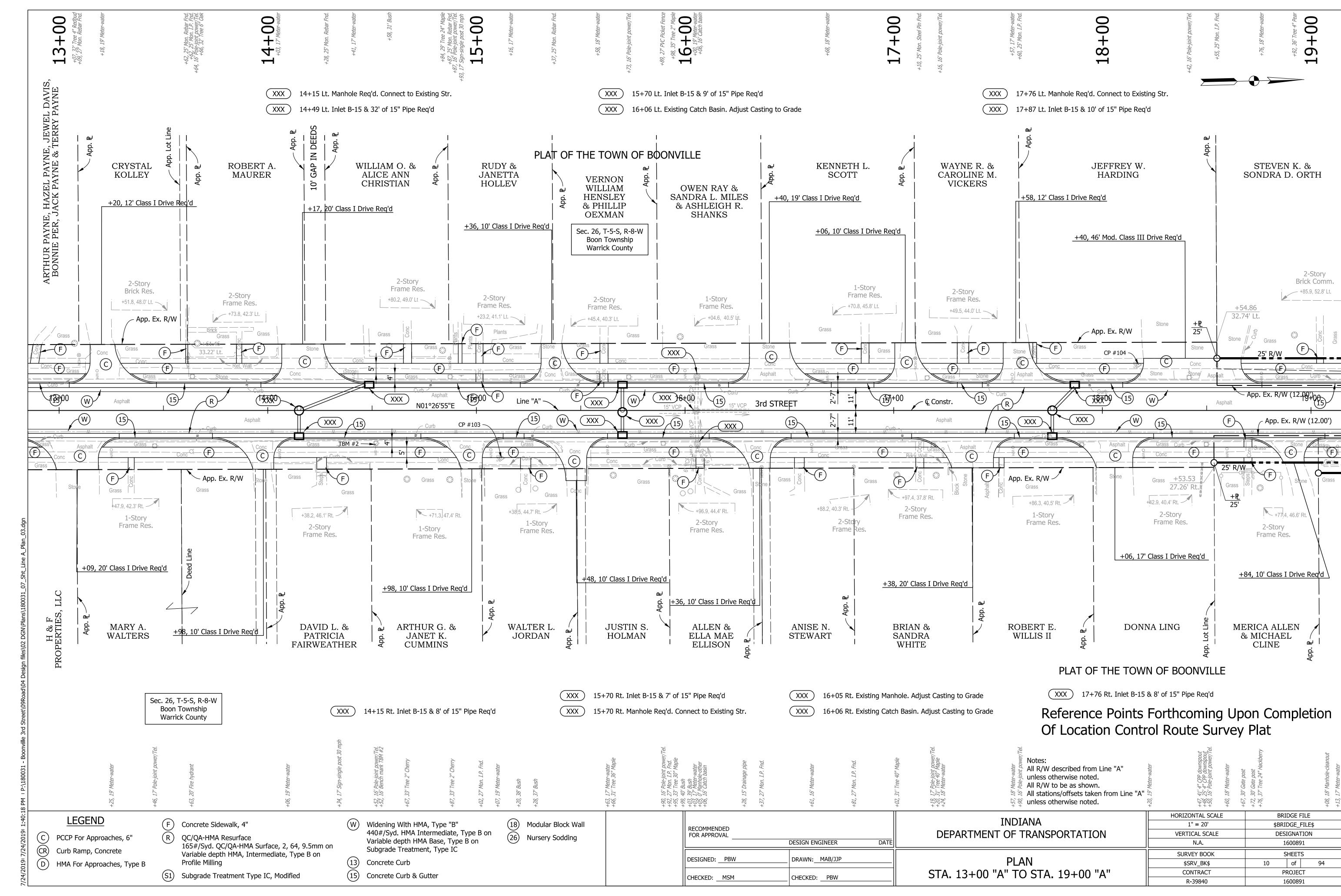
				TAIDTANIA	HORIZONTAL SCALE	BR	IDGE FILE	≣
RECOMMENDED FOR APPROVAL  DESIGNED: PBW  CHECKED: MSM	DECOMMENDED			INDIANA DEPARTMENT OF TRANSPORTATION	AS NOTED	\$BRIDGE_FILE\$		
					VERTICAL SCALE	DESIGNATION		
		DESIGN ENGINEER	DATE		AS NOTED	1600891		
	FOR COLUMN AND AND AND AND AND AND AND AND AND AN			SURVEY BOOK	SHEETS			
	DESIGNED: PBW	DRAWN: MAB/JJP	3RD STREET	\$SRV_BK\$	4	of	94	
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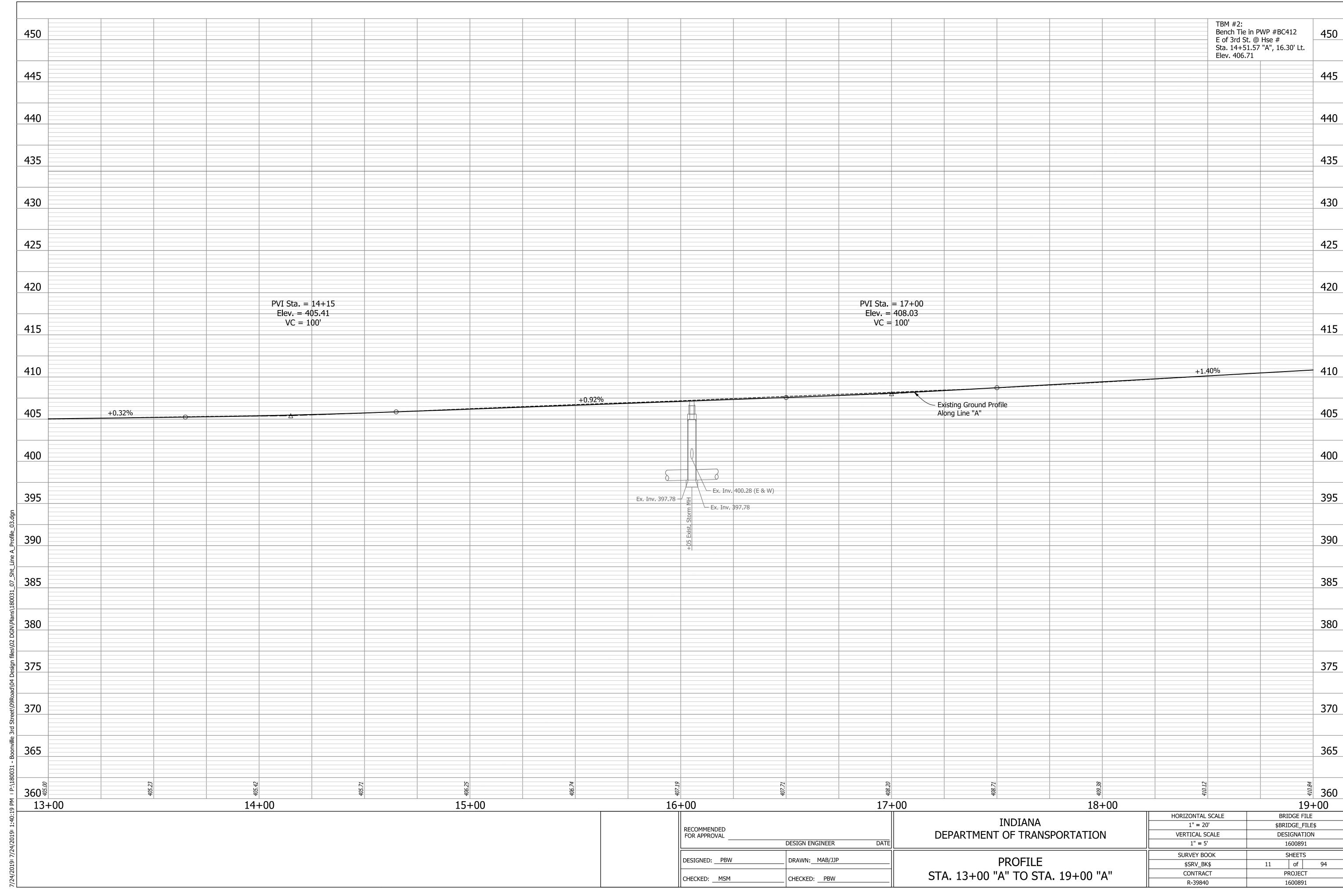


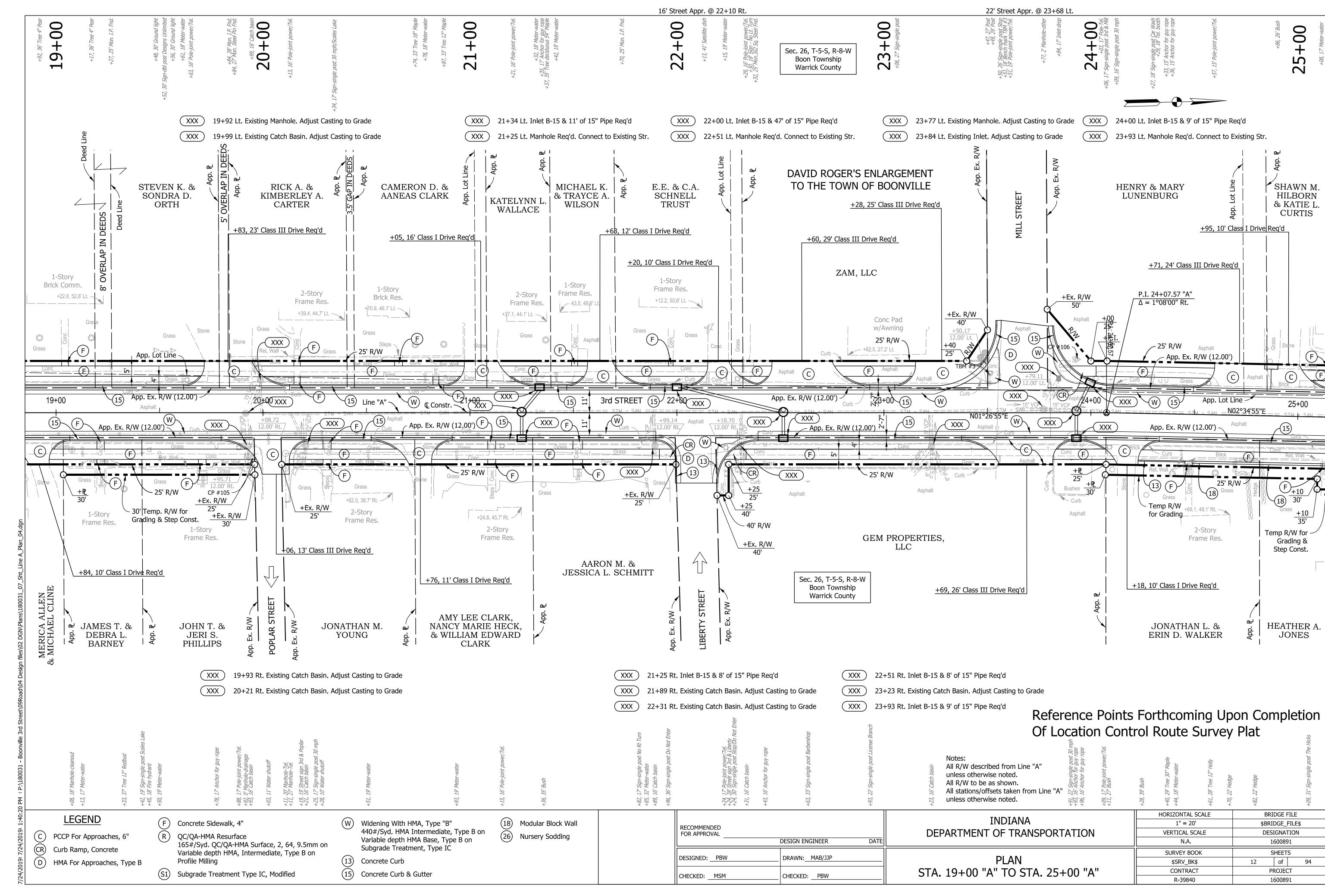


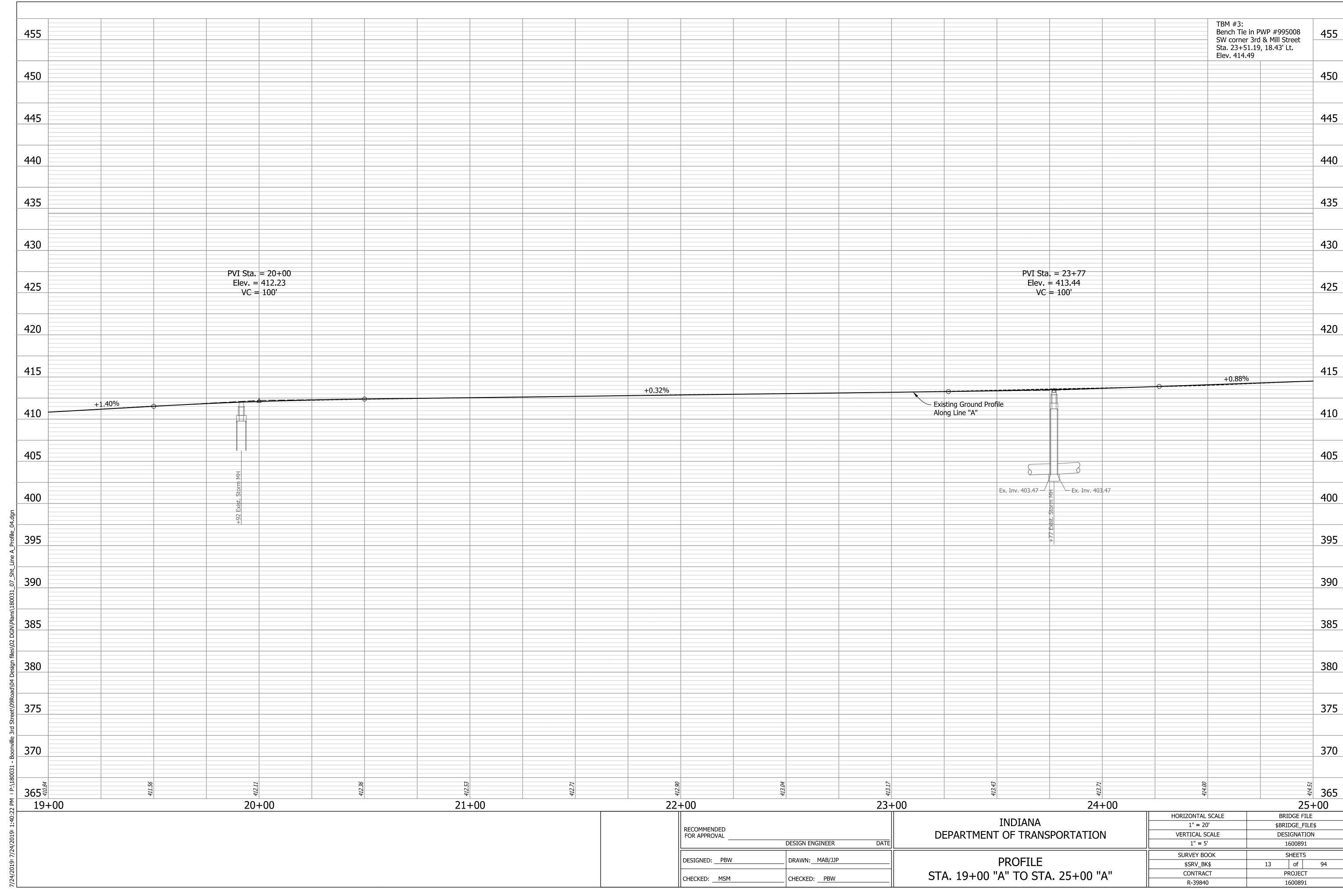


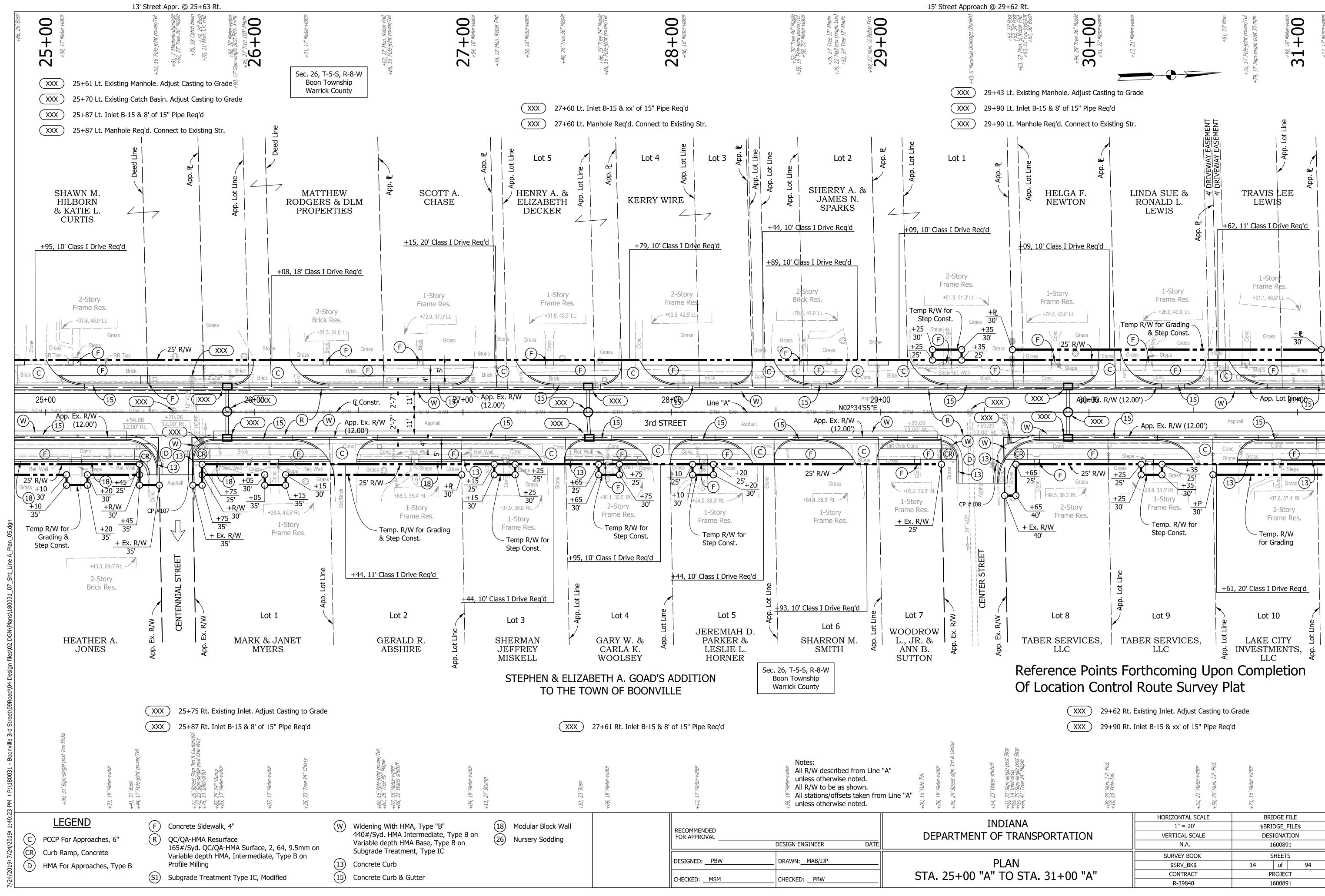


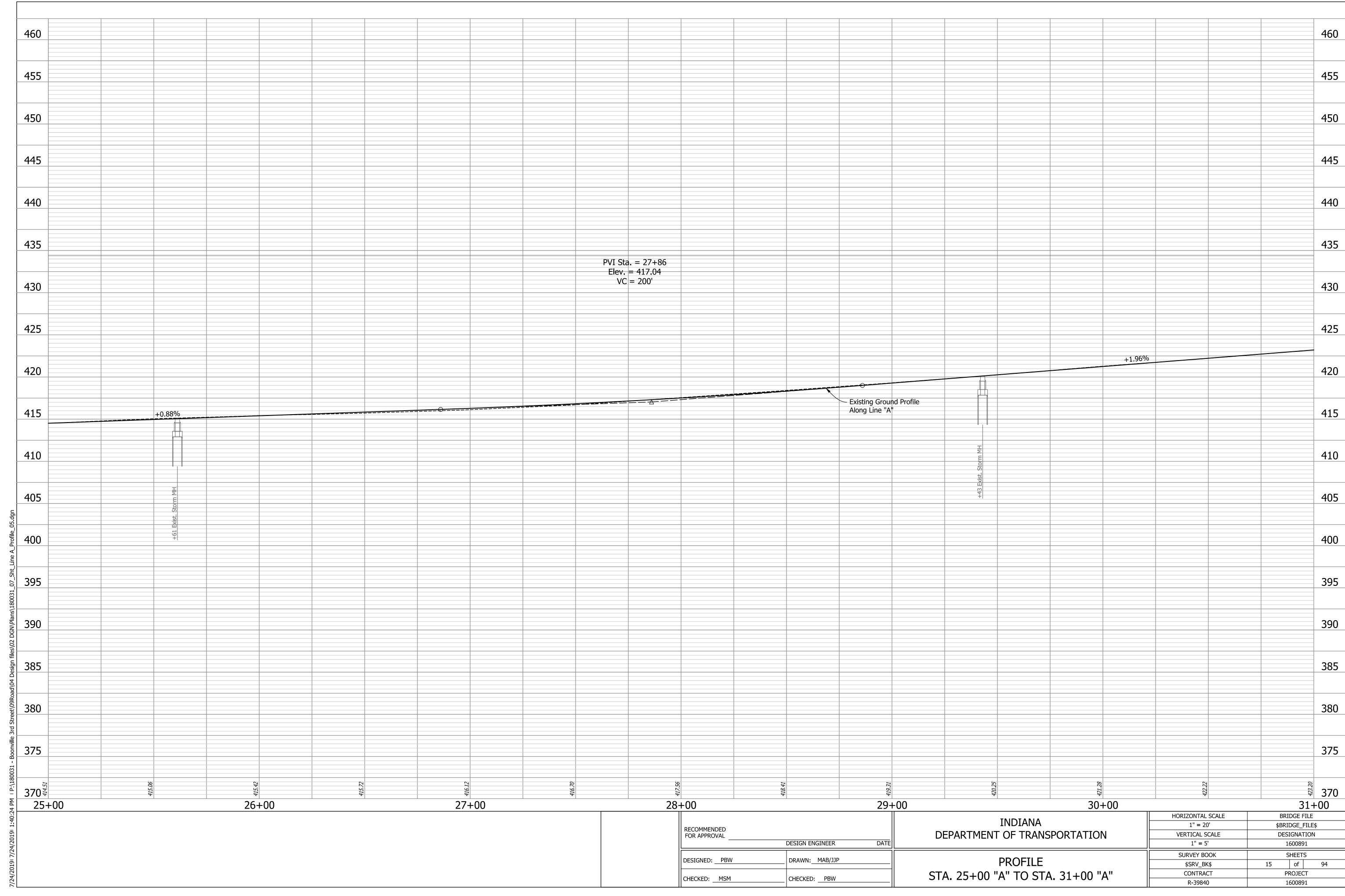


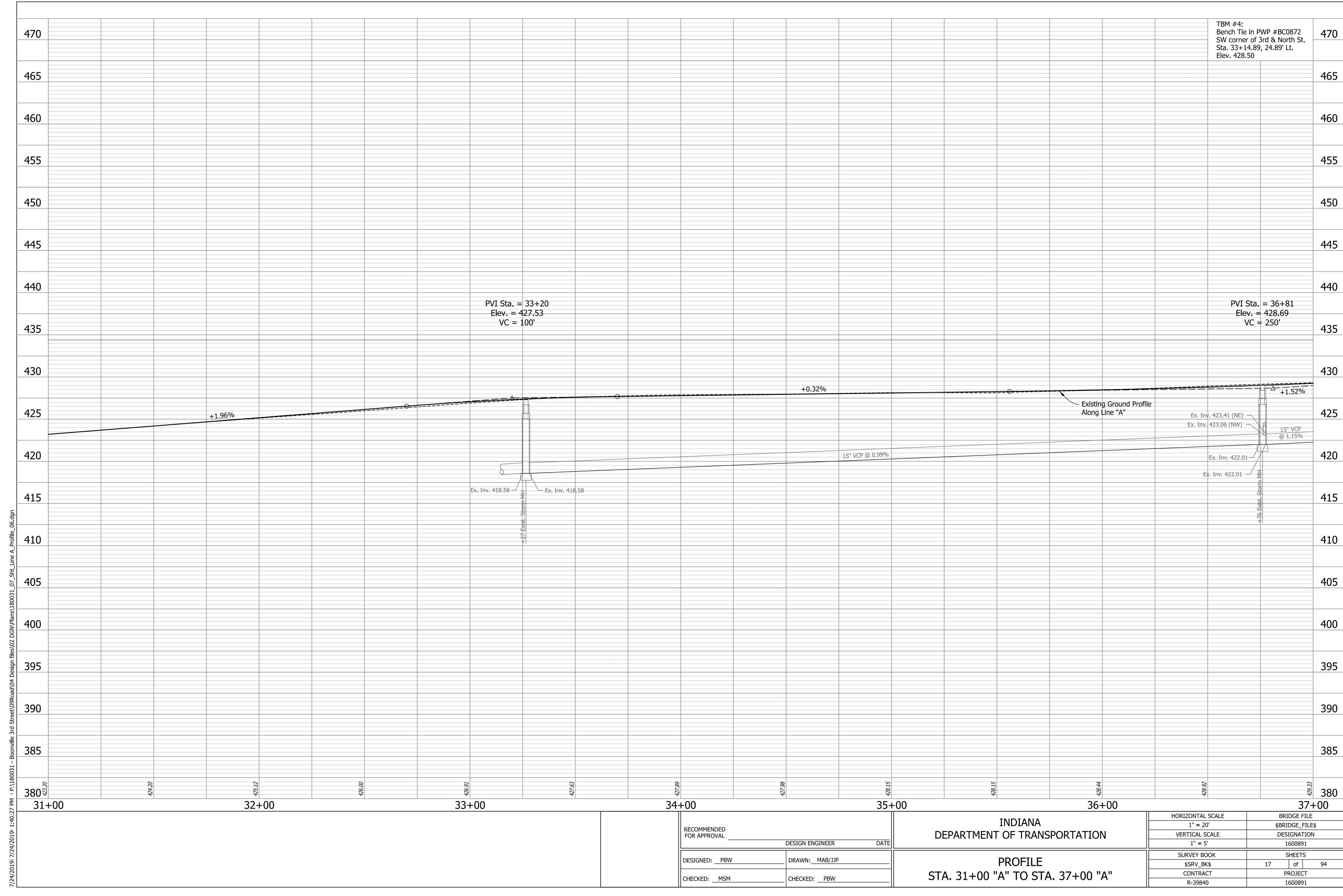


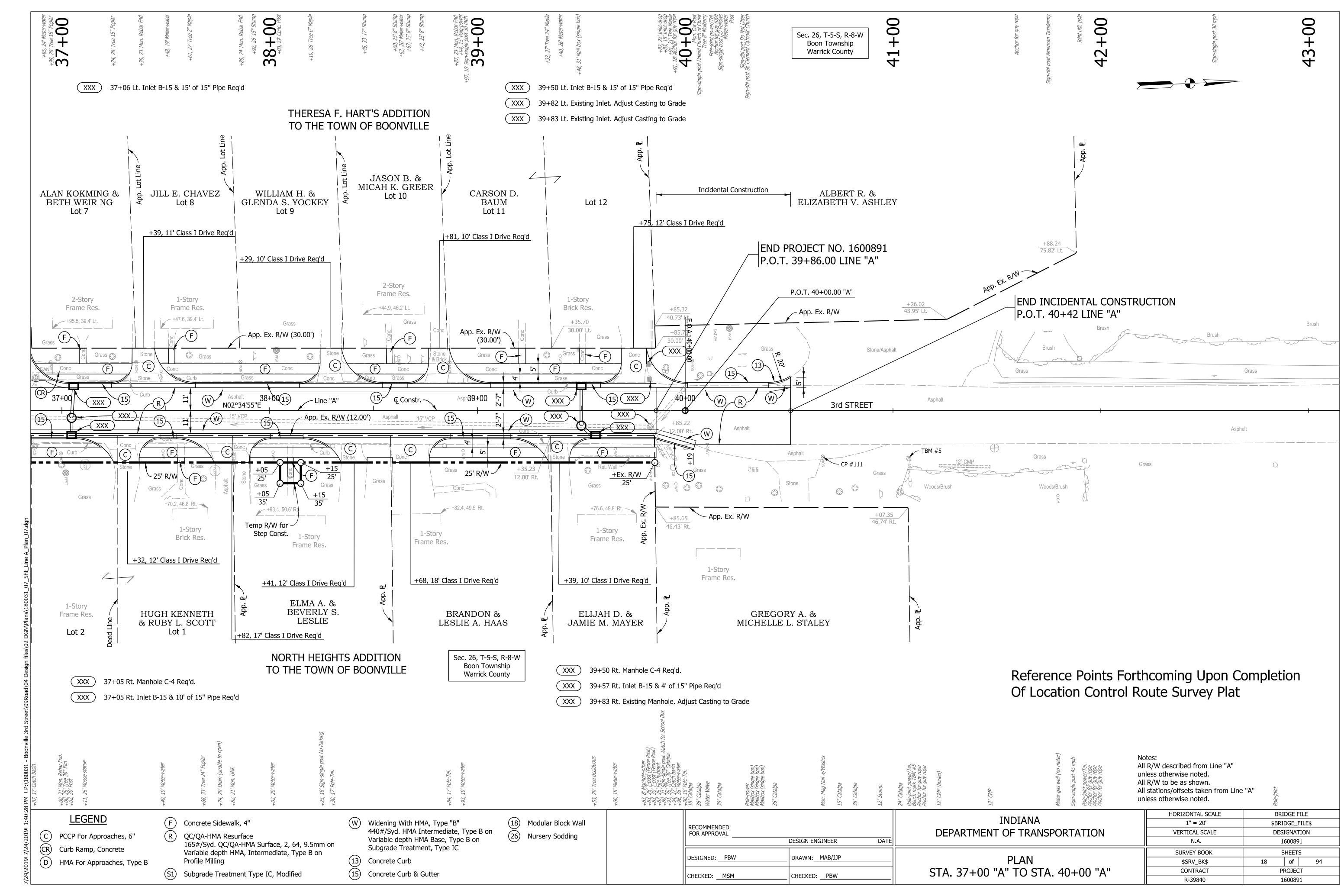


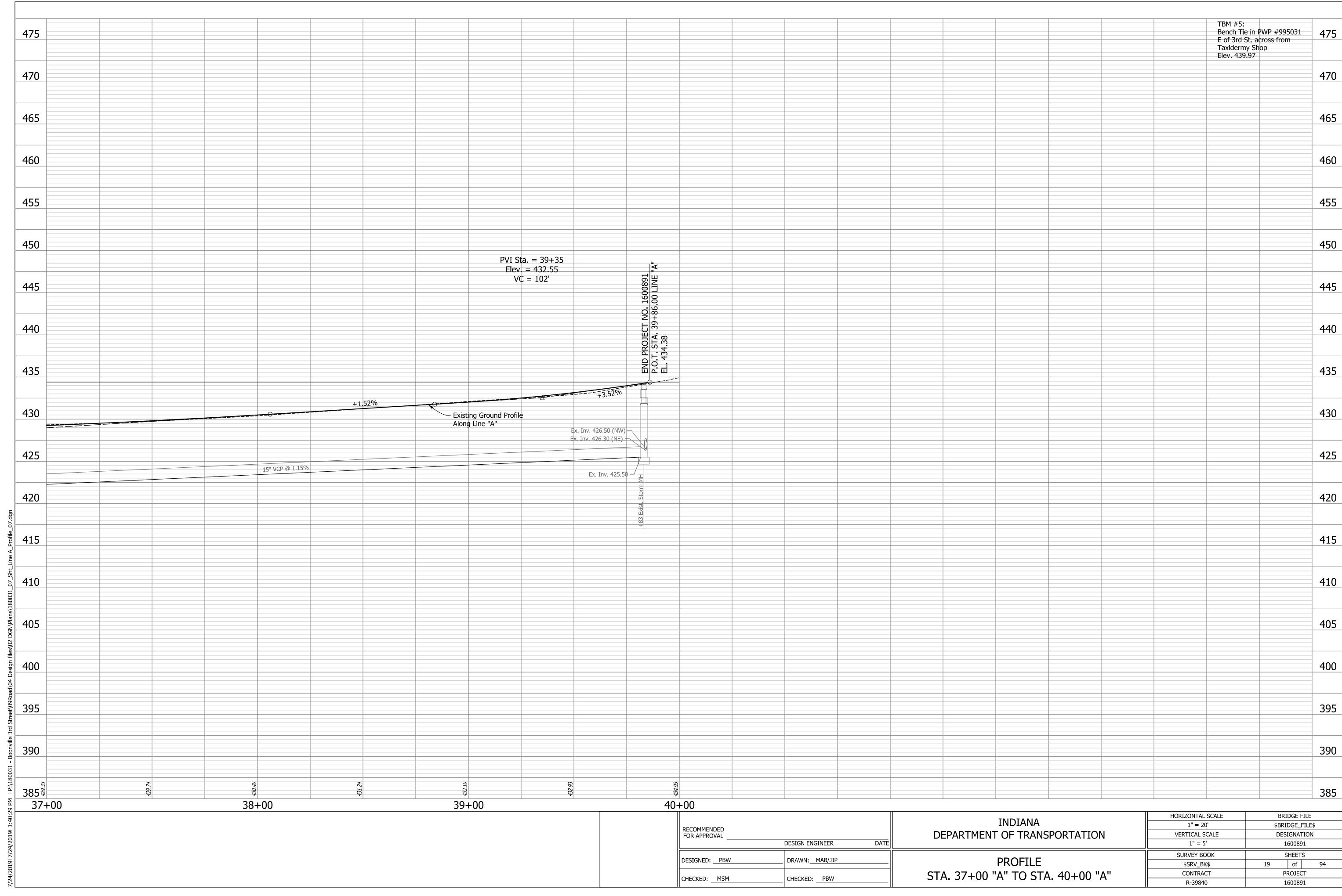












# **Appendix C: Early Coordination**





February 13, 2019

#### SAMPLE EARLY COORDINATION LETTER AND AGENCY LISTING

Re: Des. No. 1600891

Third Street Roadway Improvement and Non -

Motorized Facility Project

Sycamore Street to North of Olive Street Boonville, Warrick County, Indiana

#### Dear Agency

Beam Longest Neff has been selected by the City of Boonville, Indiana (City) to prepare the environmental documentation and design plans for the improvement of Third Street and the repair of the existing sidewalks adjacent to the corridor using federal aid funds. This letter is written to describe the referenced project and to solicit your comments for resources under your jurisdiction.

#### **Project Location**

The project is on the near northwest side of the City of Boonville in Boon Township, Warrick County, Indiana. Specifically, the project is located in Section 26, Township 5 South, Range 8 West, as shown on the *Boonville*, Indiana 7.5-minute USGS quadrangle map. The proposed improvements will extend from Sycamore Street to 460 feet north of Olive Street; the total project length is approximately 0.68 mile (3,600 feet). Project location maps, an aerial photograph and ground level photographs are attached to this correspondence.

#### **Purpose and Need**

The purpose of this project is to increase serviceability while improving safety for both motoring and non-- motoring traffic. The need is based on the poor conduction of the existing pavement and drainage. The roadway was originally constructed of concrete with two 15-foot wide travel lanes bordered by an integral concrete curb. Resurfacing of the pavement over the years has reduced the exposure of the curb face and the effectiveness of that curbing to direct stormwater to the curb inlets.

#### **Existing Roadway**

Third Street is a two-lane, north/south roadway that is approximately 30ft. wide (two travel lanes at 15ft. each) bordered by concrete curbs and/or asphalt shoulders. The exit ting right-of-way varies from 24ft. to 60ft. in width. Third Street is classifed as a Principal Arterial and is also known as State Road 61. Third Street is not an element of the National Highway System or the National Truck Route. Third Street serves as the primary gateway for access into the City of Boonville from Interstate 64 to the north, and rural Warrick County. The horizontal alignment of the roadway is tangent, and the vertical alignment is at grade. The posted speed limit is 30 mph. Overhead utility lines run parallel to both sides of Third Street, and a six inch natural gas lines pass under the roadway near Centennial Street. Drainage along Third Street is handled via curb inlets, which are connected to an existing combined sanitary/storm sewer trunk line.

North Street and Sycamore Street extend east to west across Third Street, and Olive Street and Mill Street traverse west from Third Street. Center Street, Centennial Street, Liberty Street, Poplar Street and Gum Street extend traverse eastbound of Third Street. Centennial Street is a one-way eastbound only, and Liberty Street and Gum Street are one- way westbound roadways.



SR 61 (the Boonville Bypass) is currently under construction to the west of Booneville. Upon completion, the existing SR 61 between Main Street (one city block to the south) and New Harmony Road/Shelton Road (2.5 miles to the north) will be relinquished to the City and Warrick County (the Third Street project falls within this area of relinquishment). Completion of the Boonville Bypass will divert existing SR 61 through traffic to the new route, reducing the number of vehicles currently using Third Street for access to Interstate 64.

#### **Existing Land Use**

The predominant land use along the corridor is single family residential as the project falls within the urban area boundary of the City of Boonville. Four surface mines and Scales Lake, a state managed recreational facility, are located adjacent to the project area. Commercial development along Third Street is clustered in the vicinity of Mill Street, between Gum Street and Poplar Street and at the south terminus. Within one city block south of Sycamore Street, commercial use dominates around the Warrick County Court House Square and in the downtown Boonville business district. Beginning at Sycamore Street and extending for three city blocks to the south and one to two city blocks to the east and west, is the Boonville Public Square Historic District (HD). This HD was listed on the National Register of Historic Places in 1987 and there are fifty buildings that contribute to the HD boundaries.

The US Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) map was reviewed and no mapped wetlands are illustrated to exist along or adjacent to Third Street. It is not anticipated that a Waters of the US Report (WOUSR) will be prepared in an effort to identify potential jurisdictional water resources that could be present in the project area.

The Federal Emergency Management Agency (FEMA) flood map was also reviewed to determine the presence of designated floodways or floodplains. No floodways or floodplains are mapped within the project corridor. The NWI and FEMA flood map are provided as attachments to this correspondence.

#### **Proposed Improvements**

It is proposed to provide o I I-foot wide travel lanes bordered by concrete curb and gutter. New curb inlets will be installed to channel stormwater to outlet to the existing trunk line. This line will be inspected, cleaned, extended (as necessary) and repaired as needed. Patching of the existing pavement at defined locations will be completed before the roadway is milled and resurfaced to improve mobility and useful life. The proposed design speed of 30 mph will match the current posted speed limit along the corridor. The existing horizontal alignment and vertical profile for the proposed roadway will essentially remain the same to reduce additional right-of-way and impacts to utilities The existing sidewalks and access ramps will be evaluated for Americans with Disabilities Act (ADA) compliance and repaired or replaced as necessary. Any gaps or damaged sidewalks will be coordinated with the City to determine if additional sidewalks are needed or if changes to existing locations are required. New street lighting will be installed to provide safer travel for all users of the corridor.

Reducing the pavement width has the benefit of increasing green space along the corridor and reducing the amount of stormwater runoff. The additional greenspace will allow trees to be planted between the sidewalks and the curbs. Separation between the sidewalks and travel 1 lanes will also improve safety for pedestrians using the sidewalks. Completion of the Boonville Bypass will reduce the number of trucks using Third Street and the need for wider travel lanes. It is anticipated that a maximum of 1.5 acres of additional permanent right-of-way may be required with temporary right-of-way as needed for construction. The estimated construction cost is \$1,611,000.00 (2019 dollars). *

A maintenance of traffic plan will be developed in coordination with the City and the Indiana Department of Transportation (INDOT). All options investigated will allow access to be maintained for all properties for the duration of construction. The existing network of city streets provides various alternative routes to the traveling public. Phase construction would be used to minimize disruptions to traffic and complete the construction as quickly possible. Breaking the project into segments will allow for construction to be localized and completed in stages to minimize impacts to the traveling public, businesses, and the locally affected residents.

*0.25 acres of temporary right of way and \$3,100,000 (2022 dollars)



#### **Early Coordination**

As part of our early coordination effort for the referenced project, you are asked to study this enclosed information and provide a written evaluation of potential project impacts upon those resources under your jurisdiction. Please return a reply within thirty (30) days of receipt of this letter. If no reply has been received by this date, it will be indicated in the environmental documentation that your agency had no comment. Your cooperation in expediting the development of the referenced project is appreciated.

If you have any questions, or if we can be of any further assistance, plea as contact either Ms. Sara Howard, City of Boonville at <a href="mailto:sara.hurt.boonvillecity@gmail.com">sara.hurt.boonvillecity@gmail.com</a> or this office at <a href="mailto:jvlach@b-l-n.com">jvlach@b-l-n.com</a> and telephone 317-849-5832, ext. 3031. Thank you for your cooperation.

Very truly yours,

BEAM LONGEST NEFF

Chef Environmental Analyst

BLN File #180031

GRAPHICS PROVIDED IN ECL ARE SHOWN IN IN APPENDIX B

#### **EARLY COORDINATION MAILING LIST**

Federal Highway Administration Federal Office Building, Room 254	Ryan Falls Environmental Section Manager
575 North Pennsylvania Street Indianapolis, Indiana 46204	Seymour District Indiana Department of Transportation
Sent electronically - michelle.allen@dot.gov	Sent electronically – <u>rfalls@indot.in.gov</u>
Cc: erica.tait@dot.gov	,
Indiana Geological Survey	Indiana Department of Transportation
611 North Walnut Grove Bloomington, IN 47405	Office of Aviation 100 N. Senate Avenue, Rm. 955
Sent electronically - https://igs.indiana.edu/eAssesment/	Indianapolis, IN 46204
,	Sent electronically – <u>jcourtade@indot.in.gov</u>
Chief, Groundwater Section	City of Boonville
Indiana Department of Environmental Management 100 N. Senate Avenue	135 South Second Street Boonville, IN 47601
Indianapolis, IN 46204	Boolivine, in 47001
Sent electronically – <u>aturnbow@idem.IN.gov</u>	
Environmental Coordinator	Evansville Metropolitan Planning Organization
Indiana Department of Natural Resources Division of Fish and Wildlife	1 NW Martin Luther King Jr. Blvd. Evansville, IN 47708
402 West Washington Street, Rm. W273	Evansvine, in 47/08
Indianapolis, IN 46204	
Sent electronically – <u>environmentalreview@dnr.in.gov</u>	
Indiana Department of Environmental Management	
Sent electronically – <a href="https://www.in.gov/idem/5284.htm">https://www.in.gov/idem/5284.htm</a>	
Manager, Public Hearings	
Indiana Department of Transportation	
100 N. Senate Avenue, Rm. 642 Indianapolis, IN 46204	
Поштроно, из тогот	
Regional Environmental Coordinator	
Midwest Regional Office	
National Park Service 601 Riverfront Drive	
Omaha, Nebraska 68102	
State Conservationist	
Natural Resources Conservation Service	
6013 Lakeside Boulevard	
Indianapolis, Indiana 46278 Sent electronically – rick.neilson@in.usda.gov	
	1



### Indiana Department of Environmental Management

We Protect Hooslers and Our Environment.

100 North Senate Avenue - Indianapolia, IN 45204 (800) 451-6027 - (317) 232-8803 - www.idem.iN gov

City of Boonville Sara Howard P-O- Box 585 Boonville , IN 47601 Data

Beam Longest Neff Jeff Visch 8320 Craig Street Indianapolis , IN 46250

To Engineers and Consultants Proposing Roadway Construction Projects:

RE: It is proposed to provide two 11-foot wide lanes bordered by curbs and gutters. New curb inlets will be installed to outlet to an existing trunk line. Patching of the existing pavement at defined locations will be completed before the roadway is milled and resurfaced. The existing horizontal alignment and vertical profile will remain. Existing sidewalks and access ramps will be evaluated for ADA compliance and repaired/replaced as necessary. New street lighting and trees will be placed between the sidewalks and curbs. Approximately 1.5 acres of permanent ROW may be required with temporary ROW as needed for construction.

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

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

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

#### WATER AND BIOTIC QUALITY

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

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

Much of northern Indiana (Newton, Lake, Porter, LaPorte, St. Joseph, Eikhart, LaGrange, Steuben, and Dekelb counties; large portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and lesser portions of Benton, White, Pulaski, Kosciusko, and Wells counties) is served by the USACE District Office in Detroit (313-226-8812). The central and southern portions of the state (large portions of Benton, White, Pulaski, Kosciosko, and Wells counties; smaller portions of Jasper, Sterke, Marshall , Noble, Allen, and Adams counties; and all other (ndiana counties located in north-central, central, and southern Indiana ) are served by the USACE Louisville District Office (502-315-6733).

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

- In the event a Section 404 wetlands permit is required from the USACE, you also must obtain a Section 401 Water Quality Certification from the IDEM Office of Water Quality Wetlands Program. To learn more about the Wetlands Program, visit: http://www.in.gov/idem/4384.htm (http://www.in.gov/idem/4384.htm).
- If the USACE determines that a welland or other water body is isolated and not subject to Clean Water Act regulation, it is still regulated by the state of Indiana. A State
  isolated Wetland permit from IDEM's Office of Water Quality (OWQ) is required for any activity that results in the discharge of dredged or fill materials into isolated
  wetlands. To learn more about isolated wetlands, contact the OWQ Wetlands Program at 317-233-8488.
- 4. If your project will involve over a 0.5 acre of wetland impact, stream relocation, or other large-scale alterations to water bodies such as the creation of a dam or a water diversion, you should seek additional input from the OWQ Wetlands Program staff. Consult the Web at: http://www.in.gov/idem/4384.htm (http://www.in.gov/idem/4384.htm) for the appropriate staff contact to further discuss your project.
- 5. Work within the one-hundred year floodway of a given water body is regulated by the Department of Natural Resources, Division of Water. The Division issues permits for activities regulated under the follow statutes:
  - IC 14-26-2 Lakes Preservation Act 312 IAC 11
  - IC 14-26-5 Lowering of Ten Acre Lakes Act No related code
  - o IC 14-28-1 Flood Control Act 310 IAC 8-1
  - IC 14-29-1 Navigable Waterways Act 312 IAC 6
  - IC 14-29-3 Send and Gravel Permits Act 312 IAC 8
  - IC 14-29-4 Construction of Channels Act No related code

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

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

- 6. For projects involving construction activity (which includes clearing, grading, excavation and other land disturbing activities) that result in the disturbance of one (1), or more, acres of total land area, contact the Office of Water Quality Watershed Planning Branch (317/233-1864) regarding the need for of a Rule 5 Storm Water Runoff Permit. Visit the following Web page
  - http://www.in.gov/idem/4902.htm (http://www.in.gov/idem/4902.htm)

To obtain, and operate under, a Rule 5 permit you will first need to develop a Construction Pian (http://www.in.gov/idem/4917.htm#constreq (http://www.in.gov/idem/4917.htm#constreq)), and as described in 327 IAC 15-5-8.5 (http://www.in.gov/ieglalative/iac/T03270/A00150 [PDF] (http://www.in.gov/ieglalative/iac/T03270/A00150.PDF), pages 16 through 19). Before you may apply for a Rule 5 Permit, or begin construction, you must submit your Construction Plan to your county Soil and Water Conservation District (SWCD) (http://www.in.gov/isda/soil/contacts/map.html)).

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

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

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

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

- For projects involving impacts to fish and botanical resources, contact the Department of Natural Resources Division of Fish and Wildlife (317/232-4080) for addition project input.
- For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality Drinking Water Branch (317-308-3299) regarding the need for permits.
- For projects involving effluent discharges to waters of the State of Indians, contact the Office of Water Quality Permits Branch (317-233-0468) regarding the need for a National Pollutant Discharge Elimination System (NPDES) permit.
- For projects involving the construction of wastewater facilities and sewer lines, contact the Office of Water Quality Permits Branch (317-232-8675) regarding the need for permits.

#### **AIR QUALITY**

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

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

However, IDEM generally recommends that you take vegetative wastes to a registered yard waste composting facility or that the waste be chipped or shredded with composting on site (you must register with IDEM if more than 2,000 pounds is to be composted; contact 317/232-0086). The finished compost can then be used as a mulch or soil amendment. You also may bury any vegetative wastes (such as feaves, twigs, branches, limbs, tree trunks and stumps) onsite, although burying large quantities of such material can lead to subsidence problems, later on.

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

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

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

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

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

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

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

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

For questions on asbestos demolition and renovation activities, you can also call IDEM's Lead/Asbestos section at 1-868-574-8150.

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

Anyone submitting a renovation/demolition notification form will be billed a notification fee based upon the amount of friable asbestos containing material to be removed or demolished. Projects that involve the removal of more than 2,600 linear feet of friable asbestos containing materials on pipes, or 1,800 square feet or 400 cubic feet of friable asbestos containing material on other facility components, will be billed a fee of \$150 per project; projects below these amounts will be billed a fee of \$50 per project. All notification remitters will be billed on a quarterly basis.

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

- 4. With respect to lead-based paint removal: IDEM encourages all efforts to minimize human exposure to lead-based paint chips and dust. IDEM is particularly concerned that young children exposed to lead can suffer from learning disabilities. Although lead-based paint abatement efforts are not mandatory, any abatement that is conducted within housing built before January 1, 1978, or a child-occupied facility is required to comply with all lead-based paint work practice standards, licensing and notification requirements. For more information about lead-based paint removal visit: http://www.in.gov/isdh/19131.htm (http://www.in.gov/isdh/19131.htm).
- Ensure that asphalt paving plants are permitted and operate properly. The use of cutback asphalt, or asphalt emulsion containing more than seven percent (7%) oil distillate, is prohibited during the months April through October. See 326 IAC 8-5-2, Asphalt Paving Rule (http://www.ai.org/legislative/lac/T03280/A00080.PDF (http://www.ai.org/legislative/lac/T03280/A00080.PDF)).
- 6. If your project involves the construction of a new source of air emissions or the modification of an existing source of air emissions or air pollution control equipment, it will need to be reviewed by the IDEM Office of Air Quality (OAQ). A registration or permit may be required under 326 IAC 2 (View at: www.al.org/legislative/iac/t03260/a00020.pdf (http://www.al.org/legislative/iac/t03260/a00020.pdf).) New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.
- For more information on air permits visit: http://www.in.gov/idem/4223.htm (http://www.in.gov/idem/4223.htm), or to initiate the IDEM air permitting process, please
  contact the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or OAMPROD atdem.stats.in.us.

#### LAND QUALITY

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

- 1. If the site is found to contain any areas used to dispose of solid or hazardous waste, you need to contact the Office of Land Quality (OLQ)et 317-308-3103.
- All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. For more
  information, visit http://www.in.gov/idem/4998.htm (http://www.in.gov/idem/4998.htm).
- If any contaminated soils are discovered during this project, they may be subject to disposal as hazardous waste. Please contact the OLQ at 317-308-3103 to obtain information on proper disposal procedures.
- 4. If PCBs are found at this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding management of any PCB wastes from this site.
- If there are any asbastos disposal issues related to this site, please contact the industrial Waste Section of OLQ at 317-308-3103 for information regarding the management of asbastos wastes (Asbastos removal is addressed above, under Air Quality).
- If the project involves the installation or removal of an underground storage tank, or involves contamination from an underground storage tank, you must contact the IDEM Underground Storage Tank program at 317/308-3039. See: http://www.in.gov/idem/4999.htm (http://www.in.gov/idem/4999.htm).

#### FINAL REMARKS

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

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

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

#### Signature(s) of the Applicant

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

#### **Project Description**

It is proposed to provide two 11-foot wide lanes bordered by curbs and gutters. New curb inlets will be installed to outlet to an existing trunk line. Patching of the existing pavement at defined locations will be completed before the roadway is milled and resurfaced. The existing horizontal alignment and vertical profile will remain. Existing sidewalks and access ramps will be evaluated for ADA compliance and repaired/replaced as necessary. New street lighting and trees will be placed between the sidewalks and curbs. Approximately 1.5 acres of permanent ROW may be required with temporary ROW as needed for construction.

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

Date: 2-19-19

Signature of the INDOT

Project Engineer or Other Responsible Agent

Sara Howard

Signature of the

For Hire Consultant

Jeff Vlach



#### Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb

Bruno Pigott
Commissioner

February 22, 2019

66-33 Beam Longest Neff Attention: Jeffrey A. Vlach 8320 Craig Street Indianapolis, Indiana 46250

RE: Wellhead Protection Area

Proximity Determination

Des No 1600891

Third Street Roadway Improvement and Non-Motorized Facility Project Sycamore Street to North of Olive Street, Boonville, Warrick County,

Indiana

Dear Jeffrey A. Vlach,

Upon review of the above referenced project site, it has been determined that the proposed project area **is not located within** a Wellhead Protection Area. The information is accurate to the best of our knowledge; however, there are in some cases a few factors that could impact the accuracy of this determination. Some Wellhead Protection Area Delineations have not been submitted, and many have not been approved by this office. In these cases we use a 3,000 foot fixed radius buffer to make the proximity determination. To find the status of a Public Water Supply System's (PWSS's) Wellhead Protection Area Delineation please visit our tracking database at http://www.in.gov/idem/cleanwater/2456.htm and scroll to the bottom of the page.

The project area **is located within** a Source Water Assessment Area for a PWSS's surface water intake. The Source Water Assessment Area relates to the surface water drainage area that water could potentially flow and influence water quality for a PWSS's source of drinking water. The PWSS that could be impacted by the project is Evansville Water Utility. A contact person for Evansville Water Utility is Richard L. Glover and could be reached via e-mail and/or phone at: <a href="reglover@ewsu.com">reglover@ewsu.com</a> and (812) 428-0568. The contact information is provided as a courtesy and reference for you if any issues arise that could potentially impact the water quality for the PWSS during the course of the project. It is not a requirement of IDEM that you contact the system regarding the project.

Note: the Drinking Water Branch has launched a new self service feature which allows one to determine wellhead proximity without submitting the application form. Use the following instructions:

- 1. Go to http://idemmaps.idem.in.gov/whpa2/
- 2. Use the search tool located in the upper left hand corner of the application to zoom to your site of interest by way of city, county, or address; or use the mouse to click on the site of interest displayed on the map.
- 3. Once the site of interest has been located and selected, use the print tool to create a .pdf of a wellhead protection area proximity determination response.

In the future please consider using this self service feature if it is suits your needs.



If you have any additional questions please feel free to contact me at the address above or at (317) 233-9158 and aturnbow@idem.in.gov.

Sincerely,

Alisha Turnbow, Environmental Manager Ground Water Section Drinking Water Branch Office of Water Quality

Alisha Turnbow

e-cc: Evansville Water Utility

From: McWilliams, Robin
To: Jeff Vlach

Subject: Re: [EXTERNAL] Des. No. 1600891- Third Street Project, Boonville, Warrick County, Indiana

**Date:** Monday, March 4, 2019 12:00:39 PM

Dear Mr. Vlach,

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

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (I6 U.S.C. 661 et. seq.) and are consistent with the intent of the National Environmental Policy Act of I969, the Endangered Species Act of I973, and the U.S. Fish and Wildlife Service's Mitigation Policy.

The project is within the range of the Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*) and should follow the new Indiana bat/northern long-eared bat programmatic consultation process, if applicable (*i.e.* a federal transportation nexus is established). We will review that information once it is received.

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

We appreciate the opportunity to comment at this early stage of project planning. If project plans change such that fish and wildlife habitat may be affected, please recoordinate with our office as soon as possible. If you have any questions about our recommendations, please call (812) 334-4261 x. 207.

Sincerely, Robin McWilliams Munson

#### **Standard Recommendations:**

- 1. Do not clear trees or understory vegetation outside the construction zone boundaries. (This restriction is not related to the "tree clearing" restriction for potential Indiana Bat habitat.)
- 2. Restrict below low-water work in streams to placement of culverts, piers, pilings and/or footings, shaping of the spill slopes around the bridge abutments, and placement of riprap.

Culverts should span the active stream channel, should be either embedded or a 3-sided or open-arch culvert, and be installed where practicable on an essentially flat slope. When an open-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.

- 3. Restrict channel work and vegetation clearing to the minimum necessary for installation of the stream crossing structure.
- 4. Minimize the extent of hard armor (riprap) in bank stabilization by using bioengineering techniques whenever possible. If rip rap is utilized for bank stabilization, extend it below low-water elevation to provide aquatic habitat.
- 5. Implement temporary erosion and sediment control methods within areas of disturbed soil. All disturbed soil areas upon project completion will be vegetated following INDOT's standard specifications.

- 6. Avoid all work within the inundated part of the stream channel (in perennial streams and larger intermittent streams) during the fish spawning season (April 1 through June 30), except for work within sealed structures such as caissons or cofferdams that were installed prior to the spawning season. No equipment shall be operated below Ordinary High Water Mark during this time unless the machinery is within the caissons or on the cofferdams.
- 7. Evaluate wildlife crossings under bridge/culverts projects in appropriate situations. Suitable crossings include flat areas below bridge abutments with suitable ground cover, high water shelves in culverts, amphibian tunnels and diversion fencing.

Robin McWilliams Munson

U.S. Fish and Wildlife Service 620 South Walker Street Bloomington, Indiana 46403 812-334-4261 x. 207 Fax: 812-334-4273

Monday, Tuesday - 7:30a-3:00p Wednesday, Thursday - telework 8:30a-3:00p

On Mon, Feb 18, 2019 at 1:39 PM Jeff Vlach <<u>JVlach@b-l-n.com</u>> wrote:

Ms. McWilliams - Please see the attached early coordination letter, which has been prepared for the referenced project. This is sent for your review and comment. Please forward your response to my attention. Thank you for your cooperation.

#### **JEFF VLACH**

#### **Chief Environmental Analyst**

o: 317.849.5832, ext. 3031

c: 317.696.3617

B-L-N.com

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

#### Early Coordination/Environmental Assessment

DNR #:

ER-21266

Request Received: February 13, 2019

Requestor:

Beam, Longest and Neff, LLC

Jeffrey A Vlach 8320 Craig Street Indianapolis, IN 46250

Project:

Third Street roadway and non-motorized facility improvements, between Lovers Lane

and Sycamore Street, City of Boonville; Des #1600891

County/Site info:

Warrick

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

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

have permitting authority, all recommendations are voluntary.

Regulatory Assessment:

Formal approval by the Department of Natural Resources under the regulatory programs administered by the Division of Water is not required for this project.

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

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

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

Fish & Wildlife Comments: The measures below should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources:

- 1. Revegetate all bare and disturbed areas with a mixture of grasses (excluding all varieties of tall fescue) and legumes as soon as possible upon completion; low endophyte tall fescue may be used in the ditch bottom and side slopes only.
- 2. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
- 3. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.
- 4. Plant five trees, at least 2 inches in diameter-at-breast height, for each tree which is removed that is ten inches or greater in diameter-at-breast height.

**Contact Staff:** 

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

Our agency appreciates this opportunity to be of service. Please contact the above

Date: March 15, 2019

staff member at (317) 232-4080 if we can be of further assistance.

2 Stanif Christie L. Stanifer Environ. Coordinator

Division of Fish and Wildlife

C-13



#### **Organization and Project Information**

Third Street, Boonville **Project ID:** 

Des. ID: Des. No. 1600891

**Project Title:** Third Street Roadway Improvements

Name of Organization: Beam Longest Neff

Requested by: Jeff Vlach

#### **Environmental Assessment Report**

- 1. Geological Hazards:
  - Potential Mine Subsidence (CMIS)
  - Moderate liquefaction potential
  - 1% Annual Chance Flood Hazard
- 2. Mineral Resources:
  - Bedrock Resource: High Potential
  - Sand and Gravel Resource: None documented in the area
- 3. Active or abandoned mineral resources extraction sites:
  - Underground Coal Mines
  - Surface Coal Mines

#### **DISCLAIMER:**

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

This information was furnished by Indiana Geological Survey

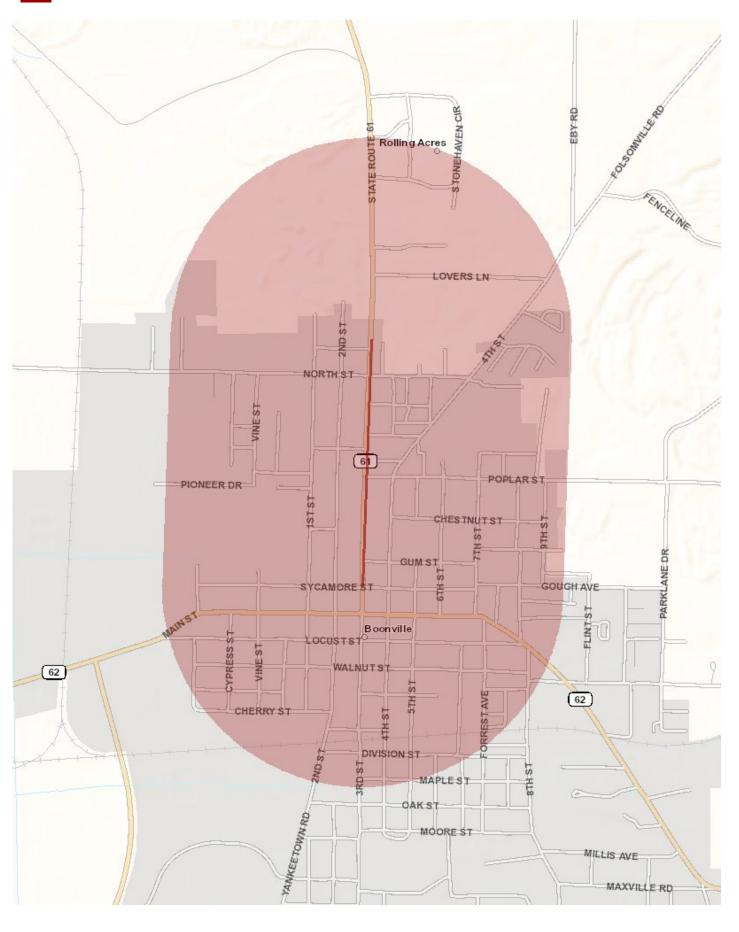
Address: 420 N. Walnut St., Bloomington, IN 47404

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428 Date: February 19, 2019

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







## Metadata:

- https://maps.indiana.edu/metadata/Geology/Coal Mines Entries.html
- https://maps.indiana.edu/metadata/Geology/Coal Mines Underground.html
- https://maps.indiana.edu/metadata/Geology/Coal Mines Surface.html
- https://maps.indiana.edu/metadata/Geology/Seismic Earthquake Liquefaction Potential.html
- https://maps.indiana.edu/metadata/Hydrology/Floodplains FIRM.html
- $\bullet \ https://maps.indiana.edu/metadata/Geology/Bedrock_Geology.html$

From: Jeff Vlach

To: Stoops, Ernie

Subject: Des. No. 1600891- Third Street Project, Boonville, Warrick County, Indiana

**Date:** Monday, February 18, 2019 10:14:00 AM

Attachments: image001.png

image002.png image003.png image004.png image005.png image006.png

Mr. Stoops – Thank you for your response on the ECL for the referenced project. To address your comments, we will include project funding sources in the CE. We will initiate the range-wide consultation with your office and follow the iPac process. We will include Ryan and you in the IPac consultation, as requested, and will send an ECL to the USFWS today. We are working to complete and have employed a QP to assist with Section 106 compliance. We completed an RFI for the corridor late last year, which was approved by SAM on January 15, 2019. It will be a part of the CE. Lastly, your reference to the ECL template will be followed on future projects.

If you have any questions, please do not hesitate to contact our office. Thank you got your cooperation.

#### JEFF VLACH

#### **Chief Environmental Analyst**

o: 317.849.5832, ext. 3031

c: 317.696.3617 B-L-N.com

#### **BEAM LONGEST NEFF**

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**From:** Stoops, Ernie <ESTOOPS@indot.IN.gov> **Sent:** Friday, February 15, 2019 11:36 AM

To: Jeff Vlach < JVlach@b-l-n.com>

Cc: Brett Walls <bwalls@b-l-n.com>; Brian Shaw <bshaw@b-l-n.com>

Subject: RE: Des. No. 1600891- Third Street Project, Boonville, Warrick County, Indiana

Mr. Vlach:

Thank you for the early coordination letter. All sources of funding for the project need to be mentioned in the NEPA document, Federal, Local, and/or State.

This project qualifies for the application of the USFWS range-wide programmatic informal consultation for the Indiana bat and northern long-eared bat and USFWS project information form will be provided to USFWS for review separately. This process needs to start with our office. Once

you have started the IPaC process, please add Ryan Falls and myself as members, as we are the reviewers. Please follow the process outlined on the environmental policies website for submission. This needs to be mentioned in future letters. You should probably send an early coordination letter to USFWS.

With this project being in the City, there is the possibility of hazardous materials being encountered. Please follow up with your RFI submission to the Site Assessment and Management(SAM) group in central office.

Please follow the section 106 processes as outlined on the Cultural Resources website. This needed to be mentioned in the letter.

On the Environmental Policies website there is a sample early coordination letter that has format and content. Please look at this for future letters.

Again thank you for the letter.

#### Ernest A. Stoops PE

Capital Program Management-Design and Environmental Manager

Indiana Department of Transportation 3650 South U.S. Highway 41 Vincennes, IN 47591

Office: 812-895-7390 Fax: 812-895-7474

Email: estoops@indot.IN.gov









#### **Click Here To Sign Up for INDOT Project Email and Text Alerts!**

From: Jeff Vlach [mailto:JVlach@b-l-n.com]
Sent: Wednesday, February 13, 2019 3:54 PM

**To:** <a href="mailto:rick.neilson@in.usda.gov">rick.neilson@in.usda.gov</a>; DNR Environmental Review <a href="mailto:environmentalreview@dnr.IN.gov">environmentalreview@dnr.IN.gov</a>; SULLIVAN, JAMES <a href="mailto:JSULLIVA@idem.IN.gov">JSULLIVA@idem.IN.gov</a>; Clark, Rickie <a href="mailto:RCLARK@indot.IN.gov">RCLARK@indot.IN.gov</a>; Kinder, James <a href="mailto:jkinder@indot.IN.gov">jkinder@indot.IN.gov</a>; Antonio.Johnson@dot.gov; Stoops, Ernie <a href="mailto:ESTOOPS@indot.IN.gov">ESTOOPS@indot.IN.gov</a>; sara.hurt.boonvillecitv@gmail.com; seved@evansvillempo.com

**Cc:** Brett Walls < bwalls@b-l-n.com >; Brian Shaw < bshaw@b-l-n.com >

Subject: Des. No. 1600891- Third Street Project, Boonville, Warrick County, Indiana

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

Ladies and Gentlemen - Please see the attached early coordination letter, which has been prepared for the referenced project. This is sent for your review and comment. Please forward your response to my attention. Thank you for your cooperation.

#### **JEFF VLACH**

#### **Chief Environmental Analyst**

o: 317.849.5832, ext. 3031

c: 317.696.3617 B-L-N.com

#### **BEAM LONGEST NEFF**

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#### United States Department of the Interior

#### FISH AND WILDLIFE SERVICE

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

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

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



In Reply Refer To: June 10, 2019

Consultation Code: 03E12000-2019-SLI-1097

Event Code: 03E12000-2019-E-04960

Project Name: BLN 180031 Boonville 3rd St INDOT Des.1600891 Road Rehabilitation

Subject: Updated list of threatened and endangered species that may occur in your proposed

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

#### To Whom It May Concern:

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

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

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

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

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

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

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

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

#### Attachment(s):

Official Species List

### **Official Species List**

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

This species list is provided by:

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

#### **Project Summary**

Consultation Code: 03E12000-2019-SLI-1097

Event Code: 03E12000-2019-E-04960

Project Name: BLN 180031 Boonville 3rd St INDOT Des.1600891 Road Rehabilitation

Project Type: TRANSPORTATION

Project Description: This project consists of the rehabilitation of the existing pavement along

with streetscape, drainage and sidewalk improvements along 3rd Street from Sycamore Street to just north of Olive Street a total distance of approximately 3200 feet. The existing roadway utilizes one 15-foot lane in each direction bounded by concrete curb and gutter and utilizes a closed drainage system. The proposed roadway will incorporate a road diet and narrow the lanes to one 11-foot lane in each direction bounded by new concrete curb and gutter with the proposed inlets feeding into the existing storm sewer system. The project will utilize a mill and overlay pavement rehabilitation along with patching as needed throughout the

project limits.

Decorative lighting is proposed to be installed along 3rd Street and will follow all applicable INDOT and FHWA guidelines for roadway lighting. Permanent lighting will be installed. No temporary lighting is necessary. Maintenance of traffic will be developed utilizing phased construction and the posting of alternate/detour routes. Concrete sidewalks along with new curb ramps will be installed along both sides of 3rd Street and will be compliant with PROWAG Criteria and will include detectable warnings and proper crosswalk striping.

This project falls within the range of the Indiana Bat and the Northern Long Eared Bat. On June 5, 2019 a review of the USFWS database did not indicate the presence of endangered bat species in or within the 0.5 mile search radius of the project area. The range-wide programmatic consultation for the Indiana bat and the Northern Long-eared bat will be completed according to "Using the USFWS IPaC System for Listed Bat Consultation, for INDOT Projects, dated May 10, 2018".

No bridges or culverts will be involved in this project. Therefore, no bat inspections for bridges and culverts will be included in this project.

Sutiabale summer habitat is located within the project action area. It is proposed that five (5) trees will be removed and zero (0) trees will be trimmed for this project to occur. The proposed trees that will be removed

are characterized with diameters at breast height (DBH) and species as follows: a 4" Maple, a 4" Redbud, a 12" Poplar, a 36" Maple, and a 4" Redbud. Proposed trees will be removed during the inactive season

The anticipated start date of construction is in the summer of 2022.

#### Project Location:

Approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/place/38.05604720369085N87.27410255075576W">https://www.google.com/maps/place/38.05604720369085N87.27410255075576W</a>



Counties: Warrick, IN

#### **Endangered Species Act Species**

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

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

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

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

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

#### **Mammals**

NAME STATUS

#### Indiana Bat Mvotis sodalis

Endangered

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

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

Species survey guidelines:

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

#### Northern Long-eared Bat Myotis septentrionalis

Threatened

No critical habitat has been designated for this species.

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

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

Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>

#### **Critical habitats**

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



#### United States Department of the Interior

#### FISH AND WILDLIFE SERVICE

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In Reply Refer To: June 13, 2019

Consultation Code: 03E12000-2019-I-1097 Event Code: 03E12000-2019-E-05083

Project Name: BLN 180031 Boonville 3rd St INDOT Des.1600891 Road Rehabilitation

Subject: Concurrence verification letter for the 'BLN 180031 Boonville 3rd St INDOT Des.

1600891 Road Rehabilitation' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the

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

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request dated to verify that the **BLN 180031 Boonville 3rd St INDOT Des.1600891 Road Rehabilitation** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

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

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

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

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

#### **Project Description**

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

#### Name

BLN 180031 Boonville 3rd St INDOT Des.1600891 Road Rehabilitation

#### **Description**

This project consists of the rehabilitation of the existing pavement along with streetscape, drainage and sidewalk improvements along 3rd Street from Sycamore Street to just north of Olive Street a total distance of approximately 3200 feet. The existing roadway utilizes one 15-foot lane in each direction bounded by concrete curb and gutter and utilizes a closed drainage system. The proposed roadway will incorporate a road diet and narrow the lanes to one 11-foot lane in each direction bounded by new concrete curb and gutter with the proposed inlets feeding into the existing storm sewer system. The project will utilize a mill and overlay pavement rehabilitation along with patching as needed throughout the project limits.

Decorative lighting is proposed to be installed along 3rd Street and will follow all applicable INDOT and FHWA guidelines for roadway lighting. Permanent lighting will be installed. No temporary lighting is necessary. Maintenance of traffic will be developed utilizing phased construction and the posting of alternate/detour routes. Concrete sidewalks along with new curb ramps will be installed along both sides of 3rd Street and will be compliant with PROWAG Criteria and will include detectable warnings and proper crosswalk striping.

This project falls within the range of the Indiana Bat and the Northern Long Eared Bat. On June 5, 2019 a review of the USFWS database did not indicate the presence of endangered bat species in or within the 0.5 mile search radius of the project area. The range-wide programmatic consultation for the Indiana bat and the Northern Long-eared bat will be completed according to "Using the USFWS IPaC System for Listed Bat Consultation, for INDOT Projects, dated May 10, 2018".

No bridges or culverts will be involved in this project. Therefore, no bat inspections for bridges and culverts will be included in this project.

Sutiabale summer habitat is located within the project action area. It is proposed that five (5) trees will be removed and zero (0) trees will be trimmed for this project to occur. The proposed trees that will be removed are characterized with diameters at breast height (DBH) and species as follows: a 4" Maple, a 4" Redbud, a 12" Poplar, a 36" Maple, and a 4" Redbud. Proposed trees will be removed during the inactive season

The anticipated start date of construction is in the summer of 2022.

#### **Determination Key Result**

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

#### **Qualification Interview**

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

Automatically answered

Yes

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

Automatically answered

Yes

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

No

6.	Does the project include any activities within 0.5 miles of a known Indiana bat and/or
	NLEB hibernaculum ^[1] ?

[1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

No

7. Is the project located within a karst area?

No

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

Yes

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

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

No

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

No

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

Yes

14.	What time of year will the removal or trimming of habitat or trees within suitable bu
	<b>undocumented Indiana bat</b> roosting/foraging habitat or travel corridors occur ^[1] ?

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

No

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

Yes

- 17. What time of year will the removal or trimming of habitat or trees within suitable but undocumented NLEB roosting/foraging habitat or travel corridors occur?
  - B) During the inactive season
- 18. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces? *Yes*
- 19. Will the tree removal alter *any* **documented** Indiana bat or NLEB roosts and/or alter any surrounding summer habitat **within** 0.25 mile of a documented roost?

  No
- 20. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

No

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

Yes

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

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

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

Yes

32. Will the project raise the road profile **above the tree canopy**? *No* 

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

#### Automatically answered

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

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

#### Automatically answered

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

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

#### Automatically answered

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

#### 36. General AMM 1

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

Yes

#### 37. Tree Removal AMM 1

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

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

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

Yes

#### 38. Tree Removal AMM 2

Can *all* tree removal activities be restricted to when Indiana bats are not likely to be present (e.g., the inactive season)^[1]?

[1] Coordinate with the local Service Field Office for appropriate dates.

#### Automatically answered

Yes

#### 39. Tree Removal AMM 2

Can *all* tree removal activities be restricted to when Northern long-eared bats are not likely to be present (e.g., the inactive season)^[1]?

[1] Coordinate with the local Service Field Office for appropriate dates.

#### Automatically answered

Yes

#### 40. Tree Removal AMM 3

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

Yes

#### 41. Tree Removal AMM 4

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

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

Yes

#### 42. Lighting AMM 1

Will *all* **temporary** lighting used during the removal of suitable habitat and/or the removal/trimming of trees within suitable habitat be directed away from suitable habitat during the active season?

Yes

#### 43. Lighting AMM 2

Does the lead agency use the BUG (Backlight, Uplight, and Glare) system developed by the Illuminating Engineering Society^{[1][2]} to rate the amount of light emitted in unwanted directions?

- [1] Refer to Fundamentals of Lighting BUG Ratings
- [2] Refer to The BUG System—A New Way To Control Stray Light

No

#### 44. Lighting AMM 2

Will *all* **permanent** lighting used during removal of suitable habitat and/or the removal/ trimming of trees within suitable habitat use downward-facing, full cut-off^[1] lens lights (with same intensity or less for replacement lighting)?

[1] Refer to <u>Luminaire classification for controlling stray light</u>

Yes

#### 45. Lighting AMM 2

Will *all* **permanent** lighting used during removal of suitable habitat and/or the removal/ trimming of trees within suitable habitat be directed away from *all* areas with suitable habitat?

Yes

#### 46. Lighting AMM 2

Does the lead agency use the BUG (Backlight, Uplight, and Glare) system developed by the Illuminating Engineering Society^{[1][2]} to rate the amount of light emitted in unwanted directions?

- [1] Refer to Fundamentals of Lighting BUG Ratings
- [2] Refer to The BUG System—A New Way To Control Stray Light

No

#### 47. Lighting AMM 2

Will *all* **permanent** lighting (other than any lighting already indicated for tree clearing or bridge/structure removal, replacement or maintenance activities) use downward-facing, full cut-off^[1] lens lights (with same intensity or less for replacement lighting)?

[1] Refer to Luminaire classification for controlling stray light

Yes

#### 48. Lighting AMM 2

Will the **permanent** lighting (other than any lighting already indicated for tree clearing or bridge/structure removal, replacement or maintenance activities) be directed away from *all* areas with suitable habitat?

Yes

#### **Project Questionnaire**

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

N/A

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

N/A

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

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

.45

#### **Avoidance And Minimization Measures (AMMs)**

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

#### **GENERAL AMM 1**

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

#### **LIGHTING AMM 1**

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

#### **LIGHTING AMM 2**

When installing new or replacing existing permanent lights, use downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting); or for those transportation agencies using the BUG system developed by the Illuminating Engineering Society, be as close to 0 for all three ratings with a priority of "uplight" of 0 and "backlight" as low as practicable.

#### TREE REMOVAL AMM 1

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

#### **TREE REMOVAL AMM 2**

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

#### TREE REMOVAL AMM 3

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

#### TREE REMOVAL AMM 4

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

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

This key was last updated in IPaC on March 16, 2018. Keys are subject to periodic revision.

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

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

# Appendix D: Section 106 of the NHPA

#### Minor Projects PA Project Assessment Form - Category B Projects with Archaeology Work

**Date:** 4/4/2019 **Project Designation Number:** 1600891 **Route Number:** N/A **Project Description:** 3rd Street Road Improvements The primary purpose of this project is to increase serviceability and safety for both motorized and nonmotorized traffic. The quality of the roadway will be improved by patching, milling, and resurfacing of the existing roadway. The existing roadway consists of two 15-foot travel lanes. The roadway will be narrowed to two 11-foot travel lanes and new curb and gutters will be installed to improve stormwater drainage. New sidewalks will be built along the alignment and will be separated from the roadway by a 4foot wide utility strip. Existing curb ramps will be reviewed for ADA compliance and repaired or replaced as necessary. Right-of-way will be acquired and driveways will be reconstructed. Decorative street lighting will be installed throughout the corridor. Feature crossed (if applicable): N/A Township: Boon City/County: Boonville, Warrick County Information reviewed (please check all that apply): General project location map USGS map Aerial photograph Written description of project area  $\boxtimes$ General project area photos  $\boxtimes$ Previously completed archaeology reports  $\boxtimes$ Interim Report | | Previously completed historic property reports Soil survey data Bridge inspection information Other (please specify): SHAARD; SHAARD GIS; online street-view imagery Jackson, Christopher 2019 A Phase Ia Archaeological Records Review and Field Reconnaissance for the Proposed Rehabilitation of 3rd Street from Sycamore Street to Olive Street in the City of Boonville, Boon Township, Warrick County, Indiana. Green 3. Submitted to Beam, Longest and Neff. Report on file at the IDNR, DHPA **Results of the Records Review for Above-Ground Resources:** With regard to above-ground resources, an INDOT Cultural Resources historian who meets the

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project area is not located within or adjacent to any listed resources.

Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 performed a desktop review, checking the Indiana Register of Historic Sites and Structures (State Register) and National Register of Historic Places (National Register) lists for Warrick County. The

The *Gibson County/Warrick County Interim Report* (1984; Boonville Scattered Sites) of the Indiana Historic Sites and Structures Inventory (IHSSI) was also consulted. The National Register & IHSSI information is available in the Indiana State Historic Architectural and Archaeological Research Database (SHAARD), and the Indiana Historic Buildings, Bridges, and Cemeteries Map (IHBBCM). The SHAARD and IHBBCM information was checked against the Interim Report hard copy maps. It should be noted that Warrick County was re-surveyed in 2010. The information from the 2010 survey was uploaded to SHAARD, but a new interim report was not published. The 2010 survey data was utilized for the purposes of this MPPA determination.

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

The following IHSSI properties are located adjacent to the project area:

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IHSSI # 173-058-33185, Boonville Elks Lodge, rated "contributing"
IHSSI # 173-058-33131, house, rated "contributing"
IHSSI # 173-058-33188, duplex, rated "contributing"
IHSSI # 173-058-33136, house, demolished
IHSSI # 173-058-33132, house, rated "contributing"
IHSSI # 173-058-33051, house, rated "contributing"
IHSSI # 173-058-33050, house, rated "contributing"
IHSSI # 173-058-33052, house, rated "contributing"
IHSSI # 173-058-33130, house, rated "contributing"
IHSSI # 173-058-33148, commercial building, rated "contributing"
IHSSI # 173-058-33138, house, rated "contributing"
IHSSI # 173-058-33137, house, rated "contributing"
IHSSI # 173-058-33133, house, rated "contributing"
IHSSI # 173-058-33053, house, rated "contributing"
IHSSI # 173-058-33139, house, demolished
IHSSI # 173-058-33193, house, rated "contributing"
IHSSI # 173-058-33081, house, rated "contributing"
IHSSI # 173-058-33094, house, rated "contributing"
IHSSI # 173-058-33189, house, rated "contributing"
IHSSI # 173-058-33100, house, rated "contributing"
IHSSI # 173-058-33107, house, rated "contributing"
IHSSI # 173-058-33101, house, rated "contributing"
IHSSI # 173-058-33082, duplex, rated "contributing"
IHSSI # 173-058-33192, house, rated "contributing"
IHSSI # 173-058-33195, house, rated "contributing"
IHSSI # 173-058-33105, house, rated "contributing"
IHSSI # 173-058-33106, house, rated "contributing"
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Though there are a significant number of surveyed IHSSI properties along the project route, none rise above a rating of "contributing." In addition, the IHSSI survey did not identify a historic

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district in the area. The "contributing" properties listed above are spread over approximately 0.66 mile. During the desktop review, the INDOT historian saw no evidence for the presence of a historic district.

Aboveground resources adjacent to the project area largely consist of common types of early twentieth-century houses, including American Foursquare houses and bungalows, and vernacular late twentieth-century houses. Many have been heavily altered. Other resources adjacent to the project area include mid-twentieth century ranch houses, mid- to late twentieth-century commercial buildings, and a late nineteenth-century commercial building (heavily altered). None of the aboveground resources adjacent to the project area possess the significance and integrity necessary to be considered potentially eligible for the National Register, either individually or as part of a historic district.

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

#### **Archaeology Report Author/Date:**

Christopher Jackson/March 19, 2019

#### **Summary of Archaeology Investigation Results:**

With regard to archaeological resources, a qualified professional archaeologist who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 performed an archaeological records check and Phase Ia reconnaissance of the proposed project area. The records check indicated that one professional archaeological investigation had been conducted within the proposed project area; and many investigations have been conducted within one mile. No archaeological sites were recorded within or adjacent to the project area. Fifty-five sites have been recorded within the one mile investigation area.

The field reconnaissance found no cultural materials and no additional archaeological investigation was recommended. An INDOT Cultural Resources archaeologist who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61reviewed and approved the archaeological report for this project.

Does the project appear to fall under the Minor Projects PA?	yes	⊠no	
If yes, please specify category and number (applicable conditions are	e high	ılighted	):

B-1. Replacement, repair, or installation of curbs, curb ramps, or sidewalks, including when such projects are associated with roadway work such as surface replacement, reconstruction, rehabilitation, or resurfacing projects, including overlays, shoulder treatments, pavement repair, seal coating, pavement grinding, and pavement marking, under the following conditions [BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied]:

#### **Condition A (Archaeological Resources)**

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

- i. Work occurs in previously disturbed soils; *OR*
- ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National

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Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the Division of Historic Preservation and Archaeology (DHPA) and any archaeological site form information will be entered directly into the State Historic Architectural and Archaeological Database (SHAARD) by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.

#### **Condition B (Above-Ground Resources)**

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

- i. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *OR*
- ii. Work occurs adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource under one of the two additional conditions listed below (EITHER Condition a OR Condition b must be met and field work and documentation must be completed as described below):
  - a. No unusual features, including but not limited to historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and historic brick or stone retaining walls are present in the project area adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *OR*
  - b. Unusual features, including but not limited to historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and historic brick or stone retaining walls are present in the project area adjacent to or within a National Register-listed or National Register-eligible individual above-ground resource or district and ANY ONE of the conditions (1, 2, or 3) listed below must be fulfilled:
    - 1. Unusual features described above will not be impacted by the project. Firm commitments regarding the avoidance of these features must be listed in the MPPA determination form and the NEPA document and must be entered into the INDOT Project Commitments Database. These projects will also be flagged for quality assurance reviews by INDOT Cultural Resources Office during/after project construction.
    - 2. Unusual features described above have been determined not to contribute to the significance of the historic resource by INDOT Cultural Resources Office in consultation with the SHPO based on an analysis and justification prepared by their staff or review of such information from other qualified professional historians.
    - 3. Impacts to unusual features described above have been determined by INDOT Cultural Resources Office to be so minimal that they do not diminish any of the characteristics that contribute to the significance of the historic resource, based on an analysis and justification prepared by their staff or review of such information from other qualified professional historians.

#### Field work and documentation required for fulfillment of condition B-ii:

When the project takes place adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource, it must be field checked by INDOT Cultural Resources Office staff or other qualified professional historian (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) and photographic documentation must be prepared illustrating both the presence and/or absence of any unusual features along the project route adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource. This documentation must be submitted to INDOT Cultural Resources Office for review.

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The only exception would be when it is determined that previous projects along the project route have eliminated the possibility that unusual features adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource exist. In this situation, documentation illustrating the modifications made through previous projects, such as replacement of curbs, curb ramps, or sidewalks, including plan sheets or contract documents and current photographs of the project area, must be submitted to the INDOT Cultural Resources Office for review. With such approved documentation, a site visit by a qualified professional is not required, unless questions arise during the review process. INDOT Cultural Resources Office has the discretion to require the project applicant's qualified professional conduct a site visit when it is not clear if unusual features may be present in the project area.

#### If no, please explain:

**Additional comments:** If any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, construction in the immediate area of the find will be stopped, and the INDOT Cultural Resources Office and the Division of Historic Preservation and Archaeology will be notified immediately.

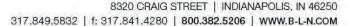
#### INDOT Cultural Resources staff reviewer(s): Anthony Ross and David Moffatt

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

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# **Appendix E:**

# Red Flag and Hazardous Materials







Date: October 17, 2018

To: Site Assessment & Management

**Environmental Services** 

Indiana Department of Transportation 100 N Senate Avenue, Room N642

Indianapolis, IN 46204

From: Christian Radcliff

Beam, Longest and Neff, LLC

8320 Craig Street

Indianapolis, Indiana 46250

cradcliff@b-l-n.com

Re: RED FLAG INVESTIGATION

DES # 1600891, Local Project Roadway Improvements

3rd Street from North of Sycamore Street to North of Olive Street

Warrick County, Indiana

#### PROJECT DESCRIPTION

460 feet north of Olive Street

Project was updated as shown

edits are necessary.

below after approval. No further

Brief Description of Project: The City of Boonville proposes to improve 3rd Street from 160 feet north of Sycamore Street to 460 feet north of Olive Street (0.65 mile). The project is proposed to be completed with local and federal funds. The proposed improvements include milling and resurfacing the existing pavement, updating the existing ramps to be ADA compliant, and improving pedestrian access and safety. The existing roadway width will be reduced to allow for additional greenspace and larger sidewalks. New lighting will be installed along the corridor for improved visibility. New curb inlets will be installed along the corridor to help control drainage.

will be installed along the corridor to help control drainage.
Bridge and/or Culvert Project: Yes □ No ⊠ Structure #
If this is a bridge project, is the bridge Historical? Yes $\Box$ No $\Box$ , Select $\Box$ Non-Select $\Box$
(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations
Section of the report).
Proposed right of way: Temporary $\boxtimes$ # Acres <u>1.0</u> Permanent $\boxtimes$ # Acres <u>1.0</u>
Type of excavation: Excavation for new storm sewers and light poles will be necessary. Excavation for sewers could extend
up to six (6) feet and excavation for light poles could extend up to eight (8) feet. The location of the new storm sewers
and light poles will be determined later in the design process.

Maintenance of traffic: Traffic will be maintained with one lane of traffic in either direction, with occasional closures for the roadway resurfacing. Roadside flaggers will be used to direct traffic during the lane closures.

Work in waterway: Yes  $\square$  No  $\boxtimes$  Above ordinary high water mark: Yes  $\square$  No  $\square$ 

State Project: ☐ LPA: ⊠

Any other factors influencing recommendations: Recommendations are based on preliminary estimates or right of way, maintenance of traffic, and excavation, and are subject to change as design progresses.



#### **INFRASTRUCTURE TABLE AND SUMMARY**

Infrastructure Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:				
Religious Facilities	11	Recreational Facilities	5	
Airports ¹	1*	Pipelines	3	
Cemeteries	2	Railroads	1	
Hospitals	N/A	Trails	N/A	
Schools	4*	Managed Lands	1	

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

#### Explanation:

Religious Facilities: Eleven (11) religious facilities are within the 0.5 mile search radius. The nearest facility, Hemenway Memorial Presbyterian Church, is approximately 0.06 mile east of the project area. No impact is expected.

Airports: Although not located within the 0.5 mile search radius, one (1) public airport, Boonville Airport, is located within 3.8 miles of the project area; therefore, early coordination with INDOT Aviation will occur.

Cemeteries: Two (2) cemeteries are located within the 0.5 mile search radius. The nearest cemetery, The Old Boonville Cemetery, is located approximately 0.13 mile west of the project area. No impact is expected.

Schools: Four (4) schools are within the 0.5 mile search radius. The nearest school, is approximately 0.09 mile west of the project area. No impact is expected.

Recreational Facilities: Five (5) recreational facilities are within the 0.5 mile search radius. The nearest facility, the athletic fields associated with Boonville High School, are approximately 0.09 mile west of the project area. No impact is expected.

Pipelines: Three (3) pipeline segments are within the 0.5 mile search radius. The nearest segment is a natural gas pipeline owned by Texas Gas Transmission Group and is within the project area. Coordination with Texas Gas Transmission Group should occur.

Railroads: One (1) railroad segment is within the 0.5 mile search radius. Norfolk Southern manages a railroad that is approximately 0.43 mile south of the project area. No impact is expected.

Managed Lands: One (1) managed land is within the 0.5 mile search radius. Scales Lake Park is approximately 0.5 mile east of the project area. No impact is expected.

^{*}Items marked with an asterisk are not shown on the attached graphics.



#### **WATER RESOURCES TABLE AND SUMMARY**

Water Resources Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:				
NWI - Points	N/A	Canal Routes - Historic	N/A	
Karst Springs	N/A	NWI - Wetlands	29	
Canal Structures – Historic	N/A	Lakes	20	
NPS NRI Listed	N/A	Floodplain - DFIRM	2	
NWI-Lines	N/A	Cave Entrance Density	N/A	
IDEM 303d Listed Streams and Lakes (Impaired)	N/A	Sinkhole Areas	N/A	
Rivers and Streams	1	Sinking-Stream Basins	N/A	

#### **Explanation:**

Rivers and Streams: One (1) river and stream segment is within the 0.5 mile search radius. The nearest stream segment is approximately 0.41 mile west of the project area. No impact is expected.

NWI Wetlands: Twenty-nine (29) wetlands are within the 0.5 mile search radius. The nearest wetland is approximately 0.08 mile north of the project area. No impact is expected.

Lakes: Twenty (20) lakes are within the 0.5 mile search radius. The nearest lake is approximately 0.02 mile north of the project area. No impact is expected.

Floodplain – DFIRM: Two (2) floodplain polygons are within the 0.5 mile search radius. The nearest floodplain polygon is approximately 0.25 mile west of the project area. No impact is expected.

#### **URBANIZED AREA BOUNDARY SUMMARY**

Explanation: This project lies within the Boonville UAB; however, a Rule 13 Permit from IDEM has not been issued. No further coordination is necessary at this time.

#### MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:					
Petroleum Wells	1	Mineral Resources	N/A		
Mines – Surface	4	Mines – Underground	3		

#### Explanation:

Petroleum Wells: One (1) petroleum well is located within the 0.5 mile radius. The nearest petroleum well is an unknown petroleum well that is located approximately 0.5 mile west of the project area. No impact is expected.



Mines – Surface: Four (4) surface mines are located immediately adjacent to the northern termini of the project area. Coordination with the IDNR Reclamation Division will occur.

Mines – Underground: Three (3) underground surface mines are within the 0.5 mile search radius. The nearest underground mine is approximately 0.19 mile north of the project area. No impact is expected.

#### HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns Indicate the number of items of conce please indicate N/A:	ern found wit	hin the 0.5 mile search radius. If there	are no items,
Superfund	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	N/A	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	1
State Cleanup Sites	1	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	7	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	N/A	Brownfields	5
Construction Demolition Waste	N/A	Institutional Controls	N/A
Solid Waste Landfill	N/A	NPDES Facilities	N/A
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	N/A
Leaking Underground Storage (LUST) Sites	6	Notice of Contamination Sites	N/A

#### Explanation:

State Cleanup Sites: One (1) state cleanup site is within the 0.5 mile search radius. Boonville Mining Services Incorporated (Agency Interest 58550, 110 West Division Street) is approximately 0.46 mile south of the project area. The site was closed unconditionally on December 6, 2002. No impact is expected.

Underground Storage Tank (UST) Sites: Seven (7) UST sites are within the 0.5 mile search radius. The nearest UST is immediately adjacent on the west side of the project area. This UST is associated with Circle K 2413 (Agency Interest 59866, 720 North 3rd Street) The most recent Indiana Department of Environmental Management (IDEM) inspection report dated December 2, 2016 indicated that the site was in compliance with equipment, operating, and maintenance requirements set forth in Indiana's UST rule 329 IAC 9. No impact is expected.

Leaking Underground Storage (LUST) Sites: Six (6) LUST sites are within the 0.5 mile search radius. The nearest LUST site is associated with BP Food Mart #25, which is the site of the former United Oil #6007 facility (Agency Interest 58648, 221 N Main Street) and located approximately 0.15 mile southeast. The site received a No Further Action determination by IDEM on June 10, 1999 due to the removal of all contaminated soil and groundwater at the site. No impact is expected.

Restricted Waste Sites: One (1) restricted waste site is within the 0.5 mile radius around the project area. According to an IDEM Solid Waste Compliance Inspection dated July 11, 2014, Warrick County Collection Container System (Agency Interest 60571, 109 West Main Street) was closed at this location on September 4, 2013. Access to the site is restricted and the facility has been transitioned to a mobile recycling program at a different location. No impact is expected.



Brownfields: There are five (5) Brownfields sites located within the 0.5 mile search radius. The nearest site, Hendrickson's Property (Agency ID No. 61462, 207 West Main Street), is located approximately 0.11 southwest of the project area. The site operated as a former car parts store and housed records for the county. The site has been demolished. No impact is expected.

### **ECOLOGICAL INFORMATION SUMMARY**

The Warrick County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Services did not indicate the presence of endangered species.

Due to the nature of project activities, this project will fall under the guidelines set forth under USFWS Interim Policy for the Review of Highway Transportation Projects in Indiana dated May 29, 2013. No further coordination is necessary.

A review of the USFWS database did not indicated the presence of endangered bat species in or within 0.5 mile of the project area. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

An inquiry using the USFWS Information for Planning and Consultation (IPaC) website did not indicate the presence of the federally endangered species, the Rusty Patched Bumble Bee, in or within 0.5 mile of the project area. No impact is expected.

### **RECOMMENDATIONS SECTION**

Include recommendations from each section. If there are no recommendations, please indicate N/A:

### **INFRASTRUCTURE:**

Airports: Boonville Airport is located within 3.8 miles of the project area; therefore, early coordination with INDOT Aviation will occur.

Pipelines: One (1) pipeline segment is in the immediate project area. Coordination with Texas Gas Transmission Group should occur.

WATER RESOURCES: N/A

URBANIZED AREA BOUNDARY: N/A

MINING/MINERAL EXPLORATION:

Surface Mines: Four (4) surface mines are located immediately adjacent to the northern termini of the project area. Coordination with the IDNR Reclamation Division will occur.

HAZMAT CONCERNS: N/A

### **ECOLOGICAL INFORMATION:**

A review of the USFWS database did not indicated the presence of endangered bat species in or within 0.5 mile of the project area. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".



Nicole Fohey

Digitally signed by Nicole Fohey-Breting

DN: cn=Nicole Fohey-Breting, o=INDOT,
ou=Environmental Services, Haz/Mat,
email=NFoheyBreting@indot.in.gov,
c=US

Date: 2019.01.15 13:49-47 -05'00'

(Signature)

INDOT Environmental Services concurrence:

Prepared by: Christian Radcliff Environmental Analyst Beam, Longest and Neff, LLC

### **Graphics**:

A map for each report section with a 0.5 mile search radius buffer around all project area(s) showing all items identified as possible items of concern is attached. If there is not a section map included, please change the YES to N/A:

SITE LOCATION: YES

**INFRASTRUCTURE: YES** 

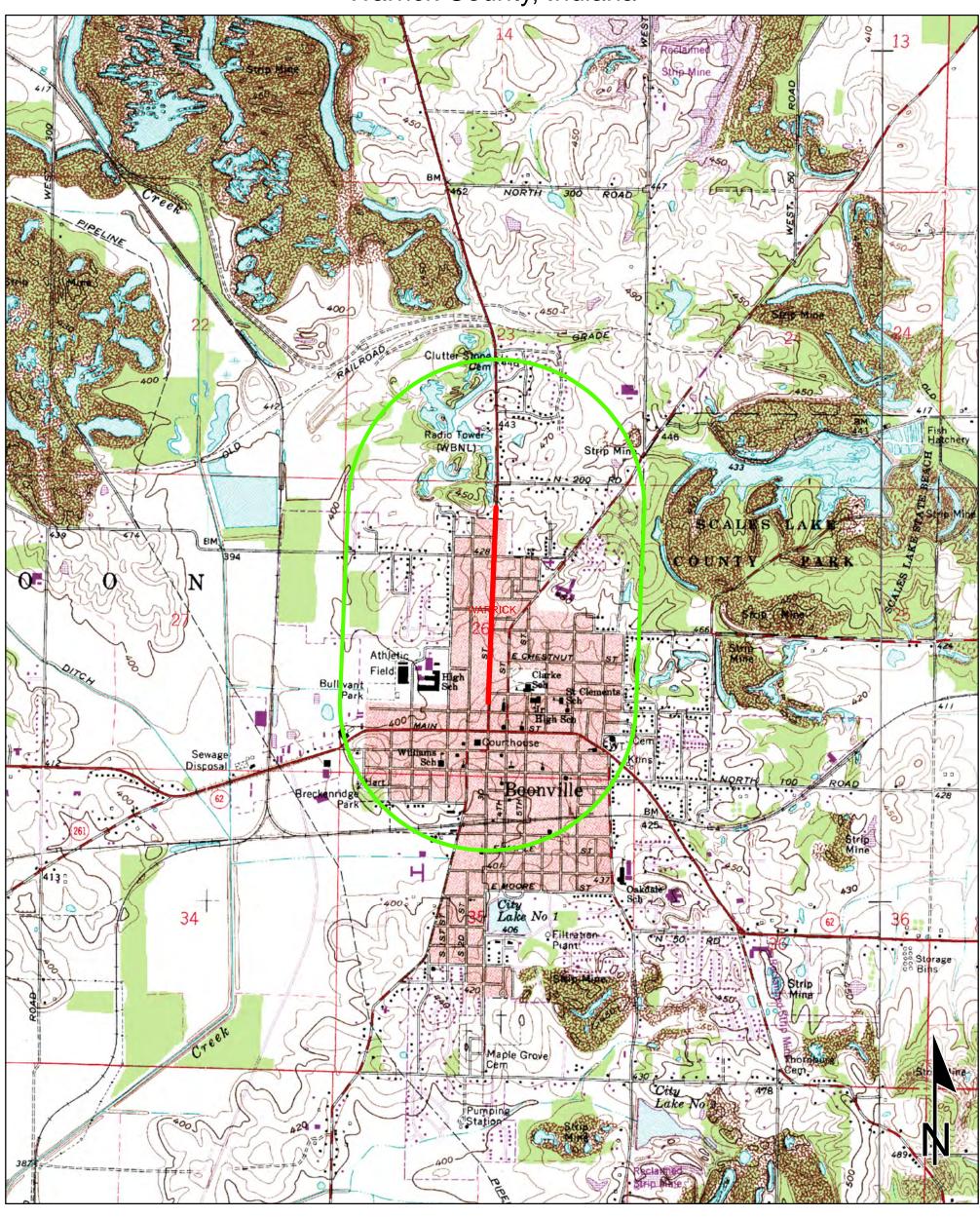
WATER RESOURCES: YES

**URBANIZED AREA BOUNDARY: YES** 

MINING/MINERAL EXPLORATION: YES

**HAZMAT CONCERNS: YES** 

## Red Flag Investigation - Site Location 3rd Street from North of Sycamore Street to North of Olive Street Des. No. 1600891, Roadway Improvement Project Warrick County, Indiana



Sources:
Non Orthophotography

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

<u>Orthophotography</u> - Obtained from Indiana Map Framework Data (www.indianamap.org)

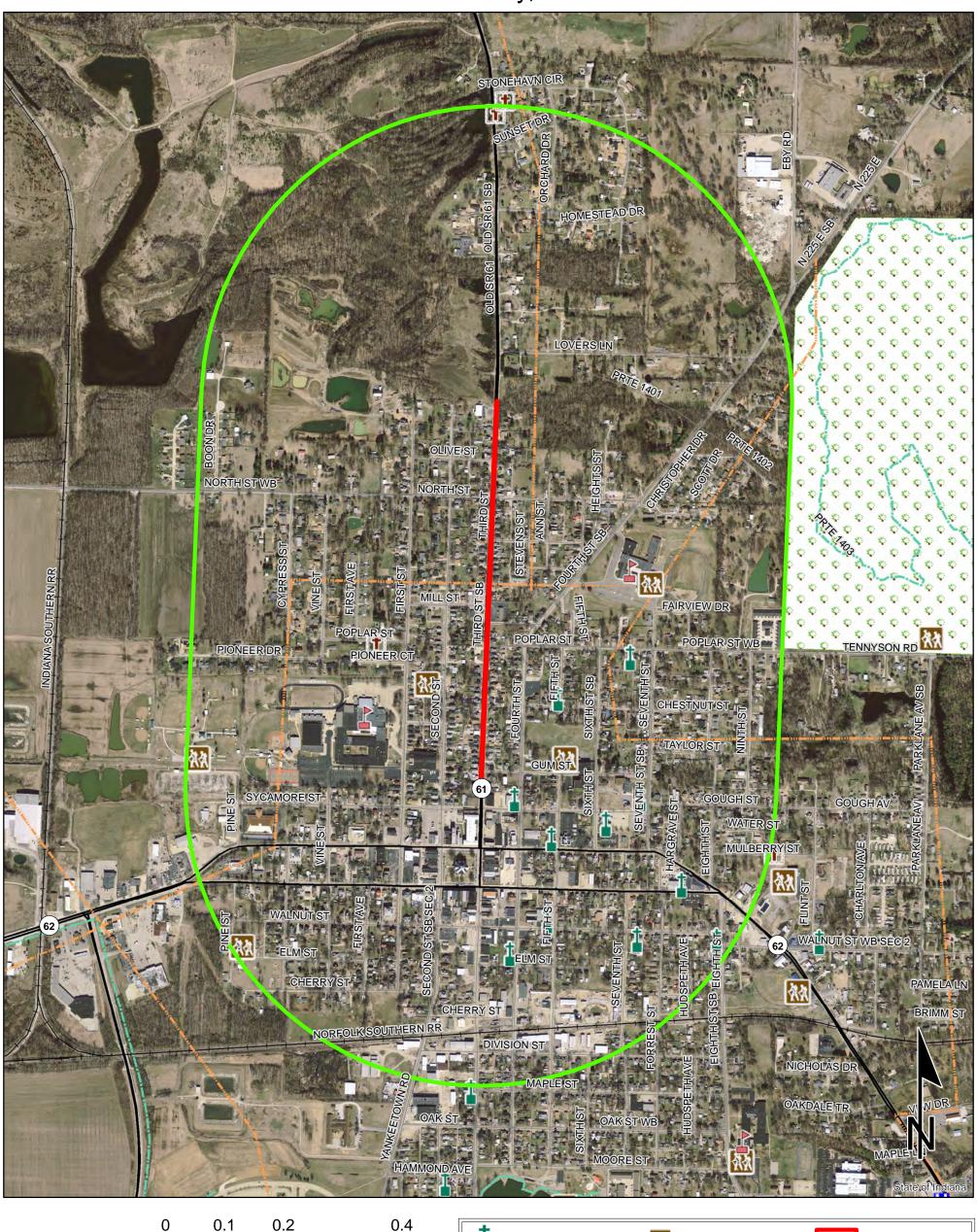
Map Projection: UTM Zone 16 N Map Datum: NAD83

This map is intended to serve as an aid in graphi

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

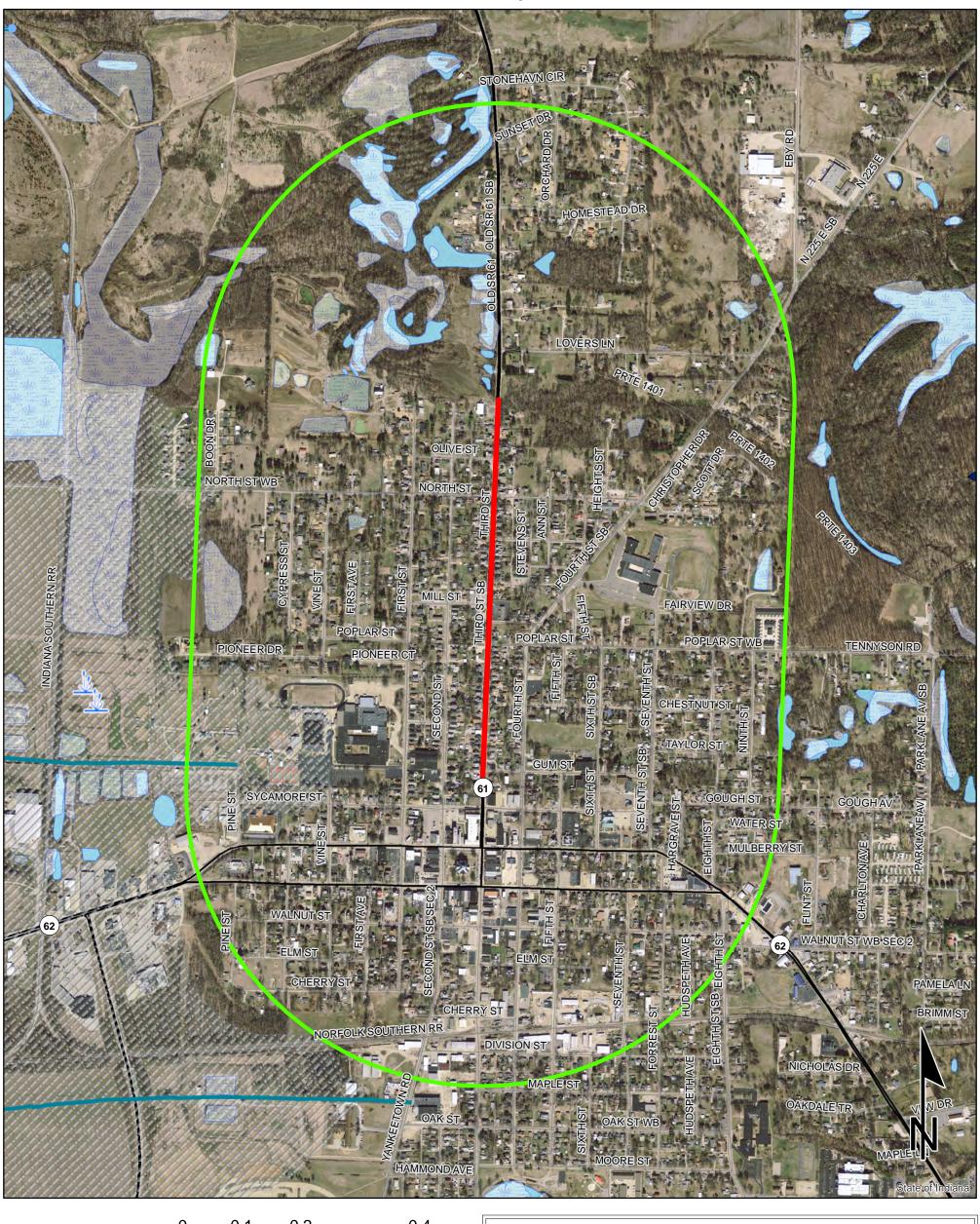
BOONVILLE QUADRANGLE INDIANA 7.5 MINUTE SERIES (TOPOGRAPHIC)

## Red Flag Investigation - Infrastructure 3rd Street from North of Sycamore Street to North of Olive Street Des. No. 1600891, Roadway Improvement Project Warrick County, Indiana



Sources: **Project Area** ■ Miles Recreation Facility Religious Facility Non Orthophotography Half Mile Radius <u>Data</u> - Obtained from the State of Indiana Geographical **Pipeline** Airport Information Office Library Railroad Orthophotography - Obtained from Indiana Map Framework Data † Cemeteries (www.indianamap.org) Interstate Trails Map Projection: UTM Zone 16 N Map Datum: NAD83 State Route H Hospital Managed Lands This map is intended to serve as an aid in graphic **US** Route representation only. This information is not warranted School **County Boundary** for accuracy or other purposes. Local Road

## Red Flag Investigation - Water Resources 3rd Street from North of Sycamore Street to North of Olive Street Des. No. 1600891, Roadway Improvement Project Warrick County, Indiana

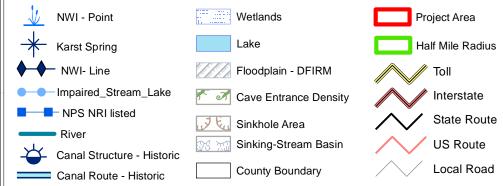


Sources:
Non Orthophotography

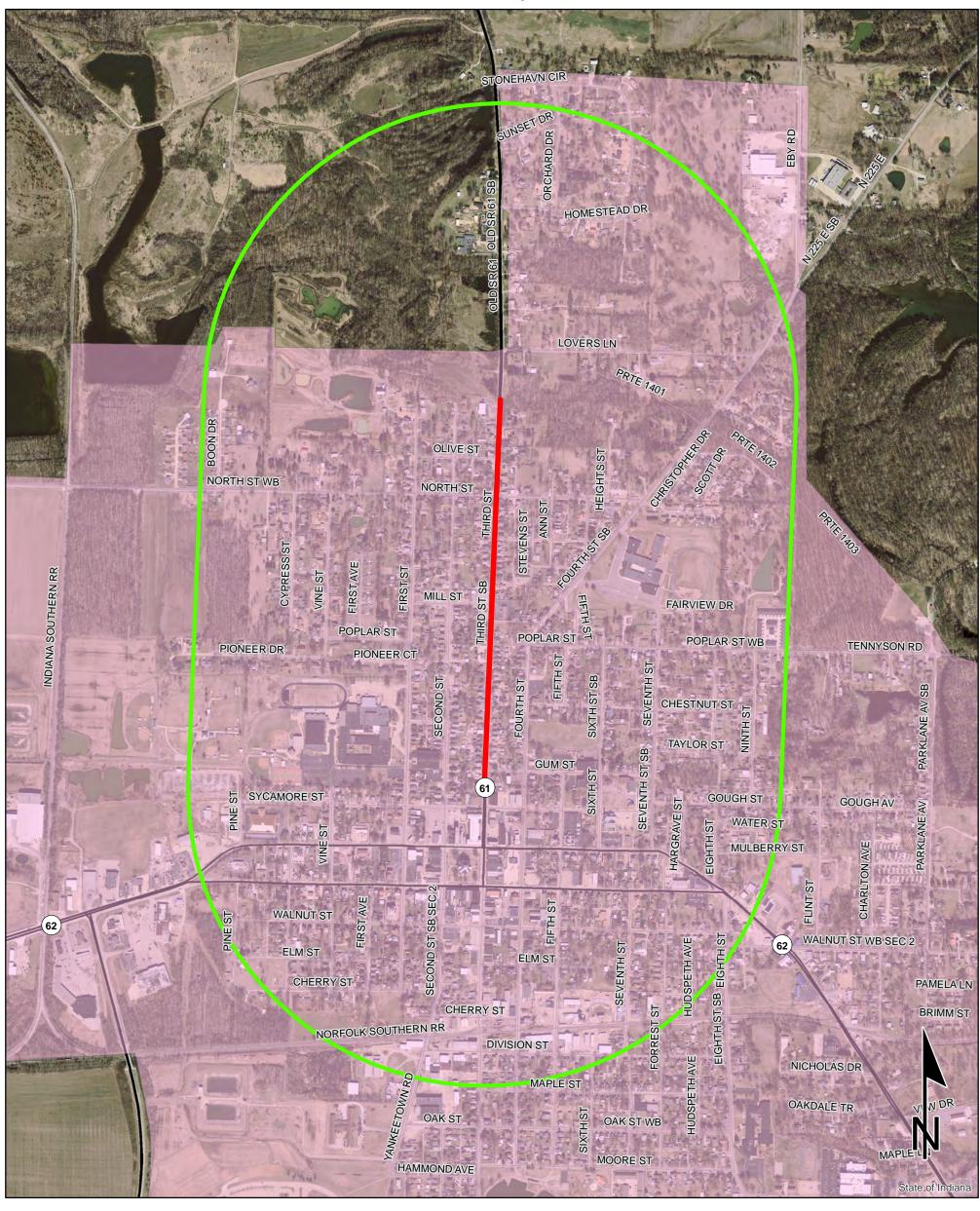
Data - Obtained from the State of Indiana Geographical
Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data
(www.indianamap.org)
Map Projection: UTM Zone 16 N Map Datum: NAD83

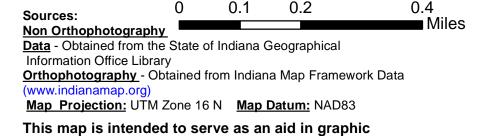
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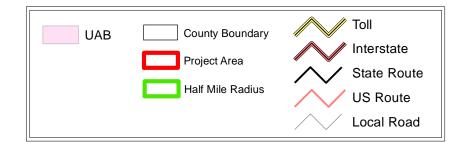
## Red Flag Investigation - Urbanized Area Boundary 3rd Street from North of Sycamore Street to North of Olive Street Des. No. 1600891, Roadway Improvement Project Warrick County, Indiana



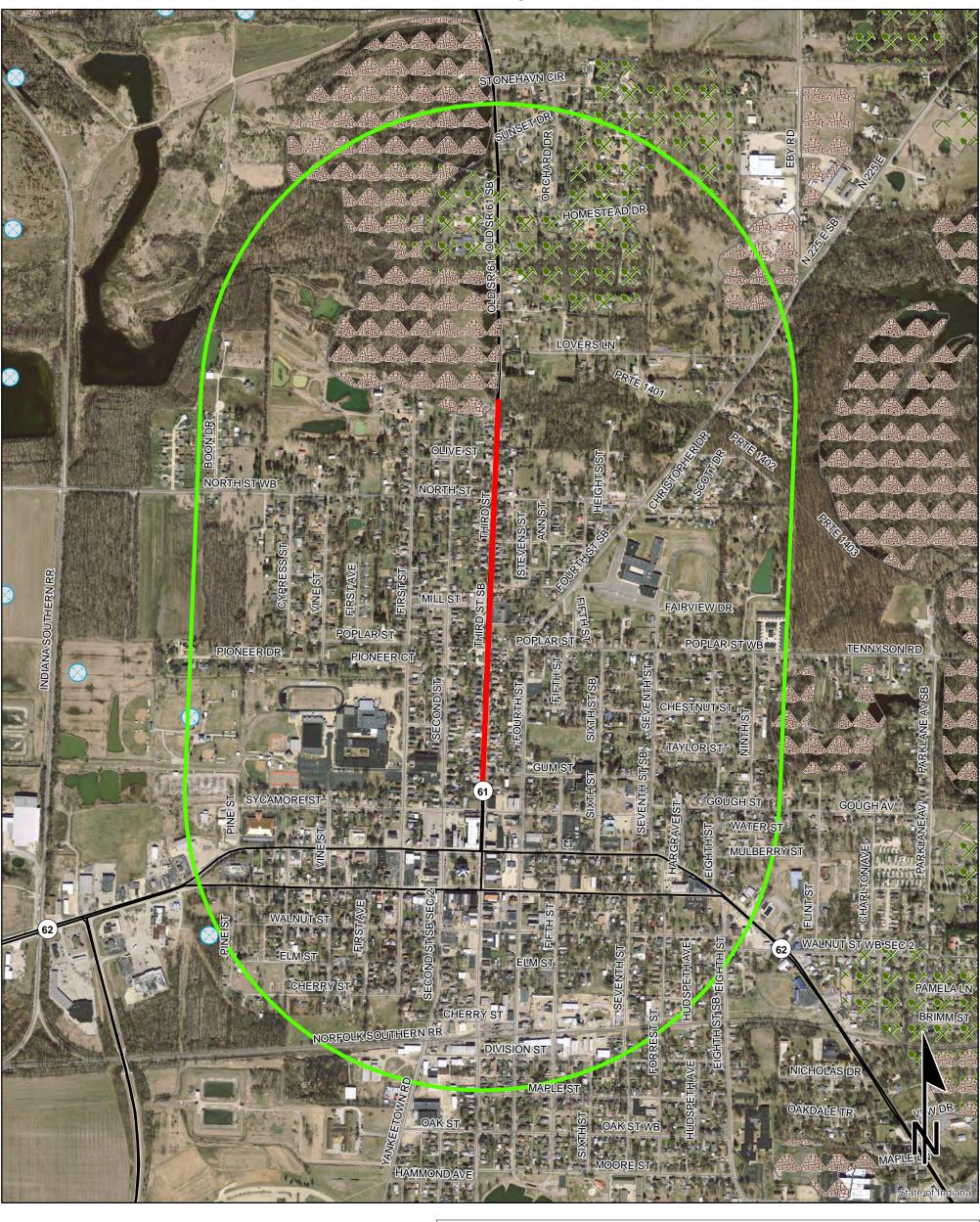


representation only. This information is not warranted

for accuracy or other purposes.



## Red Flag Investigation - Mining/Mineral Exploration 3rd Street from North of Sycamore Street to North of Olive Street Des. No. 1600891, Roadway Improvement Project Warrick County, Indiana



Sources:

Non Orthophotography

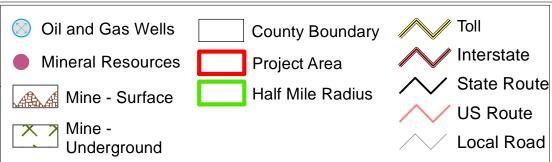
Data - Obtained from the State of Indiana Geographical
Information Office Library

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

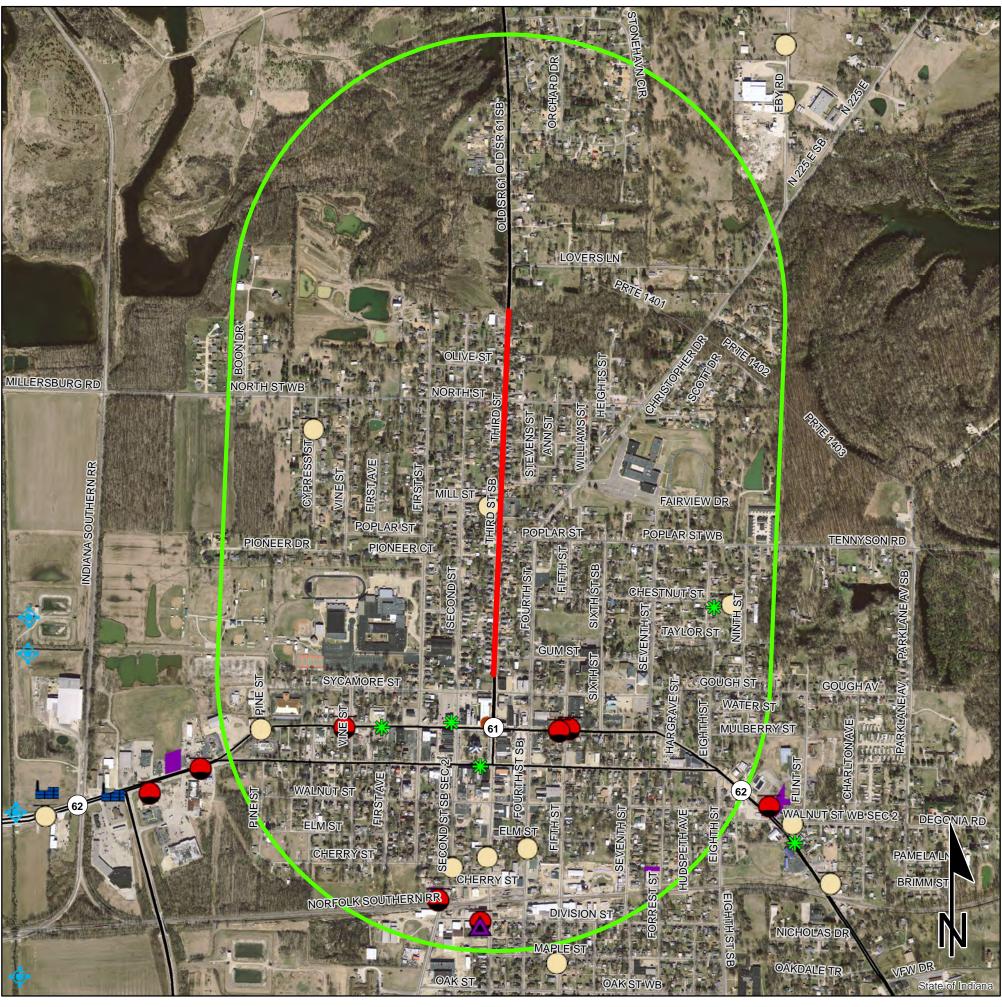
Map Projection: UTM Zone 16 N Map Datum: NAD83

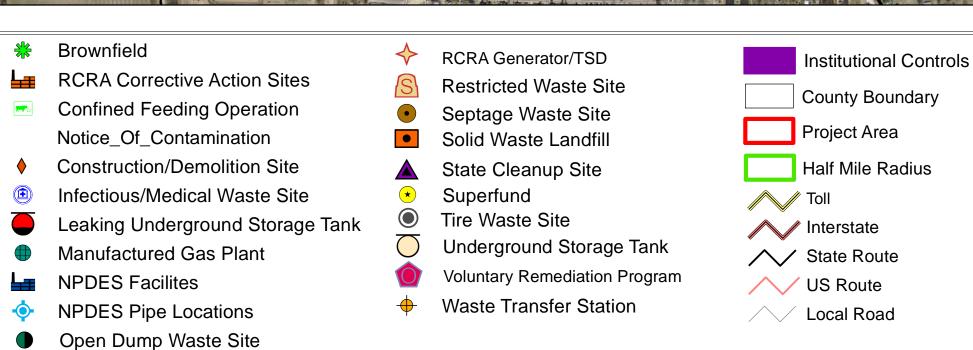
This map is intended to serve as an aid in graphic representation only. This information is not warranted

for accuracy or other purposes.



## Red Flag Investigation - Hazardous Material Concerns 3rd Street from North of Sycamore Street to North of Olive Street Des. No. 1600891, Roadway Improvement Project Warrick County, Indiana





0 0.1 0.2 0.4 Miles

### **Indiana County Endangered, Threatened and Rare Species List**

County: Warrick

Species Name		Common Name	FED	STATE	GRANK	SRANK		
Mollusk: Bivalvia (Mussels)								
Lampsilis ovata		Pocketbook			G5	S2		
Ligumia recta		Black Sandshell			G4G5	S2		
Plethobasus cyphyus		Sheepnose	LE	SE	G3	<b>S1</b>		
Pleurobema cordatum		Ohio Pigtoe		SSC	G4	S2		
Fish Etheostoma squamiceps		Spottail Darter			G4G5	S2S3		
Reptile Nerodia erythrogaster neglecta		Commanda No. Water Conde	PS:LT	SE	G5T3	(S2)		
Opheodrys aestivus		Copperbelly Water Snake Rough Green Snake	FS.L1	SSC	G513	S3		
Bird		S						
Ammodramus henslowii		Henslow's Sparrow		SE	G4	S3B		
Asio flammeus		Short-eared Owl		SE	G5	<u>S2</u>		
Botaurus lentiginosus		American Bittern		SE	G5	S2B		
Buteo lineatus		Red-shouldered Hawk		SSC	G5	S3		
Circus hudsonius		Northern Harrier		SE)	G5	(S2)		
Cistothorus platensis		Sedge Wren		SE	G5	S3B		
Haliaeetus leucocephalus		Bald Eagle		SSC	G5	S2		
Helmitheros vermivorus		Worm-eating Warbler		SSC	G5	S3B		
Ictinia mississippiensis		Mississippi Kite		SSC	G5	S1B		
Ixobrychus exilis		Least Bittern		SE	G5	S3B		
Lanius Iudovicianus		Loggerhead Shrike		SE	G4	S3B		
Nyctanassa violacea		Yellow-crowned Night-heron		SE	G5	S2B		
Pandion haliaetus		Osprey		SE	G5	S ₁ B		
Rallus limicola		Virginia Rail		SE	G5	S3B		
Setophaga cerulea		Cerulean Warbler		SE	G4	S3B		
Tyto alba		Barn Owl		SE	G5	S2		
Mammal								
Lasiurus borealis		Eastern Red Bat		SSC	G3G4	S4		
Myotis sodalis		Indiana Bat or Social Myotis	LE	SE	G2	<u>S1</u>		
Nycticeius humeralis		Evening Bat		SE	G5	<u>S1</u>		
Sylvilagus aquaticus		Swamp Rabbit		SE	G5	<b>S1</b>		
Taxidea taxus		American Badger		SSC	G5	S2		
Vascular Plant		2 " " "		(CIP)	C.F.	<b>C1</b>		
Bacopa rotundifolia		Roundleaf Water-hyssop		ST	G5	S1		
Carex bushii Carex socialis		Bush's Sedge		ST	G4 G4	S1)		
		Social Sedge		SR	G4?	S2 S2		
Catalpa speciosa Clematis pitcheri		Northern Catalpa		SR	G4? G4G5	S2 S2		
Croton willdenowii		Pitcher Leather-flower		SR		S1		
Indiana Natural Heritage Data Center Division of Nature Preserves	Fed: State:	Elliptical Rushfoil  LE = Endangered; LT = Threatened; C = candic SE = state endangered; ST = state threatened; S	R = state rare; SSC	_				
Indiana Department of Natural Resources This data is not the result of comprehensive county surveys.	GRANK:	SX = state extirpated; SG = state significant; WL = watch list  Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank						

unranked

Page 2 of 2 02/05/2018

### Indiana County Endangered, Threatened and Rare Species List

County: Warrick

Species Name	Common Name	FED	STATE	GRANK	SRANK
Dicliptera brachiata	Wild Mudwort		SE	G5	S1
Didiplis diandra	Water-purslane		SE	G5	<u>S2</u>
Eleocharis wolfii	Wolf Spikerush		SR	G3G5	S2
Festuca paradoxa	Cluster Fescue		ST	G5	<u>S1</u>
Hypericum denticulatum	Coppery St. John's-wort		ST	G5	S2
Iresine rhizomatosa	Eastern Bloodleaf		SR	G5	<b>S2</b>
Nothoscordum bivalve	Crow-poison		SR	G4	<b>S2</b>
Orobanche riparia	<b>Bottomland Broomrape</b>		SE	G4?	S2
Perideridia americana	Eastern Eulophus		SE	G4	<u>S1</u>
Poa wolfii	Wolf Bluegrass		SR	G4	S2
Rudbeckia fulgida var. fulgida	Orange Coneflower		WL	G5T4?	S2
Scutellaria parvula var. australis	Southern Skullcap		WL	G4T4?	S2
Stenanthium gramineum	Eastern Featherbells		ST	G4G5	<u>S1</u>
Strophostyles leiosperma	Slick-seed Wild-bean		ST	G5	S2
Styrax americanus	American Snowbell		WL	G5	S3
Taxodium distichum	Bald Cypress		ST	G5	S2
Thalictrum pubescens	Tall Meadowrue		ST	G5	<b>S2</b>
Trachelospermum difforme	Climbing Dogbane		SR	G4G5	<b>S2</b>
Trifolium reflexum var. glabrum	Buffalo Clover		SE	G5T2T4Q	<u>S1</u>
High Quality Natural Community					
Forest - flatwoods dry	Dry Flatwoods		SG	G2?	S2
Forest - floodplain wet	Wet Floodplain Forest		SG	G3?	S3
Forest - upland dry-mesic Southern Bottomlands	Southern Bottomlands Dry-mesic			GNR	S1
	Upland Forest				
Other Significant Feature					
Freshwater Mussel Concentration Area	Mussel Bed		SG	G3	SNR

Indiana Natural Heritage Data Center Fed: Division of Nature Preserves State: Indiana Department of Natural Resources This data is not the result of comprehensive county GRANK: surveys. SRANK:

LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting

SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern;

 $SX = state \ extirpated$ ;  $SG = state \ significant$ ;  $WL = watch \ list$ 

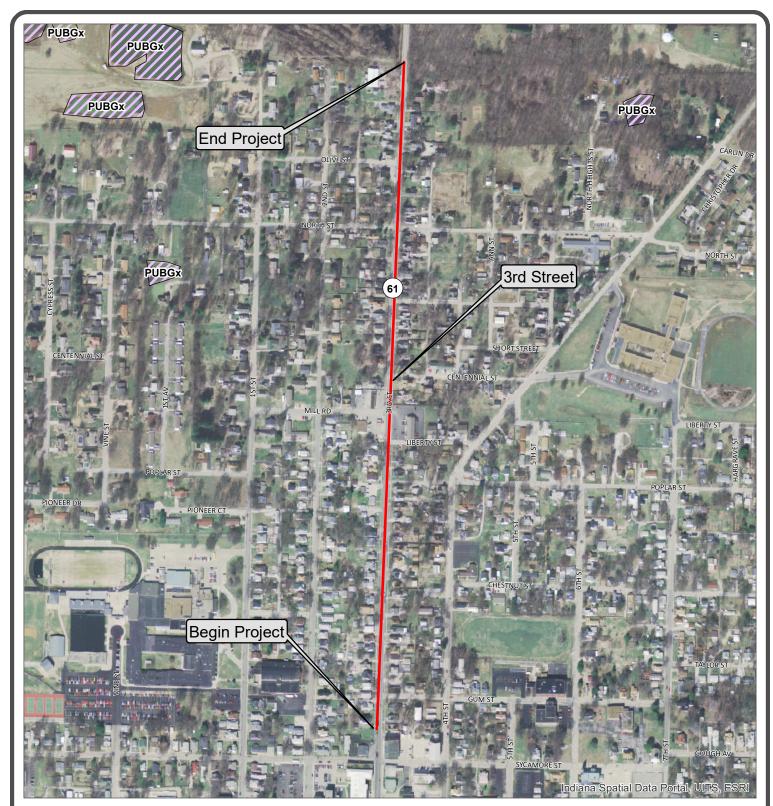
Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long term concerns; G5 = widespread and abundant

globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank

State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked

### **Appendix F:**

### **Water Resources**





Source: U.S. Fish & Wildlife Service

1:6,000 1 in = 500 ft



### Legend





Freshwater Emergent Wetland



Lake Other

June 15, 2018

### **National Wetlands Inventory Map**

Roadway Rehabilitation 3rd Street from Sycamore Street to 460 ft North of Olive Warrick County, Indiana Des. No. 1600891





Source: Indiana Department of Natural Resources 1:6,000

1 in = 500 ft



### Legend

1 % Annual Chance Flood Hazard

Floodway

Floodplain Map

Roadway Rehabilitation 3rd Street from Sycamore Street to 460 ft North of Olive Warrick County, Indiana

Des. No. 1600891

0.2 % Annual Chance Flood Hazard 0.2 % Annual Chance, Protected by Levee Project Alignment

June 15, 2018

# Appendix G: Public Involvement



NOTICE OF SURVEY June 5, 2018

Elks Club No. 1180, Inc. 134 N. Third St. Boonville, IN 47601

> Re: Boonville 3rd Street Improvement Project Booneville, Indiana

### Dear Property Owner:

County records indicate that you own or occupy property near this proposed road project. We have been retained by the City of Boonville, Indiana for this project and our employees will be doing a field survey of the project area in the upcoming weeks. It will be necessary for them to come onto your property to complete the work. They will show you their identification, if you are available. If you have sold this property, or it is occupied by someone else, please let us know the name and address of the new owner or current occupant so we can contact them about the survey.

The survey work will include mapping the location of features such as streets, utilities, buildings, trees, fences, drives, and property corners. This work is needed for the proper planning and design of this road project.

Please be assured of our sincere desire to cause you as little inconvenience as possible during this survey. If any problems do occur, please speak to our field crew or contact me at the telephone number or address shown above.

Sincerely,

BEAM, LONGEST AND NEFF, L.L.C.

Edward J. Sweetland

Survey Department Manager

xc: Job #180031

### **Appendix H:**

**Air Quality** 



State Preservation and Local Initiated Projects FY 2020 - 2024

		al Initia		cts FY 2020 - 2024	<u>.</u>	1		•										
SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	MATCH	2020	2021	2022	2023	2024
Warrick County Warrick County	1593023	Init.	VA VARI	Bridge Inspections	Countywide Bridge Inspection and Inventory Program for Cycle Years 2017-2020	Vincennes	0	Multiple		Local Funds	PE	\$0.00	\$35,178.14	\$29,971.81	\$5,206.33			
	<u> </u>	<u> </u>	ı	L	Cycle Tears 2017-2020					Local Bridge Program	PE	\$140,712.54	\$0.00	\$119,887.23	\$20,825.31			
Warrick County	37940 / 1401384	Init.	IR 1023	Road Reconstruction (3R/4R Standards)	Bell Road from High Point Dr. to Telephone Rd	Vincennes	0	STPBG		Local Funds	CN	\$0.00	\$2,155,000.00	\$2,155,000.00				
					•		<u>'</u>		•	Evansville MPO - PYB	CN	\$5,600,000.00	\$0.00	\$5,600,000.00				
Indiana Department of Transportation	38721 / 1400157	Init.	SR 68	Small Structure Replacement	0.08 mile W of SR 61 Junction	Vincennes	0	STPBG		Bridge Construction	CN	\$248,204.00	\$62,051.00	\$310,255.00				
Warrick County	38918 / 1592154	Init.	ST 1024	Bike/Pedestrian Facilities	Warrick Trail SRTS Vann Rd btwn SR261 and Casey Rd, Casey Rd from Oak Grove Rd	Vincennes	1.34	STPBG		Local Funds	RW	\$0.00	\$13,252.00	\$13,252.00				
		<u> </u>	ı		cases no non car cross na	1		l	1	Local Funds	CN	\$0.00	\$278,800.00		\$278,800.00			
										Evansville MPO	RW	\$53,008.00	\$0.00	\$53,008.00				
										Evansville MPO	CN	\$1,115,200.00	\$0.00		\$1,115,200.00			
Indiana Department of Transportation	39367 / 1593068	Init.	l 64	Replace Superstructure	Over Plum Creek, 3.92 miles W of SR-61, EBL	Vincennes	0	NHPP		Bridge Construction	CN	\$3,281,400.00	\$364,600.00				\$3,646,000.00	
Indiana Department of Transportation	39377 / 1592969	Init.	SR 61	HMA Overlay, Preventive Maintenance	From 0.17 mi E of W Jct SR-62 to E Jct SR-62	Vincennes	.5	STPBG		District Other Construction	CN	\$135,113.60	\$33,778.40	\$168,892.00				
										Road Construction	CN	\$1,275,100.00	\$318,775.00	\$1,593,875.00				
Indiana Department of Transportation	39380 / 1592941	Init.	SR 161	HMA Overlay, Structural	From E Jct with SR-62 to W Jct with SR-68 (RP 15+71 to 27+12	Vincennes	11.37	STPBG		Road Construction	CN	\$3,237,796.80	\$809,449.20	\$4,047,246.00				
Indiana Department of Transportation	39418 / 1593067	Init.		Bridge Replacement, Other Construction	Over Pigeon Creek Overflow, 2 .08 miles E of SR-57	Vincennes	0	STPBG		Bridge Construction	CN	\$1,608,980.80	\$402,245.20		\$2,011,226.00			
Warrick County	39837 / 1600739	Init.	IR 1010	Bridge Replacement, Other Construction	Shilo Road Bridge # 113	Vincennes	.5	STPBG		Local Funds	CN	\$0.00	\$268,750.00		\$10,000.00	\$258,750.00		
	1	1	•	1	•	<u> </u>				Local Bridge Program	CN	\$1,075,000.00	\$0.00		\$40,000.00	\$1,035,000.00		
Boonville	39840 / 1600891	Init.	ST 1025	Road Rehabilitation (3 R/4R Standards)	3rd Street (formerly SR 61)	Vincennes	1	STPBG		Group III Program	RW	\$438,600.00	\$0.00	\$438,600.00				
	1	<u> </u>	ı	<u>I</u>	I	1	ı	l	1	Group III Program	CN	\$2,480,000.00	\$0.00			\$2,480,000.00		
										Local Funds	RW	\$0.00	\$109,650.00	\$109,650.00				

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^{*}Estimated Costs left to Complete Project column is for costs that may extend beyond the four years of a STIP. This column is not fiscally constrained and is for information purposes.

State Preservation and Local Initiated Projects FY 2020 - 2024

SPONSOR	CONTR	STIP	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL	Estimated	PROGRAM	PHASE	FEDERAL	MATCH	2020	2021	2022	2023	2024
		NAME						CATEGORY	Cost left to Complete Project*					2020	1021	2022	2020	2024
oonville	39840 / 1600891	(Init.)	ST 1025	Road Rehabilitation (3 R/4R Standards)	3rd Street (formerly SR 61)	Vincennes	1	STPBG		Local Funds	CN	\$0.00	\$620,000.00			\$620,000.00		
ndiana Department of Transportation	39921 / 1400195	Init.	SR 66	Other Intersection Improvement	At Epworth Road, 0.16 mile E I-69	Vincennes	1.081	NHPP		Mobility Construction	CN	\$3,268,456.80	\$817,114.20	\$175,000.00	\$3,910,571.00			
ndiana Department of Transportation	40051 / 1602256	Init.	SR 68	Bridge Thin Deck Overlay	Over Old Pigeon Creek, 1.56 miles E SR-57	Vincennes	0	STPBG		Bridge Construction	CN	\$2,629,128.80	\$657,282.20	\$3,286,411.00				
ndiana Department of Transportation	40541 / 1700167	Init.	SR 68	Bridge Replacement, Concrete	Over Wallace Creek, 00.95 miles E SR-161	Vincennes	0	STPBG		Bridge Construction	CN	\$662,916.80	\$165,729.20			\$828,646.00		
				<u> </u>	<u> </u>		<u> </u>			Bridge ROW	RW	\$24,000.00	\$6,000.00	\$30,000.00				
ndiana Department of Transportation	40551 / 1700170	Init.	SR 161	Small Structure Replacement	10.46 miles N Jct SR-66	Vincennes	0	STPBG		Bridge Construction	CN	\$1,619,550.40	\$404,887.60			\$2,024,438.00		
				<u> </u>	<u> </u>		<u> </u>			Bridge ROW	RW	\$14,400.00	\$3,600.00	\$18,000.00				
ndiana Department of Transportation	40626 / 1701206	Init.	SR 662	HMA Overlay, Preventive Maintenance	From I-69 to Ellerbusch Road, 1 .51 miles East of I-69	Vincennes	1.555	STPBG		Road Construction	CN	\$701,681.60	\$175,420.40	\$877,102.00				
ndiana Department of Transportation	41407 / 1800176	Init.	SR 61	HMA Overlay, Preventive Maintenance	From 0.14 mi S of I-64 to 0.88 mi N of SR-68 (Lynnville)	Vincennes	1.156	STPBG		Road Construction	CN	\$576,800.00	\$144,200.00				\$721,000.00	
						•	•		•	Road ROW	RW	\$24,000.00	\$6,000.00			\$30,000.00		
ndiana Department of Transportation	41768 / 1802047	Init.	l 64	ITS Traffic Management Systems	CCTV Cameras/Detection from SR 69 to Lanesville (Exit 113)	Vincennes	108.95	NHPP		Statewide Construction	CN	\$1,552,500.00	\$172,500.00					\$1,725,000.0
		l		ı		<u> </u>				Statewide Consulting	PE	\$139,500.00	\$15,500.00				\$155,000.00	
Warrick County	41772 / 1802049	Init.	IR 1004	Road Reconstruction (3R/4R Standards)	Telephone Road from Bell Road to Fuquay Road	Vincennes	0	STPBG		Local Funds	PE	\$0.00	\$350,000.00	\$350,000.00				
	l	l		1	1	1			1	Local Funds	RW	\$0.00	\$500,000.00		\$500,000.00			
										Local Funds	CN	\$0.00	\$830,000.00				\$830,000.00	
										Evansville MPO	CN	\$3,320,000.00	\$0.00				\$3,320,000.00	

**Warrick County Total** 

Federal: \$35,222,050.14 Match: \$9,719,762.54

19,762.54 2020: \$19,376,150.04

2021: \$7,891,828.64

2022: \$7,276,834.00

2023: \$8,672,000.00

2024: \$1,725,000.00



2020-2024

**Transportation Improvement Program** 

### Evansville MPO







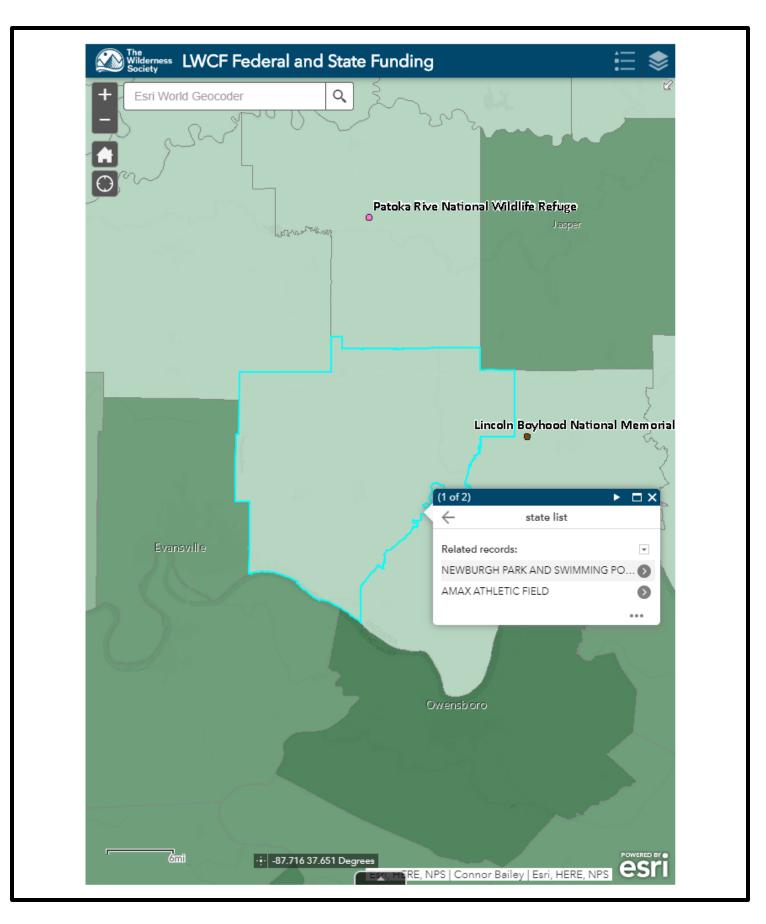


Henderson • Vanderburgh • Warrick

### **Table 5.4**: **TIP Projects Listing Cont.**

Sponsor: City of Boonville																			
Route	Project Limits	roject Limits						All amounts in thousands											
Des#	Planning Reference	Map ID	Phase												anning/ cost to	F	ederal		al Share
Length:	Federal Funding Source	Amendment/	Priase	2	2020		2021		2022	2	2023		2024	1	mplete		Share	LOC	al Share
Description:		Modification Date												"	inpicto				
Third St.	Sycamore St.to 460 ft. past Ol	ive St.	PE													\$	-	\$	-
1600891		12	RW	\$	548											\$	438	\$	110
0.68 mi.	STBG-R		CN					\$	3,100							\$	2,480	\$	620
Road rehabilitation																			
,			PE	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
			RW	\$	548	\$	-	\$	-	\$	-	\$	-	\$	-	\$	438	\$	110
			CN	\$	-	\$	-	\$	3,100	\$	-	\$	-	\$	-	\$	2,480	\$	620
			Total	\$	548	\$	-	\$	3,100	\$	-	\$	-	\$	-	\$	2,918	\$	730
			Federal	\$	438	\$	-	\$	2,480	\$	-	\$	-	\$	-	\$	2,918		
			Local	\$	110	\$	_	\$	620	\$	-	\$	-	\$	-			\$	730

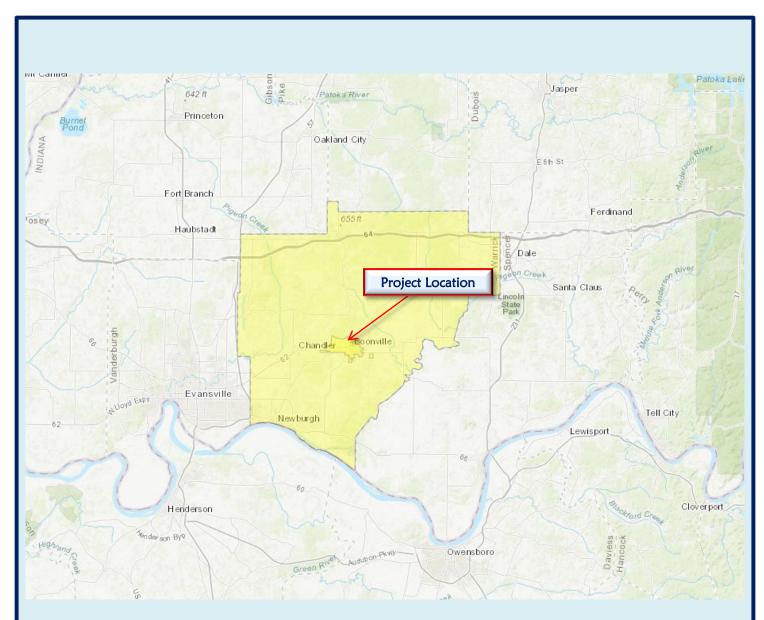
# Appendix I: Additional Studies





### Section 6(f): LWCF Map

Roadway Rehabilitation
3rd Street from Sycamore Street to 460 ft North of Olive Street
Warrick County, Indiana
Des. No. 1600891



Source: US Census Bureau 2017



Affected Community: Boonville, IN

Community of Comparison: Warrick County, IN



### **Environmental Justice**

Pavement Rehabilitation Project
Des No. 1600891
Boonville 3rd Street
Warrick County, Indiana

	Warrick	County, Indiana	Boonville city, Indiana			
	Estimate	Margin of Error	Estimate	Margin of Error		
Total:	61,581	****	6,379	+/-20		
Not Hispanic or Latino:	60,491	****	6,096	+/-207		
White alone	57,148	+/-79	5,848	+/-231		
Black or African American alone	968	+/-120	32	+/-39		
American Indian and Alaska Native alone	108	+/-68	19	+/-24		
Asian alone	1,519	+/-94	0	+/-16		
Native Hawaiian and Other Pacific Islander alone	14	+/-24	0	+/-16		
Some other race alone	32	+/-34	0	+/-16		
Two or more races:	702	+/-187	197	+/-118		
Two races including Some other race	50	+/-54	0	+/-16		
Two races excluding Some other race, and three or more races	652	+/-184	197	+/-118		
Hispanic or Latino:	1,090	****	283	+/-207		
White alone	793	+/-174	283	+/-207		
Black or African American alone	0	+/-27	0	+/-16		
American Indian and Alaska Native alone	0	+/-27	0	+/-16		
Asian alone	0	+/-27	0	+/-16		
Native Hawaiian and Other Pacific Islander alone	0	+/-27	0	+/-16		
Some other race alone	197	+/-160	0	+/-16		
Two or more races:	100	+/-81	0	+/-16		
Two races including Some other race	55	+/-58	0	+/-16		
Two races excluding Some other race, and three or more races	45	+/-62	0	+/-16		

	Warrick	County, Indiana	Boonville city, Indiana			
	Estimate	Margin of Error	Estimate	Margin of Error		
Total:	60,540	+/-239	6,177	+/-40		
Income in the past 12 months below poverty level:	4,656	+/-822	1,088	+/-492		

Source: US Census Bureau

2013 - 2017 American Community Survey 5 Year Estimates



### **Environmental Justice**

Pavement Rehabilitation Project
Des No. 1600891
Boonville 3rd Street
Warrick County, Indiana

Minority by Race	COC Warrick County	AC Boonville, IN
Total Population	61581	6379
Black or African American alone	968	32
American Indian & Alaska Native alone	108	19
Asian alone	1519	0
Native Hawaiian & other Pacific Islander	14	0
Some other race alone	32	0
Two or more races	702	197
Hispanic or Latino	1090	283
Poverty Status	COC Warrick County	AC Boonville, IN
Total Population	60540	6177
Income below poverty level	4656	1088
Table: Minority and Low-I	• •	•
	COC Warrick County	AC Boonville, IN
Percent Minority	7.20	8.32
125% of COC	9.00	
EJ Population of Concern		No
Percent Low-Income	7.69	17.61
125% of COC	9.61	
EJ Population of Concern		Yes

Source: US Census Bureau

2013 - 2017 American Community Survey 5 Year Estimates



### **Environmental Justice**

Pavement Rehabilitation Project
Des No. 1600891
Boonville 3rd Street
Warrick County, Indiana