Road !	No./County:	Old Grand I	Beach Road, La	aPorte Coun	ty	
Design	nation Number:	1592335				
After co	et Description/Term	Drive to India	ana-Michigan S	tate Line		il East/El Portal
X		on, Level 2 – The pro Level Thresholds. Re				
		on, Level 3 – The pro Level Thresholds. Re				
		on, Level 4 – The pro Level Thresholds. Rec				cal Exclusion Ma
		essment (EA) – EAs remine the effects on the				
		nine the effects on the for Environmental Services	environment. Re	quired Signator	ries: ES, FH	WA
	is necessary to detern or documents prepared by or o release for public involvem	nine the effects on the for Environmental Services	environment. Re	quired Signato	ries: ES, FH	WA
located to	is necessary to detern or documents prepared by or o release for public involvem	nine the effects on the for Environmental Services ent or sign for approval.	environment. Re Division, it is not nec	quired Signato	ries: ES, FH	WA in which the project is
Approv	is necessary to detern or documents prepared by or o release for public involvem	nine the effects on the for Environmental Services ent or sign for approval.  Date  FHWA Signature	environment. Re Division, it is not nec	quired Signato: cessary for the ESM nature	ries: ES, FH	WA in which the project is
Approv	is necessary to detern or documents prepared by or o release for public involvem  val  ESM Signature	nine the effects on the for Environmental Services ent or sign for approval.  Date  FHWA Signature	environment. Re Division, it is not nec	quired Signato cessary for the ESP nature  Date	ries: ES, FH	WA in which the project is  Date
Approv	is necessary to determ or documents prepared by or o release for public involvem  val  ESM Signature  e for Public Involvement	nine the effects on the for Environmental Services ent or sign for approval.  Date  FHWA Signature	environment. Re Division, it is not nec	puired Signator cessary for the ESM nature  Date	ries: ES, FH  M of the district	WA in which the project is  Date
Approv  Release N/A ESM Ir	is necessary to determ or documents prepared by or o release for public involvem  val  ESM Signature  e for Public Involvement	Date  This is a signature  The property of the provided and the provided a	ES Sign ES Initia	pquired Signato ressary for the ESI mature  Date	ries: ES, FH M of the district  2/25/ Date	WA in which the project is  Date

County _	LaPorte	Route	Old Grand Beach Road	Des. No.	1592335
		el of public involv	BLIC INVOLVEME	and continuous o	
Doe If No		bridge processed	nent should be commensur under the Historic Bridges PA	Yes	No X
	aring is required for all histor O, and the ACHP.	ric bridges process	sed under the Historic Bridges	s Programmatic A	lgreement between INDOT,
Discuss wha	Notice of entry letters were renotifying them about the progrea. A sample copy of the number of the project will meet the min (INDOT) Public Involvement comment and/or request a pur release of this document for project.	nailed to potentially ject and that individuation of entry letter in imum requirements to Manual which requirements. Therefolds the aring. Therefolds are the statements of the statement of the	letters to affected property (c.) have occurred for this property owners near the talls responsible for land survey as included in Appendix G1.  described in the current Indianatives the project sponsor to offer ore, a legal notice will appear in This document will be revised at	ne project area on A and field activities in a Department of Tracthe public an oppora local publication	april 20, 2016, may be seen in the ansportation tunity to submit contingent upon the
	troversy on Environmenta ect involve substantial contr		community and/or natural res	source impacts?	Yes No X
	At this time, there is no sub	stantial public contro	oversy concerning impacts to the	community or to n	atural resources.

Marquette Greenway – Singing Sands Connector Date: January 22, 2021

This is page 2 of 20 Project name:

				d Grand Beach	_		
County	LaPorte		Route Ro	oad	Des.	No. <u>1592335</u>	<u> </u>
Par	t II - Gene	eral Project	Identificati	on, Descript	ion, and D	esian Inf	ormation
<u>1 41</u>	tii Conc	<u> </u>	<u>raominioan</u>	on, Beceript	ion, ana b	ooigii iiii	<u> Jimation</u>
Sponsor o	of the Project:	LaPorte	County		INDOT	District: LaPo	orte
	me of the Facility		nd Beach Road			<u> </u>	
Funding S	Source ( <i>mark all</i>	that apply): Fe	ederal X State	e Local X	Other*		
*If other is	s selected, pleas	se identify the fund	ing source:				
PURPOS	SE AND NEE	D:					
Describe the in this sect	he transportation ion. (Refer to th	n problem that the ne CE Manual, Sec	project will address tion IV.B.2. Purpos	s. The solution to the se and Need)	traffic problem	should NOT be	discussed
There curr	ently are no facili	ities other than roady		n Singing Sands Trail ( zed vehicular traffic to n state line.			
The purpo	se is to improve t	he connectivity for p	edestrian and non-m	otorized traffic betwee	en SST and the Mi	ichigan state line.	
PROJEC	CT DESCRIPT	ION (PREFERR	ED ALTERNATI	VE):			
County:	LaPorte		Municipality:	Michiana Springs			
Limits of I	Proposed Work:	From the intersec	ction of El Portal Dri	ve and Old Grand Bea	ch Road to the Inc	diana/Michigan st	ate line
Total Wor	rk Length:	1 Mile	(s)	Total Work Area:	N/A	Acre(s)	
			change Justification nal approval for this	n Study (IMS/IJS) red s project?	quired?	Yes <sup>1</sup> Date:	No X
	or IJS is require f the IMS/IJS.	d; a copy of the ap	proved CE/EA dod	cument must be subr	mitted to the FHV	WA with a reque	st for final
preferred a	alternative. Inclu		logical termini. Di	in detail the scope o iscuss any major issu			
preferred a	alternative. Inclu	ıde a discussion ol	logical termini. Di				
preferred a	alternative. Inclu	ıde a discussion ol	logical termini. Di				
preferred a	alternative. Inclu	ıde a discussion ol	logical termini. Di				

_		_	Old Grand Beach		
County	LaPorte	Route	Road	Des. No.	1592335
		LaPorte County, near Michiar Road or CR 600W to the sou			Grand Beach Road
		ane, residential road that runs p to the Indiana-Michigan state		are no sidewalks currently	on Old Grand
will be offse Indiana/Mic	et from the edge of par chigan state line. All c	project will install a 10-foot-worden on Old Grand Beach Foonstruction activities will take DA-compliant curb ramps and	Road by 4 to 5 feet and w place within 30 feet from	rill connect to Old Grand B m edge of the pavement on	each Road at the Old Grand Beach
construction jurisdictions	activities. The terminal limits of the funding	) for this project will include and for this project are at the integrage agency, the Indiana/Michigan ovide continuity of access and	ersection of El Portal Dri n state line. The northern	ive and Old Grand Beach F	Road to the
OTHER A	LTERNATIVES (	CONSIDERED:			
Describe all was not sele		es, including the Do-Nothin	g Alternative and an e	xplanation of why each	discarded alternative
motorized c of providing longer be co	onnectivity and this algorithms connectivity to pedes	ld have no cost and no enviror ternative would not provide the strian and non-motorized traffi ered.	nat. This alternative woul	ld not meet the purpose and	d need of this project
It would no It would no It would no It would no It would res	t correct existing ca t correct existing sa t correct the existing t correct existing de sult in serious impac		encies; aintenance problems; ad general welfare of th	or	X
ROADWA	Y CHARACTER:	Old Grand Beach Road	d		
Current AD Design Ho	Classification: DT: ur Volume (DHV): Speed (mph):	Minor arterial  VPD (20-  Truck Percer  35 Legal Speed	ntage (%)	.DT:V 	/PD (20)

Marquette Greenway – Singing Sands Connector Date: January 22, 2021

This is page 4 of 20 Project name:

County <u>LaPorte</u>		Route Road	rand Beach	Des. I	No. <u>1592335</u>
	Existing	D	roposed		
	Laisting		Toposeu		
Number of Lanes:	2	2			
Type of Lanes:	Travel	Tra	ivel		
Pavement Width:	20 ft.		20 ft.		
Shoulder Width:	1 ft.		1 ft.		
Median Width:	N/A ft.	<u> </u>	N/A ft.		
Sidewalk Width:	N/A ft.		10 ft.		
Setting: Topography:	Urban Level	X Suburban Rolling	Rural Hilly		
If the proposed action has m		s section should be	e filled out for each	n roadway.	
DESIGN CRITERIA FOR	BRIDGES.				
Structure/NBI Number(s):	N/A		Sufficiency Ratir	ng: N/A	
Otractare/NDF Namber(3).	IV/A		Odmolency Ratii		Source of Information)
				8	, ,
	Existing	Р	roposed		
Bridge Type:					
Number of Spans:					
Weight Restrictions:	ton		ton		
Height Restrictions:	ft.		ft.		
Curb to Curb Width:	ft.		ft.		
Outside to Outside Width:	ft.		ft.		
Shoulder Width:	ft.		ft.		
Length of Channel Work:			ft.		
	<u> </u>	<u> </u>			
Describe bridges and	structures; provide s	pecific location infe	ormation for small	structures.	
Remarks: No bridge	s or small structures ar	e located within the	project area. No imp	pacts are expecte	d.
				Vaa	No N/A
Will the structure be rehabil				Yes	No N/A X
If the proposed action has m	ultiple bridges or sm	all structures, this s	section should be	filled out for ea	ch structure.
MAINTENANCE OF TRA	AFFIC (MOT) DUR	ING CONSTRU	CTION:		
					Yes No
Is a temporary bridge propo					X
Is a temporary roadway pro			0/1 "		X
Will the project involve the				emarks)	X
Provisions will be made					X
Provisions will be made					X
Provisions will be made				antin-0	X
Will the proposed MOT sub	stantially change the	environmental col	nsequences of the	e action?	X
This is page 5 of 20 F	Project name: N	Iarquette Greenway	<ul> <li>Singing Sands Co</li> </ul>	nnector	Date: January 22, 2021

County	LaPorte		Route	Old Grand Bea	ach	Des. No	. 1592335	
Is there sul	bstantial cor	ntroversy associated w	vith the propos	sed method for	MOT?			X
Remarks:	may be im The traffic emergency completion INDOT's V	enance of traffic for this plemented by using advantage restrictions may pose a services); however, no a. If partial lane closures Work Zone Traffic Contragonsibility of the project y construction that would	ance warning si temporary inco significant dela are needed, the col Guidelines.	igns and flaggers onvenience to tra ays are anticipate e contractor mus otify school corpo	s to restrict traveling motoried and all inco	affic as needed for sts (including scho onveniences will co raffic control guide	construction ac ool buses and ease upon proje elines as laid ou	ct it in
ESTIMAT	ED PROJE	ECT COST AND SO	HEDULE:					
Date projec	ng: \$ <u>(fro</u>	of Construction: I ed into STIP July 2	Right-of-Way: =all, 2022 2, 2019 <b>No</b>	\$ <u>132,275</u>	(2021)	Construction:	\$ <u>956,748</u>	(2023)
If yes,								
Name of I	-	orthwestern Indiana R ommission (NIRPC)	egional Plann	ing				
Location	of Project in	TIP Amendment 20	)-06.3					
Date of in	corporation	by reference into the	STIP July	2, 2019				
DIGUE	- 14/41/							

### **RIGHT OF WAY:**

	Amount	(acres)
Land Use Impacts	Permanent	Temporary
Residential	2.18	0
Commercial	0	0
Agricultural	0	0
Forest	0	0
Wetlands	0	0
Other: Reacquired	1.12	0
Other:	0	0
TOTAL	3.30	0

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.

This is page 6 of 20	Project name:	Marguette Greenway – Singing Sands Connector	Date:	January 22, 2021	

County _	LaPorte	Route	Old Grand Beach Road	Des. No.	1592335
Remarks:	The existing right-of-way wipavement. Portions of Old Countries of the exist of-way. The project requires new, permanent right-of-way during the development of the coordination letter that was so If the scope of work or perm Division (ESD) and the IND	arand Beach Road we ting roadway. This property approximately 2.18 y limits will extend 4 his project and it is no sent to various coordinates and the transfer of the transfe	ere not properly recorded roject will require 1.12 a acres of new permanent 0 feet from edge of pave ow expected that there we inating agencies on Dece- ight-of-way amounts cha	I and reacquisition will be a cres of reacquisition of appright-of-way from resident ment. The right-of-way to till be less right-of-way takember 20, 2019 (Appendix ange, the INDOT Environment)	required to establish parent existing rightial properties. The cals have been refined en as said in the early C1).
Ac	<u>irt III – Identificat</u> <u>stion</u> A – ECOLOGICAL RES		aluation of Im	pacts of the Pr	<u>oposed</u>
			_		
Federal Will State Natur Nationwide	Livers, Watercourses & Jund and Scenic Rivers al, Scenic or Recreational R Rivers Inventory (NRI) listed By Rivers List for Indiana Vaterways	ivers	_	Yes Im	No
Remarks:	Based on a desktop review, a (Appendix B3), and the water stream segments located with jurisdictional ditches within A Waters of the U.S. Determ Appendix F1 for the Waters any resources that are likely (USACE) makes all final detection between the Early coordination letters were Department of Natural Resources (Augency recommendations are agency recommendations are	er resources map in the hin the 0.5 mile searce or adjacent to the province of the US Determination of the US Determinations regarding the use of the US Determinations regarding the sent on December urces — Department of the und in Appendix C1.  I on January 10, 2020 W responded via emappendix C11). The US	the Red Flag Investigation the radius of the project a poject area. No impacts an elineation Report was contained to Wetland Delineating the US within the project grid jurisdiction.  The 20, 2019, to United State of Fish and Wildlife (IDIO), but did not include an include an include an include an include an include and include a	n (RFI) report, (Appendix rea. There are no streams, re expected.  Impleted on March 6, 2020 on Report. It was determined area. The US Army Contest Fish and Wildlife Servin NR-DFW), and USACE. A sy recommendations for potential did not include any recommendation recommendatio	E9), there are 11 rivers, watercourse,  . Please refer to ed that there were not ps of Engineers  ce (USFWS), Indiana n example early  ential water resources ommendations for quest. All applicable
This is p	page 7 of 20 Project name	e: Marquette G	reenway – Singing Sand	s Connector Dat	e: January 22, 2021

County	I aDanta		Pouto	Old Grand E	Beach	Dog No. 1502225	
County _	LaPorte		Route	Road		Des. No. <u>1592335</u>	
Other Surfa	aa Matara				<u>Presence</u>	Impacts Vac	
Reservoirs	ce waters					Yes No	
Lakes							
Farm Ponds							
Detention Ba							
	r Management Facili	ties					
Other:							
Remarks:	(Appendix B3) and t mile search radius. N A Waters of the U.S. Appendix F1 for the lakes, reservoirs, fart final determinations	he water resolution of these  Determinati Waters of the ponds or designed in ponds or designe	burces map in the lakes are located ion / Wetland Dele US Determinate letention basins lerisdiction.	e RFI report (Ad within or adjulineation Reportion / Wetland ocated within	Appendix E9), ther accent to the project of was completed Delineation Report or adjacent to the	e aerial map of the project area re are five lakes located within the 0.5 rt area. No impacts are expected.  on March 6, 2020. Please refer to rt. It was determined that there were no project area. The USACE makes all mendations for potential surface water	
	resources (Appendix recommendations for	C20). IDNR r potential su	R-DFW responde arface water resou	d via email on urces (Append	January 15, 2020 lix C11). The USA	but did not include any CE did not respond to the early Environmental Commitments section of	
		as this proje				ubject to the Lake Michigan Federal will be done within Lake Michigan or	
					Presence	<u>Impacts</u>	
Wetlands						Yes No	
Total wetla	nd area: N/A	acre(s	) Total	wetland area	impacted:	N/A acre(s)	
(If a determi	nation has not been	made for no	on-isolated/isola	ated wetland	s fill in the total	wetland area impacted above.)	
(ii a aotoiiiii	nation had not boom	mado foi m		atoa wotlana	o, illi ili tilo total	wouldn't area impacted above.	
Wetland N	c. Classification	Total Size (Acres)	Impacted Acres	Comme	nts		
N/A	N/A	N/A	N/A	N/A			
			Do	ocumentatio	<u>on</u>	ES Approval Dates	
•	Mark all that apply)					[	
Wetland Det				X		N/A; LPA project	
	ineation ated Waters Determ	ination		X		N/A; LPA project	
Mitigation Pl		manom					
<b>5</b>							
would resu Substar Substar	nts that will not res It in (Mark all that ap ntial adverse impacts ntially increased proj engineering, traffic,	oply and exp s to adjacen ect costs;	olain): it homes, busin	ess or other		ties;	
This is p	age 8 of 20 Projec	ct name:	Marquette Gr	eenway – Sing	ging Sands Connec	ctor Date: January 22, 2021	

County	LaPorte	Route	Old Grand Beach Road	Des. No.	1592335
	antial adverse social, economic oject not meeting the identified		al impacts, or		
Measures a	Based on a review of the Nation (https://www.fws.gov/wetlands topographic map (Appendix B2 search radius of the project area A Waters of the U.S. Determine Appendix F1 for the Waters of wetland resources within the presources.  Early coordination letters were not include any recommendation but did not include any recommendation early coordination request. All section of this CE document.	nal Wetlands Inverded to the Method of the Method of the Method of the US Determination of the US Determination of the US Determination of the US Determination of the US Determinations for wetland (Appendations for wetland (Appendations for wetland)	ntory (NWI) online mapper, a site visit on October 4, ort (Appendix E9), there at tlands present within or adjulineation Report was comption / Wetland Delineation SACE makes all final determinant of C20, 2019. USFWS responding C20, 100 (Appendix C20).	r 2019 by VS Engineering re 39 wetlands located w jacent to the project area. bleted on March 6, 2020. <i>Report</i> . It was determine minations regarding juris ded via email on January responded via email on C11). The USACE did no	Please refer to ed that there were no edictional water  10, 2020, but did January 15, 2020, or respond to the
	Habitat High Quality Habitat  Based on a desktop review, a si (Appendix B3), land use in all forested and roadside vegetatio oak (Quercus alba), flowering albidum). There will be approx 10 foot wide paved trail on the pavement on Old Grand Beach strip along Old Grand Beach D winter of 2022-2023. Excavati  Early coordination letters were not include any recommendation	te visit on October four quadrants of to the four quadrants of to the four quadrants of to the four quadrants of the four quadrants	r 4, 2019, by VS Engineeriche project area is primarily fentucky bluegrass ( <i>Poa proflorida</i> ), sugar maple ( <i>Ace</i> of tree clearing for the installed Grand Beach Drive. The et. Approximately 0.6 acrestruction of the trail next to be et.  20, 2019. USFWS responder.	ng, and the aerial map of a forested. The project are atensis), pin oak (Querci r saccharum), and sassaf llation of the trail. This per trail will be offset from of trees will need to be a the road. The trees will be ded via email on January	the project area ea consists of us palustris), white ras (Sassafras project will install a the edge of removed in a narrow re removed in the
	2020, but did not include any recommendations are included and incidences of animal movement, consideration of utilizing wildless.	ecommendations for in the Environment sobserved in the p	or terrestrial habitat resource tal Commitments section of project area, or if bridges an	ces (Appendix C11). All of this CE document.	applicable agency
	proposed project located within rst features located within or ac	•	•		No X X
	If yes, will the project impact arks box to identify any karst fe October 13, 1993)	•		restigation must compl	y with the Karst
This is	page 9 of 20 Project name:	Marquette Gr	reenway – Singing Sands C	Connector Date	e:January 22, 2021

County	LaPorte	Route	Old Grand Beach Road	Des. No.	1592335
Remarks:	Based on a desktop review, the 13, 1993 Memorandum of Unda report (Appendix E9), and India early coordination response, the area (Appendix C16). IGS state floodway potential. Response frexpected.	erstanding. Accor anaMap, there are a Indiana Geologi d that the geologi	ding to the topographic n no karst features identifi- cal Survey (IGS) did not cal hazards in the project	nap of the project area (Ap ed within or adjacent to the indicate that karst features area are a high liquefaction	opendix B2), the RFI the project area. In the state exist in the project on potential and a
Within t Any crit Federal State sp	ed or Endangered Species the known range of any federal s ical habitat identified within proj I species found in project area (base on 7 formal consultation require	ect area pased upon info sed upon consu	Itation with IDNR)  Yes	Presence  X  No  X	Impacts Yes No X
Remarks:	Based on a desktop review and IDNR LaPorte County Endange Appendix E12. The highlighted county. According to the IDNR Natural Heritage Program's Dat within 0.5 mile radius of the protristachyum), and Shining ladies result of this project.  Project information was submitt an official species list was gene Indiana bat (Myotis sodalis) and species were found within or ad	ered, Threatened, species on the list-DFW early coordabase has been cloject area: Finely-s'-tresses ( <i>Spiran</i> ted through the Urated (Appendix del the federally threated).	and Rare (ETR) Species Is treflect the federal and sidination response letter dispersed. IDNR-DFW states are used to the sed of the	List has been checked and tate identified ETR species ated January 15, 2020 (Apred that there are three ETF conervia), Deep-root clubit stated that impacts are not planning and Consultationed within range of the fed ared bat (Myotis septentrion)	is included in as located within the opendix C11), the appendix C11), the appendix C11) and constant of anticipated as a located and (IPaC) portal, and consulty endangered malis). No additional
	The project qualifies for the Rat bat (NLEB), dated May 2016 (r Transit Administration (FTA), a the responses provided, the proj INDOT reviewed and verified t (Appendix C28). No response v they concur with the finding. A Environmental Commitments so	nge-wide Program evised February 2 and USFWS. An of ect was found to he effect finding of vas received from voidance and Mit	nmatic Informal Consulta 2018), between FHWA, F effect determination key v "Not Likely to Adversely on May 5, 2020, and requ USFWS within the 14-d igation Measures (AMMs	tion for the Indiana bat ar dederal Railroad Administ was completed on May 5, Affect" the Indiana bat a dested USFWS's review of ay review period; therefor	ad northern long-eared ration (FRA), Federal 2020, and based on nd/or the NLEB. f the finding e, it was concluded
	The official species list generate not qualify for the USFWS Interesponded on January 10, 2020, plover ( <i>Charadrius melodus</i> ), Nattlesnake ( <i>Sistrurus catenatus</i> USFWS stated that there is no hamitchellii), or the eastern massaneed for further consultation on rattlesnake as required under Set USFWS.	rim Policy. Early stating that the p Aitchell's satyr bu ) as well as the twa habitat for the pip sauga rattlesnake this project for the	coordination was sent to roposed project is within atterfly (Neonympha mitter operations) proviously mentioned by ing plover (Charadrius magnetics), so the piping plover, Mitchell	USFWS on December 20 the range of the federally hellii) and the threatened of the species, the Indiana baselodus), Mitchell's satyr lettere is no expected impart's satyr butterfly, and east	, 2019. USFWS endangered piping eastern massasauga at and the NLEB. outterfly ( <i>Neonympha</i> ct. This precludes the tern massasauga

This is page 10 of 20 Project name:

Marquette Greenway – Singing Sands Connector Date: January 22, 2021

County _	LaPorte	Route	Old Grand B Road	each	Des. No.	1592335
SECTION	B – OTHER RESOUR	CES				
Wellhea Public W Residen Source V Sole So	/ater Resources d Protection Area /ater System(s) tial Well(s) //ater Protection Area(s) urce Aquifer (SSA)	llowing:		Presence X	Yes	No X
If a SSA is present, answer the following:  Yes  No  Is the Project in the St. Joseph Aquifer System? Is the FHWA/EPA SSA MOU Applicable? Initial Groundwater Assessment Required?  Detailed Groundwater Assessment Required?						
Remarks:	The project is located in LaPorte County, which is not located within the area of the St. Joseph Sole Source Aquifer, the only legally designated sole source aquifer in the state of Indiana. Therefore, the FHWA/EPA Sole Source Aquifer Memorandum of Understanding (MOU) is not applicable to this project. Therefore, a detailed groundwater assessment is not needed, and no impacts are expected.  The IDEM's Wellhead Proximity Determinator website (http://www.in.gov/idem/cleanwater/pages/wellhead) was accessed on December 20, 2019, by VS Engineering. This project is not located within a Wellhead Protection Area or Source Water Area. No impacts are expected.  The Indiana Department of Natural Resources Water Well Record Database website (https://www.in.gov/dnr/water/3595.htm) was accessed on September 24, 2019, by VS Engineering. There are wells mapped adjacent to or within the project area. These wells will not be impacted as the depth of excavation will be no more than three feet. Therefore, no impacts are expected. Should it be determined during the right-of-way phase that these wells are affected, a cost to cure will likely be included in the appraisal to restore the wells.  Based on a desktop review of the INDOT MS4 website (https://entapps.indot.in.gov/MS4/) by VS Engineering on September 24, 2019, and the RFI report, this project is located in an Urban Area Boundary (UAB) location. An early coordination letter was sent on December 20, 2019, to the LaPorte County MS4 Coordinator. The MS4 coordinator did not respond within the 30-day time frame.  Based on a desktop review, a site visit on October 4, 2019, by VS Engineering, the aerial map of the project area (Appendix B3) no public water systems were identified. Therefore, no impacts are expected.					
Transve Project I	ns dinal Encroachment rse Encroachment ocated within a regulated ocated in floodplain within	•	m from projec	<u>Presence</u>	Yes	No
Discuss impa Remarks:	The Indiana Department of (https://dnrmaps.dnr.in.go located in a regulatory flo project does not fall within are expected.	of Natural Resources Industry/appsphp/fdms/) was a odplain as determined f	diana Floodway accessed on Sep from approved 1	V Information Po otember 26, 2019 IDNR floodplain	rtal website ), by VS Engineerin maps (Appendix F	g. This project is not 36). Therefore, this

This is page 11 of 20 Project name:

Marquette Greenway – Singing Sands Connector Date: January 22, 2021

County	LaPorte	Route	Old Grand Beach Road	Des. No. <u>1592335</u>
	ural Lands armland (per NRCS)		Presence	Impacts Yes No
	nts (from Section VII of CPA-1) r greater, see CE Manual for guida			
See CE Man Remarks:	(Appendix B3), there is no land within or adjacent to the project are expected. An early coordin	ite visit on Octobe I that meets the de et area. The requir- ation letter was se the early coordinat	er 15, 2019, by VS Enginee efinition of farmland under ements of the FPPA do not nt on December 20, 2019, t tion request on December 3	ring, the aerial map of the project area the Farmland Protection Policy Act (FPPA) apply to this project; therefore, no impacts o Natural Resources Conservation Services 0, 2019, stating that the proposed project will
SECTION	C – CULTURAL RESOUR	CES		
Minor Projec	ts PA Clearance	Eligible and/o	January 10, 2	
Results of R	Research	Resource P	resent	
Archaeology NRHP Buildi NRHP Distri NRHP Bridg	ings/Site(s) ct(s)			
Project Effe	ct			
No Historic F	Properties Affected	No Adverse E	Effect Adve	rse Effect
Documentat	<u>D</u> tion (mark all that apply)	ocumentation Prepared	ES/FHWA Approval Date(s)	SHPO Approval Date(s)
Historic Prop Archaeologic Archaeologic Archaeologic Archaeologic Archaeologic	cal Records Check/ Review cal Phase la Survey Report cal Phase Ic Survey Report cal Phase II Investigation Report cal Phase III Data Recovery and Effect Determination	X	January 8, 2020	N/A
Memorandur	m of Agreement (MOA)		MOA Signature Dates(	List all signatories)
This is p	page 12 of 20 Project name:	Marquette G	reenway – Singing Sands C	Connector Date: January 22, 202

County	LaPorte	Route	Old Grand Beach Road	Des. No.	1592335		
County	Lar ofte	rtouto	Roud	200.110.	1372333		
categories o in local new	efforts to document cult outlined in the remarks box rspapers. Please indicate further Section 106 work v	<ul> <li>the completion of the publication date</li> </ul>	the Section 106 proce e, name of paper(s) an	ss requires that a Legal nd the comment period	Notice be published deadline. Likewise		
Remarks:	On January 10, 2020, the INDOT Cultural Resource Office (CRO) determined that this project falls within the guidelines of a Category B, Type 8 under the Minor Projects Programmatic Agreement (Appendix D1). This determination states that construction of pedestrian facilities that is not adjacent to or within a National Register-listed or National Register-eligible district or individual aboveground resource and that work occurring in undisturbed soils will have an archaeological investigation conducted. A Phase Ia Archaeological Records Review and Reconnaissance was conducted by Cardno on December 17, 2019. No archaeological resources were discovered during survey. INDOT-CRO stated, "if any archaeological artifacts or human remains are uncovered during construction, demolition, or earth moving activities, construction in the immediate area of the find will be stopped, and the INDOT Cultural Resources Section and the Division of Historic Preservation and Archaeology will be notified immediately." No further consultation is required. This completes the Section 106 process and the responsibilities of FHWA under Section 106 have been fulfilled.						
SECTION	D – SECTION 4(f) RE	SOURCES/ SECTION	ON 6(f) RESOURCE	S			
Section 4(	f) Involvement (mark all t	hat apply)	Presence	Use	<u> </u>		
Publicl Publicl	ther Recreational Land y owned park y owned recreation area (school, state/national fore	est, bikeway, etc.)	resence	Yes No			
"D	ogrammatic Section 4(f)* e minimis" Impact* dividual Section 4(f)		Evaluations Prepared	FHWA Approval date			
Nation Nation State V	Waterfowl Refuges al Wildlife Refuge al Natural Landmark Vildlife Area Nature Preserve		Presence	Yes No			
"De	ogrammatic Section 4(f)* e minimis" Impact* lividual Section 4(f)		Evaluations Prepared Presence	FHWA Approval date			
Historic Pr Sites e	roperties ligible and/or listed on the	NRHP		Yes No			
This is	page 13 of 20 Project n	ame: <u>Marquette</u> Gr	reenway – Singing Sands	Connector Date	e: _ January 22, 2021		

County	LaPorte	Route	Old Grand Beach Road	_ Des. No.	1592335
			<b>Evaluations</b>		
"De	grammatic Section 4(f)* e minimis" Impact* ividual Section 4(f)		<u>Prepared</u>	FHWA Approval date	
	oval of the environmental of discussed below.	document also serv	ves as approval of ar	ny Section 4f Programm	natic and/or De minimis
cumentati dividual Se scuss prop	grammatic Section 4(f) and on must be separate Draf ection 4(f) evaluations ple oosed alternatives that satis	ft and Final docum ase refer to the "F	nents. For further dis Procedural Manual fo	cussions on Programm	natic, "de minimis" and
emarks:	Section 4(f) of the US Depa federally funded transportar publicly owned parks, recre listed historic properties reg	tion facilities unless t eation areas, wildlife	there is no feasible and por waterfowl refuges, ar	orudent alternative. The land and National Register of Hi	w applies to significant storic Places eligible or
	Based on a desktop review, (Appendix B3), and the RF radius. There is one Section Phase 3. This planned trail Connector segment. This consegment at any point during expected.	I report (Appendix E a 4(f) resource adjaces segment is part of the connecting trail will no	1), there four Section 4( ent to the project area, the Marquette Greenway pot impede or restrict acc	f) resources located within e Marquette Greenway Trolan and as such will conne ess to the planned Singing	n the 0.5 mile search ail – Singing Sands ect to the Singing Sands Sands Phase 3 trail
	An early coordination letter December 20, 2019, but no		-	or of the Singing Sands Ph	ase 3 segment, on
ection 6(f	) Involvement		Presence	<u>Use</u>	
ection 6(f	) Property			Yes No	]
		of the requirement	s of Section 6(f) Disc	cuss any Section 6(f) inv	volvement.
	The US Land and Water Co	onservation Fund Act	of 1965 established the	Land and Water Conserv	ation Fund (LWCF),
scuss prop Pemarks:		onservation Fund Act rve, develop, and assu ds purchased with LW operties list provided se properties are loca	of 1965 established the ure accessibility to outdown VCF monies to a non-reby INDOT revealed a totel within or adjacent to	e Land and Water Conserve oor recreation resources. S creational use.	ation Fund (LWCF), lection 6(f) of this Act
	The US Land and Water Co which was created to presen prohibits conversion of land A review of Section 6(f) pro (Appendix II). None of the	onservation Fund Act rve, develop, and assu ds purchased with LW operties list provided se properties are loca	of 1965 established the ure accessibility to outdown VCF monies to a non-reby INDOT revealed a totel within or adjacent to	e Land and Water Conserve oor recreation resources. S creational use.	ation Fund (LWCF), lection 6(f) of this Act
	The US Land and Water Co which was created to presen prohibits conversion of land A review of Section 6(f) pro (Appendix II). None of the	onservation Fund Act rve, develop, and assu ds purchased with LW operties list provided se properties are loca	of 1965 established the ure accessibility to outdown VCF monies to a non-reby INDOT revealed a totel within or adjacent to	e Land and Water Conserve oor recreation resources. S creational use.	ation Fund (LWCF), lection 6(f) of this Act
	The US Land and Water Co which was created to presen prohibits conversion of land A review of Section 6(f) pro (Appendix II). None of the	onservation Fund Act rve, develop, and assu ds purchased with LW operties list provided se properties are loca	of 1965 established the ure accessibility to outdown VCF monies to a non-reby INDOT revealed a totel within or adjacent to	e Land and Water Conserve oor recreation resources. S creational use.	ation Fund (LWCF), lection 6(f) of this Act
	The US Land and Water Co which was created to presen prohibits conversion of land A review of Section 6(f) pro (Appendix II). None of the	onservation Fund Act rve, develop, and assu ds purchased with LW operties list provided se properties are loca	of 1965 established the ure accessibility to outdown VCF monies to a non-reby INDOT revealed a totel within or adjacent to	e Land and Water Conserve oor recreation resources. S creational use.	ation Fund (LWCF), lection 6(f) of this Act n LaPorte County

This is page 14 of 20 Project name:

Marquette Greenway – Singing Sands Connector Date: January 22, 2021

County	Cold Grand Beach           LaPorte         Route         Road         Des. No.         1592335
SECTION	E – Air Quality
	Quality
Is	the project in an air quality non-attainment or maintenance area?  Yes  X
If `	/ES, then: Is the project in the most current MPO TIP?  X  X
	Is the project exempt from conformity?  If the project is NOT exempt from conformity, then:
	Is the project in the Transportation Plan (TP)? Is a hot spot analysis required (CO/PM)?
Le	vel of MSAT Analysis required?
Le	vel 1a X Level 1b Level 2 Level 3 Level 4 Level 5
Remarks:	This project is included in Fiscal Year (FY) 2020-2024 Northwestern Indiana Regional Planning Commission (NIRPC)
	Transportation Improvement Program (TIP) and the 2020-2024 Statewide Transportation Improvement Program (STIP) (Appendix H1-H2).
	This project is located in LaPorte County, which is currently in a maintenance area for Ozone, which was revoked in
	2015 but is being evaluated for conformity due to the February 16, 2018, South Coast Air Quality Management District V. Environmental Protection Agency, Et. Al. Decision. The project's design concept and scope are accurately reflected in both the NIRPC MPO Transportation Plan (TP) and the Transportation Improvement Program (TIP) and both
	conform to the State Implementation Plan (SIP). Therefore, conformity requirements of 40 CFR 93 have been met.
	This project is of a type qualifying as a categorical exclusion (Group 1) under 23 CFR 771.117(c), or exempt under the Clean Air Act conformity rule under 40 CFR 93.126, and as such a Mobile Source Air Toxics analysis is not required.
	Countries and the contries and the contr
SECTION	F - NOISE
Noise	Yes No
Is a noise a	analysis required in accordance with FHWA regulations and INDOT's traffic noise policy?
	No Yes/ Date
ES Reviev	of Noise Analysis
Remarks:	This project is a Type III project. In accordance with 23 CFR 772 and the current <i>Indiana Department of</i>
	Transportation Traffic Noise Analysis Procedure, this action does not require a formal noise analysis.
This is	page 15 of 20 Project name: Marquette Greenway – Singing Sands Connector Date: January 22, 2021

			Old Grand Beach			
County _	LaPorte	Route	Road	Des. No.	1592335	
SECTION	G – COMMUNITY IMPACT	s				
Will the prop Will the prop Will the prop Will construct Does the con If No, ar Does the properties	Community & Neighborhood bosed action comply with the loosed action result in substanticution activities impact community have an approved trave steps being made to advance oject comply with the transition	ocal/regional devial impacts to colial impacts to locality events (festivansition plan? the community	mmunity cohesion? al tax base or property valuals, fairs, etc.)? 's transition plan?	rea?	Yes No	
Remarks:	There will be temporary impact traveling motorists of the constructivities.					
	VS Engineering researched pos construction activities. Two wel accessed on September 27, 2019 project will not impact any com	bsites were access 9, to see if constru	ed, http://fairsandfestivals.net ction would impact any local	and http://indianaf	estivals.org were	
	The proposed project is to insta substantial impacts to property	values or increase	development in the area.			
	LaPorte County has an America providing ADA-compliant ramp					
	d Cumulative Impacts posed action result in substant	ial indirect or cur	nulative impacts?		Yes No X	
Remarks:	Indirect impacts are effects whi still reasonably foreseeable. Ind changes in the pattern of land u result from the incremental impactions regardless of what agent The proposed project will have access where previously there v Sands Connector, will eventual trail segment will connect to the line fulfilling independent utilit	direct effects may it is, population den pact of the action was or person under a positive community as none. This traily connect to the peresidential street	nclude growth inducing effort sity, or growth rate. Cumulativelen added to other past, prese takes such actions. nity and economic impact. The I is part of the Marquette Gree roposed New Buffalo segmen	ts and other effects we impacts affect the ent and reasonably: e proposed trail wi enway project. This t, which is yet to be	related to induced ne environment which foreseeable future  Il provide pedestrian s project, the Singing egin construction. This	
Public Facilities & Services  Will the proposed action result in substantial impacts on health and educational facilities, public and private utilities, emergency services, religious institutions, airports, public transportation or pedestrian and bicycle facilities? Discuss how the maintenance of traffic will affect public facilities and services.						
Remarks:	Based on a desktop review, a si (Appendix B3) and the RFI repproject area. There is one plann Trail segment of the Marquette Road and US 12. An early coor sponsor of the proposed trail segments of the proposed trail segments.	ort (Appendix E1) led trail within the Greenway Trail is dination request w gment, but no resp	there is one public facility wi 0.5 mile search radius of this planned to end at the northweras sent December 20, 2019, to onse was received. Due to the	thin the 0.5 mile se project. The Singin estern corner of the o Michigan City Pa e scope of both trail	earch radius of the ag Sands – Lighthouse intersection of Meer arks and Recreation, the segments, the Singing	

This is page 16 of 20 Project name:

Marquette Greenway – Singing Sands Connector Date: January 22, 2021

_			Old Grand Beach					
County _	<u>LaPorte</u> R	loute	Road	Des. No	D. <u>1592335</u>			
	There will be temporary impacts associa	ted with	construction activities. Advance	ed warning sign	s will be used to alert			
	traveling motorists of the construction ac activities. These impacts are temporary a			ded to restrict tr	affic for construction			
	activities. These impacts are temporary a	ilia wili c	ease upon project completion.					
Environme	ntal Justice (EJ) (Presidential EO 128	98)			Yes No			
	evelopment of the project were EJ issu		tified?					
	pject require an EJ analysis?				X			
If YES, then								
Are an	y EJ populations located within the pro	oject are	a?		X			
Will the	e project result in adversely high or dis	proporti	onate impacts to EJ populati	ons?	X			
		1.1			XXXX			
Remarks:	Under FHWA Order 6640.23A, FHWA							
	ensure that their programs, policies, and low-income populations. Per the current							
	is required for any project that has two or							
	will have no relocations but will require							
	, 1 1 1 1 1 1 1.		F					
	Potential EJ impacts are detected by loca							
	determine if populations of EJ concern e							
	them. The reference populations may be							
	this project, the COC is LaPorte County.							
	(AC). In this project, the AC is Census T than 50% minority or low-income or if the thin 50% minority or if the 50% minority or if the thin 50% minority or if the 50% minority or if							
	from the US Census Bureau Website (htt							
	collected for minority and low-income pe							
	p	op unutron		<u> </u>				
	Table: Minori		ow-Income Data (2017 ACS 5-y	year estimates)				
			COC – Springfield	AC - Census				
			Township, LaPorte County,	LaPorte Coun	ty, Indiana			
	D (M)		Indiana	2				
	Percent Minority 125% of COC		<u>5</u> 6.1	2 AC < 125% C	200			
	EJ Population of Concern		0.1	No No	,00			
	Es i opulation of Concern			NO				
	Percent Low-Income		25.3	3.6				
	125% of COC		31.6	AC < 125% C	COC			
	EJ Population of Concern		21.0	No				
		l l						
	AC, Census Tract 412 LaPorte County, I	ndiana h	as a percent minority of 2% whi	ich is below 509	% and is below the 125%			
	COC threshold. Therefore, the AC does	not cont	ain minority populations of EJ	concern.				
	AC, Census Tract 412 LaPorte County, I							
	125% COC threshold. Therefore, the A	C does n	ot contain low-income population	ons of EJ conce	rn.			
	The census data sheets, map, and calcula	tions can	he found in Appendix I2 Not	further environn	nental justice analysis is			
	warranted.	tions can	toe found in Appendix 12. Two	iditilei eliviiolii	nortal justice analysis is			
	****							
Relocation	of People, Businesses or Farms				Yes No			
Will the prop	posed action result in the relocation of	people.	businesses or farms?		X			
	s Information Survey (BIS) required?				X			
	tual Stage Relocation Study (CSRS) re	equired?	)		X			
	elocation coordination been initiated for				X			
Number of r	elocations: Residences: 0	Busi	inesses: 0 Farms:	Ot	her: <u>0</u>			

This is page 17 of 20 Project name:

Marquette Greenway – Singing Sands Connector Date: January 22, 2021

	LaPorte	Route	Old Grand Beach Road	Des. No1592335
If a BIS or C	SRS is required, discuss the	results in the rem	arke hov	
Remarks:	No relocations of people, but			his project.
	TT4:1:4	. 4 : : 4	.:114: 41141	
	Utility coordination has start	ed, is ongoing and w	viii continue throughout the	construction process.
SECTION	H – HAZARDOUS MATE	RIALS & REGU	JLATED SUBSTANCE	is
Hozordouc	Motorials & Pagulated Su	hatanaa (Mark al		Occumentation
Red Flag In	Materials & Regulated Sulvestigation	bstatices (ivialit al	п тат арргу)	X
-	vironmental Site Assessmen	t (Phase I ESA)		
	vironmental Site Assessmer			
Design/Spe	cifications for Remediation r	equirea?		
		No Yes/ Da	ite	
ES Review	of Investigations	January 9	9, 2020	
Include a sur	nmary of findings for each in	vestigation		
	None of the hazardous mater	ials identified within	n 0.5 mile search radius will	terial sites located within the project area.  I impact the project. The UST is 0.05 mile
		the project area but	due to the scope of the proj	barriers, no impacts are expected. The LUST ect and the physical barriers, no impacts are red at this time.
SECTION	is located 0.06 mile south of	the project area but on for hazardous ma	due to the scope of the proj	ect and the physical barriers, no impacts are
	is located 0.06 mile south of expected. Further investigation	the project area but on for hazardous ma	due to the scope of the proj	ect and the physical barriers, no impacts are

Old Grand Beach

County	LaPorte	Route Road	d Des. No.	1592335
IDEM	Section 401 WQC Isolated Wetlands determin Rule 5 Other Wetland Mitigation required Stream Mitigation required Construction in a Floodway Navigable Waterway Permi	ation	X Des. No.	1592333
US Coa	Lake Preservation Permit Other Mitigation Required st Guard Section 9 Bridge (Please discuss in the rer	Permit		
Remark	disturbed.  Applicable recommenda	tions provided by IDEM are inc	rol permit from IDEM as at least one acre- cluded in the Environmental Commitments ditions of the permit will be requirements of	section of this
	It is the responsibility of	the project sponsor to identify a	and obtain all required permits.	

### **SECTION J- ENVIRONMENTAL COMMITMENTS**

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

### Remarks:

### Firm:

- 1. If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division and INDOT District Environmental Section will be contacted immediately. (INDOT ESD and INDOT LaPorte District)
- 2. It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access. (INDOT ESD)
- 3. 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. TREE REMOVAL AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- 6. TREE REMOVAL AMM 2: Apply time of year restrictions (April 1 September 30) 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 emergency survey must be conducted with no bats observed. (USFWS,IDNR)
- 7. 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)

8.	TR	EE REMOVAL AM	o any tree clearing to ensure contractors stay within clear M 4: Do not removed documented Indiana bat or NLEB 0.25 mile of roosts or documented foraging habitat any to	roosts that are	e still suitable for
This is page 19 o	f 20	Project name:	Marquette Greenway – Singing Sands Connector	Date:	January 22, 2021
			Form Version: June 2013 Attachment 2		

			Old Grand Beach			
County	LaPorte	Route	Road	Des. No.	1592335	

### **For Further Consideration:**

1. IDNR-DFW recommends a mitigation plan be developed (and submitted with the permit application, if required) for any unavoidable habitat impacts that will occur. Impacts to non-wetland forest of one acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. Impacts to non-wetland forest under one acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10 inches dbh or greater (5:1 mitigation based on the number of large trees). (IDNR)

### **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:

Federal Highway Administration, LaPorte District	No response
Indiana Department of Transportation, LaPorte District Office	1/2/2020
Indiana Department of Transportation, Office of Aviation	No response
Indiana Department of Transportation, Public Involvement	No response
US Fish and Wildlife Service, Northern Indiana Sub-office	1/10/2020
Indiana Department of Natural Resources, Div. of Fish and Wildlife	1/15/2020
Indiana Department of Natural Resources, Div. of Oil and Gas	No response
Indiana Department of Natural Resources, Div. of Outdoor Recreation	1/3/2020
Indiana Geological Survey	1/22/2020
Indiana Department of Environmental Management	1/22/2020
US Department of Housing and Urban Development, Region 5	No response
National Park Service, Regional Environmental Coordinator	No response
Natural Resources Conservation Service, State Conservationist	12/30/2019
Michigan City Parks and Recreation Department	No response
Michiana Shores Park Board	No response
Michiana Shores Planning and Building Commission	No response
Michiana Shores Town Clerk	No response
Michiana Shores Fire Department	No response
Long Beach Police Department	No response
LaPorte County Highway Department	No response
LaPorte County Soil and Water Conservation	No response
LaPorte County Parks and Recreation	No response
Michigan City School District	No response
Northwestern Indiana Regional Planning Commission	No response
LaPorte County MS4 Coordinator	No response



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,	4275 N	North	High	School	Road,	Indianapolis,	IN	46254

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# **APPENDIX A:**

### INDOT SUPPORTING DOCUMENTATION

### **Categorical Exclusion Level Thresholds**

	PCE	Level 1	Level 2	Level 3	Level 4 <sup>1</sup>
Section 106	Falls within guidelines of Minor Projects PA	"No Historic Properties Affected"	"No Adverse Effect"	-	"Adverse Effect" Or Historic Bridge involvement <sup>2</sup>
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 <sup>3</sup>	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations	None	-	-	< 5	≥ 5
Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat)	"No Effect", "Not likely to Adversely Affect" (Without AMMs <sup>4</sup> or with AMMs required for all projects <sup>5</sup> )	"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 <sup>6</sup>
Sole Source Aquifer	Detailed Assessment Not Required	-	-	-	Detailed Assessment
Floodplain	No Substantial Impacts	1	-	-	Substantial Impacts
Coastal Zone Consistency	Consistent	-	-	-	Not Consistent
National Wild and Scenic River	Not Present	-	-	-	Present
New Alignment	None	-	-		Any
Section 4(f) Impacts	None	-	-	-	Any
Section 6(f) Impacts	None	-	-	-	Any
Added Through Lane	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Coast Guard Permit	None	-	-	_	Any
Noise Analysis Required	No	-	-	-	Yes
Air Quality Analysis Required Approval Level	No Concurrence by INDOT District	-	-	-	Yes <sup>7</sup>
<ul><li>District Env. Supervisor</li><li>Env. Services Division</li><li>FHWA</li></ul>	Environmental or Environmental Services	Yes	Yes	Yes Yes	Yes Yes Yes

<sup>&</sup>lt;sup>1</sup>Coordinate with INDOT Environmental Services. INDOT will then coordinate with the appropriate FHWA Environmental Specialist.

<sup>&</sup>lt;sup>2</sup>Any involvement with a bridge processed under the Historic Bridge Programmatic Agreement.

<sup>&</sup>lt;sup>3</sup>Permanent and/or temporary right-of-way.

<sup>&</sup>lt;sup>4</sup>AMMs = Avoidance and Mitigation Measures.

<sup>&</sup>lt;sup>5</sup>AMMs 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". <sup>6</sup>Potential for causing a disproportionately high and adverse impact.

<sup>&</sup>lt;sup>7</sup>Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

<sup>\*</sup>Substantial public or agency controversy may require a higher-level NEPA document.



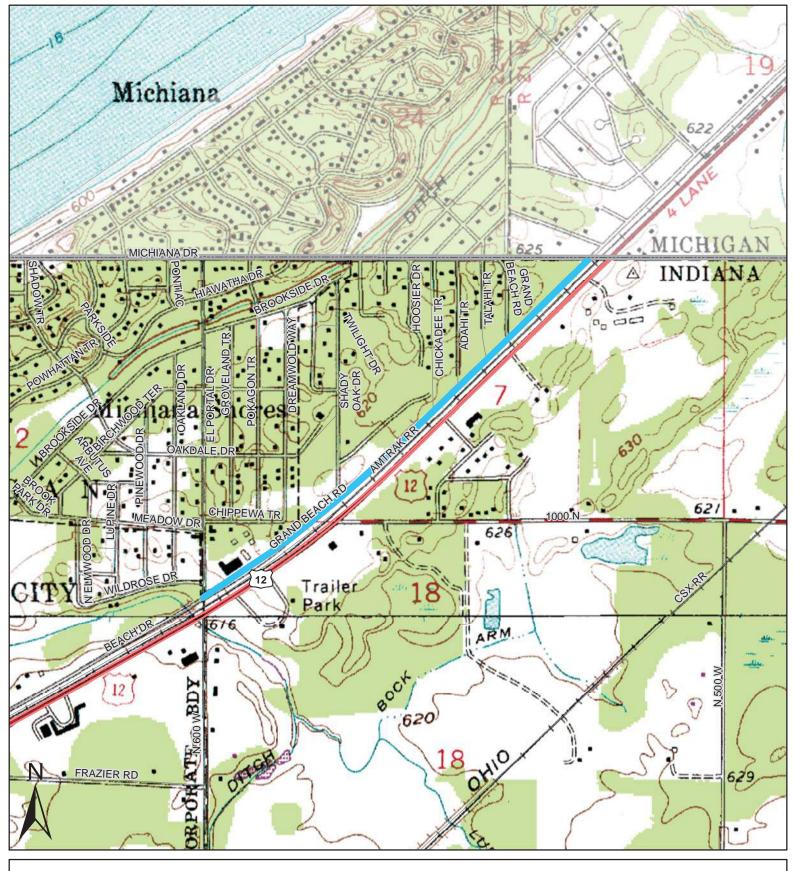
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# **APPENDIX B:**

**GRAPHICS** 













**Project Location** 

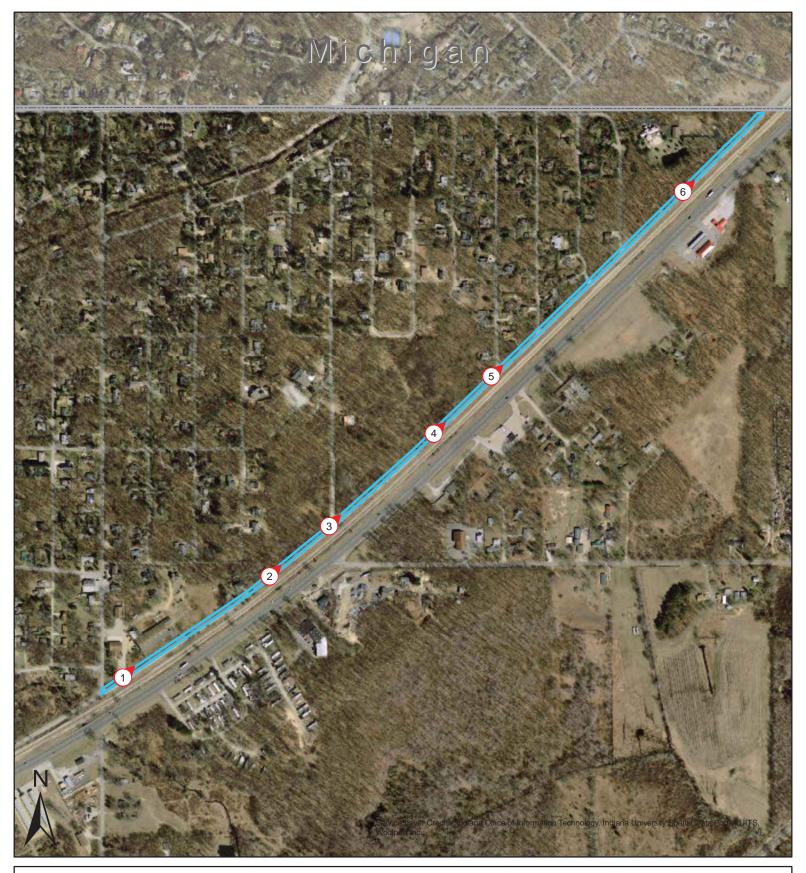
Marquette Greenway Trail/Singing Sands Connector Trail East **LaPorte County, Indiana** Des. No. 1592335

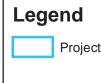
Figure 3 - Aerial Map

0.2 Mile 0.05



Drawn: 12/12/2019 AKB





**Project Location** 

Marquette Greenway Trail/Singing Sands Connector Trail East **LaPorte County, Indiana** Des. No. 1592335

Figure 4 - Photo Location Map



0.2 Mile 0.05

Drawn: 12/12/2019 AKB **B4** 

# **Location Photographs**

Photographs taken October 15, 2019



Photo 1: Approximately 110 ft from the corner of El Portal Drive and Grand Beach Road, looking northeast.

Photo 2: Approximately 475 ft south of the intersection of Shady Oak Drive and Grand Beach Road, looking northeast.



# **Location Photographs**

Photographs taken October 15, 2019

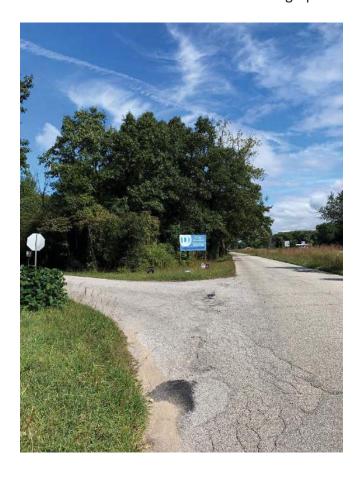


Photo 3: At the intersection of Shady Oak Drive and Grand Beach Road, looking northeast.

Photo 4: On Grand Beach Road, approximately 520 ft south of Chickadee Trail, looking northeast.



# **Location Photographs**

Photographs taken October 15, 2019



Photo 5: Southwest of the intersection of Grand Beach Drive and Chickadee Trail, looking northeast.

Photo 6: On Grand Beach Drive, looking northeast, approximately 750 ft southwest of the Indiana/Michigan state line.



PROJECT DESIGNATION
1592335 1592335
CONTRACT
R-38992

# INDIANA DEPARTMENT OF TRANSPORTATION MARQUETTE GREENWAY TRAIL

TRAFFIC DATA					
A.A.D.T.	V.P.D.				
A.A.D.T. PROJECTED	V.P.D.				
D.H.V.	V.P.H.				
DIRECTIONAL DISTRIBUTION	%				
TRUCKS	% A.A.D.T.				
	% D.H.V.				
DESIGN SPEED	15 MPH				
PROJECT DESIGN CRITERIA	SHARED USE PAT				
FUNCTIONAL CLASSIFICATION	SHARED USE PAT				
RURAL/URBAN	_/URBAN URBA				
TERRAIN	LEVEL				
ACCESS CONTROL	NON				

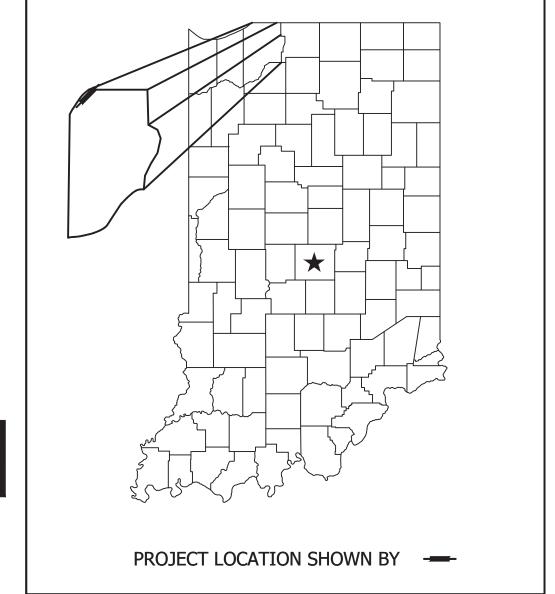
PROJECT NO. 1592335 P.E.

1592335 R/W

1592335 CONST.

FROM RP:

TO RP:



BEGIN PROJECT STA. STA. 860+00.00 "A" ASPHALT PATHWAY, CURB RAMPS, AND CROSSWALK IMPROVEMENTS BOUNDED BY INTERSECTION OF EL PORTAL DRIVE AND OLD GRAND BEACH ROAD, NORTHWEST ALONG OLD GRAND BEACH ROAD TO THE INDIANA/MICHIGAN STATE LINES; ALL WITHIN SECTIONS 7 & 18 OF TOWNSHIP 38 N, RANGE 3 W, SPRINGFIELD TOWNSHIP IN THE TOWN OF MICHIANA SHORES, La PORTE COUNTY, INDIANA.

R. 3 W.

H.U.C. 14 DIGIT CODE NO.: 04040001090020

GROSS LENGTH: 1.010 Miles NET LENGTH: 0.958 Miles

SCALES:

PLAN  $\{ \text{LONG: } 1'' = 20' \}$  PROFILE  $\{ \text{HORIZ: } 1'' = 20' \}$  VERT:  $1'' = 5' \}$ 

MAX. GRADE: 3.92%

LOCATION:

BEGINING: LATITUDE: 41° 45' 02.1" N LONGITUDE: 86° 48' 57.4" W

D: LATITUDE: 41° 45' 36.6" N LONGITUDE: 86° 48' 5.0" W

LAPORTE COUNTY
BOARD OF COMMISSIONERS

RICHARD MROZINSKI, PRESIDENT

CONNIE GRAMAROSSA, MEMBER

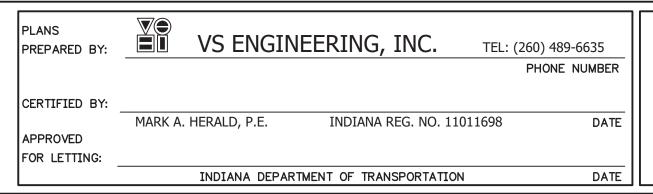
VIDYA KORA, MEMBER

Michiana Dr

Michi

LOCATION MAP
SPRINGFIELD TOWNSHIP
La PORTE COUNTY

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



**END PROJECT** 

STA.STA. 913+35.00 "A"

HOT	eining	A Taso.
60/6	1,00	

4			IGNA 5923	TION 35		
3		SHEETS				
		1 of 63				
	CONTRACT	PROJECT				
	R-38992	1592335				

FILE........16-3509 Title Sheet.dwg
DIMSCALE..1 LTSCALE...500
PLOTTED BY.dtieman

# **UTILITIES**

### COMMUNICATIONS:

AT&T - DISTRIBUTION 5858 N. College Ave. Indianapolis, IN 46220 Contact: Dennis Burch Phone: (579) 287-8380 Email: db2741@att.com

**ACME Communications** 16 W 84th Dr. Merrillville, IN 46410 Contact: William Richey Phone: (219) 879 6600

Email: bwrichey@adsnet.com

### CABLE TELEVISION

COMCAST 16 W 84th Dr. Merrillville, IN 46410 Contact: Larry Smith Phone: 574-320-8203

Email: Larry\_Smith3@cable.comcast.com

### **ELECTRIC & GAS:**

**NIPSCO** 801 E 86th Ave Merrillville, IN 46410 Contact: Michelle Voss Phone: 219-647-5311 Email: Mvoss@nisource.com

### **SEWERS:**

Michigan City Sanitary District 1100 East 8th Street Michigan City, IN 46360-2567 Contact: Melody Collier Phone: (219) 874 7799 Email:

### WATER:

Michigan City Water 532 Franklin St / PO Box 888 Michigan City, IN 46360 Contact: Randall Russell Phone: (219) 874 3228 Email: rrussell@mcwaterdept.com

### FIBER OPTICS:

RVP Fiber Company, LLC 201 Ionia Ave SW Grand Rapids, MI 49503 Contact: Ryan Miedema Phone: 616-233-7144 Email: rjmiedema@ussignal.com

UNDERGROUND UTILITY LOCATIONS HOTLINE: 1-800-382-5544

# GENERAL NOTES

ALL EARTH SHOULDERS, MEDIAN AREAS AND CUT AND FULL SLOPES SHALL BE PLAIN OR MULCHED SEEEDED EXCEPT WHERE SODDING SPECIFIED.

\* \* REPRESENTS GENERAL NOTES REQUIRED.

# DRAWING INDEX

NUMBER	DESCRIPTION
1	Title Sheet
2	Index & General Notes
3	Typical Sections
4 - 5	Plat No. 1
6 - 8	Survey Control
9 - 10	Mantenance Of Traffic Plan
11 - 20	Line 'A' - Plan & Profile
22 - 26	Erosion Control Plan
32	Pavement Markings & Erosion Control Table
33 - 34	Quantities-Approach Table
35 - 63	Line 'A' - Cross Sections

LEGEND

EXISTING 100 YR FLOODPLAIN EXISTING STONE SURFACE

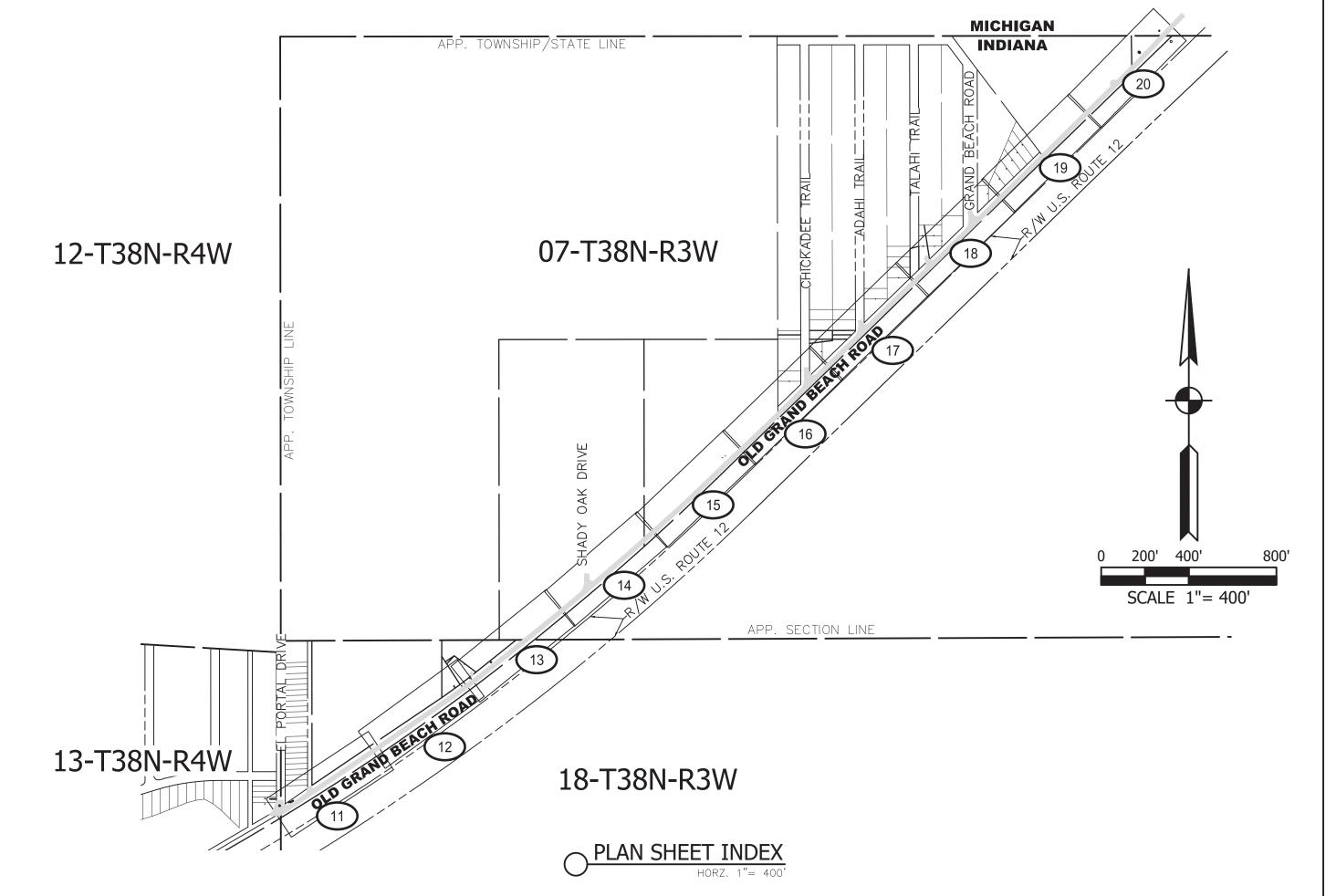
\_\_\_\_\_APP P & EXIST R/W EXISTING RIGHT OF WAY EXISTING TREE LINE

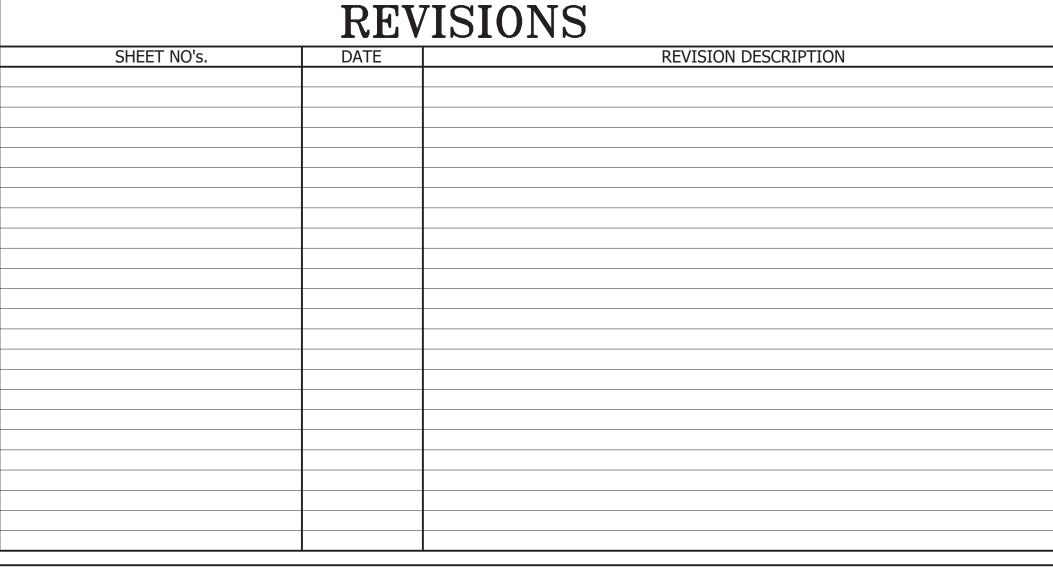
PROP. R/W

XXX.X ME MATCH EXISTING ELEVATION PROPOSED ASPHALT PATH

EXISTING ASPHALT ROAD EXISTING SIGN EXISTING UTILITY POLE EXISTING GUYWIRE EXISTING SANITARY MANHOLE EXISTING WATER MAIN —— оне —— оне —— оне —— оне —— EXISTING OVERHEAD UTILITY ───── EXISTING SPLIT RAIL FENCE APP P EXISTING PROPERTY LINE EXISTING TREE - - - - - CONSTRUCTION LIMITS PROPOSED ROAD RIGHT-OF-WAY XXX.XX PROPOSED SPOT ELEVATION

PROPOSED CONCRETE (ADA RAMP)







# VS ENGINEERING, INC.

4275 North High School Road Indianapolis, Indiana 46254 vsei@vsengineering.com www.vsengineering.com Phone: (317) 293-3542 Fax: (317) 293-4737



RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE			DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE  AS NOTED  VERTICAL SCALE  N/A	Dŧ	RIDGE FIL N/A SIGNATIO 1592335	DN
DESIGNED: J	JD	DRAWN:	DT	MARQUETTE TRAIL	SURVEY BOOK	2	SHEETS	63
CHECKED: M	МН —	CHECKED:	MH	INDEX & GENERAL NOTES	CONTRACT R-38992		PROJECT 1592335	

SECTION

Sta. 868+73.00 to Sta. 870+83.00 Sta. 871+71.00 to Sta. 873+82.00 Sta. 874+42.00 to Sta. 875+88.00 Sta. 893+97.00 to Sta. 894+16.00 Sta. 898+93.00 to Sta. 901+45.00

SCALE 1/4"= 1'-0"

3.0' 3.0' O.F.Z. O.F.Z. Q OLD GRAND BEACH ROAD-R/W Line – LINE 'A' 2.0' 10.00'  $3.8'\pm - 5.0'\pm$ 10.0'± 6:1 Max. Exist. P.G. 6:1 L\_\_\_\_\_Existing Pavement Earth Shoulder

> TYPICAL TRAIL SECTION - LINE 'A' General Typical Section Sloping Away From Road SCALE 1/4"= 1'-0" SECTION

- Sta. 860+23.89 to Sta. 868+73.00
- Sta. 870+83.00 to Sta. 871+71.00
- Sta. 873+82.00 to Sta. 874+42.00 Sta. 875+88.00 to Sta. 893+97.00
- Sta. 894+70.00 to Sta. 898+53.00
- Sta. 902+01.00 to Sta. 913+35.00

## 

- K

  165#/Syd. QC/QA= HMA, 2, 64 Surface 9.5 mm on 220#/Syd. QC/QA= HMA, 2, 64 Intermediate, 12.5 mm on 6" Compacted Aggregate Base #53 on Subgrade Treatment Type III
- Mulched Seeding, Type U
- Sodding, Nursery



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vsei@vsengineering.com www.vsengineering.com Phone: (317) 293-3542 Fax: (317) 293-4737



RECOMMENDED FOR APPROVAL	DESIG	n engineer	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE  1"= 5'  VERTICAL SCALE  N/A	
DESIGNED:	JD	DRAWN:	DT	MARQUETTE TRAIL	SURVEY BOOK	Ŧ
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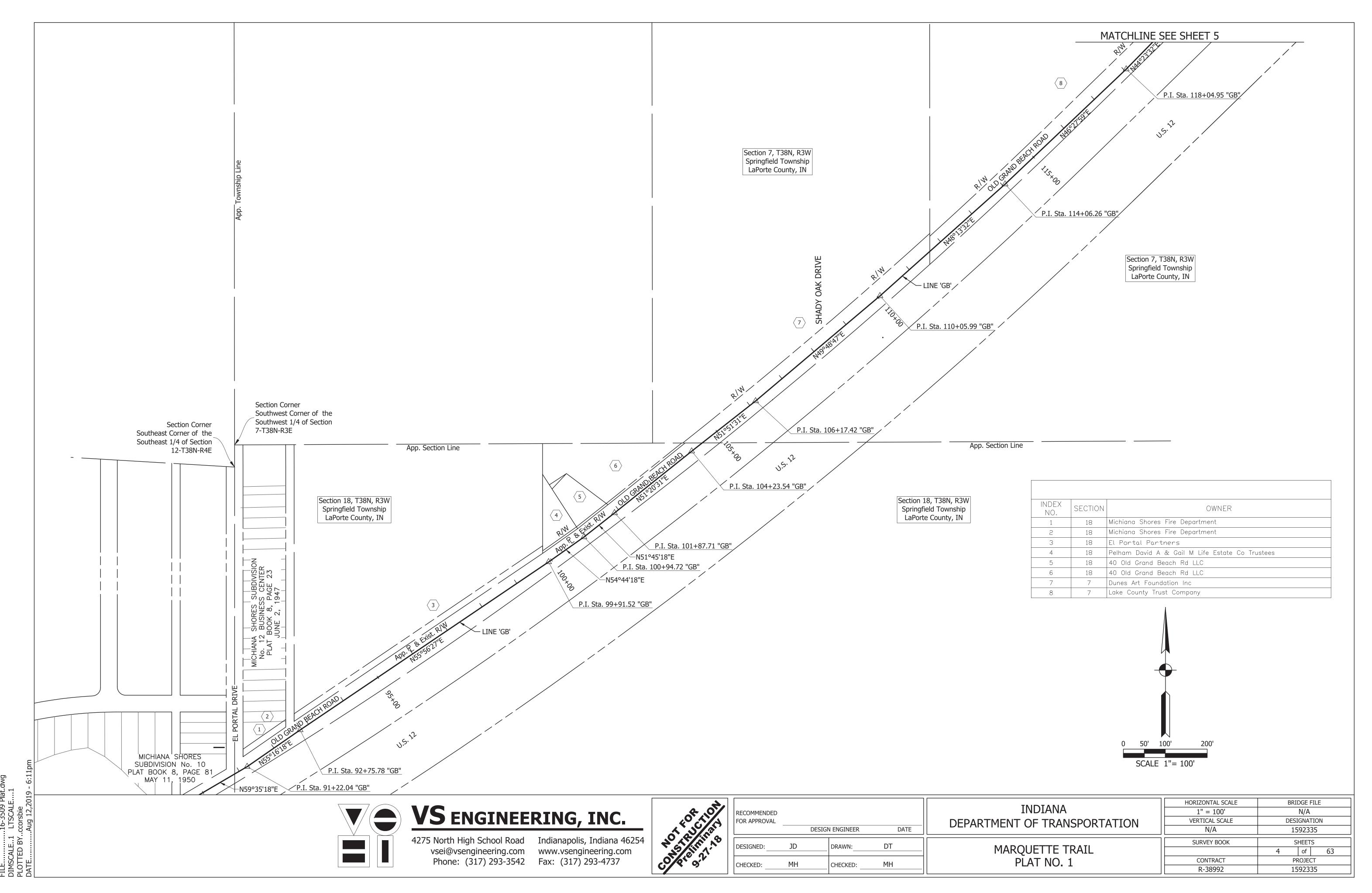
CE-2 Des. No. 1592335, Marquette Greenway Trail - Singing Sands Connector, LaPorte Co.

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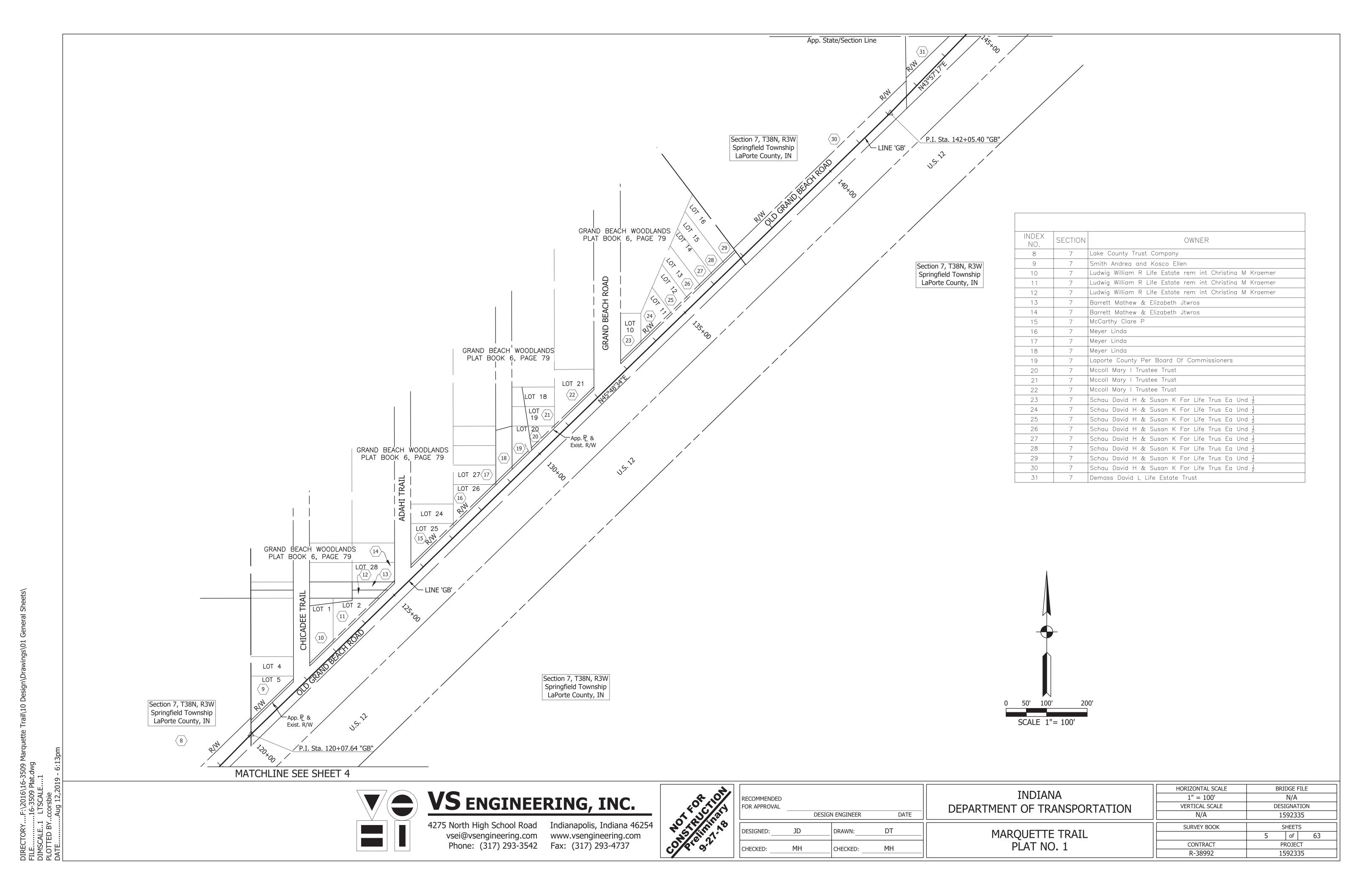
N/A DESIGNATION 1592335

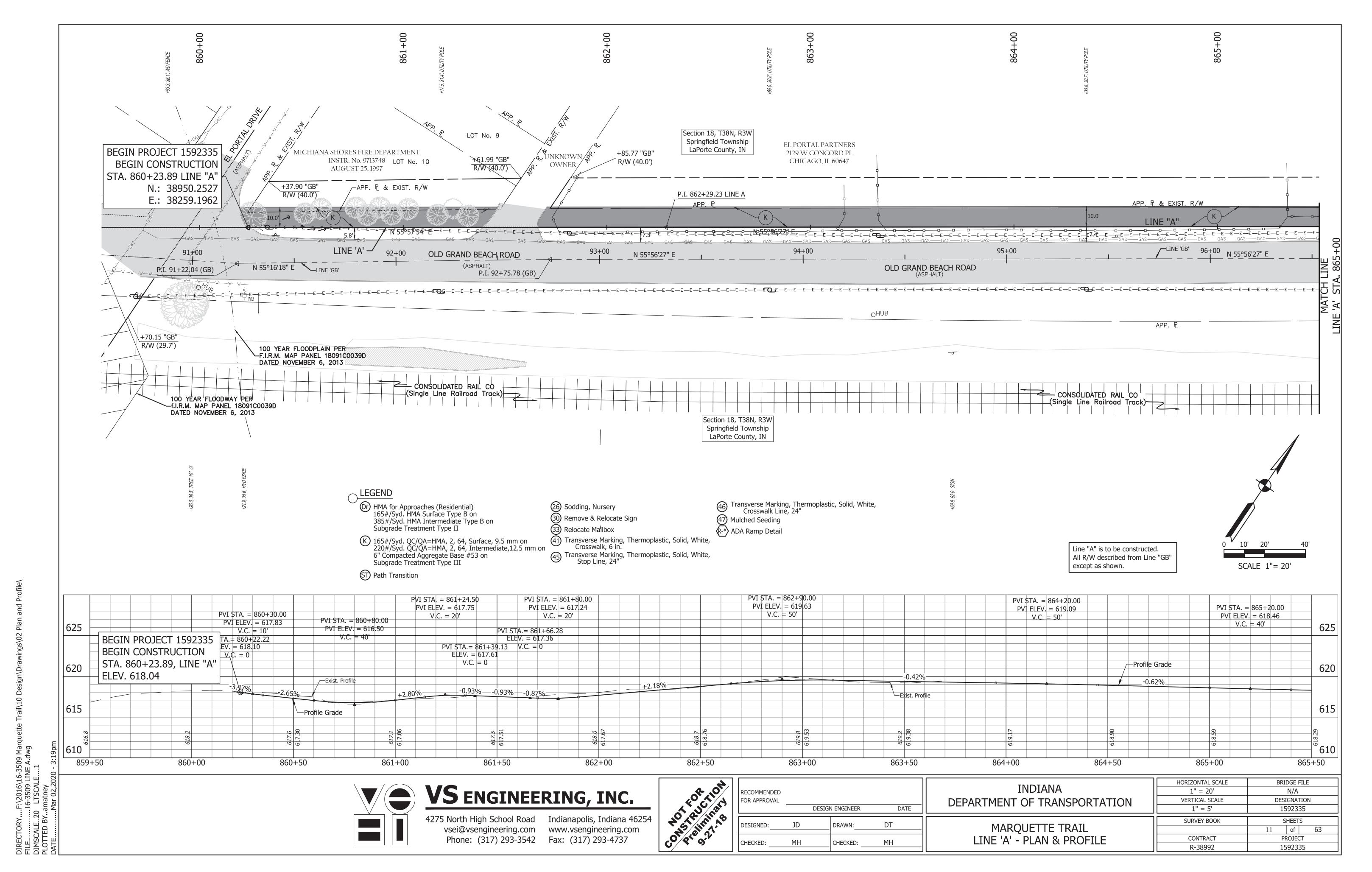
SHEETS

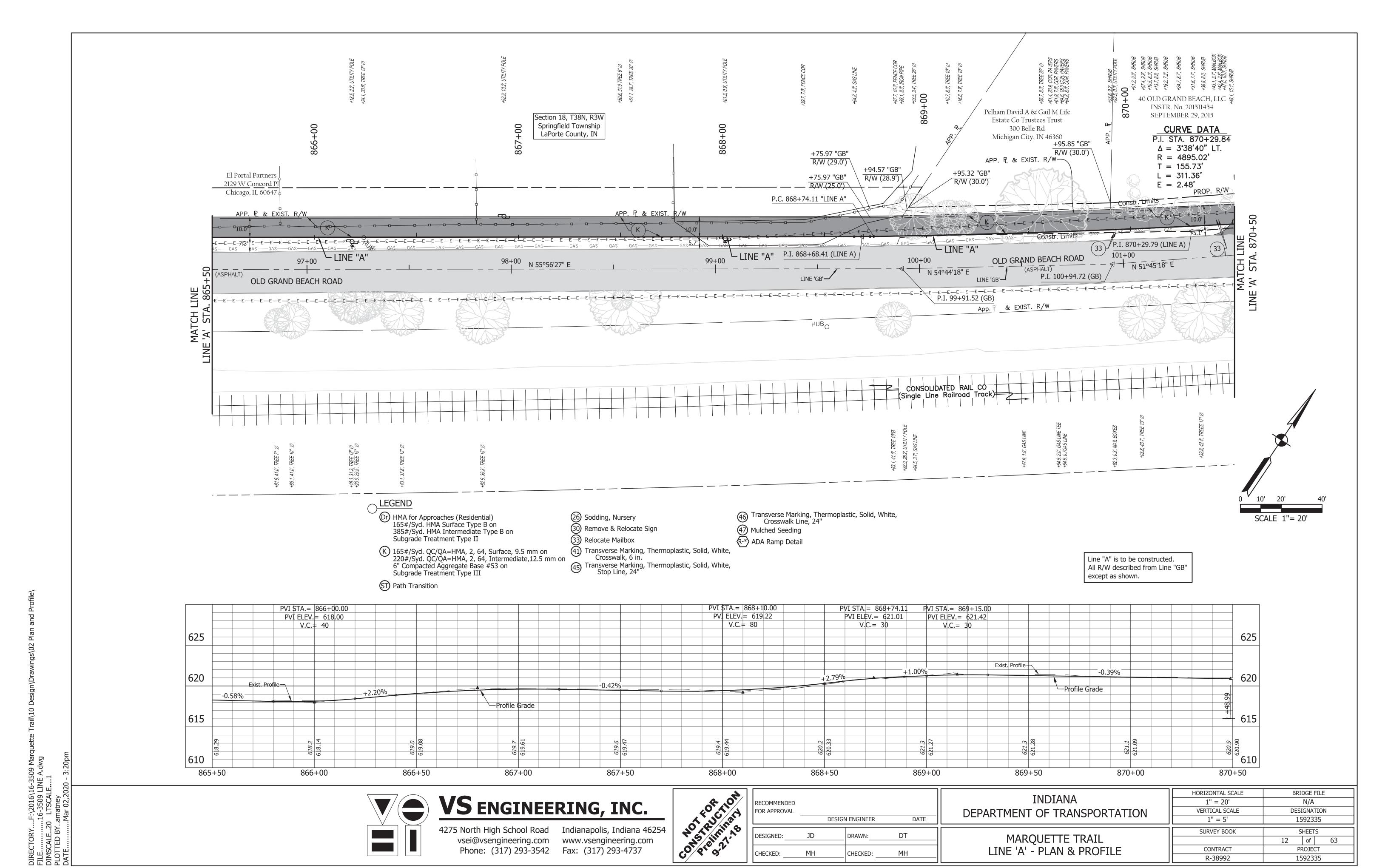
3 of 63 PROJECT 1592335

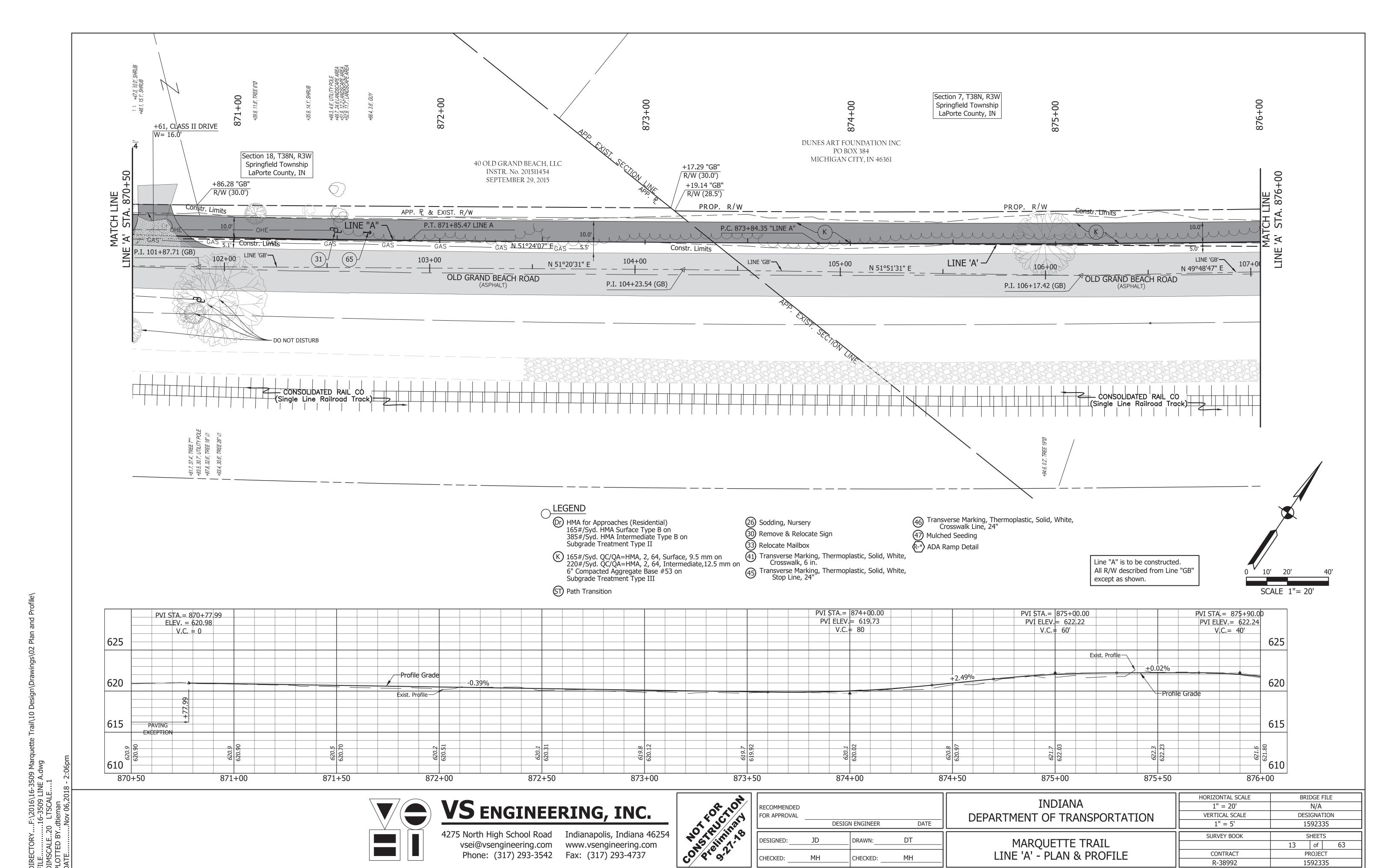


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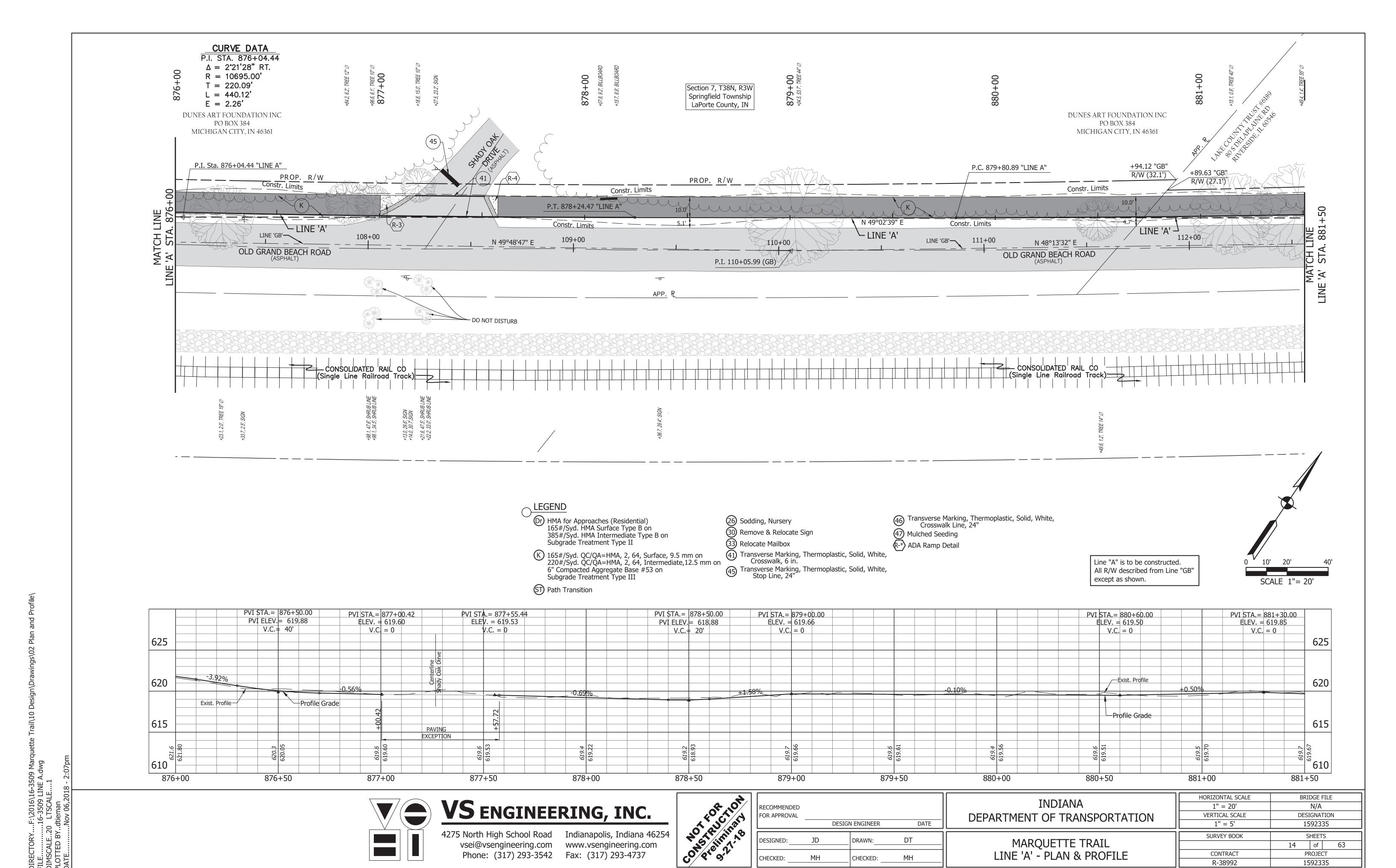






1592335

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Phone: (317) 293-3542 Fax: (317) 293-4737

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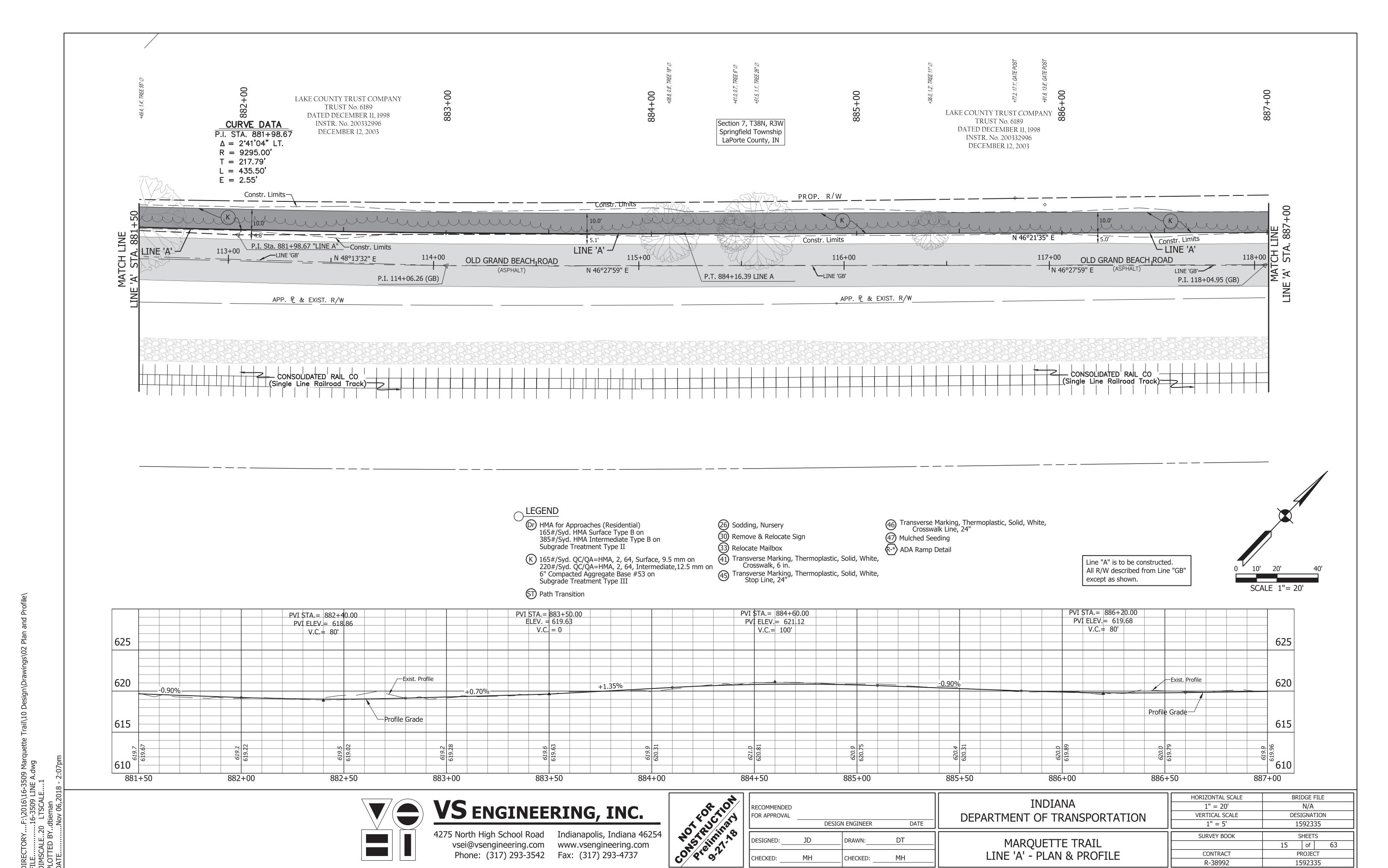
LINE 'A' - PLAN & PROFILE

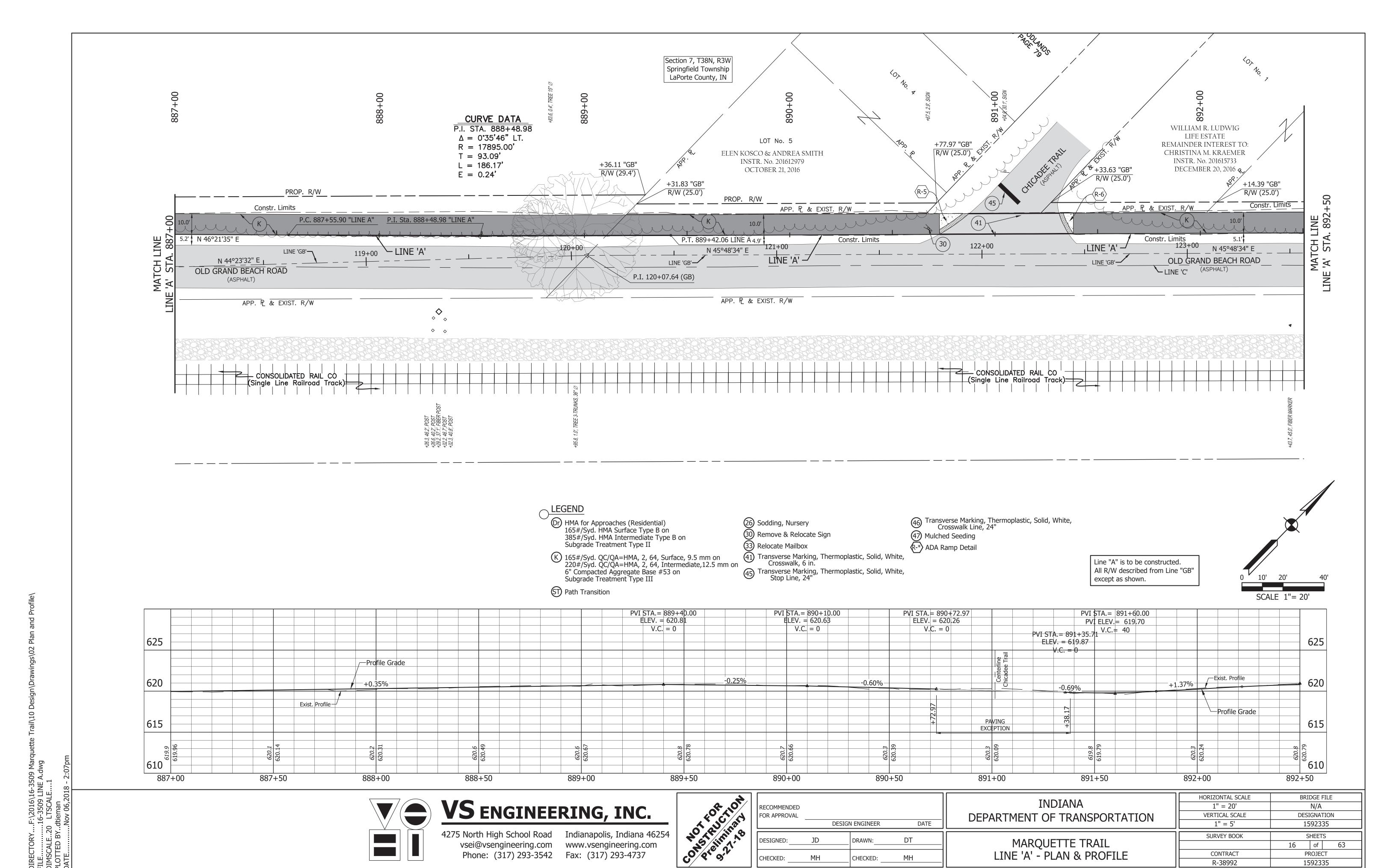
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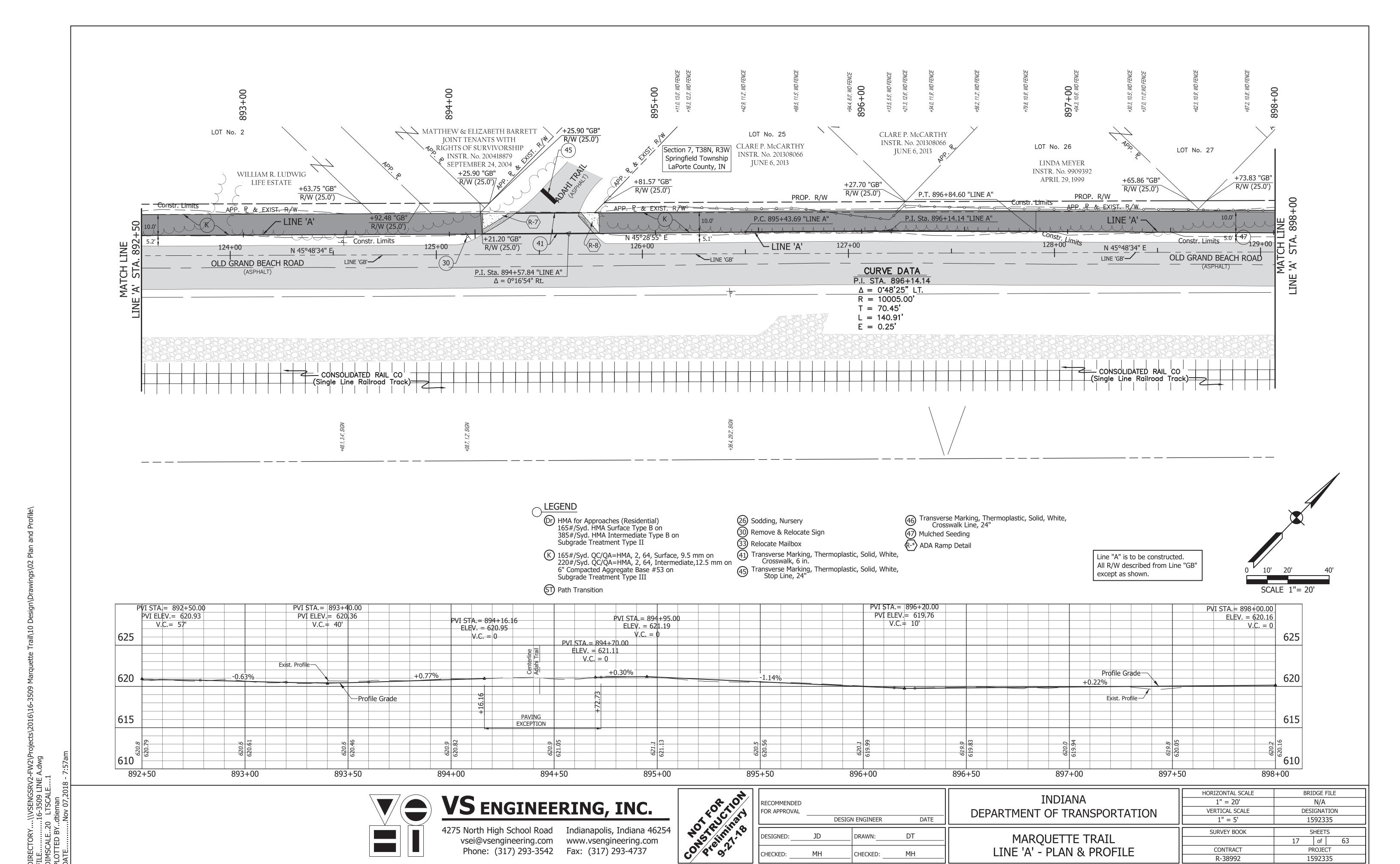
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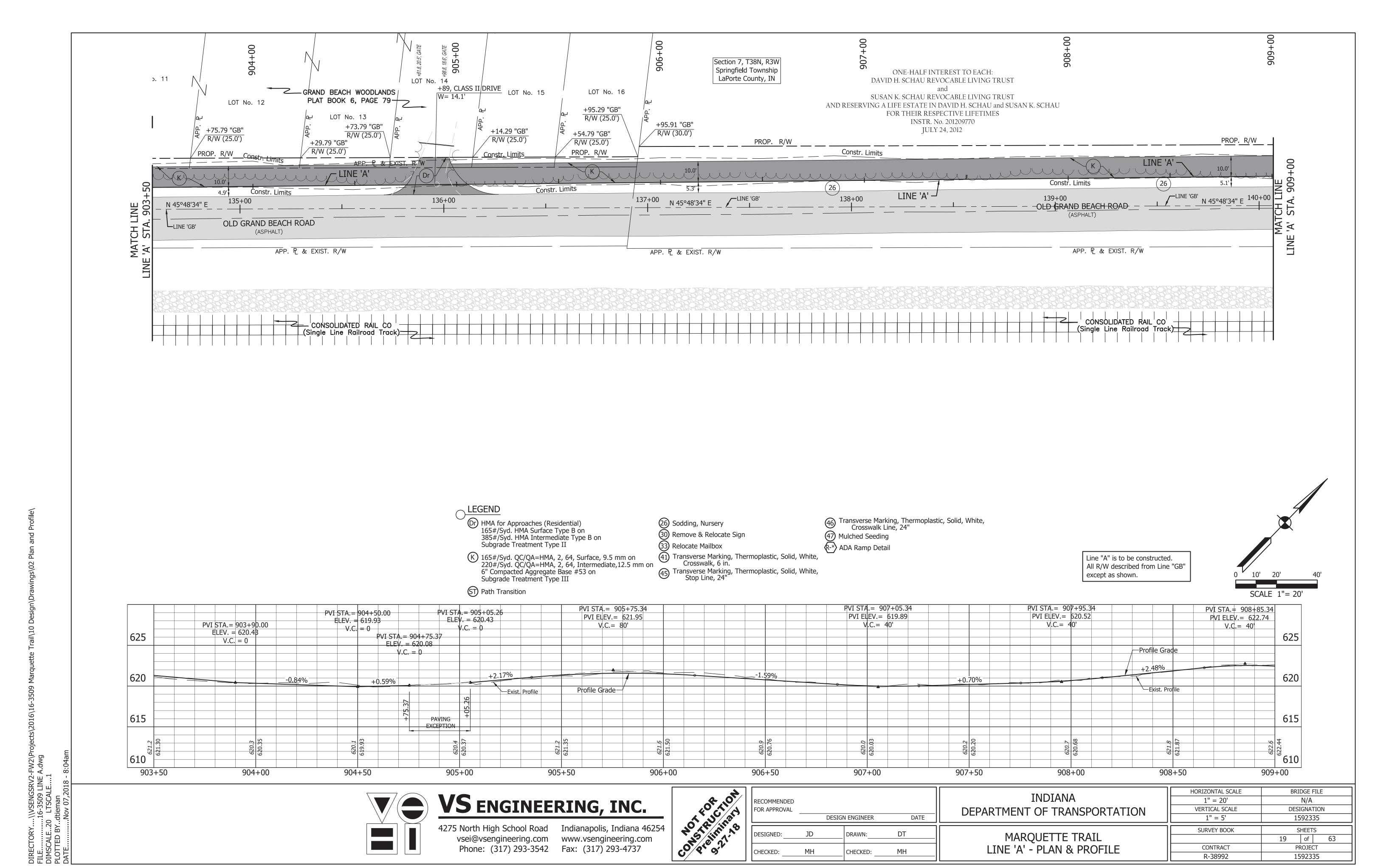
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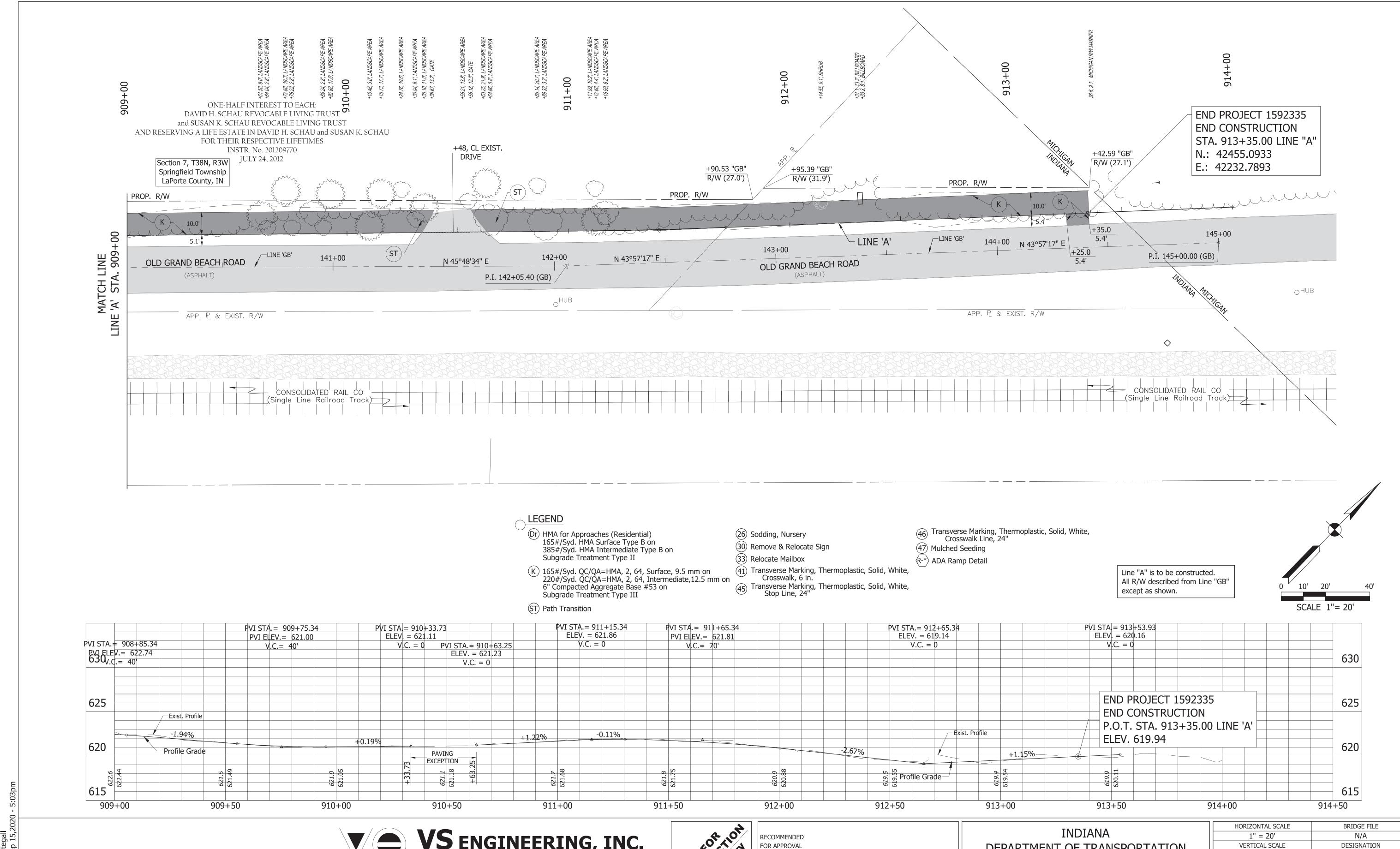
4275 North High School Road Indianapolis, Indiana 46254 vsei@vsengineering.com www.vsengineering.com Phone: (317) 293-3542 Fax: (317) 293-4737



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER DATE		DATE	INDIANA DEPARTMENT OF TRAI
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TRIDTARIA	HORIZONTAL SCALE	BRI	DGE FILE	
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LINE 'A' - PLAN & PROFILE	CONTRACT	PROJECT		
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	SURVEY BOOK	SHEETS		
MARQUETTE TRAIL		20	of	63
LINE 'A' - PLAN & PROFILE	CONTRACT	PROJECT		
EINE / TEM CATROTILE	R-38992	1592335		
	·			



- **317.293.3542**
- www.vsengineering.com

## **APPENDIX C:**

## **EARLY COORDINATION**



### **Early Coordination Letter**

December 20, 2019

RE: Des. No. 1592335 Marquette Greenway Trail – Singing Sands Connector, LaPorte County, Indiana.

#### Dear agency personnel:

LaPorte County and the Indiana Department of Transportation (INDOT) intend to proceed with the aforementioned project. The project is located in Springfield Township of LaPorte County; in Section 7 of Township 38 North, Range 3 West. The project begins at the intersection of Grand Beach Road and El Portal Drive (Meer Road/CR 600 W) and travels northeast along Grand Beach Road to the Indiana/Michigan state line. Maps and aerial imagery of the proposed project location are attached.

This INDOT-sponsored project will use Federal-aid funding and is therefore subject to environmental review under the National Environmental Policy Act (NEPA). This letter is part of the early coordination phase of the environmental review process. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above designation number and description in your reply. We will incorporate your comments into a study of the project's environmental impacts.

This project is part of the regional Marquette Greenway Trail that will travel from the south side of Chicago, Illinois, through northern Indiana, and end in New Buffalo, Michigan. This portion of the trail, the Singing Sands Connector, is the Michiana Springs portion of the proposed trail. This project will install a 10'-wide paved trail on the northern side of Grand Beach Drive. The trail will be offset from the edge of Grand Beach Drive by four to five feet. The total project length is 1.02 miles. This portion of Grand Beach Road currently does not have pedestrian facilities. Installation will include an asphalt trail and ADA-compliant curb ramps and curbs at public road intersections.

Existing right-of-way widths vary through the project corridor. Portions of Grand Beach Road were not properly recorded and reacquisition will be required to establish public ownership of the existing roadway. Approximately 3.5 acres of permanent right-of-way will be acquired for this project; 1.1 acres of which is the reacquisition of the apparent existing right-of-way. Approximately 2.4 acres of new, permanent right-of-way will be acquired from the residential and commercial properties along the trail path. No relocations will be required. This project will not require a detour or closure of the road for construction, however advance warning signs will be posted and flaggers will be used as needed to restrict traffic to allow for construction activities. All inconveniences will be temporary and will cease upon project completion.



The project is located primarily in a residential area with scattered commercial properties. A waters and wetlands determination will be completed and will identify any potential waters or wetlands resources within the project area. There will be approximately 0.6 acre of tree clearing as part of this project. This project qualifies for the application of the USFWS range-wide programmatic informal consultation for the Indiana bat and northern long-eared bat. 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." This project appears to meet the conditions of the Minor Projects Programmatic Agreement for Section 106 resources. The proposed project is currently on the July 2022 letting schedule.

Should we not receive your response within thirty calendar days from the date of this letter, it will be assumed that your agency feels that there will be no adverse effects incurred as a result of the proposed project. However, should you find that an extension to the response time is necessary, a reasonable amount may be granted upon request. If you have any questions regarding this matter, please feel free to contact Alan Ball, VS Engineering, Inc., at <a href="mailto:aball@vsengineering.com">aball@vsengineering.com</a>; 317-293-3542 or Jamie Erdmann, INDOT Project Manager, at <a href="mailto:jerdmann@indot.in.gov">jerdmann@indot.in.gov</a> or 219-325-7484. Thank you in advance for your input.

Sincerely,

Alan Ball

Senior Scientist & NEPA Lead

VS Engineering, Inc.

Alan K Ball



#### Attachments:

Figure 1 Project Location Map

Figure 2 Road Map

Figure 3 Topographic Map

Figure 4 Aerial Image, 2012

Figure 5 Photo Orientation Map

Figure 6 Project Area Photographs

Photos and figures included in Early Coordination can be found in Appendix B

## Please note that the Seymour District listed here is a typo

cc: Federal Highway Administration, Seymour District (electronic communication)

Indiana Department of Transportation, LaPorte District Office (electronic communication)

Indiana Department of Transportation, Office of Aviation (electronic communication)

Indiana Department of Transportation, Public Involvement (electronic communication)

US Fish and Wildlife Service, Northern Indiana Sub-office (electronic communication) Indiana Department of Natural Resources, Div. of Fish and Wildlife (electronic communication)

Indiana Department of Natural Resources, Div. of Oil and Gas (electronic communication)

Indiana Department of Natural Resources, Div. of Outdoor Recreation (electronic communication)

Indiana Geological Survey (electronic communication)

Indiana Department of Environmental Management (electronic coordination)

US Department of Housing and Urban Development, Region 5 (electronic communication)

National Park Service, Regional Environmental Coordinator

Natural Resources Conservation Service, State Conservationist (electronic communication)

Michigan City Parks and Recreation Department (electronic communication)

Michiana Shores Park Board

Michiana Shores Planning and Building Commission (electronic communication)

Michiana Shores Town Clerk (electronic communication)

Michiana Shores Fire Department

Long Beach Police Department (electronic communication)

LaPorte County Highway Department

LaPorte County Soil and Water Conservation (electronic communication)

LaPorte County Parks and Recreation (electronic communication)

Michigan City School District

Northwestern Indiana Regional Planning Commission (electronic communication)

LaPorte County MS4 Coordinator (electronic communication)



## Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

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

INDOT Jami Erdmann 315 E. Boyd Blvd. LaPorte , IN 46350 Date VS Engineering Mark Herald 4275 N High School Road Indianapolis , IN 46254

To Engineers and Consultants Proposing Roadway Construction Projects:

RE: Marquette Greenway Trail - Singing Sands Connector

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

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

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

## WATER AND BIOTIC QUALITY

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

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

Much of northern Indiana (Newton, Lake, Porter, LaPorte, St. Joseph, Elkhart, LaGrange, Steuben, and Dekalb counties; large portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and lesser portions of Benton, White, Pulaski, Kosciusko, and Wells counties) is served by the USACE District Office in Detroit (313-226-6812). The central and southern portions of the state (large portions of Benton, White, Pulaski, Kosciosko, and Wells counties; smaller portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and all other Indiana counties located in north-central, central, and southern Indiana) are served by the USACE Louisville District Office (502-315-6733).

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

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

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

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

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

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

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

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

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

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

- 7. For projects involving impacts to fish and botanical resources, contact the Department of Natural Resources Division of Fish and Wildlife (317/232-4080) for addition project input.
- 8. For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality Drinking Water Branch (317-308-3299) regarding the need for permits.

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

### **AIR QUALITY**

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

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

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

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

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

- 2. The U.S. EPA and the Surgeon General recommend that people not have long-term exposure to radon at levels above 4 pCi/L. (For a county-by-county map of predicted radon levels in Indiana, visit: http://www.in.gov/idem/4145.htm (http://www.in.gov/idem/4145.htm).)
  - The U.S. EPA further recommends that all homes (and apartments within three stories of ground level) be tested for radon. If in-home radon levels are determined to be 4 pCi/L, or higher, EPA recommends a follow-up test. If the second test confirms that radon levels are 4 pCi/L, or higher, EPA recommends the installation of radon-reduction measures. (For a list of qualified radon testers and radon mitigation (or reduction) specialists visit: http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon\_testers\_mitigators\_list.pdf (http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon\_testers\_mitigators\_list.pdf).) It also is recommended that radon reduction measures be built into all new homes, particularly in areas like Indiana that have moderate to high predicted radon levels.

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

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

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

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

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

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

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

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

- www.ai.org/legislative/iac/t03260/a00020.pdf (http://www.ai.org/legislative/iac/t03260/a00020.pdf).) New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.
- 7. For more information on air permits visit: http://www.in.gov/idem/4223.htm (http://www.in.gov/idem/4223.htm), or to initiate the IDEM air permitting process, please contact the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or OAMPROD atdem.state.in.us.

### LAND QUALITY

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

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

### FINAL REMARKS

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

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

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

## Signature(s) of the Applicant

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

## **Project Description**

Marquette Greenway Trail - Singing Sands Connector

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:	
Signature of the INDOT  Project Engineer or Other Responsible Agent	Jami Erdmann
Date:4/22/20	Jami Erdmann
Signature of the For Hire Consultant	

Mark Herald

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

Early Coordination/Environmental Assessment

DNR #:

ER-22080

Request Received: December 20, 2019

Requestor:

VS Engineering, Inc

Alan Ball

4275 North High School Road Indianapolis, IN 46254

Project:

Marquette Greenway Trail - Singing Sands Connector: construction of a 10' wide paved

trail along the north side of Grand Beach Drive between El Portal Drive and the

Michigan state line, Michiana Shores; Des #1592335

County/Site info:

LaPorte

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.

have permitting authority, all recommendations are voluntary.

\*NOTE: This project is within the Lake Michigan Coastal Program's boundary; therefore,

it may be subject to Federal Consistency (FC) review. Please go to

http://www.in.gov/dnr/lakemich/files/20070214-IR-312070085NRA.xml.pdf (Section III, pages 8-16) to see the federal activities that require a project to go through the FC

process which is outlined at http://www.in.gov/dnr/lakemich/6041.htm.

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.

The plant species below have been documented within 1/2 mile of the project area. The Division of Nature Preserves does not anticipate any impacts to these plant species as a result of this project.

1. Finely-nerved Sedge (Carex leptonervia), state endangered

2. Deep-root Clubmoss (Diphasiastrum tristachyum), state threatened

3. Shining Ladies'-tresses (Spiranthes lucida), state rare

Fish & Wildlife Comments:

1) Forested/Riparian Habitat:

We recommend a mitigation plan be developed (and submitted with the permit application, if required) for any unavoidable habitat impacts that will occur. The DNR's Floodway Habitat Mitigation guidelines (and plant lists) can be found online at:

http://www.in.gov/legislative/iac/20190130-IR-312190041NRA.xml.pdf.

Impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10"

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

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

#### Early Coordination/Environmental Assessment

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

- 1. Revegetate all bare and disturbed areas 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. Do not cut any trees suitable for Indiana bat or Northern Long-eared bat roosting (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
- 3. 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.
- 4. 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.
- 5. Do not excavate or place fill in any riparian wetland.

Contact Staff:

Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife
Our agency appreciates this opportunity to be of service. Please contact the above staff member at (317) 232-4080 if we can be of further assistance.

Date: January 15, 2020

Christie L. Stanifer

Environ. Coordinator

Division of Fish and Wildlife

FW: Early Coordination, Des 1592335, Marquette Greenway – Singing Sands Connector, Michiana Shores, IN

#### Herber, Lisa <LHerber1@dnr.IN.gov>

Fri 1/3/2020 12:35 PM

To: Leigh Montano <LMontano@vsengineering.com>

Cc: Bronson, Bob <br/>bbronson@dnr.IN.gov>



1592335 ECL.pdf; Indiana as of 12-31-17.xlsx;

Ms. Montano, This project does not appear to impact a Land and Water Conservation (LWCF) site or Natural, Scenic, and Recreational River System. Our office does not need to be coordinated with if you are not directly impacting either of these resources. Attached is a list of LWCF sites by county from the National Park Service for your use and to share at your office until NPS gets their new website up. Any impacts to State properties should be coordinated with us as some of the LWCF grants covered multiple properties but they are not specifically named on the list.

#### Sincerely,

#### Lisa Herber

Grants Coordinator Indiana Department of Natural Resources Division of Outdoor Recreation 402 W. Washington Street, W271 Indianapolis, Indiana 46204

Phone: 317-232-4074 Email: <u>LHerber1@dnr.IN.gov</u>

\* Please let us know about the quality of our service by taking this brief customer survey.

From: Marisavljevic, Amy

**Sent:** Friday, December 20, 2019 11:45 AM **To:** Herber, Lisa <LHerber1@dnr.IN.gov>

Subject: FW: Early Coordination, Des 1592335, Marquette Greenway – Singing Sands Connector, Michiana Shores,

IN

This is NOT a NLT project. This came in from Dale, it's just a cc since this project got funded from INDOT. They are most likely just checking to make sure there are no or no significant impacts on LWCF projects. Todd told me you were the correct person to pass this along to.

#### Amy Marisavljevic

Trails Section Chief

<u>Division of Outdoor Recreation</u>

Indiana Department of Natural Resources
402 W. Washington St. W271

Indianapolis, IN 46204

<u>amarisvljevic@dnr.in.gov</u>
317-232-4067

Like us on Facebook!

\* Please let us know about the quality of our service by taking this brief customer survey.

From: Brier, Dale

Sent: Friday, December 20, 2019 11:10 AM

To: Marisavljevic, Amy < AMarisavljevic@dnr.IN.gov >

Subject: Fw: Early Coordination, Des 1592335, Marquette Greenway – Singing Sands Connector, Michiana Shores,

IN

Is this NLT? Will you forward to the right grants folks please?

Dale Brier
Division Director
Division of Outdoor Recreation
Department of Natural Resources
402 W. Washington St. W271
Indianapolis, IN 46204
317-232-4072
www.dnr.IN.gov

From: Leigh Montano < LMontano@vsengineering.com >

**Sent:** Friday, December 20, 2019 10:39 AM

Subject: Early Coordination, Des 1592335, Marquette Greenway – Singing Sands Connector, Michiana Shores, IN

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

Attached is a request for early coordination for a multi-use trail project along Grand Beach Road, between El Portal Drive and the Indiana/Michigan state line in Michiana Shores, LaPorte County, Indiana (INDOT Des. # 1592335). Please let me know if you have questions or need any further information.

#### **LEIGH MONTANO**

NEPA Specialist

P: 317.293.3542 ext. 156



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### **Organization and Project Information**

**Project ID:** 16-3509 Des. ID: 1592335

**Project Title:** Marquette Greenway Trail - Singing Sands Connector

Name of Organization: VS Engineering Requested by: Leigh Montano

## **Environmental Assessment Report**

#### Geological Hazards:

- High liquefaction potential
- Floodway

#### 2. Mineral Resources:

- Bedrock Resource: Low Potential
- Sand and Gravel Resource: Low Potential

#### 3. Active or abandoned mineral resources extraction sites:

· None documented in the area

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

#### **DISCLAIMER:**

This document was compiled by Indiana University, Indiana Geological Survey, using data believed to be accurate; however, a degree of error is inherent in all data. This product is distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of these data and document to define the limits or jurisdiction of any federal, state, or local government. The data used to assemble this document are 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: January 22, 2020







## Metadata:

- https://maps.indiana.edu/metadata/Geology/Seismic Earthquake Liquefaction Potential.html
- https://maps.indiana.edu/metadata/Geology/Industrial\_Minerals\_Sand\_Gravel\_Resources.html
- https://maps.indiana.edu/metadata/Hydrology/Floodplains\_FIRM.html
- $\bullet \ https://maps.indiana.edu/metadata/Geology/Bedrock\_Geology.html$

RE: Early Coordination, Des 1592335, Marquette Greenway – Singing Sands Connector, Michiana Shores, IN

#### Sharkey, Ashley <AsSharkey@indot.IN.gov>

Thu 1/2/2020 4:25 PM

To: Leigh Montano <LMontano@vsengineering.com>

Hi Leigh -

Thank you for contacting the La Porte district environmental team. We do not have any comments on this project at this time.

Thank you,

#### Ashley

From: Leigh Montano [mailto:LMontano@vsengineering.com]

Sent: Friday, December 20, 2019 9:40 AM

Subject: Early Coordination, Des 1592335, Marquette Greenway – Singing Sands Connector, Michiana Shores, IN

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Attached is a request for early coordination for a multi-use trail project along Grand Beach Road, between El Portal Drive and the Indiana/Michigan state line in Michiana Shores, LaPorte County, Indiana (INDOT Des. # 1592335). Please let me know if you have questions or need any further information.

#### **LEIGH MONTANO**

NEPA Specialist P: 317.293.3542 ext. 156



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December 30, 2019

Alan Ball VS Engineering, Inc. 4275 North High School Road Indianapolis, Indiana 46254

Dear Mr. Ball:

The proposed project to proceed with the Marquette Greenway Trail – Singing Sands Connector in LaPorte County, (Des No. 1592335) as referred to in your letter received December 20, 2019, will not cause a conversion of prime farmland.

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

Sincerely,

JERRY RAYNOR State Conservationist



## United States Department of the Interior Fish and Wildlife Service



Indiana Field Office (ES) 620 South Walker Street Bloomington, IN 47403-2121 Phone: (812) 334-4261 Fax: (812) 334-4273

January 10, 2020

Mr. Alan Ball VS Engineering, Inc. 4275 North High School Road Indianapolis, Indiana 46254

Project No.: Des. 1592335

Project: Singing Sands Trail Connector Location: Michiana Shores, LaPorte County

Dear Mr. Ball:

This responds to your letter dated December 20, 2019, requesting our comments on the aforementioned project.

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

The proposed project consists of the construction of approximately 1.02 miles of multiuse trail between El Portal Drive at Michiana Shores and the Michigan State Line. The 10-foot wide paved trail will follow the north side of Grand Beach Road for its entire length. Additional permanent right-of-way will be required and approximately 0.6 acre of tree clearing will be necessary due to the heavily wooded nature of the roadside habitat.

#### **ENDANGERED SPECIES**

The proposed project is within the range of the Federally endangered Indiana bat (*Myotis sodalis*), piping plover, (*Charadrius melodus*), and Mitchell's satyr butterfly (*Neonympha mitchellii*), and the threatened northern long-eared bat (*Myotis septentrionalis*) and eastern massasauga rattlesnake (*Sistrurus catenatus*). There is no habitat for the piping plover, Mitchell's satyr, or eastern massasauga within the proposed project area; impacts to the 2 bat species will be evaluated utilizing the Range-wide Programmatic Consultation process, as determined through Section 7 consultation between the U.S. FWS and the Federal Highway Administration.

This precludes the need for further consultation on this project for the piping plover, Mitchell's satyr, and eastern massasauga as required under Section 7 of the Endangered Species Act of 1973, as amended. 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.

We appreciate the opportunity to comment on this proposed project. Please keep us informed as project planning progresses. For further discussion, please contact Elizabeth McCloskey at (219) 983-9753 or elizabeth\_mccloskey@fws.gov.

Sincerely yours,

/s/ Elizabeth S. McCloskey

for Scott E. Pruitt Supervisor

Sent via email January 10, 2020; no hard copy to follow.



## 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: May 05, 2020

Consultation Code: 03E12000-2020-SLI-1274

Event Code: 03E12000-2020-E-06318

Project Name: Des. 1592335, Marquette Greenway/Singing Sands Connector Trail East, LaPorte

Co.

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: 03E12000-2020-SLI-1274

Event Code: 03E12000-2020-E-06318

Project Name: Des. 1592335, Marquette Greenway/Singing Sands Connector Trail East,

LaPorte Co.

Project Type: TRANSPORTATION

Project Description: The project is located in northern LaPorte County, near Michiana Shores

(INDOT Des. No. 1592335). The project extends northeast along Old Grand Beach Road from El Portal Drive (called Meer Road or CR 600W

to the south of US 12) to the Indiana/Michigan state line.

The purpose of the project is to link multiple phases of the Singing Sands Trail to the Indiana-Michigan state line, where the trail will continue to New Buffalo, Michigan. The Singing Sands Trail is a component of the regional Marquette Trail, which begins on the south side of Chicago and ends in southwest Michigan.

This project will install a 10'-wide paved trail on the north side of Old Grand Beach Road. The trail will be offset from the edge of Grand Beach Drive by 4 to 5 feet. All construction activities will take place within 30 feet from edge of pavement. Installation will include an asphalt trail and ADA-compliant curb ramps and curbs at public road intersections. The total project length is 1.02 miles. There will be approximately 3.5 acres of permanent right-of-way that will be acquired for this project, 1.1 acres of which is reacquisition of the apparent existing right-of-way. Suitable summer habitat is located adjacent to the project. There will be approximately 0.6 acre of tree clearing for the installation of the trail. The dominant tree species are pin oak (Quercus palustris), white oak (Quercus alba), flowering dogwood (Cornus florida), sugar maple (Acer saccharum), and sassafras (Sassafras albidum). The trees will be removed in the winter of 2022-2023. All work will occur outside of wetlands and waterways. Excavation will be 2 to 3 feet. Temporary lighting may be used during construction. No permanent lighting will be installed. Construction will begin in September 2022 and take approximately 9 months to complete.

The USFWS bat layer query was completed on 10/2/2019 by INDOT LaPorte District and concluded no presence of endangered bat species within 0.5 mile of the project area.

#### **Project Location:**

Approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/place/41.755287666273816N86.80815795276081W">https://www.google.com/maps/place/41.755287666273816N86.80815795276081W</a>



Counties: LaPorte, 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 Fisheries<sup>1</sup>, 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.

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

#### **Mammals**

NAME STATUS

#### Indiana Bat *Myotis sodalis*

Endangered

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

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

Species survey guidelines:

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

#### Northern Long-eared Bat Myotis septentrionalis

Threatened

No critical habitat has been designated for this species.

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

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

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

#### **Critical habitats**

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



## 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: May 05, 2020

Consultation Code: 03E12000-2020-I-1274 Event Code: 03E12000-2020-E-06315

Project Name: Des. 1592335, Marquette Greenway/Singing Sands Connector Trail East, LaPorte

Co.

Subject: Concurrence verification letter for the 'Des. 1592335, Marquette Greenway/Singing Sands Connector Trail East, LaPorte Co.' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects

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

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request to verify that the **Des. 1592335, Marquette Greenway/Singing Sands Connector Trail East , LaPorte Co.** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

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

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

Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO.

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

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

### **Project Description**

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

#### Name

Des. 1592335, Marquette Greenway/Singing Sands Connector Trail East, LaPorte Co.

#### Description

The project is located in northern LaPorte County, near Michiana Shores (INDOT Des. No. 1592335). The project extends northeast along Old Grand Beach Road from El Portal Drive (called Meer Road or CR 600W to the south of US 12) to the Indiana/Michigan state line.

The purpose of the project is to link multiple phases of the Singing Sands Trail to the Indiana-Michigan state line, where the trail will continue to New Buffalo, Michigan. The Singing Sands Trail is a component of the regional Marquette Trail, which begins on the south side of Chicago and ends in southwest Michigan.

This project will install a 10'-wide paved trail on the north side of Old Grand Beach Road. The trail will be offset from the edge of Grand Beach Drive by 4 to 5 feet. All construction activities will take place within 30 feet from edge of pavement. Installation will include an asphalt trail and ADA-compliant curb ramps and curbs at public road intersections. The total project length is 1.02 miles. There will be approximately 3.5 acres of permanent right-of-way that will be acquired for this project, 1.1 acres of which is reacquisition of the apparent existing right-of-way. Suitable summer habitat is located adjacent to the project. There will be approximately 0.6 acre of tree clearing for the installation of the trail. The dominant tree species are pin oak (Quercus palustris), white oak (Quercus alba), flowering dogwood (Cornus florida), sugar maple (Acer saccharum), and sassafras (Sassafras albidum). The trees will be removed in the winter of 2022-2023. All work will occur outside of wetlands and waterways. Excavation will be 2 to 3 feet. Temporary lighting may be used during construction. No permanent lighting will be installed. Construction will begin in September 2022 and take approximately 9 months to complete.

The USFWS bat layer query was completed on 10/2/2019 by INDOT LaPorte District and concluded no presence of endangered bat species within 0.5 mile of the project area.

## **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<sup>[1]</sup>?
  - [1] See Indiana bat species profile

Automatically answered

Yes

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

- 9. Will the project remove *any* suitable summer habitat<sup>[1]</sup> 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<sup>[1][2]</sup> been conducted<sup>[3][4]</sup> **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**<sup>[1][2]</sup>?
  - [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?

- 14. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors occur<sup>[1]</sup>?
  - [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**<sup>[1][2]</sup>?
  - [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 *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

No

- 20. Are *all* trees that are being removed clearly demarcated? *Yes*
- 21. Will the removal of habitat or the removal/trimming of trees include installing new or replacing existing **permanent** lighting?
  No

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

No

23. Does the project include slash pile burning?

No

- 24. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)?

  No
- 25. 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

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

Yes

- 28. Will the project install new or replace existing **permanent** lighting? *No*
- 29. 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

30. 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.

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

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

#### Automatically answered

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

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

#### 35. 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?

#### 36. 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<sup>[1]</sup> 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

#### 37. 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

#### 38. Tree Removal AMM 4

Can the project avoid cutting down/removal of *all* (1) **documented**<sup>[1]</sup> Indiana bat or NLEB roosts<sup>[2]</sup> (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

#### 39. Lighting AMM 1

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

### **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<sup>[1]</sup> of trees are proposed for removal between 0-100 feet of the existing road/rail surface?

[1] If described as number of trees, multiply by 0.09 to convert to acreage and enter that number. 0.6

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

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

#### **GENERAL AMM 1**

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

#### **LIGHTING AMM 1**

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

#### TREE REMOVAL AMM 1

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

#### TREE REMOVAL AMM 2

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

#### TREE REMOVAL AMM 3

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

#### TREE REMOVAL AMM 4

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

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

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

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

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



- 317.293.3542
- www.vsengineering.com

## **APPENDIX D:**

## **MPPA DOCUMENTATION**

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

**Date:** 1/10/20

**Project Designation Number:** 1592335 **Route Number:** N/A **Project Description:** Marquette Greenway Trail - Singing Sands Connector The project is located in northern LaPorte County, near Michiana Shores (INDOT Des. No. 1592335). The project extends northeast along Grand Beach Drive from El Portal Drive (called Meer Road or CR 600W to the south of US 12) to the Indiana/Michigan state line. The purpose of the project is to link multiple phases of the Singing Sands Trail to the Indiana-Michigan state line, where the trail will continue to New Buffalo, Michigan. The Singing Sands Trail is a component of the regional Marquette Trail, which begins on the south side of Chicago and ends in southwest Michigan. This project will install a 10'-wide paved trail on the north side of Grand Beach Drive. The trail will be offset from the edge of Grand Beach Drive by 4 to 5 feet. All construction activities will take place within 30 feet from edge of pavement. Installation will include an asphalt trail and ADA-compliant curb ramps and curbs at public road intersections. The total project length is 1.02 miles. There will be approximately 3.5 acres of permanent right-of-way that will be acquired for this project, 1.1 acres of which is reacquisition of the apparent existing right-of-way. There will be no work within any water resources. There will be approximately 0.6 acre of tree clearing for the installation of the trail. Excavation will be 2 to 3 feet. Feature crossed (if applicable): N/A Michigan Township and Springfield Township **Township:** City/County: Michiana Shores, LaPorte County Information reviewed (please check all that apply): General project location map USGS map Aerial photograph  $\boxtimes$ Written description of project area General project area photos Previously completed archaeology reports Interim Report  $\bowtie$ Previously completed historic property reports Soil survey data Bridge inspection information Other (please specify): SHAARD GIS; online street-view imagery; LaPorte County property records (accessed via https://beacon.schneidercorp.com/?site=LaPorteCountyIN) Okray, Jillian and Veronica Parsell 2020 Phase Ia Archaeological Records Review and Reconnaissance for Marquette Trail/Singing Sands Connector Trail East, LaPorte County, Indiana. Report of file, Indiana Department of Transportation, Cultural Resources Office, Indianapolis, In. Last revised 9-23-08 Page 1 of 3

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#### Results of the Records Review for Above-Ground Resources:

With regard to above-ground resources, an INDOT Cultural Resources historian who meets the 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 LaPorte County. No listed resources are located near the project area.

The LaPorte County Interim Report (1989; Michigan Township Scattered Sites and Springfield Township 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. No IHSSI properties are located adjacent to the project area.

Properties adjacent to the project area consist of wooded areas, railroad right-of-way, late twentieth-century houses, and a late twentieth-century agricultural facility (Red Arrow Stables). None of the properties adjacent to the project area possess the significance, integrity, and age necessary to be considered potentially eligible for the National Register.

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

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

Jillian Okray and Veronica Parsell/January 8, 2020

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

An archaeological records check and Phase Ia reconnaissance survey of the project area were conducted by Cardno (Okray and Parsell 2020). The records check found that the project area had not been previously examined for archaeological resources and that no previously recorded sites have been identified within or adjacent to it. A 3.0 acre survey area was examined through the excavation of 125 shovel probes. Seventy-one shovel tests were negative for artifacts, sixty-two shovel tests showed evidence of previous disturbance, and twenty-two shovel tests were unexcavated due to driveways, utilities, or roads. No evidence for archaeological deposits was identified. The report was reviewed by INDOT Cultural Resources personnel who meet the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61. It is our opinion that the report is acceptable, and we concur with the evaluations and recommendations made by Cardno (Okray and Parsell 2020). Therefore, there are no archaeological concerns.

<b>Does the project appear to fall under the Minor Projects PA?</b> ye	es.	⊠no	
--	-----	-----	--

#### If yes, please specify category and number (applicable conditions are highlighted):

B-8. Construction of pedestrian facilities including trails, multi-use paths, greenways, and associated minor activities defined below, 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 met (EITHER Condition i or Condition ii must be satisfied):

Last revised 9-23-08 Page 2 of 3

- Work occurs within areas previously disturbed by vertical and horizontal construction activities, including existing roadway, sidewalk, or rail bed, and is not on, within or adjacent to a National Register listed or eligible site; 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 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 DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.

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

Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource.

Activities associated with this category include the following:

- Pavement surface installation, replacement, rehabilitation, resurfacing, and reconstruction work, including widening, laying down of crushed stone or gravel, shoulder treatments, pavement repair, seal coating, pavement grinding, pavement marking, etc.;
- Installation of new signals, signage, and other traffic control devices;
- Installation of new safety appurtenances such as guardrails and barriers;
- Installation of plant materials and hardscape landscaping elements, including, but not limited to bike racks, benches, trash cans, lighting, and other amenities;
- Trail heads and parking lots;
- Installation of pipes, culverts, and pedestrian bridges.

#### If no, please explain:

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

#### INDOT Cultural Resources staff reviewer(s): Anthony Ross and Shaun Miller

\*\*\*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.

Last revised 9-23-08 Page 3 of 3

Phase la Archaeological Records Review and Reconnaissance for Marquette Trail, LaPorte County, Indiana

INDOT Des. No. 1592335







## INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF HISTORIC PRESERVATION AND ARCHAEOLOGY

402 West Washington Street, Room W274 Indianapolis, Indiana 46204-2739 Telephone Number: (317) 232-1646 Fax Number: (317) 232-0693 E-mail: dhpa@dnr.IN.gov

Where applicable, the use of this form is recommended but not required by the Division of Historic Preservation and Archaeology.

Author: Jillian Okray				
	Date (month, day, year):	December 17, 2019		
Project Title: Phase la Indiana	Archaeological Records Re	view and Reconnaiss	ance for Marquette Trail, LaPorte County,	
	PROJ	ECT OVERVIEW		
Project Description:	trail segment near Michiana The proposed trail segment Trail East. The northern por	a Shores in LaPorte Co t is part of the Marquet rtion of the proposed tr north side of Old Grar	connaissance was completed for a proposed bunty, Indiana (INDOT Des. No 1592335). te Greenway Trail/Singing Sands Connector rail begins at the Indiana/Michigan Border, and Beach Road, to the intersection with	
INDOT Designation Num	ber/ Contract Number: 159	2335	Project Number:	
DHPA Number:		Approved DHPA P	lan Number:	
Prepared For: VS Engir	neering			
Contact Person: Alan B	all			
Address: 4275 N High	School Road			
City: Indianapolis		State: IN	ZIP Code: 46254	
Telephone Number: 3	17-293-3542	E-mail Address:	aball@vsengineering.com	
Principal Investigator: Veronica Parsell				
Signature: Vewom	- Pauxell			
Company/Institution:	Cardno, Inc.			
Address: 3901 Industr	ial Boulevard			
City: Indianapolis		State: IN	ZIP Code: 46254	
Telephone Number: 3	17-388-1982	E-mail Address:	veronica.parsell@cardno.com	

	archaeological reconnaissance has located no and that the project be allowed to proceed as planno	chaeological sites within the project area and it is ed.
have the poter	archaeological reconnaissance has determined to ntial to contain buried archaeological deposits. It connaissance be conducted before the project is	is recommended that Phase Ic archaeological
	archaeological reconnaissance has determined the metery Development Plan is required per IC-14	
Cemetery Name:		
Other Recommend	encountered. Many exca associated with road, ra these findings, Cardno of adverse impacts to arch further testing of the pro	survey, no archaeological sites were avated probes showed evidence of disturbances ilway, and residence construction. Based on letermines that the proposed project will have no aeological resources and recommends that no ject area be required. Should the project footprint tigation may be required.
demolition, or earth	21-1, if any archaeological artifacts or human rentered moving activities, state law (Indiana Code 14-2 to the Department of Natural Resources within two	-1-27 and 29) requires that the discovery
	Attachments	
	project location within Indiana.	
□ USGS topograp	phic map showing the project area (1:24,000sca	le).
	aph showing the project area, land use and surve	ey methods.
□ Photographs of     □	f the project area.	
☐ Project plans (i	if available)	
Other Attachments	Figures 1-10.7, Project Photographs (1-12)	
References Cited:	Indiana. Midwest Archaeological Center Department of the Interior, National Paccopy on file at the Indiana Department Preservation and Archaeology.  Clifton, James A. 1986 People of the Three Fires: The Ottawa Michigan Indian Press, Grand Rapids,  Department of Natural Resources-Division of FDHPA] 2007 State Historic Architectural and Archae	Historic Preservation and Archaeology [DNR-eological Research Database (SHAARD). gov/apps/dnr/shaard/welcome.html, accessed
		a Historic Sites and Structures Inventory.



- **317.293.3542**
- www.vsengineering.com

## **APPENDIX E:**

## **RED FLAG & HAZARDOUS MATERIALS**



Date: January 8, 2020

To: Site Assessment & Management

Environmental Policy Office - Environmental Services Division

Indiana Department of Transportation 100 N Senate Avenue, Room N642

Indianapolis, IN 46204

From: Leigh Montano, Environmental Scientist

VS Engineering, Inc. 4275 N High School Road Indianapolis, IN 46254

Imontano@vsengineering.com

Re: **RED FLAG INVESTIGATION** 

> DES # 1592335, Local Project Bike/Pedestrian Facilities

Marquette Greenway – Singing Sands Connector

LaPorte County, Indiana

PROJECT DESCRIPTION: The project is located in northern LaPorte County, near Michiana Shores. The project extends northeast along Grand Beach Drive from El Portal Drive (called Meer Road or CR 600W to the south of US 12) to the Indiana/Michigan state line.

The purpose of the project is to link multiple phases of the Singing Sands Trail to the Indiana-Michigan state line, where the trail will continue to New Buffalo, Michigan. The Singing Sands Trail is a component of the regional Marquette Trail, which begins on the south side of Chicago and ends in southwest Michigan.

This project will install a 10'-wide paved trail on the north side of Grand Beach Drive. The trail will be offset from the edge of Grand Beach Drive by 4 to 5 feet. The total project length is 1.02 miles.

Bridge and/or Culvert Project: Yes □ No ⊠ Structure #
If this is a bridge project, is the bridge Historical? Yes $\square$ No $\square$ , Select $\square$ Non-Select $\square$
(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 □ # Acres Permanent ⊠ # Acres <u>3.3</u> , Not Applicable □
Type of excavation: Excavation will be limited to 2-3 feet for path installation.
Maintenance of traffic: This project will utilize advance warning signs as the maintenance of traffic.
Flaggers may be used to restrict traffic temporarily. Two-way traffic will be maintained throughout
construction.
Work in waterway: Yes $\square$ No $\boxtimes$ Below ordinary high water mark: Yes $\square$ No $\square$
State Project: ☐ LPA: ☒



Any other factors influencing recommendations: N/A

#### **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	N/A	Recreational Facilities	2	
Airports <sup>1</sup>	N/A	Pipelines	N/A	
Cemeteries	N/A	Railroads	1	
Hospitals	N/A	Trails	2	
Schools	N/A	Managed Lands	1	

<sup>&</sup>lt;sup>1</sup>In order to complete the required airport review, a review of public airports within 3.8 miles (20,000 feet) is required.

#### Explanation:

Recreational Facilities: There are two recreational facilities within the 0.5 mile search radius of the project area. The nearest of these facilities, the Red Arrow Stable, is immediately adjacent to the project area. Coordination with the owner will occur.

Railroads: There is one railroad within the 0.5 mile search radius of the project area. The Amtrak Railroad runs adjacent to the project area. Coordination with INDOT Utilities and Railroads will occur.

Trails: There are two trails within the 0.5 mile search radius of the project area. The closest of these, the Singing Sands - Lighthouse Trail, is planned to end at the intersection of Meer Road and US 12. Coordination with Michigan City Parks and Recreation will occur.

Managed Lands: There is one managed land within the 0.5 mile search radius of the project area. This managed land, the Ambler Flatwoods, is 0.44 mile southeast of the project area. No impacts are expected.



#### WATER RESOURCES TABLE AND SUMMARY

Water Resources Indicate the number of items of coplease indicate N/A:	oncern found wit	thin the 0.5 mile search radius. If th	nere are no items,
NWI - Points	N/A	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	39
Canal Structures – Historic	N/A	Lakes	5
NPS NRI Listed	N/A	Floodplain - DFIRM	13
NWI-Lines	4	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	N/A	Sinkhole Areas	N/A
Rivers and Streams	11	Sinking-Stream Basins	N/A

#### Explanation:

NWI Wetlands: There are 39 NWI wetlands located within the 0.5 mile radius of the project area. The closest of these is 0.03 mile west of the project area. A Waters of the US Report is recommended and coordination with the appropriate agency, if applicable, will occur.

Lakes: There are five lakes located within the 0.5 mile radius of the project area. The closest of these is 0.33 mile south of the project area. No impacts are expected.

Floodplain – DFIRM: There are 13 floodplains located within the 0.5 mile radius of the project area. The closest of these is immediately adjacent to the project area. Coordination with the appropriate agency, if applicable, will occur.

NWI-Lines: There are four NWI-lines located within the 0.5 mile radius of the project area. The closest of these is 0.02 mile southwest of the project area. A Waters of the US Report is recommended and coordination with the appropriate agency, if applicable, will occur.

Rivers and Streams: There are 11 river and stream segments located within the 0.5 mile search radius of the project area. The closest of these is 0.04 mile southwest of the project area. A Waters of the US Report is recommended and coordination with the appropriate agency, if applicable, will occur.

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

Explanation: This project lies within the Michigan City Urbanized Area Boundary. Post construction Storm Water Quality Best Management Practices (BMPs) may need to be considered. An early coordination letter with topographic and aerial maps showing the project area should be sent to the MS4 Coordinator at Michigan City Sanitary District, 1100 E 8<sup>th</sup> Street, Michigan City, IN 46360.



#### 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	Petroleum Wells N/A Mineral Resources N/A			
Mines – Surface	N/A	Mines – Underground	N/A	

Explanation: There are no mining or mineral exploration resources located within the 0.5 mile radius of the project area. No impacts are expected.

#### HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns Indicate the number of items of conceptease indicate N/A:	cern found witl	nin 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	N/A
State Cleanup Sites	N/A	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	1	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	N/A	Brownfields	N/A
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	1	Notice of Contamination Sites	N/A

#### Explanation:

Underground Storage Tank (UST) Sites: There is one UST site located within the 0.5 mile radius of the project area, Crazy D's, 10505 N. US Hwy 12 E, AI #35399. This UST site is 0.05 mile southeast of the project area. IDEM conducted an Underground Storage Tank Inspection on June 5, 2018 and the facility was found to be in compliance with the equipment, operating, and maintenance requirements set forth in Indiana's UST Rule 329 IAC 9. No impacts are expected.

Leaking Underground Storage Tanks (LUST) Sites: There is one LUST site located within the 0.5 mile search radius of the project area, Next Door Food Store #103, 10201 N. US Hwy 12 E, AI #32955. This



LUST site is 0.06 mile southeast of the project area. The site has had multiple releases of petroleum hydrocarbons and a contaminated groundwater plume extends off-site to the northwest beneath US 12, the project area, and multiple nearby residences. Depth to groundwater is sometimes less than 3 feet below ground surface. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.

#### **ECOLOGICAL INFORMATION SUMMARY**

The LaPorte 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 indicate the presence of ETR species. Coordination with USFWS and IDNR will occur.

A review of the USFWS database did not indicate 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 the most recent "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**

#### Infrastructure:

Railroad: The Amtrak Railroad runs adjacent to the project area. Coordination with INDOT Utilities and Railroads will occur.

Trails: The Singing Sands – Lighthouse Trail, is planned to end at the intersection of Meer Road and US 12. Coordination with Michigan City Parks and Recreation will occur.

Water Resources: The presence of the following water resources will require the preparation of a Waters of the US Report and coordination with appropriate agencies will occur:

One NWI-Line is adjacent to the project area.

One stream segment is adjacent to the project area.

One NWI-Wetland is adjacent to the project area.

This project is adjacent to a floodplain (coordination only).

UAB: This project lies within the Michigan City UAB. Post construction Storm Water Quality Best Management Practices (BMPs) may need to be considered. An early coordination letter with topographic and aerial maps showing the project area should be sent to the MS4 Coordinator at Michigan City Sanitary District, 1100 E 8th Street, Michigan City, IN 46360.

Mining/Mineral Exploration: N/A

HazMat Concerns: N/A



Ecological Information: Coordination with USFWS and IDNR will occur. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects."

INDOT Environmental Services concurrence:

Aaron Aldred Digitally signed by Aaron Aldred Date: 2020.01.09 15:32:50 -05'00' (Signature)

Prepared by: Leigh Montano

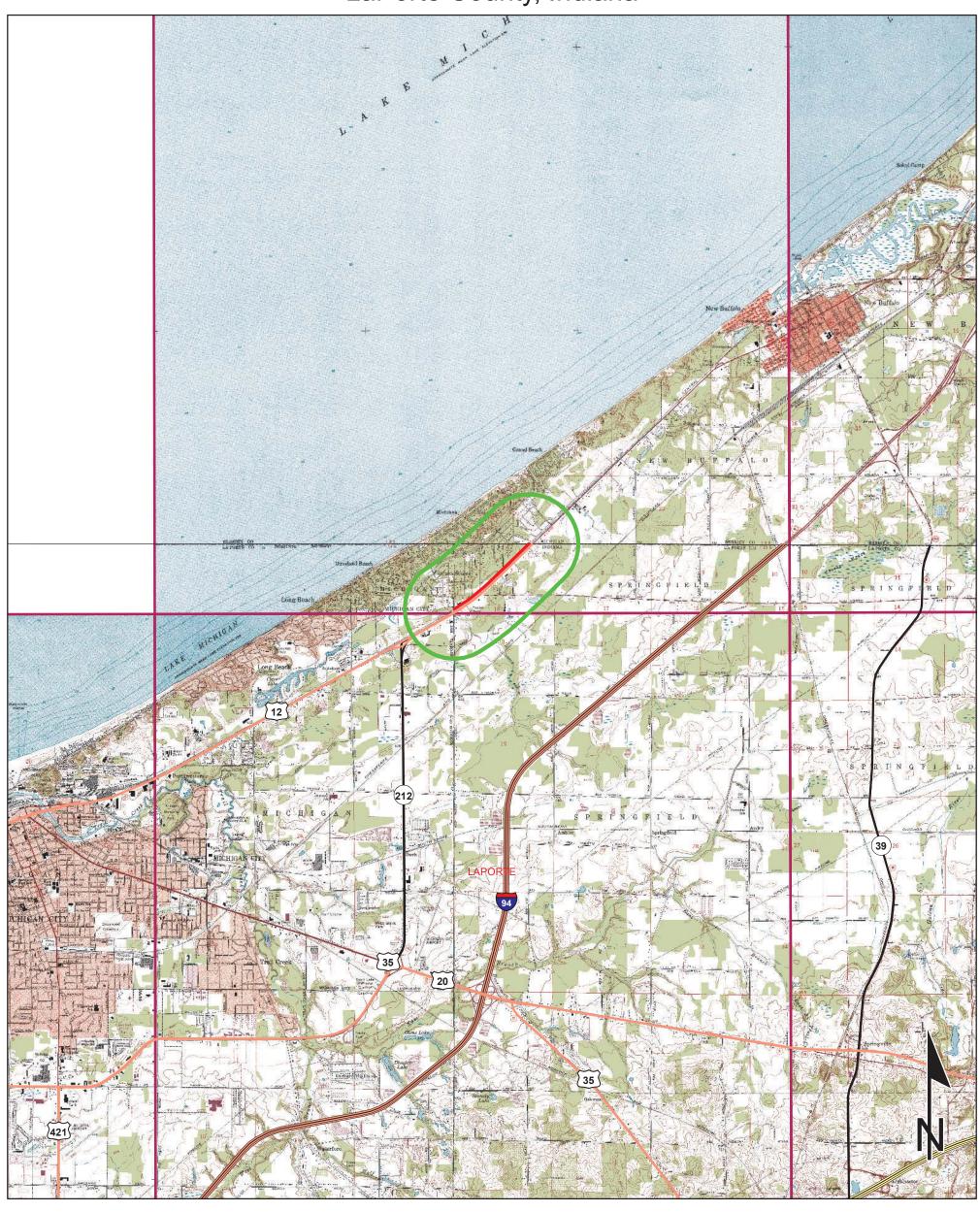
**Environmental Scientist** VS Engineering, Inc.

#### **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:	.N/A
HAZMAT CONCERNS:	.YES

# Red Flag Investigation - Project Location Marquette Greenway - Singing Sands Connector Des. No. 1592335 - Pedestrian trail LaPorte County, Indiana



Sources: 1 0.5 0 1

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

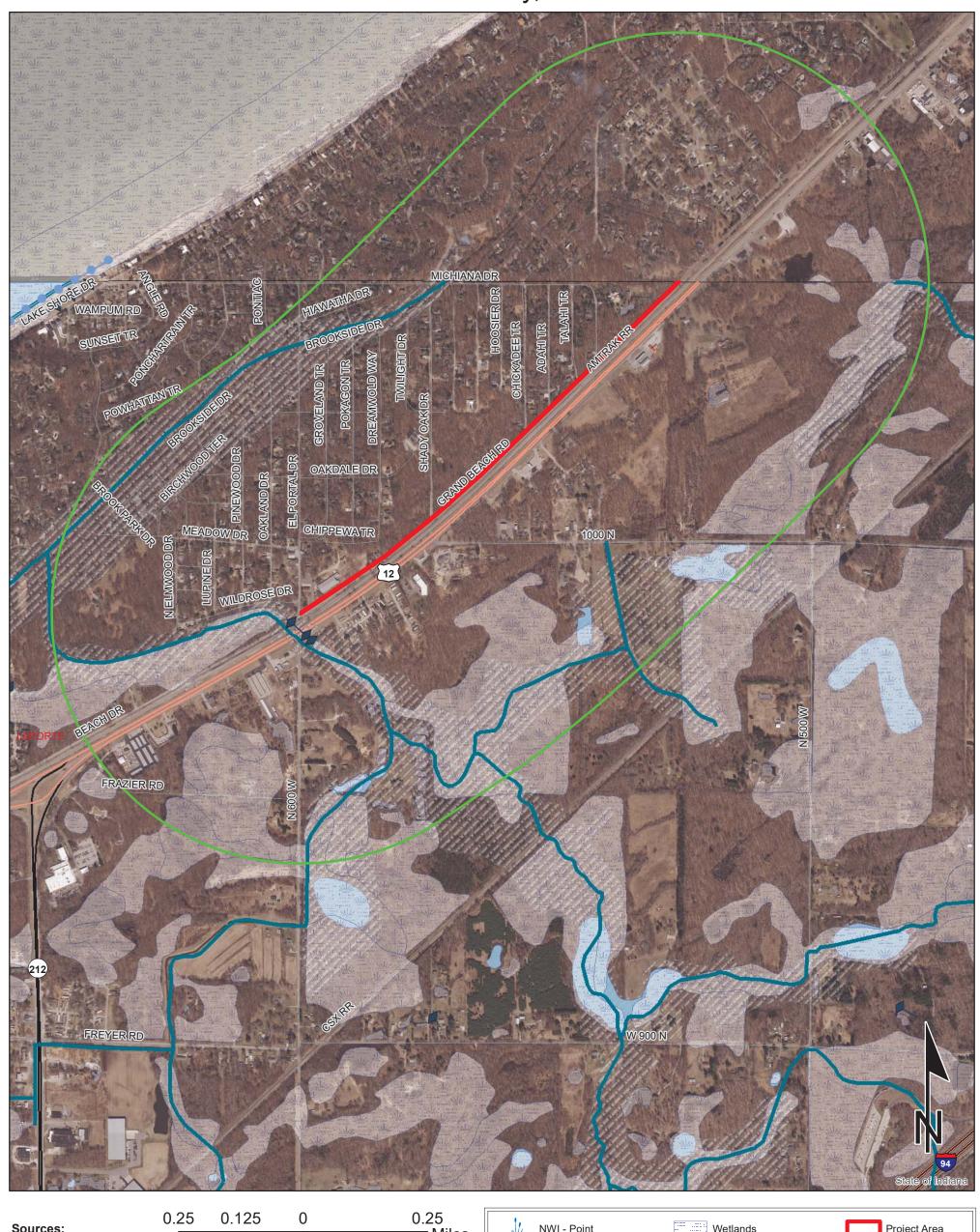
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

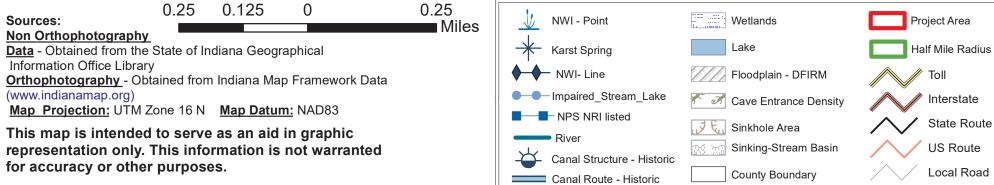
NEW BUFFALO WEST AND
MICHIGAN CITY EAST QUADRANGLES
INDIANA
7.5 MINUTE SERIES (TOPOGRAPHIC)

# Red Flag Investigation - Infrastructure Marquette Greenway - Singing Sands Connector Des. No. 1592335 - Pedestrian trail LaPorte County, Indiana

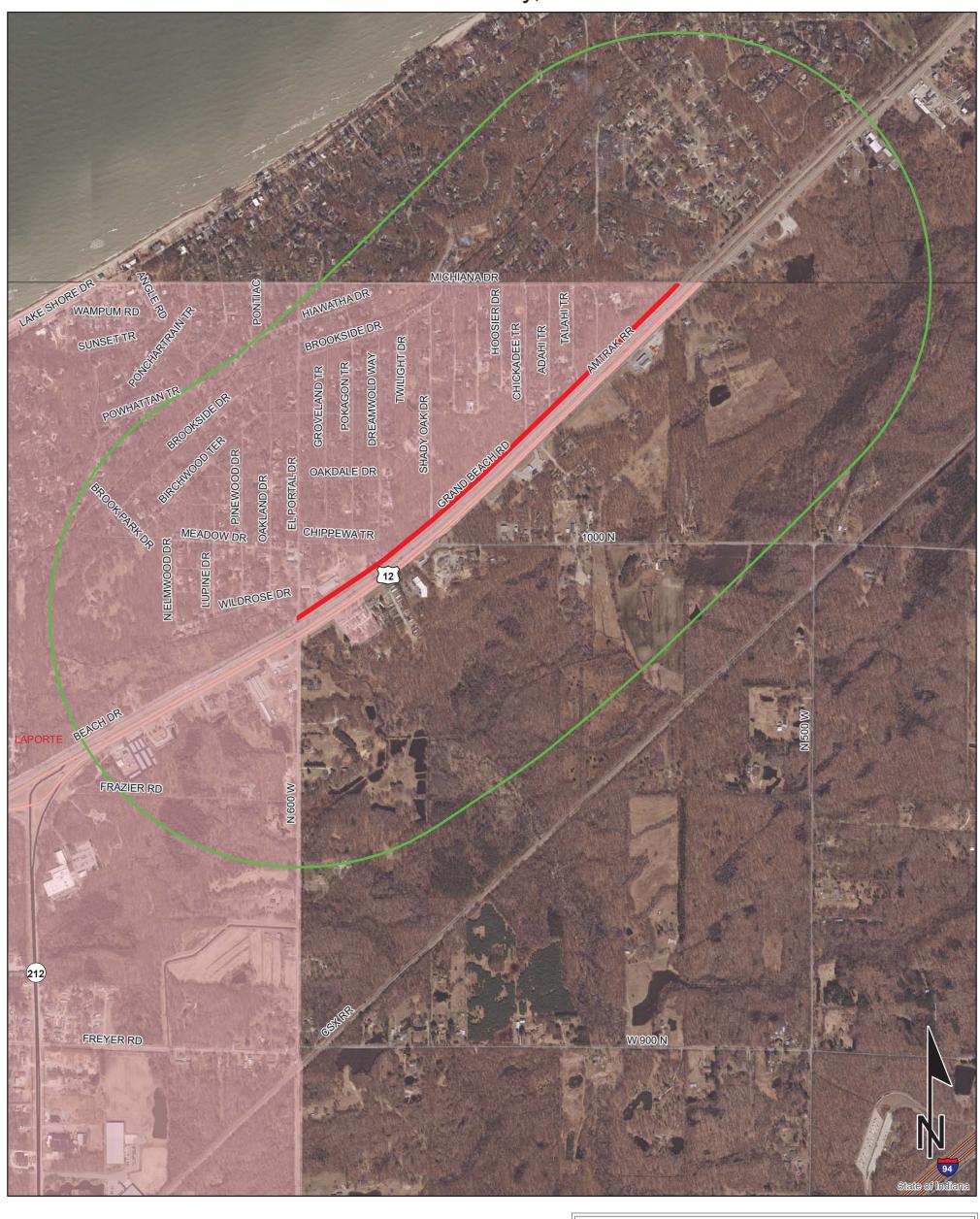


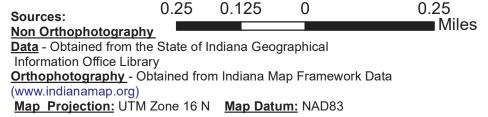
# Red Flag Investigation - Water Resources Marquette Greenway - Singing Sands Connector Des. No. 1592335 - Pedestrian trail LaPorte County, Indiana





# Red Flag Investigation - Urbanized Area Boundary Marquette Greenway - Singing Sands Connector Des. No. 1592335 - Pedestrian trail LaPorte County, Indiana



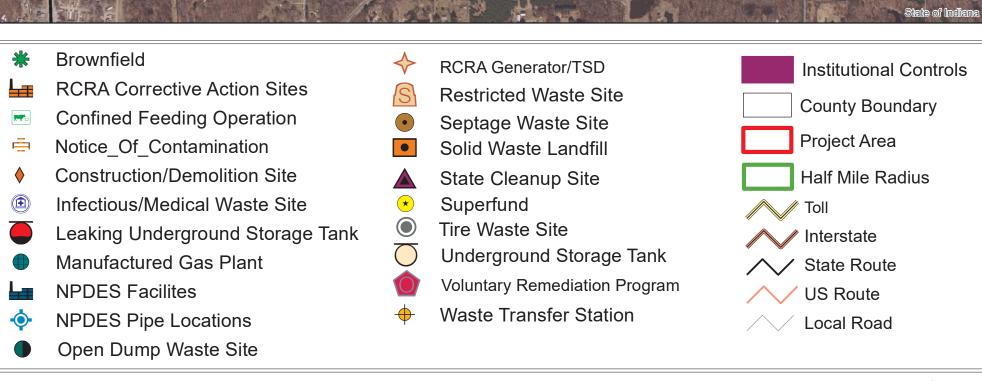


This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.



## Red Flag Investigation - Hazardous Material Concerns Marquette Greenway - Singing Sands Connector Des. No. 1592335 - Pedestrian trail LaPorte County, Indiana





0.25 0.125 0 0.25 Miles

This map is intended to serve as an aid in graphic

Sources:

Non Orthophotography

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

Orthophotography - Obtained from Indiana Map Framework Data

representation only. This information is not warranted for accuracy or other purposes for CE-2 Des. No. 1592335, Warquette Greenway Trail - Singing Sands Connector, LaPorte Co.

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

County: La Porte

Species Name		Common Name	FED	STATE	GRANK	SRANK
Mollusk: Gastropoda						
Lymnaea stagnalis		Swamp Lymnaea		SSC	G5	S2
<mark>Insect: Diptera</mark> Mydas tibialis		Golden Legged Mydas Fly		ST	GNR	S1S2
<mark>Insect: Homoptera</mark> Bruchomorpha extensa		The Long-nosed Elephant Hopper		SR	GNR	S2S3
Chlorotettix dentatus		The Long-nosed Elephant Hopper		SR	GNR	SNR
Cicadula straminea				ST	GNR	S2
Cosmotettix bilineatus		Two-lined cosmotettix		ST	GNR	S1S2
lexamia reflexus		Indiangrass Flexamia		ST	GNR	S2S3
aevicephalus acus		a leafhopper		SR	GNR	S2S3
Mesamia nigridorsum		A Leafhopper		SR	GNR	S2S3
Mesamia stramineus		Helianthus Leafhopper		SE	GNR	S1
Paraphlepsius maculosus		Peppered Paraphlepsius		ST	GNR	S1
		Leafhopper Leafhopper		<u></u>		
Polyamia caperata		Little Bluestem Polyamia		SR	<b>GNR</b>	SNR
Polyamia herbida		The Prairie Panic Grass		ST	<b>GNR</b>	S1S3
		Leafhopper				
Polyamia obtecta		Sand Panic Grass Leafhopper		SR	GNR	S2S3
Prairiana kansana		The Kansas Prairie Leafhopper		SE	GNR	S1S2
Scaphoideus ochraceus		a leafhopper		SR	GNR	SNR
nsect: Lepidoptera (Butterflies & Moths)						
Acronicta dactylina		Fingered Dagger Moth		SR	G5	SNR
Acronicta funeralis		Funerary Dagger Moth		SR	G5	SNR
Aethes patricia				SE	G3G4	S1
Agrotis stigmosa		Spotted Dart Moth		ST	G4	S1S2
naplectoides prasina		Green arches		SR	G5	S1S3
pamea burgessi		A Noctuid Moth		ST	G4	<b>S1</b>
pamea indocilis		The Spastic Apamea			G5	S1S3
pamea lignicolora		The Wood-colored Apamea		ST	G5	S1S2
pamea lutosa		Opalescent Apamea		SE	<b>GNR</b>	<b>S1</b>
pamea nigrior		Black-dashed Apamea		SR	G5	S2S3
pantesis virguncula		Little Virgin Tiger Moth		SR	G5	S1S2
trytonopsis hianna		Dusted Skipper		SR	G4G5	S2S3
Boloria selene myrina		Silver-bordered Fritillary		SR	G5T5	S2S3
Boloria selene nebraskensis		The Nebraska Silver Bordered Fritillary		SE	G5T3T4	S2S3
Capis curvata		Curved Halter Moth		ST	G5	S2S3
Catocala abbreviatella		The Abbreviated Leadplant Underwing Moth		SE	G4	<b>S1</b>
Catocala amestris		The Leadplant Underwing Moth		SE	G4	S1
Indiana Natural Heritage Data Center Division of Nature Preserves Indiana Department of Natural Resources This data is not the result of comprehensive county	Fed: State: GRANK:	LE = Endangered; LT = Threatened; C = candidate; SE = state endangered; ST = state threatened; SR = SX = state extirpated; SG = state significant; WL = Global Heritage Rank: G1 = critically imperiled global Heritage Rank:	state rare; SSC = watch list	state species		
i his data is not the result of comprehensive county surveys.		globally; $G4 =$ widespread and abundant globally by globally; $G? =$ unranked; $GX =$ extinct; $Q =$ uncertainty	nt with long term nin rank; T = tax	n concerns; G5 onomic subun	i = widespread and it rank	l abundant
	SRANK:	State Heritage Rank: S1 = critically imperiled in state G4 = widespread and abundant in state but with long state: SY = state extirmated: B = breeding status: S2	g term concern;	SG = state sign	nificant; SH = hist	orical in

unranked

state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status

County: La Porte

Species Name		Common Name	FED	STATE	GRANK	SRANK
Catocala gracilis		Graceful Underwing		SR	G5	S2S3
Catocala praeclara		Praeclara Underwing		SR	G5	S2S3
Catocala relicta		White Underwing		SR	G5	SNR
Crambus bidens		Forked Grass-veneer		SR	GNR	SNR
Crambus girardellus		Orange-striped Sedge Moth		SR	GNR	S2S3
Dargida rubripennis		The Pink Streak		ST	G3G4	S1
rynnis martialis		Mottled Duskywing		WL	G3	S3
ubaphe meridiana		Little Beggar Moth		SR.	G4	S2
ucosma bilineana		Little beggar Moth		SR	GNR	S1S2
ucosma biinicana ucosma bipunctella		A Moth		SR	GNR	S1S2
ucosma giganteana				SR	GNR	S1S2
uphydryas phaeton		Giant Eucosma		SK	G5	S3S4
		Baltimore		o.m		
agitana littera		The Marsh Fern Moth		ST	G4	S1S2
abara subnivosella		A Noctuid Moth		SR	G4	S1S2
Grammia phyllira		The Sand Barrens Grammia		SR	G4	S2S3
lesperia leonardus		Leonard's Skipper		SR	G5	S2S3
omophoberia cristata		Waterlily Moth		SR	G4	S1S3
lypenodes caducus		Large Hypenodes		SR	GNR	SNR
ethe eurydice fumosus		Smoky-eyed Brown		SE	G5T3T4	S1
<mark>eucania amygdalina</mark>		Salt Marsh Wainscot		SR	GNR	S2
eucania inermis		Unarmed Wainscot		SR	G5	S2S3
eucania multilinea		Many-lined Wainscot		SR	G5	S1S2
ycaena helloides		Purplish Copper		SR	G5	S2S3
lacrochilo absorptalis		Slant-lined Owlet		SR	G4G5	S2S3
lacrochilo hypocritalis		Twin-dotted Macrochilo		SR	G4	S2
lacrochilo louisiana		Louisiana Macrochilo		ST	G4	S1S2
lelanomma auricinctaria		Huckleberry Eye-spot Moth		SR	G4	S2S3
leropleon ambifusca		Newman's Brocade		ST	G3G4	S1S2
leropleon diversicolor		Multicolored Sedgeminer		SR	G5	S2S3
letanema determinata		<u> </u>		SR	GNR	SNR
eonympha mitchellii mitchellii		Dark Metanema	LE	SE SE	G2T2	S1
ola cilicoides		Mitchell's Satyr	LE	SR	G5 G5	SNR
otodonta scitipennis		Blurry-patched Nola Moth		SK	G5	S1S2
		Finned-willow Prominent		an.		
odontosia elegans		Elegant Prominent		SR	G5	S1S2
oligia obtusa		A Noctuid Moth		SE	G4	S1
apaipema beeriana		Beer's Blazing Star Borer Moth		ST	G2G4	S1S3
apaipema cerina		Golden Borer Moth		ST	G2G4	S1
apaipema harrisii		Heracleum Stem Borer Moth		SR	G4?	S3
apaipema limpida		The Ironweed Borer Moth		SR	G2G4	S1S2
apaipema lysimachiae		The St. John'Swort Borer Moth		SR	G4G5	S1S3
ndiana Natural Heritage Data Center	Fed:	LE = Endangered; LT = Threatened; C = candidate				
Division of Nature Preserves Indiana Department of Natural Resources	State:	SE = state endangered; ST = state threatened; SR = SX = state extirpated; SG = state significant; WL =		= state species	of special concer	n;
his data is not the result of comprehensive county	GRANK:	Global Heritage Rank: G1 = critically imperiled gl		periled globally	; G3 = rare or uno	common
irveys.		globally; G4 = widespread and abundant globally by				d abundant
	SRANK:	globally; G? = unranked; GX = extinct; Q = uncer State Heritage Rank: S1 = critically imperiled in st				on in state:

unranked

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

County: La Porte

Species Name		Common Name	FED	STATE	GRANK	SRANK
Papaipema maritima		The Giant Sunflower Borer Moth		ST	G3	S2
<sup>P</sup> apaipema rigida		Rigid Sunflower Borer Moth		SR	G4G5	S2S3
Papaipema rutila		Mayapple Borer Moth		SR	G4	S1S3
<sup>o</sup> apaipema sciata		The Culver's Root Borer		ST	G3	S1S2
<sup>o</sup> apaipema silphii		Silphium Borer Moth		ST	G3G4	S2
Papaipema speciosissima		The Royal Fern Borer Moth		ST	G4	S2S3
<sup>o</sup> arasa indetermina		Stinging Rose Caterpillar Moth		SR	G4	S1S2
<sup>P</sup> eoria gemmatella		Gemmed Cordgrass Borer		SR	<b>GNR</b>	<b>S1</b>
Photedes enervata		The Many-lined Cordgrass Moth		ST	G4	<b>S1</b>
Photedes includens		The Included Cordgrass Borer		ST	G4	<b>S1</b>
Photedes inops		Spartina Borer Moth		SR	G3G4	S2S3
Plagodis kuetzingi		Purple Plagodis		SR	G5	SNR
Poanes massasoit		Mulberry Wing Skipper			G4	S3S4
Poanes viator viator		Big Broad-winged Skipper		ST	G5T4	<b>S2</b>
Polites mystic		Long Dash Skipper			G5	S3S4
<sup>O</sup> olygonia progne		Gray Comma		SR	G5	S2S3
Problema byssus		Bunchgrass Skipper		ST	G3G4	S1S2
Pyreferra citrombra		Citrine Sallow		SR	GNR	SNR
<sup>o</sup> yreferra hesperidago		Mustard Sallow		SR	G5	SNR
Pyreferra pettiti		A Noctuid Moth		SR	G5	SNR
Resapamea stipata		The Four-lined Cordgrass Borer		SE	G4	<b>S1</b>
Sciota dammersi		Leadplant Leafwebber Moth		SE	GNR	<u>S1</u>
Sitochroa dasconalis		Pearly Indigo Borer		ST	GNR	S1S2
Spilosoma latipennis		The Red-legged Tussock Moth		SR	G4	S2S3
Γricholita notata		Marked Noctuid		ST	G5	S1S2
/irbia opella		Tawny Virbia		SR	G5	S2S3
Insect: Odonata (Dragonflies & Damselflie	es)					_
Cordulegaster bilineata		Brown Spiketail		SE	G5	<b>S3</b>
<u>-eucorrhinia frigida</u>		Frosted Whiteface		ST	G5	S2S3
Nannothemis bella		Elfin Skimmer		SE	G4G5	S1S2
Rhionaeschna mutata		Spatterdock Darner		ST	G4	S2S3
Sympetrum semicinctum		Band-winged Meadowhawk		SR	G5	S2S3
Insect: Orthoptera Chloealtis conspersa				CD	C5	S2S3
Melanoplus gracilis		Sprinkled Locust		SR	G5 G5	S1S2
vietariopius graciiis		Graceful Spur-throated Grasshopper		SR	<del>US</del>	5152
Neoconocephalus exiliscanorus		Slightly Musical Conehead		SR	GNR	SNR
Neoconocephalus nebrascensis		Nebraska Conehead		SR	GNR	S1S2
F <mark>ish</mark> Acipenser fulvescens		Lake Sturgeon		SE	G3G4	S1
Toponoor Idivooodilo		Lake Sturgeon		SE	3701	<u> </u>
Indiana Natural Heritage Data Center	Fed:	LE = Endangered; LT = Threatened; C = candidate		_	of anasial	···
Division of Nature Preserves Indiana Department of Natural Resources	State:	SE = state endangered; ST = state threatened; SR = SX = state extirpated; SG = state significant; WL =		state species	or special concer	11;
This data is not the result of comprehensive county	GRANK:	Global Heritage Rank: G1 = critically imperiled gl	lobally; G2 = imper			
surveys.		globally; G4 = widespread and abundant globally globally; G? = unranked; GX = extinct; Q = uncertainty				a abundant
	SRANK:	State Heritage Rank: S1 = critically imperiled in st	tate; S2 = imperiled	in state; S3	= rare or uncomn	
		G4 = widespread and abundant in state but with lo state; SX = state extirpated; B = breeding status; S	-	_		

unranked

County: La Porte

		Common Name	FED	STATE	GRANK	SRANK
chthyomyzon fossor		Northern Brook Lamprey		SE	G4	S
Moxostoma valenciennesi		Greater Redhorse		SE	G4	1
Rhinichthys cataractae		Longnose Dace		SSC	G5	S
Amphibian Acris blanchardi		Blanchard's Cricket Frog		SSC	G5	S4
Hemidactylium scutatum		Four-toed Salamander		SSC	G5	S2
Vecturus maculosus		Common mudpuppy		SSC	G5	S2
Reptile		Сонинон насарарру		220		
Clemmys guttata		Spotted Turtle	C	SE	G5	<b>S2</b>
Clonophis kirtlandii		Kirtland's Snake		SE	G2	<b>S2</b>
Emydoidea blandingii		Blanding's Turtle	C	SE	G4	<b>S2</b>
Opheodrys vernalis		Smooth Green Snake		SE	G5	<b>S2</b>
Sistrurus catenatus		Eastern Massasauga	LT	SE	G3	<b>S2</b>
errapene carolina carolina		Eastern Box Turtle		SSC	G5T5	S3
errapene ornata ornata		Ornate Box Turtle		SE	G5T5	<b>S1</b>
hamnophis proximus proximus		Western Ribbon Snake		SSC	G5T5	S3
Bird				25	C.4	CAD
Ammodramus henslowii		Henslow's Sparrow		SE	G4	S3B
urdea alba		Great Egret		SSC	G5	S1B
artramia longicauda		Upland Sandpiper		SE	G5	S3B
<mark>Botaurus lentiginosus</mark>		American Bittern		SE	G5	S2B
uteo platypterus		Broad-winged Hawk		SSC	G5	S3B
Certhia americana		Brown Creeper			G5	S2B
Chlidonias niger		Black Tern		SE	G4G5	S1B
Circus hudsonius		Northern Harrier		SE	G5	<b>S2</b>
Cistothorus palustris		Marsh Wren		SE	G5	S3B
<mark>Cistothorus platensis</mark>		Sedge Wren		SE	G5	S3B
mpidonax alnorum		Alder Flycatcher			G5	S2B
uphagus cyanocephalus		Brewer's Blackbird			G5	SHB,S1N
alco peregrinus		Peregrine Falcon		SSC	G4	S2B
Gallinula galeata		Common gallinule		SE	G5	S3B
Grus canadensis		Sandhill Crane		SSC	G5	S2B,S1N
laliaeetus leucocephalus		Bald Eagle		SSC	G5	S2
kobrychus exilis		Least Bittern		SE	G5	S3B
anius ludovicianus		Loggerhead Shrike		SE	G4	S3B
Iniotilta varia		Black-and-white Warbler		SSC	G5	S1S2B
lycticorax nycticorax		Black-crowned Night-heron		SE	G5	S1B
andion haliaetus		Osprey		SSC	G5	S1B
allus elegans		King Rail		SE	G4	S <sub>1</sub> B
Rallus limicola		Virginia Rail		SE	G5	S3B
ndiana Natural Heritage Data Center Division of Nature Preserves Indiana Department of Natural Resources This data is not the result of comprehensive county Surveys.	Fed: State: GRANK: SRANK:	LE = Endangered; LT = Threatened; C = cand SE = state endangered; ST = state threatened; SX = state extirpated; SG = state significant; V Global Heritage Rank: GI = critically imperile globally; G4 = widespread and abundant globa globally; G7 = unranked; GX = extinct; Q = u State Heritage Rank: SI = critically imperiled	SR = state rare; SSC WL = watch list ER = state rare; SSC ER = stat	e = state species  periled globally  m concerns; G5  axonomic subun	of special concer ; G3 = rare or und i = widespread and it rank	common id abundant

unranked

state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status

County: La Porte

Species Name		Common Name	FED	STATE	GRANK	SRANK
Setophaga cerulea		Cerulean Warbler		SE	G4	S3B
Setophaga citrina		Hooded Warbler		SSC	G5	S3B
Sturnella neglecta		Western Meadowlark		SSC	G5	S2B
Vilsonia canadensis		Canada Warbler			G5	S2B
Kanthocephalus xanthocephalus		Yellow-headed Blackbird		SE	G5	S1B
Mammal						
Condylura cristata		Star-nosed Mole		SSC	G5	S2?
asiurus borealis		Eastern Red Bat		SSC	G3G4	S4
lustela nivalis		Least Weasel		SSC	G5	S2?
lyotis lucifugus		Little Brown Bat	C	SE	G3	<b>S2</b>
lyotis septentrionalis		Northern Long Eared Bat	LT	SE	G1G2	<b>S2S3</b>
lyotis sodalis		Indiana Bat	LE	SE	G2	<b>S1</b>
permophilus franklinii		Franklin's Ground Squirrel		SE	G5	S2
axidea taxus		American Badger		SSC	G5	S2
ascular Plant				_	_	
ctaea rubra		Red Baneberry		ST	G5	S2
ndromeda glaucophylla		Bog Rosemary		ST	G5T5	S2
nticlea elegans var. glaucus		White Camas		SR	G5T4T5	<b>S3</b>
<mark>ralia hispida</mark>		Bristly Sarsaparilla		SE	G5	<b>S</b> 1
<mark>rctostaphylos uva-ursi</mark>		Bearberry		SR	G5	<b>S</b> 3
ristida intermedia		Slim-spike Three-awn Grass		WL	GNR	S3
<mark>ristida tuberculosa</mark>		Seabeach Needlegrass		SR	G5	<b>S</b> 3
<mark>etula papyrifera</mark>		Paper Birch		SR	G5	<b>S3</b>
etula populifolia		Gray Birch		WL	G5	S1
<mark>idens beckii</mark>		Beck Water-marigold		SE	G5	<b>S1</b>
<mark>otrychium matricariifolium</mark>		Chamomile Grape-fern		SR	G5	<b>S3</b>
rachyelytrum aristosum		Northern shorthusk		SE	G5	S1
alla palustris		Wild Calla		SE	G5	S1
arex arctata		Black Sedge		ST	G5	S2
arex atherodes		Awned Sedge		SE	G5	<b>S1</b>
arex atlantica ssp. capillacea		Howe Sedge		SE	G5T5?	S1
arex aurea		Golden-fruited Sedge		SR	G5	S3
arex brunnescens		Brownish Sedge		ST	G5	S2
arex cephaloidea		Thinleaf Sedge		ST	G5	S2
arex chordorrhiza		Creeping Sedge		SE	G5	<u>S1</u>
arex debilis var. rudgei		White-edge Sedge		WL	G5T5	S3
arex echinata		Little Prickly Sedge		SE	G5	<u>S1</u>
arex flava		Yellow Sedge		ST	G5	<b>S2</b>
arex folliculata		Long Sedge		SR	G5	<b>S</b> 3
Carex leptonervia		Finely-nerved Sedge		SE	G5	<b>S1</b>
ndiana Natural Heritage Data Center Division of Nature Preserves ndiana Department of Natural Resources This data is not the result of comprehensive county urveys.	Fed: State: GRANK:	LE = Endangered; LT = Threatened; C = candi SE = state endangered; ST = state threatened; SX = state extirpated; SG = state significant; W Global Heritage Rank: G1 = critically imperile globally; G4 = widespread and abundant globa	SR = state rare; SSC VL = watch list d globally; G2 = in lly but with long te	C = state species  specified globally  rm concerns; G5	of special concerts; G3 = rare or un 5 = widespread ar	common
	SRANK:	globally; G? = unranked; GX = extinct; Q = un State Heritage Rank: S1 = critically imperiled G4 = widespread and abundant in state but wit state: SX = state extirmated: B = breeding statu	in state; S2 = imper h long term concern	iled in state; S3 n; SG = state sig	= rare or uncomm nificant; SH = his	storical in

unranked

state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status

County: La Porte

Carex limosa		Mud Sedge		SE	G5	<u>S1</u>
Carex pedunculata		Longstalk Sedge		WL	G5	S3
Carex scabrata		Rough Sedge		SE	G5	S1
Carex seorsa		Weak Stellate Sedge		SR	G5	S3
Carex trisperma		Three-seed Sedge		WL	G5	S3
Chimaphila maculata		Spotted Wintergreen		WL	G5	S3
Chimaphila umbellata ssp. cisatlantica		Pipsissewa		SE	G5T5	S1
Chrysosplenium americanum		American Golden-saxifrage		ST	G5	<b>S2</b>
Circaea alpina		Small Enchanter's Nightshade		SX	G5	SX
Cirsium pitcheri		Dune Thistle	LT	SE	G2G3	<b>S</b> 1
Clinopodium arkansanum		Calamint		ST	G5	<b>S2</b>
Clinopodium vulgare		American Wild Basil		WL	G5	S3
Conioselinum chinense		Hemlock Parsley		SE	G5	<b>S1</b>
Cornus rugosa		Roundleaf Dogwood		SR	G5	<b>S</b> 3
Corydalis sempervirens		Pale Corydalis		SE	G5	<b>S</b> 1
Cyperus dentatus		Toothed Sedge		SE	G4	S1
Cypripedium candidum		Small White Lady's-slipper		SR	G4	S3
Cypripedium parviflorum var. makasin		Small Yellow Lady's-slipper		SR	G5T4T5	S3
Dendrolycopodium hickeyi		Hickey's Clubmoss		SR	G5	S3
Dendrolycopodium obscurum		Tree Clubmoss		SR	G5	S3
Deschampsia cespitosa		Tufted Hairgrass		SR	G5	S3
Dichanthelium boreale		Northern Witchgrass		SR	G5	S3
Dichanthelium leibergii		Leiberg's Witchgrass		ST	G4	<b>S2</b>
Diervilla lonicera		Northern Bush-honeysuckle		WL	G5	S3
Diphasiastrum tristachyum		Deep-root Clubmoss		$\overline{ST}$	G5	S2
Drosera intermedia		Spoon-leaved Sundew		SR	G5	<b>S3</b>
Drosera rotundifolia		Roundleaf Sundew		WL	G5	S3
Oryopteris celsa		Log Fern		SE	G4	<b>S1</b>
Dryopteris clintoniana		Clinton Woodfern		SE	G5	<u>S1</u>
Eleocharis melanocarpa		Black-fruited Spike-rush		ST	G4	S2
Epigaea repens		Trailing Arbutus		SR	G5	S3
guisetum sylvaticum		Woodland Horsetail		SE	G5	S1
Equisetum variegatum var. variegatum		Variegated Horsetail		SE	G5T5	S1
Eriocaulon aquaticum		Pipewort		SE	G5	S1
Eriophorum angustifolium		Narrow-leaved Cotton-grass		SR	G5	S2
Eriophorum gracile		Slender Cotton-grass		ST	G5	S2
Eriophorum spissum		Dense Cotton-grass		SX	G5T5	SX
Eriophorum viridicarinatum		Green-keeled Cotton-grass		SR	G5	S2
allopia cilinodis		Fringed Black Bindweed		SE	G5	S1
ragaria vesca var. americana		Woodland Strawberry		SE	G5T5	S1
Indiana Natural Heritage Data Center	Fed:	LE = Endangered; LT = Threatened; C = candida	ate; PDL = propose	ed for delisting		
Division of Nature Preserves	State:	SE = state endangered; ST = state threatened; SR SY = state extirmated; SG = state significant; WI		= state species	of special concer	n;
Indiana Department of Natural Resources  This data is not the result of comprehensive county	GRANK:	SX = state extirpated; SG = state significant; WL Global Heritage Rank: G1 = critically imperiled		eriled globally	y; G3 = rare or uno	common
surveys.		globally; G4 = widespread and abundant globally	but with long term	n concerns; G	5 = widespread an	
	SRANK:	globally; G? = unranked; GX = extinct; Q = unc State Heritage Rank: S1 = critically imperiled in				non in state:

unranked

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

County: La Porte

Species Name		Common Name	FED	STATE	GRANK	SRANK
Gentiana puberulenta		Downy Gentian		SE	G4G5	S1
Geranium robertianum		Herb-robert		SR	G5	<b>S3</b>
Huperzia lucidula		Shining Clubmoss		WL	G5	S3
Hydrastis canadensis		Golden Seal		WL	G3G4	S3
Hypericum pyramidatum		Great St. John's-wort		ST	G4	S2
ex mucronata		Mountain Holly		SR	G5	<b>S3</b>
uglans cinerea		Butternut		ST	G4	S2
<mark>uncus articulatus</mark>		Jointed Rush		SE	G5	<u>S1</u>
uncus balticus var. littoralis		Baltic Rush		WL	G5T5	S3
<mark>uncus pelocarpus</mark>		Brown-fruited Rush		SE	G5	<b>S1</b>
uncus scirpoides		Scirpus-like Rush		ST	G5	S2
uniperus communis var. depressa		Ground Juniper		SR	G5T5	S3
arix laricina		Tamarack		ST	G5	S2
athyrus japonicus		Beach Peavine		SE	G5T4T5	S1
athyrus venosus		Smooth Veiny Pea		$\mathbf{SE}$	G5	<b>S1</b>
inum striatum		Ridged Yellow Flax		WL	G5	S3
onicera canadensis		American Fly-honeysuckle		SE	G5	<b>S1</b>
<mark>uzula acuminata</mark>		Hairy Woodrush		SE	G5	S1
ycopodiella inundata		Northern Bog Clubmoss		ST	G5	S2
ycopodium clavatum		Running Pine		WL	G5	S3
lalaxis unifolia		Green Adder's-mouth Orchid		SE	G5	<b>S1</b>
latteuccia struthiopteris		Ostrich Fern		SR	G5	S3
lelampyrum lineare		American Cow-wheat		SE	G5	<u>S1</u>
1ilium effusum		Tall Millet-grass		ST	G5	S1
linuartia michauxii var. michauxii		Michaux's Stitchwort		ST	G5T5	S2
lyosotis laxa		Smaller Forget-me-not		ST	G5	S2
/ /lyriophyllum pinnatum		Cutleaf Water-milfoil		SE	G5	S1
lajas gracillima		Thread-like Naiad		SR	G5?	S3
Denothera perennis		Small Sundrops		SR	G5	S3
Orthilia secunda		One-sided Wintergreen		SX	G5	SX
Oryzopsis asperifolia		White-grained Mountain-ricegrass		SE SE	G5 G5	S1
anax trifolius				WL	G5	S3
anicum verrucosum		Dwarf Ginseng		ST	G4	S2
ersicaria careyi		Warty Panic-grass		ST	G4	S2
inus banksiana		Carey's Smartweed			G5	S3
inus strobus		Jack Pine		SR SD	G5	S3
inus strobus iptatherum pungens		Eastern White Pine		SR	G5	SX
		Slender Mountain-ricegrass		SX		
iptochaetium avenaceum		Blackseed Needlegrass		SR	G5	S3
Platanthera aquilonis		Leafy Northern Green Orchis		ST	G5	S2
Platanthera ciliaris		Yellow-fringe Orchis		SE	G5	<u>S1</u>
ndiana Natural Heritage Data Center	Fed:	LE = Endangered; LT = Threatened; C = candidate;		_	6	
Division of Nature Preserves indiana Department of Natural Resources	State:	SE = state endangered; ST = state threatened; SR = state state extirpated; SG = state significant; WL = state state state significant; WL = state stat		= state species	of special concer	n;
This data is not the result of comprehensive county	GRANK:	Global Heritage Rank: G1 = critically imperiled glob	bally; G2 = imp			
urveys.		globally; G4 = widespread and abundant globally bu	_		-	d abundant
	SR ANK:	globally; G? = unranked; GX = extinct; Q = uncerta State Heritage Rank: S1 = critically imperiled in state				on in state:

unranked

State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; S3 = widespread and abundant in state but with long term concern; SG = state significant; SM = historical in state; SM = state extirpated; SM = breeding status; SM = unranked; SM = nonbreeding status

County: La Porte

Species Name		Common Name	FED	STATE	GRANK	SRANK
Platanthera leucophaea		Prairie White-fringed Orchid	LT	SE	G2G3	<u>S1</u>
latanthera psycodes		Small Purple-fringe Orchis		SR	G5	<b>S2</b>
oa alsodes		Grove Meadow Grass		SR	G4G5	S3
oa paludigena		Bog Bluegrass		SR	G3	S3
olygonella articulata		Eastern Jointweed		SR	G5	<b>S</b> 3
olytaenia nuttallii		Prairie Parsley		SE	G5	<b>S1</b>
otamogeton epihydrus		Nuttall Pondweed		SE	G5	S1
otamogeton friesii		Fries' Pondweed		SE	G5	<b>S1</b>
otamogeton praelongus		White-stem Pondweed		ST	G5	<b>S</b> 1
otamogeton pulcher		Spotted Pondweed		ST	G5	<b>S2</b>
otamogeton pusillus		Slender Pondweed		WL	G5	S2
otamogeton robbinsii		Flatleaf Pondweed		SR	G5	S3
otamogeton strictifolius		Straight-leaf Pondweed		ST	G5	S2
otamogeton vaseyi		Vasey's Pondweed		SE	G4	S1
otentilla anserina		Silverweed		ST	G5	<b>S2</b>
renanthes aspera		Rough Rattlesnake-root		SR	G4?	<b>S3</b>
runus pensylvanica		Fire Cherry		SR	G5	S3
yrola americana		American Wintergreen		ST	G5	<b>S2</b>
yrola elliptica		Elliptical-leaf Wintergreen		WL	G5	S3
hynchospora recognita		Globe Beaked-rush		SE	G5?	<u>S1</u>
hynchospora scirpoides		Long-beaked Baldrush		SR	G4	S3
cheuchzeria palustris ssp. americana		American Scheuchzeria		SE	G5T5	S1
lene regia		Royal Catchfly		SE	G3	<u>S1</u>
isyrinchium montanum		Strict Blue-eyed-grass		SE	G5	S1
olidago simplex var. gillmanii		Sticky Goldenrod		ST	G5T3?	S2
orbus decora				SX	G515.	SX
parganium androcladum		Northern Mountain-ash			G3 G4G5	S2
piranthes lucida		Branching Bur-reed		ST	G4G3 G4	S3
tyrax americanus		Shining Ladies'-tresses		SR	G4 G5	S3
<u> </u>		American Snowbell		SR		<u>=</u>
ymphyotrichum boreale		Rushlike Aster		ST	G5	S2
ymphyotrichum sericeum		Western Silvery Aster		ST	G5	S2
huja occidentalis		Northern White Cedar		SE	G5	S1
riantha glutinosa		False Asphodel		ST	G5	S2
r <mark>iglochin palustris</mark> 		Marsh Arrow-grass		ST	G5	<b>S2</b>
urritis glabra		Tower-mustard		WL	G5	S3
tricularia geminiscapa		Hidden-fruited Bladderwort		SE	G4G5	S1
tricularia minor		Lesser Bladderwort		ST	G5	S1
tricularia purpurea		Purple Bladderwort		SR	G5	S3
tricularia subulata		Zigzag Bladderwort		ST	G5	S2
accinium oxycoccos		Small Cranberry		ST	G5	<b>S2</b>
diana Natural Heritage Data Center	Fed:	LE = Endangered; LT = Threatened; C = candid		_		
ivision of Nature Preserves diana Department of Natural Resources	State:	SE = state endangered; ST = state threatened; SS SX = state extirpated; SG = state significant; W		- state species	or special concer	11,
his data is not the result of comprehensive county	GRANK:	Global Heritage Rank: G1 = critically imperiled	globally; G2 = im			
rveys.		globally; G4 = widespread and abundant globall globally; G? = unranked; GX = extinct; Q = unc			-	id abundant
	SRANK:					non in state:

unranked

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; SX = breeding status; SX = unranked; SX = unranked; SX = nonbreeding status

County: La Porte

Species Name	Common Name	FED	STATE	GRANK	SRANK
Valeriana edulis var. ciliata	Hairy Valerian		SE	G5T3	S
Valeriana uliginosa	Marsh Valerian		SE	G4	1
Valerianella chenopodiifolia	Goose-foot Corn-salad		WL	G4	S
Viburnum opulus var. americanum	Highbush-cranberry		SE	G5T5	1
Viola primulifolia	Primrose-leaf Violet		SR	G5	S
Wolffiella gladiata	Sword Bogmat		SE	G5	3
Xyris difformis	Carolina Yellow-eyed Grass		ST	G5	S
High Quality Natural Community				C20	-
Forest - flatwoods boreal	Boreal Flatwoods		SG	G2?	S2
Forest - floodplain wet-mesic	Wet-mesic Floodplain Forest		SG	G3?	S3
Forest - upland dry Northwestern Morainal	Northwestern Morainal Dry Upland Forest		SG	GNR	S1
Forest - upland dry-mesic Grand Prairie	Grand Prairie Dry-mesic Upland Forest		SG	GNR	S1
Forest - upland dry-mesic Northwestern Morainal	Northwestern Morainal Dry-mesic Upland Forest		SG	GNR	S1
Forest - upland mesic Grand Prairie	Grand Prairie Mesic Upland Forest		SG	GNR	S1
Forest - upland mesic Northwestern Morainal	Northwestern Morainal Mesic Upland Forest		SG	GNR	S1
Lake - lake	Lake		SG	GNR	S2
Prairie - dry-mesic	Dry-mesic Prairie		SG	G3	S2
Prairie - mesic	Mesic Prairie		SG	G2	S2
Prairie - sand dry	Dry Sand Prairie		SG	G3	S2
Prairie - sand dry-mesic	Dry-mesic Sand Prairie		SG	G3	S3
Prairie - sand wet-mesic	Wet-mesic Sand Prairie		SG	G1?	S2
Prairie - wet	Wet Prairie		SG	G3	S1
Wetland - bog acid	Acid Bog		SG	G3	S2
Wetland - bog circumneutral	Circumneutral Bog		SG	G3	S3
Wetland - fen	Fen		SG	G3	S3
Wetland - fen forested	Forested Fen		SG	G3	S1
Wetland - marsh	Marsh		SG	GU	S4
Wetland - meadow sedge	Sedge Meadow		SG	G3?	S1
Wetland - seep circumneutral	Circumneutral Seep		SG	GU	S1
Wetland - swamp shrub	Shrub Swamp		SG	GU	S2

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

Fed: 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

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

State:

GRANK:



- 317.293.3542
- www.vsengineering.com

# **APPENDIX F:**

**WATER RESOURCES** 



- 4275 North High School Road, Indianapolis, IN 46254
- 317.293.3542
- www.vsengineering.com

March 6, 2020

WATERS DETERMINATION REPORT Des. No. 1592335 Marquette Trail, Grand Beach Road, LaPorte County, Indiana

# I. Project Information

#### **Fieldwork Dates**

October 4, 2019

#### **Principal Investigator**

Mitchell Graham, Environmental Scientist

#### **Project Locations**

New Buffalo West, Indiana Quadrangle, The project location is within LaPorte County, Indiana Latitude: 41.755554°N

Longitude: -86.807745°W HUC 12: 040400010102

#### **Project Description**

The project is located in northern LaPorte County, near Michiana Shores (INDOT Des. No. 1592335). The project extends northeast along Grand Beach Drive from El Portal Drive (called Meer Road or CR 600W to the south of US 12) to the Indiana/Michigan state line.

The purpose of the project is to link multiple phases of the Singing Sands Trail to the Indiana-Michigan state line, where the trail will continue to New Buffalo, Michigan. The Singing Sands Trail is a component of the regional Marquette Trail, which begins on the south side of Chicago and ends in southwest Michigan.

This project will install a 10'-wide paved trail on the north side of Grand Beach Drive. The trail will be offset from the edge of Grand Beach Drive by 4 to 5 feet. All construction activities will take place within 30 feet from edge of pavement. Installation will include an asphalt trail and ADA-compliant curb ramps and curbs at public road intersections. The total project length is 1.02 miles. There will be approximately 3.5 acres of permanent right-of-way that will be acquired for this project, 1.1 acres of which is reacquisition of the apparent existing right-of-way. There will be no work within any water resources. There will be approximately 0.6 acre of tree clearing for the installation of the trail. Excavation will be 2 to 3 feet.

# II. Office Evaluation

#### Methodology

A desktop review of the study area was conducted to identify potential waters or waters of the U.S. (streams, wetlands, ponds, etc.). This included review of historic and recent aerial photography for any areas with a water signature or a sharp change in vegetation. Any such areas were flagged for field follow-up. USGS topographic mapping, NRCS mapped soil units, USGS Hydrography data, FEMA Floodplain mapping, and National Wetlands Inventory (NWI) mapping were also reviewed.

#### **USGS Mapping**

The USGS topographic map is shown in Attachment 2a and Attachment 2b. The project is within the *New Buffalo West, Indiana Quadrangle*. The topo map shows no streams crossing the study area.

#### **NRCS Mapped Soil Units**

The study area contains four mapped soil units (Attachment 4). The four dominant mapped soil units are Brems fine sand (BtA), Morocco loamy sand (MuuA), Oakville fine sand (OaC), and Saugatuck-Pipestone complex (Sa). Three of these soil units are included in the Indiana list of Hydric Soils within LaPorte County. Morocco loamy sand, Oakville fine sand, and Saugatuck-Pipestone complex have a very small component that is hydric. The four soil units within the study area are summarized in the table below.

**Table 1: Soils with the Study Area** 

Symbol	Description	Drainage Class	Hydric Rating
BtA	Brems fine sand	Moderately well drained	0%
MuuA	Morocco loamy sand	Lake plain	5%
OaC	Oakville fine sand	Newton	10%
Sa	Saugatuck-Pipestone complex	Newton	10%

#### Hydrology

The USGS National Hydrography Dataset (NHD) is shown on the map in Attachment 3. The NHD GIS layer shows no streams crossing the study area. The study area was investigated to determine if any resources will likely be considered jurisdictional.

#### **FEMA Floodplain Mapping**

The map in Attachment 3 shows the FEMA floodplains GIS layer near the study area. The proposed project does not cross any floodplain areas.

#### **NWI Mapping**

The National Wetland Inventory GIS layer is shown in Attachment 3. No wetlands are shown within the study area.

#### III. Field Reconnaissance

#### Methodology

VS Engineering conducted fieldwork on October 4, 2019 to determine the presence of wetlands, streams, and other water resources within the project limits. The survey footprint was limited to the side of the roadway proposed for trail construction and limited to approximately 50 feet from the edge of the pavement. When observed, features located adjacent to, but outside of the project limits were also noted. Resource maps showing all delineated features are attached for reference (Attachment 5). A hand-held GPS unit (TopCon Tesla Series) was used to collect the location of delineated resources.

Photographs were taken throughout the study area and specifically for each feature identified within the project limits. A photo location map and selected photographs are included within this report for reference (Attachment 5).

The study area was examined for wetlands using the guidance provided in the 1987 Corps Manual. Vegetation, soil, and hydrology data was considered using the methods described in the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0). Wetland indicator statuses for plants were obtained from the 2018 National Wetland Plant List.

Stream boundaries were delineated in the field at the ordinary high water mark (OHWM), which was obtained using a measuring tape. Streams with an OHWM are classified as perennial, intermittent or ephemeral. Two different function and value assessment methodologies could be used, depending on the size of the stream's immediate watershed (drainage area). These methodologies include the Qualitative Habitat Evaluation Index (QHEI) for larger streams and the Primary Headwater Habitat Evaluation Index (HHEI) for smaller streams.

#### Wetlands

No wetland resources were identified during the field survey.

#### **Streams**

No stream resources were identified during the field survey.

#### **Open Water**

No open water resources were identified during the field survey.

#### **Roadside Ditches**

No Roadside Ditches were identified during the field survey.

#### IV. Conclusions

The field investigation did not identify any resources that are likely considered Waters of the U.S. within the study area. If impacts will occur to any jurisdictional resources, waterway permits may be required from IDEM and the USACE.

These waterways are likely Waters of the U.S. Every effort should be taken to avoid and minimize impacts to the waterway and wetlands. If impacts are necessary, then mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the USACE.

# V. Acknowledgement

This waters determination has been prepared based on the best available information, interpreted in the light of the investigator's training, experience and professional judgement in conformance with the 1987 *Corps of Engineers Wetlands Delineation Manual*, the appropriate regional supplement, the USACE *Jurisdictional Determination Form Instructional Guidebook*, and other appropriate agency guidelines.

Prepared by: Mitchell Graham

Environmental Scientist mgraham@vsengineering.com (317) 293-3542 ext. 145

Mitchell Graham

VS Engineering, Inc.

# VI. References

Environmental Laboratory, 1987. U.S. Army Corps of Engineers Wetlands Delineation Manual. U.S. Army Engineer Waterways Experiment Station, Vicksburg, Miss. Technical Report Y-87-1. 207 p.

IndianaMAP, 2016. Indiana Geological Survey. Available online at <a href="http://www.indianamap.org/index.php">http://www.indianamap.org/index.php</a> [Accessed September 2019].

Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at <a href="http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm">http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm</a> [Accessed September 2019].

OEPA, 2006. Methods for Assessing Habitat in Flowing Waters: Using the Headwater Habitat Evaluation Index (HHEI). OEPA Technical Bulletin EAS/2006-06-1, Ohio Environmental Protection Agency, Division of Surface Water, Ecological Assessment Section. Columbus, OH.26 p.

U.S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0), ed. J.S. Wakely, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-10-16. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

U.S. Department of Agriculture, Natural Resources Conservation Service. 2018. Field indicators of hydric soils in the United States. Version 8.2. L.M. Vasilas, G.W. Hunt, and C.V. Noble, eds. USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

U.S. Fish and Wildlife Service, 2017. Wetlands Mapper, online at <a href="http://www.fws.gov/wetlands/Data/Mapper.html">http://www.fws.gov/wetlands/Data/Mapper.html</a> [Accessed September 2019].

USGS, 2006. Hydrography Local Resolution Flowline, NHD, State of Indiana Geographic Information Office, Indiana Geographic Information Council, AECOM.

USGS StreamStats, 2017. Online at http://water.usgs.gov/osw/streamstats/indiana.html . [Accessed September 2019].

#### **ATTACHMENTS**

Attachment 1 Study Area Map

Attachment 2a USGS Topographic Map

Attachment 2b USGS Topographic Map (TNW Connectivity)

Attachment 3 NWI, Hydrography, and Floodplain Map

Attachment 4 Soils Map

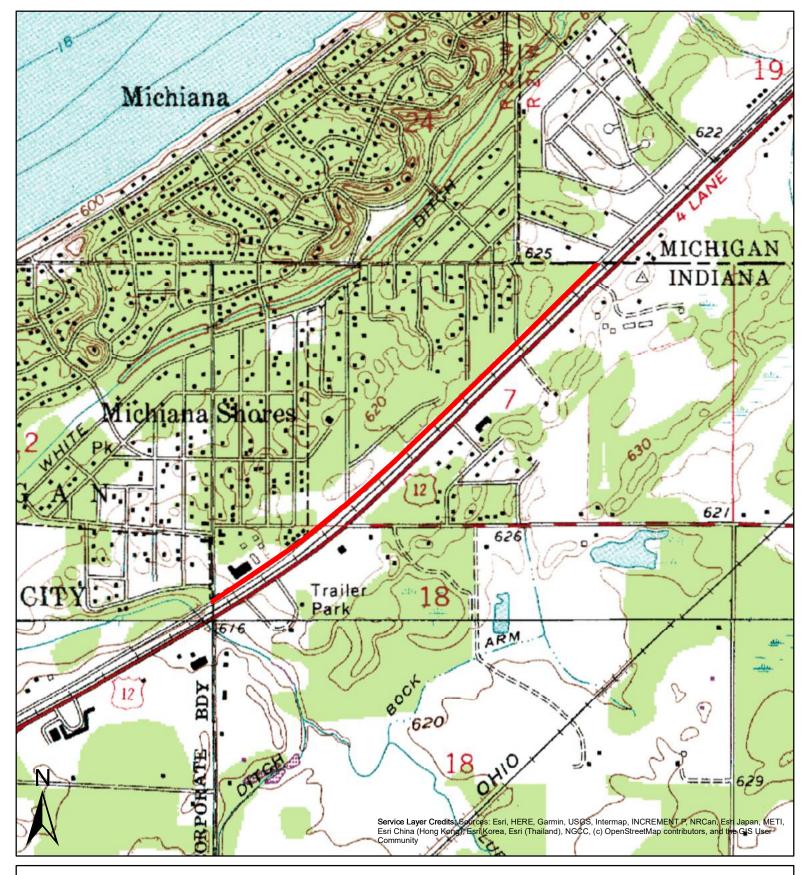
Attachment 5(a, b, c) Delineated Features and Photo Orientation Map

**Attachment 6** Study Area Photographs

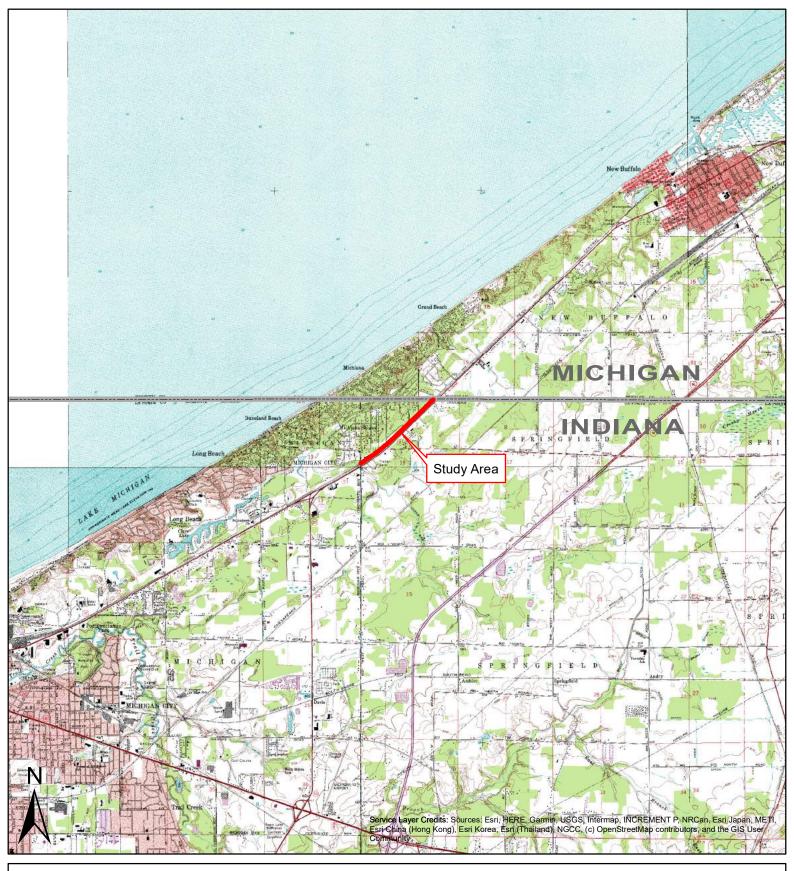
**Attachment 7** Preliminary Jurisdictional Determination Form







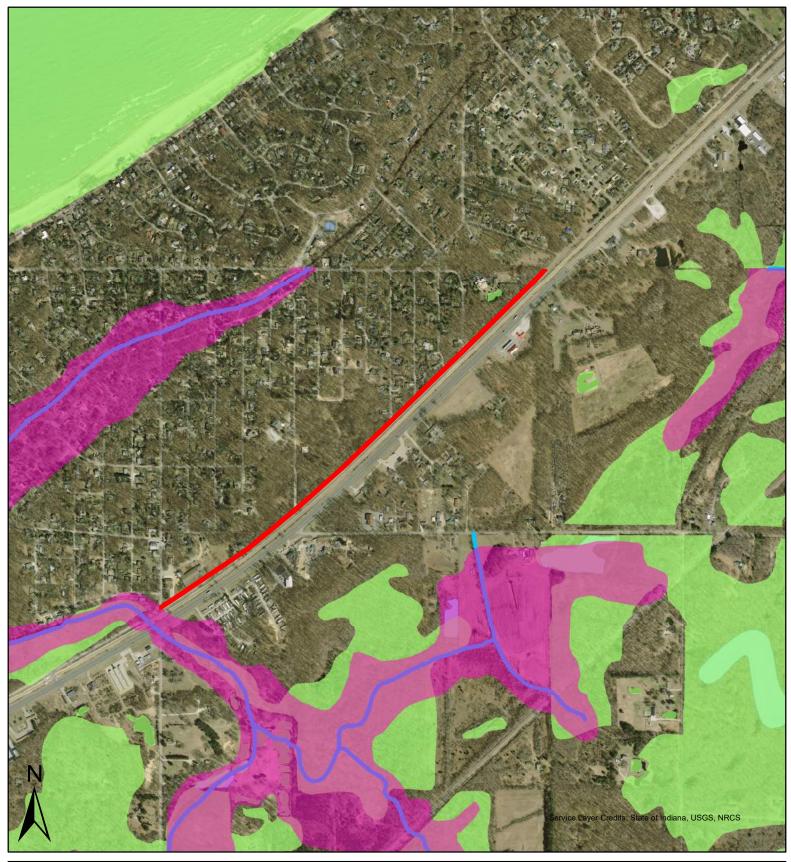


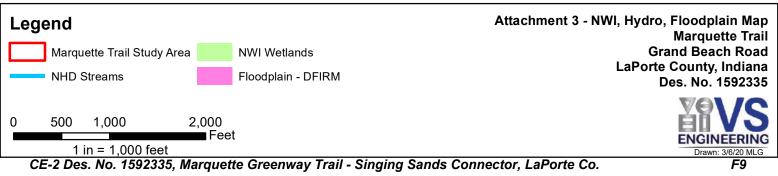


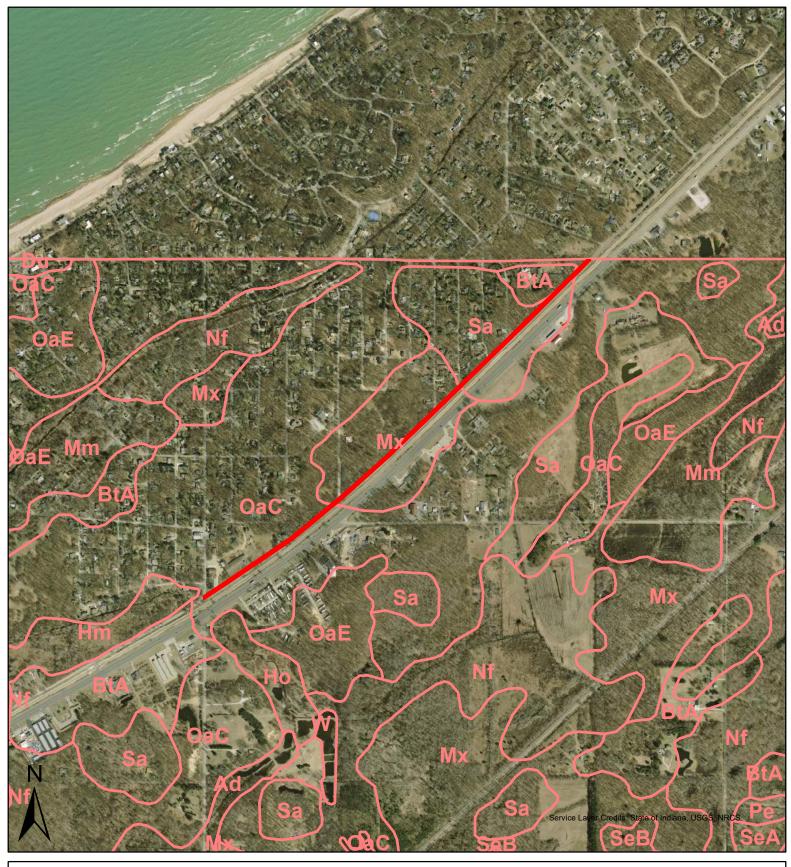


**Marquette Trail** Grand Beach Road LaPorte County, Indiana Des. No. 1592335



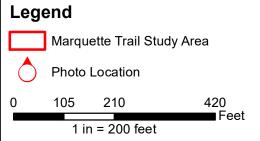








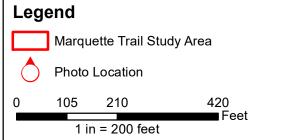




Attachment 5a - Delineated Features and Photo Key Marquette Trail Grand Beach Road LaPorte County, Indiana Des. No. 1592335



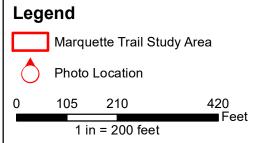




Attachment 5b - Delineated Features and Photo Key **Marquette Trail** Grand Beach Road LaPorte County, Indiana Des. No. 1592335







Attachment 5c - Delineated Features and Photo Key **Marquette Trail** Grand Beach Road LaPorte County, Indiana Des. No. 1592335



# Attachment 6: Study Area Photographs

Photographs taken October 4, 2019



Photo 1: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 2: View of the Marquette Trail study area along Grand Beach Road, looking southwest



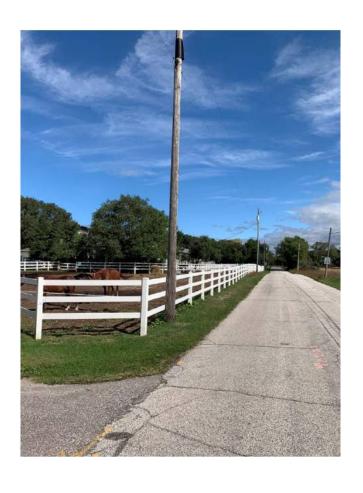


Photo 3: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 4: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 5: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 6: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 7: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 8: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 9: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 10: View of the Marquette Trail study area along Grand Beach Road, looking southwest



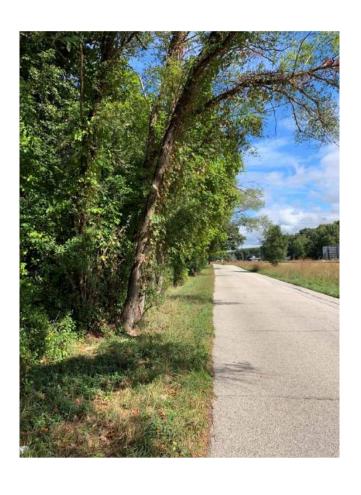


Photo 12: View of the Marquette Trail study area along Grand Beach Road, looking southwest

Photo 11: View of the Marquette Trail study area along Grand Beach Road, looking northeast





Photo 13: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 14: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 15: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 16: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 17: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 18: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 19: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 20: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 21: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 22: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 23: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 24: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 26:
View of the Marquette Trail study area along Grand Beach Road,

looking southwest

Photo 25: View of the Marquette Trail study area along Grand Beach Road, looking northeast





Photo 27: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 28: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 29: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 30: View of the Marquette Trail study area along Grand Beach Road, looking southwest

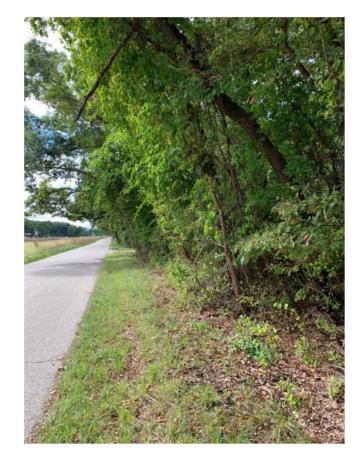




Photo 31: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 32: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 33: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 34: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 35: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 36: View of the Marquette Trail study area along Grand Beach Road, looking southwest





Photo 37: View of the Marquette Trail study area along Grand Beach Road, looking northeast

Photo 38: View of the Marquette Trail study area along Grand Beach Road, looking southwest



### **BACKGROUND INFORMATION**

A. REPORT COMPLETION DATE FOR PJD: March 6, 2020

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Mitchell Graham, VS Engineering, 4275 N

High School Rd, Indianapolis, IN

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

Marquette Trail, Grand Beach Road,

LaPorte County, Indiana

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: (Des. No. 1592335) (USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: IN County/parish/borough: LaPorte County City: N/A

Center coordinates of site (lat/long in degree decimal format):

Lat.: 41.755554°N Long.: -86.807745°W

Universal Transverse Mercator: 16N

Name of nearest waterbody: White Ditch

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APF	<b>PLY</b>	)
---	------------	---

Office (Desk) Determination	on. Date:
Field Determination. Date	e(s):

# TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
N/A	N/A	N/A	N/A	N/A	N/A

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic iurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

### SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

Maps, plans, plots or plat submit Map: Waters Report Attachments 1	ted by or on behalf of the PJD requestor: 1-6
Office concurs with data shee	by or on behalf of the PJD requestor. ets/delineation report. ata sheets/delineation report. Rationale:
☐ Data sheets prepared by the Co	rps:
Corps navigable waters' study: _	
U.S. Geological Survey Hydrolog	gic Atlas:
USGS NHD data.	
USGS 8 and 12 digit HUC ma	
U.S. Geological Survey map(s).	Cite scale & quad name: 7.5', New Buffalo West, Indiana Quadrangles
	Service Soil Survey. Citation:https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm
National wetlands inventory map	(s). Cite name: https://www.fws.gov/wetlands/Data/Mapper.html
	p(s):
FEMA/FIRM maps:	,
100-year Floodplain Elevation is:	:(National Geodetic Vertical Datum of 1929) & Date): Indiana orthophotography, 2012
or ■ Other (Name	& Date): Site photos in waters report, Attachment 5, October 2019
<u></u>	no. and date of response letter:
	v):
	,·
	recorded on this form has not necessarily
determinations.	d not be relied upon for later jurisdictional
	Metchell Graham 3/6/2020
Signature and date of	Signature and date of
Regulatory staff member completing PJD	person requesting PJD (REQUIRED, unless obtaining
	the signature is impracticable) <sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.



# **Indiana Floodplain Information Portal Report**

### **Point of Interest**

**Approximate Address:** 

30 MOHAWK TR

MICHIANA SHORES, IN 46360

**Effective Flood Zone:** 

**Preliminary Flood Zone:** 

**Best Available Flood Zone:** 

**Approximate Flood Elevation:** 

621.3ft NAVD88

Source:

Zone AE Profile Delineation

**Nearest Stream:** 

WHITE DITCH

## Map Legend

Point of Interest



Nearest Point on Stream

### **Best Available Flood Zone**

FEMA Zone AE Floodway

DNR Detailed Floodway

DNR Approximate Floodway

FEMA Zone A

FEMA Zone AE

**DNR Detailed Fringe** 

DNR Approximate Fringe

Additional Floodplain Area

FEMA Protected by Levee

FEMA Floodplain - Ponding (Depth)

FEMA Floodplain - Sheet Flow (Depth)

## Site Map with Best Available Flood Zone



Approximate scale 1:2,400



- 317.293.3542
- www.vsengineering.com

# **APPENDIX G:**

# **PUBLIC INVOLVEMENT**

### **NOTICE OF SURVEY**

April 20, 2016

RE:

Marquette Trail Project LaPorte County, Indiana

### Dear Property Owner:

Our information indicates that you own or occupy property near this proposed highway project. Our employees will be doing a survey of the project area in the near future. It may be necessary for them to come onto your property to complete this work. This is allowed by law by Indiana Code IC 8-23-7-26. They will show you their identification, if you are available, before coming onto your property. 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.

At this stage we generally do not know what effect, if any, our project may eventually have on your property. If we determine later that your property is involved, we will contact you with additional information.

The survey work will include mapping the location of features such as trees, buildings, fences and drives, and obtaining ground elevations. The survey work may also include the identification and mapping of wetlands, archaeological investigations (which may include excavation of small shovel test probes), and various other environmental studies. The survey is needed for the proper planning and design of this highway 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 contact our field crew or contact me at the phone number or address shown herein.

Sincerely,

V\$ Engineering, Inc. Matthew R. Healy, P.S.

Project Surveyor 317-293-3542, x-140

Des. No. 1592335



- 317.293.3542
- www.vsengineering.com

# **APPENDIX H:**

**AIR QUALITY** 



Droject	Overview

**Project Overview** Funding History Amendment History

### << Go Back

Title

Limits

### Bicycle & Pedestrian Facilities at Marquette /Singing Sands Trail (LPCO) (1592335)

Des Number	1592335	Amendment	20-06.3 ADMIN MOD	Exempt Category	Non-Exempt	Est Total Project Cost	\$1,218,573
Lead Agency	LaPorte County	Contact (ERC)	Jerry Sullivan 2193622051			County	LaPorte
Project Type	Other	Letting Date	02/01/2023	Functional Classification	Not Applicable	Bike/Ped Component(s)	Yes 100%

Bicycle & Pedestrian Facilities at Marquette /Singing Sands Trail (LPCO)

Marquette /Singing Sands Trail (LPCO) from IN/MI state line to Meer Rd of Distance (mile) 1.10

Along US 12 from IN/MI State Line to Meer Rd. This project is located just northeast of Michigan City and goes to the IN/MI county line. It is expected to be substantially complete Description by December 1 2023.

Phase	Fund Source	<b>Prior SFY</b>	SFY2020	SFY2021	SFY2022	SFY2023	SFY2024	Future SFY	Total
PE	Local Fund	-	\$25,910	-	-	-	-	-	\$25,910
PE	STBG Mich City UZA	-	\$103,638	-	-	-	-	-	\$103,638
	Total Preliminary Engineering	-	\$129,548	-	-	-	-	-	\$129,548
RW	Local Fund	-	-	\$26,455	-	-	-	-	\$26,455
RW	STBG Mich City UZA	-	-	\$105,820	-	-	-	-	\$105,820
	Total Right of Way	-	-	\$132,275	-	-	-	-	\$132,275
CN	Local Fund	-	-	-	-	\$191,351	-	-	\$191,351
CN	STBG Mich City UZA	-	-	-	-	\$765,399	-	-	\$765,399
	Total Construction	-	-	-	-	\$956,750	-	-	\$956,750
	Total Programmed	-	\$129,548	\$132,275	-	\$956,750	-	-	\$1,218,573

Map Coming Soon

State Preservation and Local Initiated Projects FY 2020 - 2024

SPONSOR	CONTR ACT#/ LEAD DES		ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	MATCH	2020	2021	2022	2023	2024
LaPorte County																		
LaPorte County	38992 / 1592335	A 04	IR 1023	Bike/Pedestrian Facilities	Marquette Greenway/Singing Sands Connector Trail East	LaPorte	1.02	STBG	\$1,194,773.00	Local Funds	PE	\$0.00	\$21,150.00	\$21,150.00				
					•	•	•			Local Funds	RW	\$0.00	\$26,455.00	\$26,455.00				
										Local Funds	CN	\$0.00	\$0.00	(\$191,350.00)			\$191,350.00	
										Michigan City MPO	PE	\$84,600.00	\$0.00	\$84,600.00				
										Michigan City MPO	RW	\$105,820.00	\$0.00	\$105,820.00				
										Michigan City MPO	CN	\$0.00	\$0.00	(\$765,398.00)			\$765,398.00	
Comments:NIRPC Re	esolution Ame	endment #	‡22 Add PE	and RW funds in FY20.	Move CN funds from FY20 to FY23								<u>'</u>	<u> </u>				

LaPorte County Total

Federal: \$190,420.00

Match: \$47,605.00

2020: -\$718,723.00

2021:

2022:

2023: \$956,748.00

2024:

State Preservation and Local Initiated Projects FY 2016 - 2019

PONSOR	DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	MATCH	2016	2017	2018	2019
aPorte County	•		•		•		•		•	•							-
aPorte County	1382219	M 23	IR 1006	Other Intersection Improvement	Johnson Road at CR 400N	LaPorte	(	STP	\$1,511,800.00	100% Local Funds	RW	\$0.00	\$0.00	(\$52,860.00)	\$52,860.00		
							•		•	Michigan City MPO	RW	-\$200,000.00	\$0.00	(\$211,440.00)	\$11,440.00		
										Michigan City MPO - PYB	RW	\$200,000.00	\$0.00		\$200,000.00		
	l	Comments	NIRPC A	dmin Mod April 2016 ch	ange RW FY from 16 to 17												
aPorte County	1592335	M 23	IR 1023	Bike/Pedestrian Facilities	Marquette Greenway/Singing Sands Connector Trail East	LaPorte	1.02	STP	\$956,748.00	Michigan City MPO	PE	-\$21,443.00	\$0.00	(\$21,443.00)			
										100% Local Funds	PE	\$0.00	\$31,411.00	\$31,411.00			
	(	Comments	: NIRPC A	dmin Mod April 2016 Re	educe PE award					ı							
_aPorte County T Federal: -\$:	otal	Comments		dmin Mod April 2016 Re	2016: -\$254,332.00	2017: \$26	34 300 00	2018:		2019:							



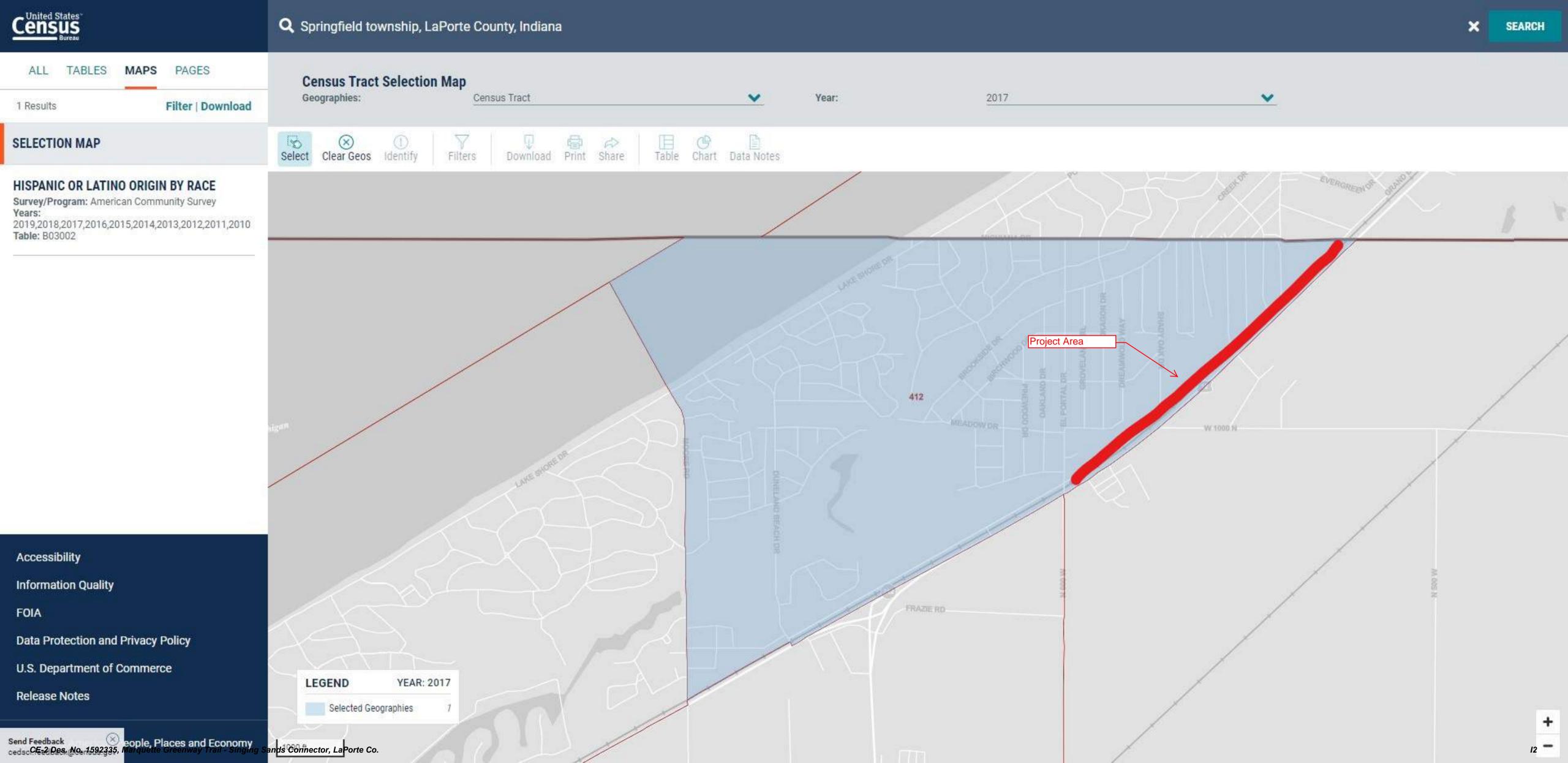
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# **APPENDIX I:**

# **ADDITIONAL INFORMATION**

## Land and Water Conservation Fund (LWCF) LaPorte County Property List for Indiana (Last Updated July 2020)

ProjectNumber	SubProjectCode	County	Property
1800200	1800200	LaPorte	Fox Memorial Park
1800228	1800228	LaPorte	Fox Memorial Park
1800265	1800265	LaPorte	Kesling Park
1800332	1800332	LaPorte	Rumley Park
1800351	1800351	LaPorte	Westville Park (Prairie Meadow Park)
1800373	1800373	LaPorte	Kesling Park
1800402	1800402	LaPorte	Nelson Park
1800405	1800405V	LaPorte	Galena Marsh Nature Preserve
1800453	1800453	LaPorte	Luhr Park
1800547	' 1800547	LaPorte	Hansen & Gifford Parks/Old Spur Trail
1800608	1800608	LaPorte	Luhr County Park



### **HISPANIC OR LATINO ORIGIN BY RACE**

TABLE ID: B03002

SURVEY/PROGRAM American Community Survey
PRODUCT: ACS 5-Year Estimates Detailed Tables

Note: The table shown may have been modified by user selections.

Some information may be missing.

					Springfield townshi	p, LaPorte		
	Indiana		LaPorte County	, Indiana	County, Indiana		1	act 412, LaPorte Coun
Label	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of	E Estimate	Margin of Error
Total:	6,614,418	****	110,839	****	4,021	±42	924	±88
Not Hispanic or Latino:	6,172,450	±183	103,904	****	3,909	±150	922	±89
White alone	5,280,583	±999	88,538	±26	3,822	±168	906	±90
Black or African American alone	604,249	±2,974	12,093	±343	0	±11	0	±11
American Indian and Alaska Native alone	12,148	±696	285	±87	0	±11	0	±11
Asian alone	136,671	±1,460	630	±118	50	±46	16	±23
Native Hawaiian and Other Pacific Islander alone	1,993	±284	13	±17	0	±11	0	±11
Some other race alone	9,179	±1,225	29	±25	0	±11	0	±11
Two or more races:	127,627	±3,638	2,316	±370	37	±42	0	±11
Two races including Some other race	3,440	±551	56	±41	0	±11	0	±11
Two races excluding Some other race, and three or more races	124,187	±3,520	2,260	±373	37	±42	0	±11
Hispanic or Latino:	441,968	±183	6,935	****	112	±150	2	±4
White alone	266,204	±3,728	3,618	±436	0	±11	0	±11
Black or African American alone	8,811	±961	137	±48	0	±11	0	±11
American Indian and Alaska Native alone	2,879	±534	28	±35	0	±11	0	±11
Asian alone	1,009	±312	16	±24	0	±11	0	±11
Native Hawaiian and Other Pacific Islander alone	642	±288	25	±38	0	±11	0	±11
Some other race alone	136,612	±4,082	2,222	±448	49	±68	0	±11
Two or more races:	25,811	±1,429	889	±281	63	±84	2	±4
Two races including Some other race	16,364	±1,302	732	±280	63	±84	2	±4
Two races excluding Some other race, and three or more races	9,447	±975	157	±87	0	±11	0	±11

### **DATA NOTES**

TABLE ID B03002

SURVEY/PROGRAM American Community Survey

VINTAGE 2017

DATASET ACSDT5Y2017

PRODUCT: ACS 5-Year Estimates Detailed Tables

FTP URL: Download the entire table at https://www2.census.gov/programs-surveys/acs/summary\_file/2017/data/

API URL: Download the entire table at https://api.census.gov/data/2017/acs/acs5

**USER SELECTIONS** 

GEOS Indiana; LaPorte County, Indiana; Springfield township, LaPorte County, Indiana; Census Tract 412, LaPorte County, Indiana

### POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE

TABLE ID: B17001

SURVEY/PROGRAM American Community Survey
PRODUCT: ACS 5-Year Estimates Detailed Tables

Note: The table shown may have been modified by user selections. Some information may be missing.

	Indiana		LaPorte County,	Indiana		l township, ounty, Indiana	Census Tra	ct 412, LaPorte diana
		Margin of	,	Margin of		Margin of		
Label	Estimate	Error	Estimate	Error	Estimate	Error	Estimate	Margin of Error
Total:	6,412,384	±1,719	102,126	±448	3,989	±55	919	±86
Income in the past 12 months below poverty level:	933,540	±11,730	16,924	±1,294	1,008	±419	33	±21
Male:	410,928	±6,296	7,206	±668	460	±216	16	±11
Under 5 years	49,152	±1,637	1,262	±218	30	±39	4	±6
5 years	8,834	±706	32	±34	0	±11	0	±11
6 to 11 years	55,274	±1,860	1,298	±282	105	±86	3	±5
12 to 14 years	24,567	±1,200	499	±146	39	±39	0	±11
15 years	7,534	±674	207	±107	41	±45	0	±11
16 and 17 years	14,131	±881	198	±77	0	±11	0	±11
18 to 24 years	63,785	±1,817	603	±156	58	±91	2	±3
25 to 34 years	48,634	±1,798	899	±187	22	±30	0	±11
35 to 44 years	40,432	±1,435	681	±149	16	±24	0	±11
45 to 54 years	39,326	±1,135	546	±157	149	±97	3	±3
55 to 64 years	36,227	±1,209	637	±142	0	±11	0	±11
65 to 74 years	13,850	±798	213	±59	0	±11	4	±6
75 years and over	9,182	±640	131	±63	0	±11	0	±11
Female:	522,612	±7,008	9,718	±772	548	±269	17	±11
Under 5 years	47,716	±1,829	959	±215	85	±90	0	±11
5 years	9,341	±756	229	±90	0	±11	0	±11
6 to 11 years	51,946	±1,724	1,095	±272	85	±76	0	±11
12 to 14 years	23,228	±1,144	606	±230	48	±72	0	±11
15 years	8,224	±586	133	±83	0	±11	0	±11
16 and 17 years	14,962	±785	286	±105	48	±47	0	±11
18 to 24 years	84,443	±1,822	1,421	±274	0	±11	0	±11
25 to 34 years	81,561	±1,741	1,573	±221	25	±33	5	±6
35 to 44 years	59,321	±1,810	1,128	±241	152	±96	0	±11
45 to 54 years	50,281	±1,594	850	±167	13	±16	3	±4
55 to 64 years	44,973	±1,321	615	±151	92	±84	1	±2
65 to 74 years	23,146	±881	486	±153	0	±11	5	±6
75 years and over	23,470	±943	337	±126	0	±11	3	±4
Income in the past 12 months at or above poverty level:	5,478,844	±12,135	85,202	±1,321	2,981	±412	886	±86
Male:	2,734,869	±6,689	41,870	±736	1,428	±246	429	±52
Under 5 years	160,714	±1,704	2,019	±216	43	±48	2	±4
5 years	32,839	±1,075	491	±168	0	±11	0	±11
6 to 11 years	211,793	±2,590	2,737	±301	31	±38	11	±9

12 to 14 years	109,186	±2,173	1,456	±220	20	±23	4	±3
15 years	39,920	±1,192	514	±125	34	±47	8	±8
16 and 17 years	75,477	±1,302	1,186	±136	28	±44	24	±19
18 to 24 years	234,867	±1,921	3,732	±221	116	±95	18	±13
25 to 34 years	361,086	±1,927	4,654	±268	85	±86	4	±4
35 to 44 years	358,032	±1,754	4,768	±237	113	±61	36	±9
45 to 54 years	388,609	±1,485	6,039	±257	215	±103	39	±22
55 to 64 years	373,801	±1,403	6,948	±172	348	±130	106	±28
65 to 74 years	243,520	±940	4,695	±120	194	±79	122	±26
75 years and over	145,025	±792	2,631	±107	201	±97	55	±17
Female:	2,743,975	±7,298	43,332	±761	1,553	±239	457	±47
Under 5 years	151,644	±1,877	2,269	±225	3	±5	3	±5
5 years	32,492	±1,284	364	±114	10	±18	0	±11
6 to 11 years	200,094	±2,296	2,556	±252	69	±56	12	±9
12 to 14 years	105,764	±2,117	1,581	±254	7	±6	14	±12
15 years	36,768	±1,197	598	±109	0	±11	0	±11
16 and 17 years	72,788	±1,264	1,171	±140	0	±11	17	±9
18 to 24 years	201,623	±1,958	2,674	±271	68	±59	26	±16
25 to 34 years	339,223	±1,717	4,507	±220	129	±99	6	±5
35 to 44 years	349,461	±2,137	5,124	±251	83	±65	25	±9
45 to 54 years	390,498	±1,672	6,458	±164	265	±103	73	±25
55 to 64 years	389,617	±1,392	7,048	±160	396	±134	108	±25
65 to 74 years	269,303	±1,170	5,102	±156	349	±113	122	±25
75 years and over	204,700	±1,162	3,880	±148	174	±102	51	±19

#### DATA NOTES

TABLE ID B17001

SURVEY/PROGRAM American Community Survey

VINTAGE 2017

DATASET ACSDT5Y2017

PRODUCT: ACS 5-Year Estimates Detailed Tables

FTP URL: Download the entire table at https://www2.census.gov/programs-surveys/acs/summary\_file/2017/data/

API URL: Download the entire table at https://api.census.gov/data/2017/acs/acs5

**USER SELECTIONS** 

GEOS Indiana; LaPorte County, Indiana; Springfield township, LaPorte County, Indiana; Census Tract 412, LaPorte County, Indiana