| ounty _I | Delaware | Route | SR 332/CR 600 W | Des | . No129 | 98228 |
|------------|---|---|--|--|---|---|
| CA | TEGORICAL EXCL | USION / I | a Environmental Docu ENVIRONMENT PROJECT INFORMATION | TAL ASSES | SSMENT | ΓFORM |
| Road | No./County: | SR (State) | Road) 332 / Delawar | e County | | ato a |
| Desig | nation Number: | 1298228 | 8 0 | | | |
| | ct Description/Termini: | Beginning feet east of feet south (72+99.99) | n improvement at S on SR 332 841 feet f CR 600 W (Sta. 166 of SR 332 (Sta. 67 | rom CR 600 V +33.00) and a +00.00) to 30 | V (Sta. 149 long CR 60 0 feet nor | 0+35.00) to 857 00 W from 300 rth of SR 332 |
| review/a | npleting this form, I conclude the pprove if Level 4 CE): | at this project qu | alifies for the following ty | pe of Categorical | Exclusion (F | HWA must |
| X | Categorical Exclusion, Lo Level 2 - table 1, CE Level | evel 2 — The p Thresholds. I | roposed action meets the Required Signatories: E | ne criteria for Ca SM (Environme | ategorical E ntal Scoping | xclusion Manual g Manager) |
| | Categorical Exclusion, Le Level 3 - table 1, CE Level | evel 3 – The p Thresholds. I | roposed action meets the Required Signatories: E | ne criteria for Ca SM, ES (Enviro | ntegorical E | xclusion Manual vices Division) |
| | Categorical Exclusion, Le Level 4 - table 1, CE Level | evel 4 – The particles of the particles | roposed action meets the | e criteria for Ca M, ES, FHWA | tegorical E | xclusion Manual |
| Note: For | Environmental Assessmer is necessary to determine the | e effects on th | e environment. Require | d Signatories: E | S, FHWA | 10 To 10 Lo |
| located to | documents prepared by or for Enviro release for public involvement or sign | nmental Services 1 for approval. | Division, it is not necessary t | or the ESM of the d | istrict in Which | the project is |
| Approv | N/A | | Ronald | E. Bulia | 4-2 | 1-2020 |
| - PP- VI | ESM Signature | Date | ES Signature | ra e e | Dat | е |
| | FHW | A Signature | Dat | e | | |
| Release | for Public Involvement | | | | | |
| ESM In | 9 | 7/19 te | ES Initials | 1 | Date | - - |
| Certifica | tion of Public Involvement | Mary U | Lright Dic Involvement | 5/3/1 Date | 9 | |
| Note: Do | not approve until after Section 10 | 6 public involv | ement and all other environ | nmențal requirem | ents have bee | n satisfied. |
| Reviewer | S/District Env. Signature: Jaylo Dan | rah | | te: 3/7/19 | | |
| Name and | Organization of CE/EA Preparer: 1 of 27 Project name: | | Lochmueller Group W Intersection Improver | nent | — Date: 1 | February 28, 2019 |

| | | indiana Depa | irtillent of Transp | Ortation | |
|--|---|---|---|--|---|
| County | Delaware | Route | SR 332/CR 600 W | Des. No. | 1298228 |
| | | | BLIC INVOLVE | | |
| Every Federa levelopment | l action requires some process. The level of | level of public involvem public involvement sh | ent, providing for early a nould be commensurate | with the proposed a | |
| If N | lo, then: | | d under the Historic Bridç | | No X |
| | Opportunity for a Publ | | | X Downward A | |
| | ring is required for all O, and the ACHP. | historic bridges proces | sed under the Historic Bi | ages Programmatic A | greement between INDO |
| Discuss wha neetings, spe Remarks: | Notice of Entry for the project area on | s, newspaper articles, e Survey or Investigation March 2, 2017 by Lock ect and that individual | letters to affected prop tc.) have occurred for this n letters were mailed to p nmueller Group (Append is responsible for site in | s <i>project.</i> potentially affected pro ix G, G1). The letters i | notified the property |
| | requires formal pu | blic involvement. There h 29, 2019 and April 10 ent to federal, state, and | ents set by the current I efore, a legal notice of p 0, 2019. A copy of the leg d local officials and agen | ublic hearing was publ gal notice was mailed b | y the INDOT Office |
| | on Tuesday, April was afforded the of 37 of which were public comments opportunity for adadditional 19 writted. | 16, 2019 at 6:00 PM. Proportunity to formally comembers of the public at the hearing, which ditional written comments were rece | High School located at 1 ject information was pre omment on the project. A and one INDOT repress are reflected in the tracents was given with an ived following the hearinhe public at or following | sented to those in attendations of 38 people signentative. Nine individual nscript (Appendix G, established deadline of (Appendix G, G30 to (Appen | dance and the public ned in at the hearing, als provided formal G25 to G29). The of May 1, 2019. An |
| | Concerns making the Preference Preference W. Concerns | over increased rear-ence J-turn and competing in regulating speed line for a traffic signal at | e intersection more comp d crashes resulting from with high-speed traffic con nits and enforcement as a CR 600 W and synchron chicles crossing the mou | n slow speed farm equin SR 332. The cheaper solution. The cizing it with the existication. | ng signal at CR 500 |
| | The INDOT Office May 3, 2019. A su | e of Public Involvemer mmary of the public co | nt certified the public in mments and responses is | volvement requiremen included in Appendix | ts for the project on G, G54 to G69. |
| Public Co Will the pro | ntroversy on Enviro pject involve substanti | nmental Grounds al controversy concernir | ng community and/or nat | ural resource impacts? | Yes No |
| Remarks: | At this time, there the project. A Pre | is no known public con liminary Field Check M | troversy over communit leeting was held on Octo | y and/or natural resour ber 27, 2017 to discuss | ce impacts regarding the proposed design |
| This is n | age 2 of 27 Project | name: SR 332 / CR | 2 600 W Intersection Impro | vement D | ate: February 28, 2020 |

| Part II - Sponsor of the Local Name of Funding Source *If other is selected the transition of the transition of the need for in the need for in the section. | and the Delaware of their concerns were the median U-turns Field Check Meeting Following the Preliable the concerns expressed the concerns expressed the concerns expressed to the able to make the less of the sed to make the less of the public hearing the public hearing the project: These issues do resources, in the concerns the public hearing the public hearing the public hearing the project: The Projec | County Emergency Service regarding emergency services. They felt this would as ang are included in Appeliminary Field Check Mercessed by the emergency 600 West from either dimergency vehicles to traffects to their response rose intersection in order to egal U-turn. The western 67 feet closer. The most merit "substantial" case of this project to the process will be addressed been minimized to the process will be addressed in | ice expressed concerns revehicles inability to croducersely affect their respondix I, pages I15 to I16. Setting, several changes to service representatives. Section of SR 332 was repressed SR 332 without houses. The second change or reduce the distance mon loon was shifted 290 for controversy on environce emergency response extent practical through and presented in the first state X Local State X Local | Pire Department, Gaston Fire Department, regarding the projects design. Specifically, loss SR 332 and being required to navigate pronse times. Minutes from the Preliminary of the design took place intended to address. First, the proposed raised curb restricting placed by a mountable curb. The mountable having to use the median U-turns, thereby the tothe design involved the shifting of the otorists would have to travel before being feet closer to CR 600 W, while the eastern mmental grounds. Impacts to community routes of the Gaston and Yorktown Fire the project design. Comments received in final environmental document. INDOT District: Greenfield Other* |
|---|--|--|--|---|
| Part II - Sponsor of the Local Name of Funding Source *If other is select PURPOSE A scribe the trans this section. (F | and the Delaware of their concerns were the median U-turns Field Check Meeting Following the Preliable the concerns expressed the concerns expressed the concerns expressed to the able to make the less of the sed to make the less of the public hearing the public hearing the project: These issues do resources, in the concerns the public hearing the public hearing the public hearing the project: The Projec | County Emergency Service regarding emergency services. They felt this would as any are included in Appeliminary Field Check Metessed by the emergency 600 West from either dimergency vehicles to trafects to their response rote intersection in order to egal U-turn. The western 67 feet closer. The most merit "substantial" case of this project to the process will be addressed been minimized to the process will be addressed in th | ice expressed concerns revehicles inability to croducersely affect their respondix I, pages I15 to I16. Setting, several changes to service representatives. Section of SR 332 was repressed SR 332 without houses. The second change or reduce the distance mon loon was shifted 290 for controversy on environce emergency response extent practical through and presented in the first state X Local State X Local | regarding the projects design. Specifically, loss SR 332 and being required to navigate ponse times. Minutes from the Preliminary of the design took place intended to address. First, the proposed raised curb restricting placed by a mountable curb. The mountable naving to use the median U-turns, thereby the total to the design involved the shifting of the otorists would have to travel before being feet closer to CR 600 W, while the eastern mental grounds. Impacts to community routes of the Gaston and Yorktown Fire the project design. Comments received in final environmental document. INDOT District: Greenfield |
| Part II - Sponsor of the Local Name of Funding Source *If other is selected the transities section. (Funding Source) *The need for insection in the section | the concerns exprese left-turns onto CR of curb will allow emminimizing the efficiency of the able to make the less to make the compartments, have the public hearing the Project: The Project: The facility: The compartments of the Facility: The project: The facility: The project: The facility: The project: The facility: The project of the facility: The project of the facility: | essed by the emergency 600 West from either directed to their response role intersection in order to egal U-turn. The western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. Intersection in order to egal U-turn the western 67 feet closer. | service representatives. ection of SR 332 was repverse SR 332 without hutes. The second change reduce the distance mon loon was shifted 290 for controversy on environce emergency response extent practical through and presented in the first ation, Description | First, the proposed raised curb restricting blaced by a mountable curb. The mountable naving to use the median U-turns, thereby e to the design involved the shifting of the otorists would have to travel before being feet closer to CR 600 W, while the eastern mental grounds. Impacts to community routes of the Gaston and Yorktown Fire the project design. Comments received in final environmental document. INDOT District: Greenfield |
| Part II - Sponsor of the Local Name of Funding Source If other is selected as a seribe the transhis section. (Find the need for incomplete the section of the need for incomplete the transhis section. | resources, in the compartments, have the public hearing. - General Project: The Project: The Facility: The Compartment of the Facility of the Facility: The Compartment of the Facility of the Facility: The Compartment of the Facility of the F | case of this project to the been minimized to the process will be addressed to be processed to | he emergency response extent practical through ad and presented in the fination, Description | routes of the Gaston and Yorktown Fire the project design. Comments received in final environmental document. ion, and Design Information INDOT District: Greenfield |
| Sponsor of the Local Name of Funding Source of the research of the transport of the transport of the need for in the need for in the section. | ne Project: of the Facility: rce (<i>mark all that app</i> lected, please identi | INDOT SR 332/CR 600 W ply): Federal X | State X Local | INDOT District: Greenfield |
| Local Name of Funding Source *If other is selected PURPOSE Assertibe the transition of the need for income the section of the need for income section. | of the Facility: ce (<i>mark all that app</i> lected, please identi | SR 332/CR 600 W ply): Federal X | | |
| PURPOSE A scribe the tran his section. (I | lected, please identi | | | Other* |
| PURPOSE A scribe the tran his section. (F The need for i | | fy the funding source: | 27/4 | |
| scribe the tran his section. (F The need for i | | | N/A | |
| his section. <i>(F</i> The need for i | AND NEED: | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | in the second of | |
| The need for i | nsportation problem | n that the project will addi nual, Section IV.B.2. Pui | ress. The solution to the | traffic problem should NOT be discussed |
| • Poor | | is intersection is evidence | | nents: |
| | r operational capaciticient intersection sa | | | |
| SR 332 in 201 22,878 vpd. T approaches. C of CR 600 W | 17 was 17,502 vehich The traffic on SR 33 On the approach roa W is projected to its delays along CR 6 | cles per day (vpd). In the 32 is free flowing with the adway, CR 600 W, the A increase to 1,375 vpd. | e design year 2037 the A ne only intersection cont AADT in 2017 was 1,040 The volume of unimpetravel times. At the time | the annual average daily traffic (AADT) of AADT of SR 332 is projected to increase to trol (stop sign) occurring on the CR 600 W 6 vpd. In the design year 2037, the AADT eded traffic along SR 332 contributes to e of the study, the CR 600 W approaches AM) and a LOS F in the PM peak period |

This is page 3 of 27 Project name:

SR 332 / CR 600 W Intersection Improvement Date: February 28, 2020

| County | Delaware | | Route | SR 33 | 32/CR 600 W | | Des. No | 129 | 98228 |
|--|---|---|--|--|---|--|---|--|--|
| 3.8 crashe 118). Road compares the LOS of becoming crashes at was derived The prima 600 W du | ss per year. The dHAT, a traffic to similar road sof CR 600 W co impatient waiti the intersection ed from the Aug | 2015 indicated that the Index of Crash Frequents analysis tool segments in Indiana, antributes to the highing for gaps in traffic will increase, if no in ust 16, 2016 Engineer periods and to decrease intersection. | that evaluations are frequency of the considers are frequency of the comprovement of the constant of the const |) was detected and ICF of personates are not better the contraction of | etermined by I ash frequency a of greater than sonal injury cranal capacity wo made. The relevis included as and attain and | Lochmueller and severity 1.0 to be ur ashes due to orsens, it is vant safety i Appendix I, | Group to for a given acceptabe the lengt expected information of the second II7 to I20 minimum | be 1.00 yen road le. It is thy dela that the on for the on LOS of LOS of the one of the | 6 (Appendix I, d segment and suspected that ys and drivers e frequency of his intersection of C along CR |
| PROJEC | T DESCRIPTI | ON (PREFERRED | ALTERN | ATIVE |): | | | | |
| County: | Delaware | | Municipa | ality: _ | Yorktown | | | | |
| Limits of P | roposed Work: | 1,698 feet along SR 3 of CR 600 W (Sta. 10 67+00.00) to an endp | 66+33.00); a | and, 600 | feet along CR 6 | 00 W beginni | +35.00) to ing 300 fee | an endpo | oint 857 feet east of SR 332 (Sta. |
| Total Work | c Length: | 0.43 Mile(s) | | | Total Work Area | a: <u>5.2</u> | 24 Ac | cre(s) | |
| If yes, whe | en did the FHWA | tion Study / Interchar grant a conditional a a copy of the approve | pproval for | r this pr | oject? | | : FHWA w | Yes ¹ Date: | No X quest for final |
| oreferred alte | rs box below, de ernative. Include | scribe existing condit a discussion of logic aficiencies if these are | al termini. | de in de Discus | etail the scope o s any major iss | of work for th sues for the p | ne project, project an | includi d how t | ng the he project will |
| The Feder | al Highway Adı | ministration (FHWA) ersection of SR 332 a | and the I | NDOT W in I | Greenfield Dis Delaware Coun | trict propose ty, Indiana. | e to proce | ed with | a federal-aid |
| Specifical Sections 3 West, Indi | ly, the project is and 4, Townsh iana U.S. Geolog | s located in Sections ip 20 North, Range 9 gical Survey (USGS) sultural and residentia | 33 and 34 East of M 1:24,000 s | , Towr fount P scale Q | aship 21 North, leasant Townsh aadrangles (Ap | , Range 9 E | ted on the | Gilmai | n and Muncie |
| of four 12 paved insi both direc The eastbo | foot asphalt threads shoulders. A tions of SR 332 and and westbo | act area, SR 332 is fur u lanes (two in either dditionally, there is a at CR 600 W. Both bound travel lanes are s flowing. The posted s side of SR 332. | direction) 12-foot de lanes beginseparated b | with 8- esignate n appro oy a dep | foot usable (5- ed right-turn lar eximately 500 foressed grass me | foot paved) ne and a 12- feet from the edian varyin | outside sl foot desig e intersect ng from 6- | noulders gnated le tion wit -32 feet | s and 3-4 foot eft-turn along h CR 600 W. wide. Traffic |
| section co | nsists of two 10- SR 332 is contro | a rural major collectorfoot asphalt thru land bled by a stop sign. I crally sheet flow with | es (one in e The posted | each dia speed | ection) with a limit on CR 60 | 1-2 foot agg: 0 W is 45 m | regate sho iph. Along | oulder. 🤇 | Traffic on CR |
| This is p | page 4 of 27 P | roject name: SR | 332 / CR 6 | 00 W I1 | ntersection Impro | ovement | | Date: | February 28, 2020 |

County Delaware Route SR 332/CR 600 W Des. No. 1298228

The preferred alternative involves constructing a restricted crossing U-turn, or J-turn, style intersection at SR 332 and CR 600 W (Appendix B, B20 to B41). This alternative will eliminate cross and left-turn movements from the CR 600 W approaches and direct motorists to make right turns onto SR 332 leading them to a median U-turn lane where a legal Uturn is possible. A loon will be constructed along eastbound SR 332 approximately 726 feet west of CR 600 W, and another one constructed along westbound SR 332 approximately 774 feet east of CR 600 W. The purpose of the loons is to provide a sufficient turning radius for vehicles and trucks to make the U-turn. Following the legal U-turn, motorist will be able to either continue along SR 332 or turn right or left onto CR 600 W. Along SR 332, four 12-foot thru lanes (two in either direction) will be maintained. The 12-foot designated left-turn lanes along each approach will be reconstructed to avoid the proposed median island. In addition, the 12-foot designated right-turn lane will be reconstructed and lengthened to reach the proposed loons. Under this alternative, traffic along SR 332 will continue to operate unimpeded and will maintain full access to CR 600 W. The side ditches between the loons and CR 600 W will be re-graded. Modifications are also proposed to two corrugated metal pipe (CMP) culverts that convey drainage beneath SR 332. The first is a 30 inch CMP located along SR 332 approximately 576 feet west of CR 600 W (Sta. 152+00), while the second structure to be modified is a 24 inch CMP located along SR 332 approximately 424 feet east of CR 600 W (Sta. 162+00). Please refer to the Design Criteria for Bridges section of this document for the details regarding these modifications. Lighting will be added at the intersection and at the location of both loons (Appendix B, B40). This lighting will comply with the avoidance and minimization measures required by the U.S. Fish and Wildlife Service (USFWS). The total length of the project along SR 332 is 1,697 feet (0.32 mile). Please reference Appendix B, B20 to B41 for the design plans for this project.

CR 600 W will be reconstructed beginning at a point approximately 300 feet south to a point approximately 300 feet north of SR 332. The typical section of the reconstructed roadway will consist of two 12-foot thru lanes (one in each direction) with 2-foot paved shoulders along the north leg and 6-foot shoulders along the south leg. As cross and left turns from CR 600 W onto SR 332 will be restricted by a new center median curb, the thru lane approaching SR 332 will widen to a 16-foot wide right-turn lane. The center median curb, while signed to restrict access, will be mountable to provide continued cross movements to emergency service vehicles. Side slopes will be graded to 4:1 and will provide side ditches to convey runoff. Additionally, three private driveways along CR 600 W will be replaced in-kind as a part of this project. The total length of the project along CR 600 W is 600 feet (0.11 mile).

The proposed maintenance of traffic (MOT) will occur in three phases (Appendix B, B25 to B30). Please refer to the MOT section of this document for full details. The MOT will be implemented per the *Indiana Design Manual* guidelines.

The proposed project will require the acquisition of 0.63 acre of permanent ROW from three parcels (Appendix B, B24). No relocations will be required.

The preferred alternative meets the purpose and need by improving the overall operations and safety of the intersection. By limiting traffic movements from CR 600W to SR 332 to right-turn only the operations of the intersection will improve the LOS to an acceptable minimum of C. However, a LOS of A is anticipated for the intersection after the preferred alternative is complete. Additionally, driver impatience should reduce, which is expected to lower the instances of crashes and bring the ICF below 1.0.

OTHER ALTERNATIVES CONSIDERED:

Project name:

This is page 5 of 27

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

Traffic Signal with Turn Lanes: This alternative would involve restricting the flow of traffic along SR 332 with a traffic signal and installing a semi-actuated traffic signal along CR 600 W at this intersection. This alternative would meet the purpose and need of the project by improving traffic flow and safety at this intersection. However, according to the analysis performed by INDOT, the LOS of the approaches and at the intersection with traffic signals installed would be a B. This is less than that of the preferred alternative, which is LOS A. In addition, modifications to the turn lanes would be required. Such modifications would include lengthening to accommodate the additional queue lengths resulting from the impeded flow along SR 332 resulting from the installation of a signal. This lengthening of the turn lanes would result in comparable

SR 332 / CR 600 W Intersection Improvement Date: February 28, 2020

| impacts to both Wetland B and Wetland D as the preferred alternative. While feasible, this alternative was removed from further consideration due to the preferred alternative's higher operational performance. Wetland Avoidance Alternative; This alternative would involve altering the construction limits to avoid impacts to the wetlands in the area. The overall width of SR 332 would be narrowed at the location of Wetlands B and D. Although this alternative would anyoid impacts to these wetlands, SR 332 would be narrowed at the location of Wetlands B and D. Although this alternative would avoid make the avoidance of Wetland B and Wetland D impractical. Therefore, this alternative was discarded from further consideration. Do-Nothing Alternative; This alternative involved not improving the intersection at SR 332 and CR 600 W. While this alternative eliminates costs and any environmental impacts, it would not have met the objectives of the purpose and need of the project. Therefore, this alternative was discarded from further consideration. No other alternatives were considered for this project. The Do Nothing Alternative is not feasible, prudent or practicable because (Mark all that apply): It would not correct existing capacity deficiencies; It would not correct suisting safety hazards; It would not correct existing gase geometric deficiencies; It would not correct existing pactic safety hazards; It would not correct devisting pactic safety hazards; It would not correct wishing pactic safety hazards; It would not correct existing existence and maintenance problems; or the correct | County | Delaware | | Route | SR 332/CR 600 W | Des. No. | 1298228 |
|--|---|---|---|-----------------------------------|--|---|---|
| wetlands in the area. The overall width of SR 332 would be narrowed at the location of Wetlands B and D. Although this alternative would avoid impacts to these wetlands, SR 332 would not be wide enough to meet current INDOT design standards and would make the avoidance of Wetland B and Wetland D impractical. Therefore, this alternative was discarded from further consideration. Do-Nothing Alternative: This alternative involved not improving the intersection at SR 332 and CR 600 W. While this alternative elliminates costs and any environmental impacts, it would not have met the objectives of the purpose and need of the project. Therefore, this alternative was discarded from further consideration. No other alternatives were considered for this project. The Do Nothing Alternative is not feasible, prudent or practicable because (Mark all that apply): It would not correct existing capacity deficiencies; it would not correct existing safety hazards; it would not correct existing safety hazards; it would not correct existing safety hazards; it would not correct existing deteriorated conditions and maintenance problems; or it would result in serious impacts to the motoring public and general welfare of the economy. Cher (Describe) ROADWAY CHARACTER: SR 332: Functional Classification: Current ADT: Proposed Revisiting Proposed River of Lanes: 4 thru lanes; 2 turn lanes 4 thru lanes; 2 turn lanes Fixed width: 48-72; River of Lanes: 6 Type of Lanes: 6 Type of Lanes: 6 Type of Lanes: 7 Se Cousticlo 7 Se Cousticlo 7 Se Cousticlo 7 Se Cousticlo 8 Se Cousticlo 9 Se Cousticlo 10 46 VPD (2017) Design Year ADT: 10 Se Cousticlo 10 Se Cousticlo | impacts to | both Wetland I | B and Wetland D as the preferred alter | the prefer | red alternative. While feasi gher operational performan | ble, this alternatice. | ve was removed from |
| alternative climinates costs and any environmental impacts, it would not have met the objectives of the purpose and need of the project. Therefore, this alternative was discarded from further consideration. No other alternatives were considered for this project. The Do Nothing Alternative is not feasible, prudent or practicable because (Mark all that apply): It would not correct existing capacity deficiencies; | wetlands in alternative standards a | n the area. The would avoid in and would make | overall width of SR mpacts to these we the avoidance of W | 332 would | I be narrowed at the location 332 would not be wide e | on of Wetlands Bonough to meet co | and D. Although this urrent INDOT design |
| The Do Nothing Alternative is not feasible, prudent or practicable because (Mark all that apply): It would not correct existing capacity deficiencies; It would not correct the existing radaway geometric deficiencies; It would not correct the existing radaway geometric deficiencies; It would not correct the existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions. It would not correct existing deteriorated conditions. It would not correct existing deteriorated of the economy. It would | alternative | eliminates cost | s and any environme | ental impac | ets, it would not have met the | at SR 332 and Cl ne objectives of th | R 600 W. While this e purpose and need of |
| It would not correct existing capacity deficiencies; It would not correct existing safety hazards; It would not correct existing safety hazards; It would not correct existing roadway geometric deficiencies; It would not correct existing deteriorated conditions and maintenance problems; or It would not correct existing deteriorated conditions and maintenance problems; or It would not correct the existing roadway geometric deficiencies; It would not correct existing deteriorated conditions and maintenance problems; or It would result in serious impacts to the motoring public and general welfare of the economy. The problem of the economy of th | No other a | lternatives were | considered for this | project. | | | |
| SR 332: Functional Classification: Current ADT: Design Hour Volume (DHV): 1,959 Truck Percentage (%) 13.0% 13.0% 22,878 VPD (2038) Design Hour Volume (DHV): Design Hour Volume (DHV): Designed Speed (mph): 55 Legal Spee | It would no It would no It would no It would no It would re | ot correct existing of correct existing of correct the exi of correct existing sult in serious in | g capacity deficienci g safety hazards; sting roadway geom g deteriorated condit | es; etric defici ions and m | encies; naintenance problems; or | | |
| Functional Classification: Rural Major Collector 17,502 VPD (2017) Design Year ADT: 22,878 VPD (2038) | ROADWA | AY CHARACT | ER: | | | | |
| Functional Classification: Rural Major Collector 17,502 VPD (2017) Design Year ADT: 22,878 VPD (2038) | | | | | | | |
| Current ADT: | SR 332: | | | | | | |
| Number of Lanes: 6 | Current AD Design Ho | DT: ur Volume (DH\ | 17,502 /): 1,959 Ti | VPD (20 ruck Perce | ntage (%)13.0% | 22,878 | VPD (2038) |
| Number of Lanes: 6 | | | Existing | | Proposed | | |
| Type of Lanes: 4 thru lanes; 2 turn lanes Pavement Width: 48-72 ft. 48-98.8 ft. Shoulder Width: 5-8 (outside) 3-4 (inside) Median Width: 6-32 ft. 12-27 ft. Sidewalk Width: N/A ft. CR 600 W: Functional Classification: Current ADT: 1,046 VPD (2017) Design Year ADT: 1,375 VPD (2038) Design Hour Volume (DHV): 135 Truck Percentage (%) 2.0% Designed Speed (mph): 45 Existing Proposed | | | | | 1 | | |
| Pavement Width: Shoulder Width: Should | | | | anec | | | |
| Shoulder Width: Shoulder Width: Shoulder Width: Sidewalk Width: Sidewalk Width: CR 600 W: Functional Classification: Current ADT: Design Hour Volume (DHV): Designed Speed (mph): Existing CR 600 W: CR 600 W: Functional Classification: Local Agency Collector I,046 VPD (2017) Design Year ADT: Local Agency Collector I,046 VPD (2017) Design Year ADT: Legal Speed (mph): Existing Proposed | | | | mes | | | |
| Median Width: Sidewalk Width: CR 600 W: Functional Classification: Current ADT: Design Hour Volume (DHV): Designed Speed (mph): Existing CR 600 W: Local Agency Collector 1,046 VPD (2017) Design Year ADT: 1,375 VPD (2038) Local Agency Collector 1,046 VPD (2017) Design Year ADT: 1,375 VPD (2038) Proposed | | | | | | | |
| Sidewalk Width: N/A ft. N/A ft. N/A ft. N/A ft. N/A ft. CR 600 W: Functional Classification: Current ADT: Design Hour Volume (DHV): Design Hour Volume (DHV): Designed Speed (mph): Existing Proposed Functional Classification: 1,046 VPD (2017) Design Year ADT: 1,375 VPD (2038) 1,375 VPD (2038) Functional Classification: Current ADT: 1,046 VPD (2017) Design Year ADT: 1,375 VPD (2038) Functional Classification: Current ADT: 1,46 VPD (2018) Functional Classification: Current ADT: 1,46 VPD (2018) Functional Classification: Current ADT: 1,46 VPD (2038) Functional Classification: Current ADT: 1,46 VPD (2018) Functional Classification: Current ADT: 1,46 VPD (2038) Functional Classification: Current ADT: 1,46 VPD (2018) Functional Classification: Current ADT: 1,46 VPD (2018) Functional Classification: Current ADT: 1,46 VPD (2018) Functional Classification: Current ADT: 1,46 VPD (2038) Functional Classification: Current ADT: 1,47 Functional Classification: Current ADT: 1,46 VPD (2038) Functional Classification: Current ADT: 1,47 Functional Classification: Cu | Shoulder v | watn. | | | | | • |
| CR 600 W: Functional Classification: Current ADT: Design Hour Volume (DHV): Designed Speed (mph): Existing Local Agency Collector 1,046 VPD (2017) Design Year ADT: 1,375 VPD (2038) | | | | | | | |
| Functional Classification: Current ADT: Design Hour Volume (DHV): Designed Speed (mph): Existing Local Agency Collector 1,046 VPD (2017) Design Year ADT: 1,375 VPD (2038) | Sidewalk V | Vidth: | N/A ft. | | N/A tt. | | |
| Current ADT: Design Hour Volume (DHV): Designed Speed (mph): Existing 1,046 VPD (2017) Design Year ADT: 1,375 VPD (2038) | CR 600 W | : | | | | | |
| Current ADT: Design Hour Volume (DHV): Designed Speed (mph): Existing 1,046 VPD (2017) Design Year ADT: 1,375 VPD (2038) | Functional | Classification: | Local Agency | Collector | | | |
| Designed Speed (mph): 45 Existing Proposed | Current AD | DT: | | | | 1,375 | VPD (2038) |
| Existing Proposed | | | | | 0 (/ | | |
| | Designed S | Speed (mph): | 45 Le | egal Speed | (mph): 45 | | |
| This is page 6 of 27 Project name: SP 222 / CP 600 W Intersection Improvement Date: February 28 2020 | | | Existing | | Proposed | | |
| This is page 6 of 27 Project name: SR 332 / CR 600 W Intersection Improvement Date: February 28, 2020 | This is n | age 6 of 27 P | roject name: S | R 332 / CR | 600 W Intersection Improvem | ent | Date: February 28, 2020 |

| County _ Delaware | Route SR 332/CR 600 W | Des. No. <u>1298228</u> |
|---|---|--|
| Shoulder Width: 1-2 Median Width: N/A | 2 Thru lanes ft. | |
| Setting: Urban Topography: X Level If the proposed action has multiple roadways, | Suburban X Rural Hilly this section should be filled out for each roa | adway. |
| DESIGN CRITERIA FOR BRIDGES: | or to a | |
| Structure/NBI Number(s): N/A Existing | Sufficiency Rating: | (Rating, Source of Information) |
| Height Restrictions: Curb to Curb Width: Outside to Outside Width: N/A Shoulder Width: Describe bridges and structures; provided Remarks: The proposed project door CMP culverts that convers approximately 576 feet with CMP will be equipped with north side of SR 332 (Applications) and the south side of SR 332 (Applications) | N/A N/A ton ft. ft. ft. ft. ft. ft. N/A ft. ft. ft. N/A ft. | outh side of SR 332, the inlet of this will occur to this CMPs outlet on the e modified is a 24 inch CMP located 00). On the north side of SR 332, the o work will occur to this CMPs outlet e CMP culverts at these two locations |
| Will the structure be rehabilitated or replace If the proposed action has multiple bridges or | ed as part of the project? small structures, this section should be fille | Yes No N/A X ed out for each structure. |
| MAINTENANCE OF TRAFFIC (MOT) | DURING CONSTRUCTION: | |
| Provisions will be made for access by lo Provisions will be made for through-traft Provisions will be made to accommodate | fic dependent businesses. | action? |
| This is page 7 of 27 Project name: | SR 332 / CR 600 W Intersection Improveme | nt Date: February 28, 2020 |

| County | Delaware | Route | | 00 W | Des. No | 1298228 | |
|--|---|--|--|--|--|--|--|
| ls there sub | ostantial controversy as | sociated with the propo | osed method fo | r MOT? | * | | X |
| Remarks: | right thru lane, the westbound SR 332 designated right-tur of both eastbound operations on CR 6 and the inside shouturn lanes will be coand westbound SR Phase 3 will involve from SR 332 onto continue; however, The signed detour of the detour is ap construction. The cimplemented per the The MOT will like services), but will upon project complete. | occur in three phases of designated right-turn late. During this phase, is named and westbound SR 3 00 W. Phase 2 will involved and westbound SR 3 00 W. Phase 2 will involved along both directionstructed. Traffic operations of CR 60 CR 600 W. During the an added restriction elevate during this closure proximately 4.6 miles detour will only be received in a microvenient of the pose a long-term of the entire the contractor of the with current INDO ones with current INDO ones a long-term of the entire with current INDO ones a long-term of the entire with current INDO ones and the phase of the contractor of the with current INDO ones a long-term of the contractor of the with current INDO ones a long-term of the contractor of the with current INDO ones a long-term of the contractor of the contracto | ane to CR 600 on the east at R 600 W. Traffic 32 until passing olive the closurations of SR 332. The second of SR 332 on the s | W, and the outs of west loons will be operations will ge CR 600 W. The of the left thrus of t | ide shoulder of will be constru- I be maintained. This phase we have a lane, the designate of construmeright lane on the traffic operation of the median curb lane restriction 32 onto CR 60 700 W, and Construction of construction will last approximating school be during construing school distance of the construction of the co | f both eastbouncted, as well din the left lawill not affect gnated left-tuction, the mealty of both east ations on CR to and left turn as from Phase 0 W will be in R 300 N. The meanintained m. The MOT imately 3 mounts and emerge and emerge in the motion, but with tricts and emerged in the left was a second to the motion of | and and las the ne only traffic rn lane, dian Ustbound 600 W. as lanes a 2 will a place. a length during will be nths. |
| | | | | | | | |
| ESTIMAT | ED PROJECT COST | AND SCHEDULE: | | | | | |
| Engineering From FY 2016 Anticipated | | 16 & 2017) Right-of- gineering is not included in tion: FY 2020 July 3, 2017 | -Way: _ \$ 10,00 | | Construction | on: \$ <u>1,469,</u> 3 | 319 (2020 |
| Engineering From FY 2010 Anticipated Date projec | g: \$ <u>385,800* (20</u> 6-2019 STIP. Funding for en Start Date of Construc | 16 & 2017) Right-of- gineering is not included in tion: FY 2020 | -Way: _ \$ 10,00 | | | on: \$ <u>1,469,</u> 3 | 319 (2020 |
| Engineering From FY 2010 Anticipated Date projects Is the proje | g: \$ <u>385,800* (20</u> 6,52019 STIP. Funding for en Start Date of Construct t incorporated into STII | 16 & 2017) Right-of- gineering is not included in tion: FY 2020 July 3, 2017 Yes No | -Way: _ \$ 10,00 | | | on: \$ <u>1,469,3</u> | 319 (2020 |
| Engineering From FY 2010 Anticipated Date project Is the proje | g: \$ 385,800* (20) 6-2019 STIP. Funding for en Start Date of Construct t incorporated into STII ct in an MPO Area? | 16 & 2017) Right-of- gineering is not included in tion: FY 2020 July 3, 2017 Yes No | -Way: <u>\$ 10,00</u> | STIP since it was a | | on: \$ <u>1,469,3</u> | 319 (2020 |
| Engineering From FY 2016 Anticipated Date project Is the project If yes, Name of I | g: \$ 385,800* (20) 6-2019 STIP. Funding for en Start Date of Construct t incorporated into STII ct in an MPO Area? | 16 & 2017) Right-of- gineering is not included in tion: FY 2020 July 3, 2017 Yes No X cie Metropolitan Plannin | -Way: <u>\$ 10,00</u> | STIP since it was a | | on: \$ <u>1,469,3</u> | 319 (2020 |
| Engineering From FY 2016 Anticipated Date project Is the project If yes, Name of I | g: \$ 385,800* (20) 6-2019 STIP. Funding for en Start Date of Construct t incorporated into STII ct in an MPO Area? MPO Delaware-Mun | 16 & 2017) Right-of- gineering is not included in tion: FY 2020 July 3, 2017 Yes No X cie Metropolitan Plannin | -Way: <u>\$ 10,00</u> | STIP since it was a | | on: \$ <u>1,469,</u> 3 | 319 (2020 |
| Engineering From FY 2016 Anticipated Date project Is the project If yes, Name of I | g: \$ _385,800* (20) 6-2019 STIP. Funding for en Start Date of Construct t incorporated into STII ct in an MPO Area? MPODelaware-Mun f Project in TIPPage | 16 & 2017) Right-of- gineering is not included in tion: FY 2020 July 3, 2017 Yes No X cie Metropolitan Plannin | -Way: \$\frac{\$10,00}{\$the FY 2018-2021} | STIP since it was a | | on: \$ <u>1,469,</u> 3 | 319 (2020 |
| Engineering From FY 2016 Anticipated Date project Is the project If yes, Name of I Location of | g: \$ _385,800* (20) 6-2019 STIP. Funding for en Start Date of Construct t incorporated into STII ct in an MPO Area? MPODelaware-Mun f Project in TIPPage | 16 & 2017) Right-of- gineering is not included in tion: FY 2020 July 3, 2017 Yes No X cie Metropolitan Plannin | -Way: \$\frac{\$10,00}{\$the FY 2018-2021} | STIP since it was a | lready expended. | | 319 (2020 |
| Engineering From FY 2016 Anticipated Date project Is the project If yes, Name of I | g: \$ _385,800* (20) 6-2019 STIP. Funding for en Start Date of Construct t incorporated into STII ct in an MPO Area? MPODelaware-Mun f Project in TIPPage | 16 & 2017) Right-of- gineering is not included in tion: FY 2020 D July 3, 2017 Yes No X Cie Metropolitan Plannin 36 e into the STIP No | -Way: \$\frac{\$10,00}{\$the FY 2018-2021} | STIP since it was a | | | |
| Engineering From FY 2016 Anticipated Date project Is the project If yes, Name of I | g: \$ 385,800* (20) 6-2019 STIP. Funding for en Start Date of Construct incorporated into STII ct in an MPO Area? MPO Delaware-Mun of Project in TIP Page corporation by reference WAY: | 16 & 2017) Right-of- gineering is not included in tion: FY 2020 D July 3, 2017 Yes No X Cie Metropolitan Plannin 36 e into the STIP No | -Way: \$\frac{\$10,00}{\$the FY 2018-2021} | OMMPC) | lready expended. | 3) | |

| County Delaware | Route SR 332/CR | . 600 W Des. I | No. 1298228 |
|-----------------|-----------------|----------------|-------------|
| Agricultural | | 0.49 | 0.00 |
| Forest | | 0.00 | 0.00 |
| Wetlands | | 0.02+ | 0.00 |
| Other: | | 0.00 | 0.00 |
| | TOTAL | 0.63 | 0.00 |

Notes:

Describe both Permanent and Temporary right-of-way and describe their current use. Typical and Maximum right-of-way widths (existing and proposed) should also be discussed. Any advance acquisition or reacquisition, either known or suspected, and there impacts on the environmental analysis should be discussed.

Remarks:

Within the project limits, the typical width of the existing ROW along SR 332 west of CR 600 W is 152 feet wide (75 feet wide north and 77 feet wide south of the centerline). East of CR 600 W, the typical width of the existing ROW along SR 332 is 150 feet wide (73 feet wide north and 77 feet wide south of the centerline). This ROW is limited access, which prohibits access modifications to the highway (i.e., the addition of a new drive) without the appropriate permit from INDOT.

Along the north leg of CR 600 W, the existing ROW is not of a typical width. It generally varies from a minimum 80 feet wide (73 feet wide west and 7 feet wide east of the centerline) to a maximum width of 95 feet wide (88 feet wide west and 7 feet wide east of the centerline) approaching SR 332. South of SR 332, the existing ROW varies from a minimum width of 103 feet wide (58 feet wide west and 45 feet wide east of the centerline) to a maximum width of 160 feet wide (90 feet wide west and 70 feet wide east of the centerline). Within the limits of the project, this ROW is also limited access with the exception of the east side of CR 600W.

In order to construct the proposed project, the typical permanent ROW width along SR 332 will be widened. West of CR 600 W, the typical width of the proposed permanent ROW will be 165 feet wide (75 feet wide north and 90 feet south of the centerline). The maximum proposed permanent ROW width along this approach occurs at the west loon where it will widen to 185 feet wide (75 feet wide north and 110 feet wide south of the centerline). East of CR 600 W, the typical width of the proposed permanent ROW will be 167 feet wide (90 feet wide north and 77 feet wide south of the centerline). The maximum proposed permanent ROW width along this approach occurs at the east loon where it will widen to 187 feet wide (110 feet wide north and 77 feet wide south of the centerline).

Generally, along CR 600 W the project will be constructed within the existing ROW. The only area of exception is north of SR 332 along the east side of the road where the existing ROW extends only to the edge of pavement. In this area, the proposed permanent ROW width to the east of the centerline will be 40 feet wide.

In all, the proposed project will require 0.63 acre of permanent ROW from three parcels (Appendix B, B24). The permanent ROW to be acquired consists of agricultural (0.49 acre), wetland (0.02 acre), and residential (0.12 acre) land uses. As noted on Append B, B24, the proposed ROW calls for demarcation by farm-field type fence (FFTF), an open-woven fence used to delineate limited access ROW in rural areas. No temporary ROW is required for this project.

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

| SECTION A – ECOL | OGICAL RESOU | IRCES | |
|----------------------|---------------|--|-------------------------|
| | | Presence | lmpacts Yes No |
| This is page 9 of 27 | Project name: | SR 332 / CR 600 W Intersection Improvement | Date: February 28, 2020 |

^{+ -} The acreage of ROW shown for wetlands does not match the total acres of impact discussed in the Wetlands section of this document.

This is because a portion of the delineated wetlands extend into the existing ROW (Appendix B, B31 and B33). What is represented in this table is that portion of the delineated wetlands occurring within the limits of the proposed ROW.

| | | man | arra 2 opar | | | | |
|--|---|--|---|--|---|--|--|
| County | Delaware | | Route | SR 332/CR 600 V | V | Des. No12 | 298228 |
| Federal Wil State Natur Nationwide | d and Scenic R al, Scenic or Re Rivers Inventor g Rivers List for | ecreational Rivers y (NRI) listed | | es | X | | X |
| Remarks: | (Appendix B | , B2), and the Red | d Flag Investi | of the project area gation (RFI) (App ed stream is 0.30 | endix E, E7), th | nere is one stream | ppographic map located within |
| | for the project and Waterwa ephemeral strapproximatel is 1.25 feet w U.S. due to it into Reed Br. 14.5 miles determined dand will not | et on October 17, by Permitting Officeam feature exhibited with the properties of th | 2018 (Appender (EWPO) of biting an ordin of SR 332 (And deep. It was the White Right ibutary of Pleeproject area of 2017 field in this project. | ol7 and a Waters dix F, F1 to F22). In October 23, 201 hary high water mappendix F, F8 and determined that the ver, a Traditionall asant Run Creek was Although this statestigation that the U.S. Army | This report wa 8 (Appendix F, ark (OHWM) a F11). The OH he UNT to Reed y Navigable Workich flows into ream is located he stream lies o | as approved by In F23). This report In F25. Th | NDOT Ecology rt identified one e of CR 600 W, to Reed Branch y a Water of the ed Branch flows r approximately yey area, it was astruction limits |
| | Outstanding l | Wild and Scenic l Rivers List for Ind ed within or adjac | liana were rese | the State Natural earched by the con ject area. | Scenic and Rec sultant on Augu | creational Rivers ast 16, 2018. No l | listing, and the isted waterways |
| | No impacts to | o streams, rivers, | watercourses | or jurisdictional d | tches are expec | cted. | |
| 4 | of Fish and V | nation letters were Wildlife (DFW), a nd to the early co | and the USAC | SFWS, Indiana De E on September I ter. | partment of Nat 2, 2018 (Appe | tural Resources (andix C, C1 to C | IDNR) Division 4). The USACE |
| | for impacts to Recommenda to UNT to Re | o fish, wildlife, an ations pertaining t | id botanical re o stream impa | 2018 with recomesources to the greats are not applicated and applicated and applications provides | atest extent pos ble to this proje | sible (Appendix ect since there wi | C, C41 to C42). Il be no impacts |
| | proposed (Ap to fish, wildli this project si | pendix C, C39 to fe, and botanical ince there will be | C40). They al resources. Re no impacts to | ols, stating they so included stands commendations por UNT to Reed Brannental Commit | ord recommends ertaining to stre ench. Applicabl | ations regarding l am impacts are r | imiting impacts of applicable to |
| | website on S | eptember 12, 201 | 8 (Appendix | e Indiana Departr C, C9 to C16). A urbance and coordi | pplicable recon | nmendations fro | m the Proposed |
| Other Surfa Reservoirs | ace Waters _. | | | | | Impacts Yes No | 9 |
| This is pa | ige 10 of 27 | Project name: | SR 332 / CR 6 | 00 W Intersection I | nprovement | Date: | February 28, 2020 |

| Other: Remarks: I I I I I I I I I I I I I | Based on a desktop rea (Appendix B, F Appendix E, E7), the fithe project area. (O18 (Appendix F, F23). No additional mact any other or Appendix C, C1 to the IDNR DFW restabilization and resortanical resources | review, a site v 33), the USGS here are four lal A Waters of t F1 to F22). The al surface wate additional surf letters were se C4). The USA esponded on Commendation to the greatest | topographic map kes within the 0.5 he U.S. Determine e report was appr ers were identifie face waters. ent to the USFW CE did not respond to avoid, min | 0, 2017 by Lochmueller Group, the aerial map of the project of (Appendix B, B2), and the waters resource map in the RFI of mile search radius. The closest lake is 0.30 mile southwest nation Report was prepared for the project on October 17, roved by INDOT EWPO on October 23, 2018 (Appendix F, ed within the project area. Therefore, the project will not 7S, IDNR DFW, and the USACE on September 12, 2018 and to the early coordination letter. 8 with recommendations about structure design and bank mimize, or compensate for impacts to fish, wildlife, and (Appendix C, C41 to C42). Applicable recommendations |
|---|--|--|--|---|
| | rea (Appendix B, I Appendix E, E7), the first the project area. 2018 (Appendix F, 2018). No additional mpact any other or Early coordination Appendix C, C1 to The IDNR DFW restabilization and resources | 33), the USGS nere are four lal A Waters of t F1 to F22). The all surface water additional surfuletters were see C4). The USA esponded on Commendation to the greatest | topographic map kes within the 0.5 he U.S. Determine e report was appr ers were identifie face waters. ent to the USFW CE did not respond to avoid, min | o (Appendix B, B2), and the waters resource map in the RFI mile search radius. The closest lake is 0.30 mile southwest mation Report was prepared for the project on October 17, roved by INDOT EWPO on October 23, 2018 (Appendix F, ed within the project area. Therefore, the project will not VS, IDNR DFW, and the USACE on September 12, 2018 and to the early coordination letter. 8 with recommendations about structure design and bank mimize, or compensate for impacts to fish, wildlife, and |
| | The USFWS respo | nded on Octol c C, C39 to C40 d botanical reso | ncluded in <i>Sectio</i> ber 31, 2018, st 0). They also included ources. Applicab | cating they have no objections to the project as currently duded standard recommendations regarding limiting impacts ble recommendations provided by the USFWS are included |
| Wetlands | | | | Presence Impacts Yes No X X |
| Total wetland | area: 0.5 | 9 acre(s) | Total wetlar | nd area impacted: 0.03 acre(s) |
| (If a determina | tion has not been r | nade for non-is | solated/isolated v | vetlands, fill in the total wetland area impacted above.) |
| Wetland No. | Classification | Total Size (Acres) | Impacted Acres | Comments |
| A | PEM1A | 0.08 | 0.00 | Located within the roadside ditch north of SR 332 west of CR 600 W |
| В | PEM1A | 0.02 | 0.01 | Located within the roadside ditch north of SR 332 east of CR 600 W |
| С | PEM1A | 0.07 | 0.00 | Located within a depression along the west side of CR 600 W south of SR 332 |
| D | PEM1A | 0.42 | 0.02 | Located in the agricultural field south of SR 332 and west of CR 600 W |
| Wetland Dete Wetland Delir | eation ed Waters Determi | nation | | ES Approval Dates X |

| County | Delaware | Route | SR 332/CR 600 W | Des. No. | 1298228 |
|---|--|---|-----------------------------------|----------|---------|
| would res Substa Substa Unique Substa | ents that will not result in any wetl ult in (Mark all that apply and explair antial adverse impacts to adjacent ho antially increased project costs; e engineering, traffic, maintenance, o antial adverse social, economic, or er roject not meeting the identified need | n): omes, busir or safety pro nvironment | ness or other improved properties | | nce |

Measures to avoid, minimize, and mitigate wetland impacts need to be discussed in the remarks box.

Remarks:

Based on a review of the USFWS National Wetlands Inventory (NWI) data (www.fws.gov/wetlands/Data/State-Downloads.html) (Appendix F, F12), the USGS topographic map (Appendix B, B2), and the RFI (Appendix E, E7), two wetland lines and eight wetland polygons within the 0.5 mile search radius were identified.

A site visit was conducted on October 27 and 30, 2017 by Lochmueller Group, to evaluate the potential presence of wetlands in or near the project area. Four wetlands, Wetlands A, B, C and D, were identified within the project area. A *Waters of the U.S. Determination Report* was prepared for the project by Lochmueller Group on October 17, 2018, (Appendix F, F1 to F22). The report was approved by INDOT EWPO on October 23, 2018 (Appendix F, F23).

Wetland A is a palustrine, emergent, persistent, temporarily flooded (PEM1A) wetland that exists within the roadside ditch on the north side of SR 332, west of CR 600 W. The total size of Wetland A is 0.08 acre. Based on a qualitative analysis, Wetland A is considered to be of poor quality due to its position within a roadside ditch. Wetland A is likely to be considered an isolated, exempt wetland due to a lack of connectivity to a Water of the U.S. Wetland A lies outside of the construction limits of the project; therefore, it will not be impacted by the project area. A "Do Not Disturb" note shall be included on the design plans to ensure the contractor does not impact this feature (Appendix B, B31).

Wetland B is a palustrine, emergent, persistent, temporarily flooded (PEM1A) wetland that exists within the roadside ditch north of SR 332 east of CR 600 W. The total size of Wetland B is 0.02 acre. Based on a qualitative analysis, Wetland B is considered to be of poor quality due to its position within a roadside ditch. Wetland B is likely to be considered a Water of the U.S. due to hydrologic connectivity to Pleasant Run Creek. Approximately 0.02 acre of Wetland B occurs within the proposed permanent ROW; however, based on the defined construction limits 0.01 acre will be permanently impacted by the activities necessary to construct the added designated right-turn lane. The widening of westbound SR 332 and the grading of the 4:1 foreslope encroaches upon Wetland B, which along with the addition of the 12-foot pipe extension, accounts for the impacts to the identified feature (Appendix B, B33).

Wetland C is a palustrine, emergent, persistent, temporarily flooded (PEM1A) wetland that exists within a small depression on the west side of CR 600 W, south of SR 332. The total size of Wetland C is 0.07 acre. Based on a qualitative analysis, Wetland C is considered to be of poor quality due to the dominance of invasive vegetation, spreading bentgrass (*Agrostis stolonifera*). Wetland C is likely to be considered a Water of the U.S. due to hydrologic connectivity to UNT to Reed Branch. Wetland C lies outside of the construction limits of the project; therefore, it will not be impacted by the project. Wetland C is located beyond the view depicted on the plans included in Appendix B.

Wetland D is a palustrine, emergent, persistent, temporarily flooded (PEM1A) wetland that exists within the agricultural field south of SR 332 and west of CR 600 W. The total size of Wetland D is 0.42 acre. Based on a qualitative analysis, Wetland D is considered to be of poor quality due to its position within a roadside ditch. Wetland D is likely to be considered an isolated, exempt wetland due to a lack of hydrologic connectivity to a Water of the U.S. Approximately 0.05 acre of Wetland D occurs within the proposed permanent ROW; however, based on the defined construction limits 0.02 acre will be permanently impacted by the activities

| This is page 12 of 27 | Project name: | SR 332 / CR 600 W Intersection Improvement | Date: | February 28, 2020 |
|--|-------------------------------------|--|-------|-------------------|
| Company of the Compan | IX North-Control Management Control | | | |

County Delaware Route SR 332/CR 600 W Des. No. 1298228

necessary to construct the west loon. The widening of eastbound SR 332 and the grading of the 4:1 foreslope encroaches upon Wetland D, which accounts for the impacts to the identified feature (Appendix B, B31).

There is no practicable alternative to the proposed new construction in the identified wetlands and the proposed action includes all practicable measures to minimize harm to wetlands which may result from such use. No mitigation for the 0.03 acre of wetland impact is anticipated.

Early coordination letters were sent to the USACE, USFWS, and IDNR DFW on September 12, 2018 (Appendix C, C1 to C4). The USACE did not respond to early coordination.

The IDNR, DFW responded on October 12, 2018, and stated that coordination with USACE and the IDEM should occur to determine permits required based on wetland impacts (Appendix C, C41 to C42). This recommendation is included in *Section J: Environmental Commitments*.

The USFWS responded on October 31, 2018, stating they have no objections to the project as currently proposed (Appendix C, C39 to C40). No recommendations included in their response were pertinent to wetland impacts.

An automated letter was generated from IDEM's website on September 12, 2018 (Appendix C, C9 to C16). Applicable recommendations from the Proposed Roadway Letter include limiting wetland disturbance and coordinating with the appropriate permitting agencies. These recommendation are included in Section J: Environmental Commitments.

Terrestrial Habitat Unique or High Quality Habitat

| Presence | Impa | acts |
|----------|------|------|
| | Yes | No |
| X | X | |
| 10 335 | | |

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

Remarks: Based on a desktop review, a site visit on October 27 and 30, 2017 by Lochmueller Group, the U

Based on a desktop review, a site visit on October 27 and 30, 2017 by Lochmueller Group, the USGS topographic map (Appendix B, B2), and the aerial map of the project area (Appendix B, B3) the land use near the project area consists of vegetated roadside, residential, and agricultural land. Dominant vegetation within the project area included reed canarygrass (Schedonorus arundinaceus), yellow foxtail (Setaria pumila), barnyardgrass (Echinochloa crus-galli), creeping bentgrass (Agrostis stolonifera), and fall panicgrass (Panicum dichotoflorum). No signs of wildlife were observed during the field check; however, it can be assumed that small animals such as squirrels, raccoons, foxes, birds, etc. likely inhabit the surrounding area.

The project will take place within vegetated roadside and agricultural land. Impacts to this low quality terrestrial habitat are expected to be minor. Some vegetation clearing, land grading, and minor excavation will be necessary within the construction limits in order to construct the improvements at the intersection. Excavation activities are not expected to exceed 3 feet below ground surface. Minor tree clearing of approximately 0.05 acre will also be necessary. The project will not impact any core forest and will not have significant impacts on wildlife communities. Mitigation is not anticipated.

Early coordination letters were sent to the USFWS and IDNR DFW on September 12, 2018 by the consultant (Appendix C, C1 to C4).

The USFWS responded on October 31, 2018, stating they have no objections to the project as currently proposed (Appendix C, C39 to C40). They also included standard recommendations regarding limiting impacts to terrestrial habitat. These recommendations include limiting the clearance of trees and understory vegetation to within construction limits the use of erosion control in areas of disturbed soils. Applicable recommendations provided by the USFWS are included in *Section J: Environmental Commitments*.

This is page 13 of 27 Project name: SR 332 / CR 600 W Intersection Improvement Date: February 28, 2020

| County _ | Delaware | Route | SR 332/CR 600 W | De | s. No. | 1298228 |
|-------------------------------------|--|--|---|--|--|--|
| | The IDNR DFW responded on Or sediment control, revegetation of vegetation destroyed during consessources (Appendix C, C39 to C Section J: Environmental Commit An automated letter was generate Applicable recommendations frow vegetation, implementing erosion permitting agencies. Applicable | f bare and struction, a 40). Applements. ed from ID om the Property and sed and sed sed from and sed sed structure. | disturbed areas, the cland recommendations to icable recommendations. DEM's website on September of Roadway Letter iment control measures. | earing of trees o avoid or mir s provided by I ember 12, 2018 r include limit es and coordin | and bru nimize in DNR DF (Appen ing distuating wi | sh, replacement of inpacts to botanical W can be found in dix C, C9 to C16). Inbance of riparian ith the appropriate |
| If there are high animal movemen | Environmental Commitments. incidences of animal movements obsent, consideration of utilizing wildlife cross | ved in the pr sings should | oject area, or if bridges and be taken. | d other areas app | pear to be | the sole corridor for |
| Karst Is the p Are kar | roposed project located within or ac st features located within or adjacer | ljacent to tl nt to the foo | ne potential Karst Area o otprint of the proposed p | of Indiana? project? | Yes | No X X |
| | If yes, will the project impact any | of these ka | rst features? | | | |
| Use the remar MOU. dated O | ks box to identify any karst features october 13, 1993) | | | | | |
| Remarks: | Based on a desktop review, a stopographic map (Appendix B, Indiana, as identified <i>Karst Men</i> (March 14, 2007). The RFI did n E7). Therefore, no impacts are ex | B2), and the morandum of identify | he RFI, the project is I of Understanding betw | ocated outside veen INDOT, | the desi | igned karst area of DEM, and USFWS |
| | Early coordination information w by the consultant (Appendix C, indicated moderate liquefaction p for encountering sand and gravel (Appendix C, C5 to C7). This inti- identified within the IGS commu- | C1 to C4 otential, hi resources formation I |). The early coordinat gh potential for encount . No mineral resource e | ion response, of tering bedrock in extraction sites | dated Se resource: are docu | ptember 12, 2018, s, and low potential imented in the area |
| | | | | Presence | | Impacts |
| Within th Any critic Federals | I or Endangered Species Le known range of any federal specical habitat identified within project a Lespecies found in project area (based cecies found in project area (based c | rea d upon info | rmal consultation) Itation with IDNR) | X | | Yes No X |
| Is Sectio | n 7 formal consultation required for | this action | ? Yes | No X | s. | |
| | | | | | | |
| | | | | | | |

SR 332 / CR 600 W Intersection Improvement

This is page 14 of 27 Project name:

Date: _ February 28, 2020

| Indiana Department of Transportation | | | | | | | |
|--------------------------------------|---|--|---|--|--|--|--|
| County | Delaware | Route | SR 332/CR 600 W | Des. No. | 1298228 | | |
| Remarks: | Based on a desktop revi Delaware County Endang to E10). The highlighted county. Early coordination According to the IDNR Heritage Program's datab ETR, have been reported | gered, Threatened, species on the li- on with IDNR DF DFW response, of ase has been check | and Rare (ETR) Species reflect the federal and W was initiated by Local lated October 12, 2018 ked. To date, no plant or | s List has been checke I state identified ETR hmueller Group on S (Appendix C, C41 to | ed (Appendix E, E9 species within the eptember 12, 2018. o C42), the Natural | | |
| | The project qualifies for Long-Eared bat between USFWS dated May 2016 indicate the presence of ereview performed on Oct Indiana bat and/or the n submitted through the (https://ecos.fws.gov/ipacthat the project falls with threatened northern longwithin the project area (A | FHWA, Federal II (revised February ndangered species tober 27 and 30, 2 orthern long-eare e USFWS Info (user/login) on Au in range of the fe eared bat (Myotis | Railroad Administration, 2018). A review of the in or within 0.5 mile of the 2017 by the consultant, d bat (NLEB) (Appendormation for Planningust 9, 2018. An official derally endangered India septentrionalis) but went | Federal Transit Adn USFWS database by the project area (Appe revealed no signs of ix I, I2 to I5). Proje g and Consulting al species list was gen- una bat (Myotis sodali | inistration, and the INDOT ES did not ndix E, E4). A field the presence of the ct information was (IPaC) website erated and indicated s) and the federally | | |
| | Based on the responses adversely affect these special Concurrence Verification C38). No response was rethat they concurred with tincluded in the effect find timing of tree removal, an AMMs are included as document. | icies. After INDO Letter was upload ceived from the Us the finding on Nov ing and pertained and ensuring no oth | T reviewed and verified ded for USFWS review of SFWS within the 14-day rember 3, 2018. Avoidanto contractor knowledge er trees other than those | the effect finding on on October 24, 2018 (a review period; therefo ce Minimization Mea- of AMMs, type of lig noted on the plans are | October 24, 2018, a Appendix C, C23 to re, it was concluded sures (AMMs) were thing to be used, the to be removed. All | | |
| | In accordance with Apper for Indiana Bat and North two years prior to constru 7 of the Endangered Spec becomes available, or if the | nern Long-Eared I oction. This preclu ies Act of 1973, a | Bat, a Bridge/Structure A ades the need for further as amended. If new infor | ssessment Form will l consultation on this p rmation on endangere | be completed within roject under Section d species at this site | | |
| | An early coordination let C1 to C4). | ter was sent to the | e USFWS on September | 12, 2018 by the cons | ultant (Appendix C, | | |
| | The USFWS responded proposed and the project process (Appendix C, C3 to fish, wildlife, and bota in Section J: Environmen | should follow the 9 to C40). They al nical resources. A | e Indiana bat/northern loso included standard rec | ong-eared bat program ommendations regard | nmatic consultation ing limiting impacts | | |
| | g ^d d = gr | | | A A CONTRACTOR | | | |
| SECTIO | N B – OTHER RESOURC | ES | | N. Committee | and the Year | | |
| | | 112 | Presence | e Imna | cte | | |

Drinking Water Resources Wellhead Protection Area Public Water System(s) Yes Residential Well(s) Date: February 28, 2020 This is page 15 of 27 Project name: SR 332 / CR 600 W Intersection Improvement

| County | Delaware | Route | SR 332/CR 60 | 0 W | Des. No. | 1298228 | |
|--|--|--|--|--|--|--|------------------------------------|
| | Water Protection Area(s) ource Aquifer (SSA) | | | | | | |
| If a SSA | A is present, answer the foll | owing: | | | Ma | | 21 |
| ls [.] Ini | the Project in the St. Joseph the FHWA/EPA SSA MOU tial Groundwater Assessme stailed Groundwater Assess | Applicable? nt Required? | | Yes | No | | a. |
| Remarks: | The proposed project is designated sole source: Protection Agency Sole detailed groundwater ass. The IDEM Wellhead Pr Lochmueller Group on A The IDNR Enhanced Was by Lochmueller Group on impacts are anticipated. Through the utility coor been identified in the problem identified in the property of the project area (App Therefore, no impacts are an extended to the project area (App Therefore, no impacts are solved.) | aquifer in the state Source Aquifer Me sessment is not requested and sessment is not requested at the sessment is not requested. The sessment is not requested at the sessment is not requested as a result of this dination process in soject area. Therefore the sessment is not sessment in the sessment is not request in the sessment in the sessment in the sessment is not request in the sessment in the sessment in the sessment is not request in the sessment in the sessment in the sessment is not request in the sessment in the sessment in the sessment is not request in the sessment in the sessment in the sessment is not request in the sessment in the s | of Indiana. The morandum of aired. No impactor website (http://www.morandum.com/mor | perefore, the Agreement is are expected of the Agreement is at a reason and the arrangement is | FHWA/United Stance applicable to ed. idem.in.gov/whp in a Wellhead Proportion of the project of this as a result of this as an essent on Septem for did not response to the project is located to the project is located to be sent on Septem for did not response to the project is proper to the project is located to the project is located to be sent on Septem for did not response to the project is located to the project is located to be sent on Septem for did not response to the project is located to the projec | ates Environment this project, and athis project, and athis project, and athis project, and the athis project, and water systems ha project. S4/) on February within the Yorkto ber 12, 2018, to a d within the 30-d a, and the aerial m | by ved re, ve 7, wn the day |
| Longitu Transve Project Homes | Ins (INDOT CE Prep Manudinal Encroachment erse Encroachment located within a regulated fillocated in floodplain within acts according to classification. The Federal Emergency by Lochmueller Group (it does not fall within the impacts are expected. Early coordination infor (Appendix C, C1 to C4 formal approval by the required for this project. | oodplain 1000' up/downstrea on system described Management Ager Appendix F, F13). e guidelines for the mation was submit). According to the IDNR under the re (Appendix C, C39 | d in the "Procedary (FEMA) floated to the IDNIs response letter | not located in one of 23 CFR R, DFW on S r from the ID turns administe | were reviewed on a regulatory flo 650, 23 CFR 77 eptember 12, 201 NR, DFW, dated | ronmental Studies on August 20, 20 odplain. Therefor 1, and 44 CFR. If Studies 1 October 12, 20 ion of Water is 1 | 18, ore, No ant 18, |
| This is p | age 16 of 27 Project nam | e: SR 332 / CR | 600 W Intersection | n Improvemen | t Da | ate: February 28 | 8, 2020 |

| | Delaware | Route | SR 332/CR 600 W | Des. No. <u>1298228</u> | |
|--|--|--|--|---|-----------------------------|
| | ural Lands | , , , , , , , , , , , , , , , , , , , | Presence | Impacts Yes No X X | |
| Prime F | armland (per NRCS) | | X | <u> </u> | |
| Total Poi | nts (from Section VII of CPA greater, see CE Manual for guid | -106/AD-1006* ance. | 148 | | |
| ee CE Manu Remarks: | the project area (Append Farmland Protection Poliform NRCS-CPA-106 has the Natural Resources Coproposed project will cause 148 on Form NRCS-CPA farmland that result in the less than 160 points, this other than those previous prime farmland. This pro- | w, a site visit on C ix B, B3), there is cy Act (FPPA). A as been completed onservation Service ase a conversion of A-106 (Appendix e consideration of a site will receive a sly discussed in the ject will not have a | October 27 and 30, 2017 b 0.64 acre of farmland wi s required by the FPPA, the An early coordination lesse (NRCS). The NRCS resse f prime farmland. Coordin C, C44). The NRCS the alternatives is 160. Since no further consideration for is document, will be constant a significant impact to farm | y Lochmueller Group, the aerial map of thin the project limits as defined by the NRCS has been coordinated with are ter was sent on September 12, 2018 apponded on October 31, 2018 stating the nation with NRCS resulted in a score of reshold score for significant impacts of this project received a total point value for farmland protection. No alternative sidered without re-evaluating impacts and and. In accordance with the FPPA, the nary 28, 2019 for their records. | ne nd to ne of to ne es, to |
| SECTION | I C – CULTURAL RESOL | JRCES | | | |
| Minor Projec | cts PA Clearance | Category Typ | September 21, 20 | | |
| | | Eligible and/o | | | |
| Results of F | Research | Resource P | resent | | |
| Archaeology NRHP Build NRHP Distri NRHP Bridg | lings/Site(s) ict(s) | | | | |
| roject Effec | t | | | | |
| No Historic I | Properties Affected | No Adverse E | Effect Advers | se Effect | |
| | | <u>Documentation</u> | | | |
| Documenta | tion (mark all that apply) | <u>Prepared</u> | ES/FHWA Approval Date(s) | SHPO Approval Date(s) | |
| | perties Short Report perty Report cal Records Check/ Review | X | February 20, 2018 February 20, 2018 | N/A N/A | |

| County | Delaware | Route | SR 332/CR 600 W | Des. No. | 1298228 |
|---|--|--|--|--|--|
| Memorandu | m of Agreement (MOA) | | MOA Signature Dates | (List all signatories) | P |
| categories ou in local news <u>r</u> | Section 106 and 36 Clundertakings on proper (NRHP). A Minor Proceeding of the Council on Historic Procedure 12, 2006. This no effect on properties An Indiana Archaeolo archaeological reconna (CRA) on December archaeological sites reconnected for review. Following DHPA for their record about the need for review responded on August 2 On September 21, 2018 B, Item 3 under the MF or auxiliary lanes (Appose Condition A: applicant and archaeological AND Condition A: | The completion of a publication date, nate at be completed at a linal of the FHWA, it all of the FHWA, it all of as amended (Sec FR 800 outline a producties that are listed or objects Programmatic eservation, and the It is document streamling listed on or eligible of gical Report, which issance, was completed 20, 2017. The commended eligible of the stream of the s | the Section 106 process the of paper(s) and the clater date, such as mitigs required to comply stion 106) and its implescess that requires FHV or eligible for listing of Agreement (MPPA) be adiana State Historic Process the Section 106 process the Section 1 due to a refine the transfer of the following condition of the Section 1 due to a refine the following condition of the following condition of the Section 1 due to a remains are uncovered to the Section 1 due to a remains are uncovered to a remains are uncov | s requires that a Legal I comment period deadling to the comment period deadling that in or deep trenching. With Section 106 of the ementing federal regular WA and INDOT to evan the National Register that the discovery must be set to the servation officer (SH preservation officer (CRO) on 10, 2018, the report was the set of the project lines and the project lines for construction of adord the set of the project lines for construction of adord the set of the project lines for construction of adord the set of the project lines for construction of adord the set of the project lines for construction of adord the set of the project lines for construction of adord the set of the project lines for construction of adord the set of the project lines for construction of adord the set of the project lines for construction of adord the set of the project lines for construction of adord the set of the project lines for construction of adord the project lines for construction o | Notice be published e. Likewise include National Historic ation, 36 CFR 800. Illuste the effects of rof Historic Places DOT, the Advisory PO) was signed on that typically have the heck and Phase Ia rees Analytics, Inc. as found that no e proposed project. December 20, 2017 as sent to the IDNR occurred inquiring mits. INDOT CRO delines of Category ded travel, turning, a conducted by the ally NRHP-eligible the HP-eligible district ponsibilities of the conduction, or the reported to the |
| | D – SECTION 4(f) RE | | ON 6(f) RESOURCE | S | |
| | f) Involvement (mark all t | hat apply) | Presence | Yes No | |
| This is pa | age 18 of 27 Project nar | me: <u>SR 332 / CR 6</u> | 00 W Intersection Improv | vement Date | te: February 28, 2020 |

| County _ | Delaware | Route | SR 332/CR 600 W | Des. No. | 1298228 |
|-----------------------------------|--|----------------------------|---|--|-----------------------|
| Publicly | owned park owned recreation area chool, state/national forest, bikeway | y, etc.) | | | - |
| "De | grammatic Section 4(f)* minimis" Impact* vidual Section 4(f) | | Evaluations Prepared | FHWA Approval date | |
| National National State W | Vaterfowl Refuges Wildlife Refuge Natural Landmark ildlife Area ature Preserve | | Presence | Yes No | * |
| "De | grammatic Section 4(f)* minimis" Impact* vidual Section 4(f) | | Evaluations Prepared | FHWA Approval date | |
| Historic Pro Sites eli | operties gible and/or listed on the NRHP | | <u>Presence</u> | Yes No | |
| "De | grammatic Section 4(f)* minimis" Impact* vidual Section 4(f) | | Evaluations Prepared | FHWA Approval date | |
| *FHWA approv | val of the environmental document iscussed below. | also serve | es as approval of any Se | ction 4f Programmatic | and/or De minimis |
| documentation Individual Secti | ammatic Section 4(f) and "de minir must be separate Draft and Fina ion 4(f) evaluations please refer to th natives that satisfy the requirements | al docume ne "Proced | nts. For further discussi lural Manual for the Prepa | ons on Programmatic | , ae minimis and |
| Remarks: | Section 4(f) of the U.S. Departments historic lands for federally funded. The law applies to significant pubeligible or listed historical propert 4(f) resources. | d transport | tation facilities, unless the ed parks, recreational are | ere is no feasible and pas, wildlife/waterfowl | refuges, and NRHP |
| | Based on a desktop review, a site the project area (Appendix B, B3) map from the RFI report (Appendix B, B4) area. Therefore, no impacts are expenses the second second second second second second second second second sec | , the Secti lix E, E6), | on 106 consultation (App | endix D, D1 to D4), ar | id the intrastructure |
| Section 6(f) |) Involvement | | Presence | Use | |
| This is pa | ge 19 of 27 Project name: <u>SI</u> | R 332 / CR | 600 W Intersection Improve | ement Da | te: February 28, 2020 |

| County | Delaware | Route | SR 332/CR 600 W | Des | . No | 1298228 |
|---------------------------|--|---|--|--|--|--|
| | | | | Yes | No | |
| Section 6(f |) Property | | | | | |
| Discuss propo Remarks: | The U.S. Land and (LWCF) which was Section 6(f) of this A review of Section wa.html) which constate revealed a total | atisfy the requirements of Water Conservation Funds created to preserve, de Act prohibits conversion at 6(f) property on the Instains a listing of all project of 3 properties within jacent to the project area oct. | d Act of 1965 establish evelop, and assure acc of lands purchased with evestigate West website ects receiving LWCF in Delaware County (App | ed the Land and essibility to out h LWCF money (http://projects.nonies between bendix I, II). No | Water Codoor recress to a nor invw.org/. 965 and income of the | conservation Fund eation resources. I-recreation use. data/lwcf/grants- 2011 within each ese properties are |
| SECTION | E – Air Quality | | | | | |
| Collis the If Y | ES, then: Is the project in the m Is the project exempt | ality non-attainment or most current MPO TIP? from conformity? | | Yes | No X | |
| | Is the project in th | exempt from conformity, e Transportation Plan (T e Transportation Plan (T rsis required (CO/PM)? equired? | | | | |
| Lev | vel 1a X Level 1 | Level 2 Level 2 | evel 3 Level 4 | Level 5 | | |
| Remarks: | Additionally, this November 15, 20 | ted in the FY 2016-201 project is located within 7 (Appendix H, H3). | n the DMMPC and wa | s incorporated i | nto the 20 | 018-2021 TIP on |
| | according to n /nonattainment_co | onattainment county ounty_list.pdf). Therefor | list on IDEM's we, the conformity proce | ebsite (www.i dures of 40 CFF | n.gov/ide CPart 93 | n/airquality/files lo not apply. |
| | This project is of a under the Clean A analysis is not req | type qualifying as a cat ir Act conformity rule uired. | egorical exclusion (Gro under 40 CFR 93.126, | up 1) under 23 (and as such, a l | CFR 771.1 Mobile So | 17(c), or exempt ource Air Toxics |
| | å | | | | | |
| SECTION | F – NOISE | | | • | | |
| Noise Is a noise a | nalysis required in acc | ordance with FHWA reg | ulations and INDOT's t | affic noise policy | Υe | s No |
| This is na | ge 20 of 27 Project | name: SR 332 / CR 6 | 00 W Intersection Improv | rement | Date: | February 28, 2020 |

| County | Delaware | Route | SR 332/CR 600 W | Des. No. | 1298228 |
|---------------|---|--------------------------|---|--|-----------------------------|
| oounny . | | | | | 9 |
| | | No. Vos/Do | 4- | | |
| ES Review | of Noise Analysis | No Yes/ Da | te | | 2 |
| Remarks: | This is a Type III project | | h 23 CFR 772 and the cur | rent INDOT Traffic | Noise Analysis |
| | Procedure, this action d | oes not require a for | nal noise analysis. | | II. |
| | | | | | |
| SECTION | G – COMMUNITY IMP | ACTS | | | |
| | | | | u u u u u | . Na |
| Regional, | Community & Neighborh posed action comply with | ood Factors | elonment natterns for the | | es No |
| Will the pro | posed action result in sub | stantial impacts to co | mmunity cohesion? | arou: | X |
| Will the pro | posed action result in sub | stantial impacts to loc | cal tax base or property va | alues? | X |
| Will constru | iction activities impact con | nmunity events (festiv | /als, fairs, etc.)? | | X |
| Does the co | ommunity have an approv | ed transition plan? | | | X |
| If No, a | re steps being made to ad | vance the community | /'s transition plan'? | | X |
| Does the p | roject comply with the tran | sition plan? (explain | in the remarks box) | | <u>x</u> |
| Remarks: | The project will ultimat | elv be beneficial to k | ocal business and properti- | es due to improved tr | affic flow along the |
| | corridor, and the project | t will not substantiall | y change access to propert | ties within the area. C | overall, the negative |
| | impacts to property ov | vners and local busi | nesses within the project | t area will be minim | al and will consist |
| | primarily of short-term | construction impact | s. No relocations will oc | cur. Property owne | rs will be provided |
| | access throughout the | duration of the proj | ect to reduce impacts as | s much as possible. | The project is not |
| | anticipated to result in | substantial impacts | to community cohesion | , because it will no | t change access to |
| | properties within the arc | ea. The proposed pro | ject is not expected to imp Therefore, this project will | l have minimal or no | negative impacts to |
| | the community or local | | meretore, unis project win | I mave minimal of no | negative impacts to |
| | the community of local | economy. | | | 0 1 |
| | According to the Fairs | and Festivals website | (www.fairsandfestivals.r | net), accessed on Sep | tember 21, 2018 by |
| | the consultant, there are | e no fairs and festiva | ls scheduled within 10 m | iles of the project fo | r 2020 which is the |
| | anticipated construction | ı year. | | | - W |
| | 4 | | # _ y h l | | 1 11 |
| | The MOT may pose de | lays and temporary i | nconveniences to travelin | ig motorists (including | Ig school buses and |
| | emergency services); I | tod to impact access | niences will cease upon to community events. | The contractor will | he responsible for |
| | contacting school distr | icts and emergency | services at least 2 weeks | prior to any constru | ction activities that |
| | would limit access, this | is included as a com | mitment in Section J: En | vironmental Commit | ments. |
| | × | | | | 5000 - 100000000 - 10000000 |
| | In February 2014 Dela | ware County submi | tted its Americans with | Disabilities Act (AD | A) Transition Plan |
| | entitled, "Delaware C | ounty ADA Transit | ion and Implementation | Plan" (https://www | v.co.delaware.in.us/ |
| | egov/documents/15424 | 00496_31155.pdf). | As proposed, the proje | ect does not includ | le the addition or |
| | modification of existing | g pedestrian facilities | . Additionally, there are o | currently no existing | pedestrian facilities |
| | within or near the proje | ct area. Therefore, th | e project is in compliance | s with the ADA Trail | Sition Fran. |
| | An early coordination | letter was sent to the | DMMPC on September | 12, 2018 (Appendix | C, C1 to C4). No |
| | response was received. | | Dining of our september | , (-TT | |
| | | 0.00 | To the second | , Table 180 | |
| | | | | 1 | Voc. No |
| Indirect ar | nd Cumulative Impacts posed action result in sub | setantial indirect or ou | mulative impacts? | | Yes No |
| vviii the pro | pposed action result in sub | Stantial mulieut of Gu | malativo impaoto: | _ | |
| | | | | | |
| | | | | | |
| | | | | | |
| Thie ie n | age 21 of 27 Project na | me: SR 332 / CR (| 600 W Intersection Improve | ment Da | ate: February 28, 2020 |

| | mulana | a Depai | unent of Transp | Ortation | |
|--------------|--|--|---|--|--|
| County | Delaware | Route | SR 332/CR 600 W | Des. No. | 1298228 |
| Remarks: | Indirect impacts are caused by an still reasonably foreseeable. Indirinduced changes in the pattern of lon the environment, which result and reasonably foreseeable futur undertakes such other actions. This project will not add substantiany currently undeveloped area. The street of | ect effects land use, p from the in e actions ial capacit Cherefore, | may include growth i opulation density, or g neremental impact of the regardless of what ago to the existing roadwithe project is not expect | nducing effects and other owth rate. Cumulative ne action when added to gency (Federal or non any network or provide a | er effects related to impacts are impacts other past, present, Federal) or person additional access to |
| Will the pro | ilities & Services posed action result in substantial implies, emergency services, religious in facilities? Discuss how the mainten | oacts on h | ealth and educational fa | acilities, public and ration or pedestrian | Yes No X |
| Remarks: | Based on a desktop review, a site the project area (Appendix B, B3) public facilities within or adjace construction. Therefore, no impact | , and the innt to the | nfrastructure map of the project area. Access to | e RFI report (Appendix | E, E6) there are no |
| | The proposed project will not resprivate utilities, emergency service and/or bicycle facilities. The proposed and signage along existing roads deplease refer to the MOT section of | es, religion osed project uring cons | us institutions, airports, at will utilize daytime la atruction (Appendix B, | , public transportation, p ne restrictions, construct B25 to B30). A detour v | pedestrian facilities, etion warning lights, |
| | Coordination was sent to the D Management Agency, the Yorktov 2018 by the consultant (Appending provided early coordination, conce County Emergency Management Meeting held at the project site. A primary north-south emergency intersection at this location was rebeing required to negotiate the meeter for the minutes from this meeter field Check Meeting the design restricting left-turns onto CR 600 mountable curb will allow emerge thereby minimizing the effects to of the loons closer to the intersection able to make the legal U-ture eastern loon was shifted 267 fee emergency response routes of the practical through the project design | wn Police of the Control of the Cont | Department, and the Yoo C4). While none of a Yorktown and Gaston are documented at an atting the two representations. Their primary one inability of emergent. They felt this would at are included in Appendified to address these either direction of SR ales to traverse SR 332 canse routes. The second der to reduce the distances the modification was shifter With the modification. | orktown Fire Department these agencies formally Fire Departments, as we October 27, 2017 Prelied fire departments not concern with the const cy service vehicles to the deversely affect their residix I, I15 to I16. Follow concerns. First, the program without having to use to change to the design in the motorists would have deposed design to the proposed to the proposed design to the proposed to th | nt on September 12, by responded to the vell as the Delaware minary Field Check and CR 600 W was a ruction of a J-turn raverse SR 332 and aponse times. Please wing the Preliminary oposed raised curb mountable curb. The median U-turns, avolved the shifting ave to travel before R 600 W, while the legn, impacts to the |
| | Coordination was sent to Wes-Del 2018 by the consultant (Appendi September 20, 2018, stating that the beginning of construction. | x C, C1 | to C4). Yorktown Cor | nmunity Schools respo | onded by phone on |

This is page 22 of 27 Project name:

| Surveyor's 2018. No The contrato construto document | Delaware | Route | SR 332/CR 600 W | Des. No. | 1298228 |
|--|---|---|---|---|---------------------------------------|
| | | _ | | | |
| | Coordination was also | sent to the Delawa | re County Commissioner | s, Council, Highway | Department, and |
| | Surveyor's Office, as w | vell as the Mount Pleas | sant Township and Harriso | on Township Trustees | s on September 12, |
| | 2018. No responses we | ere received from the | above entities. | | |
| | The contractor will be to construction. This is document. | responsible for contac is included as a firm | ting school districts and e commitment in Section . | mergency services at J: Environmental Co | least 14 days prior mmitments of this |
| | / | | | Ye | s No |
| Environm | nental Justice (EJ) (Presid | dential EO 12898) | | re | S NO |
| During the | development of the project | ct were FJ issues ider | tified? | | X |

Remarks:

If YES, then:

Does the project require an EJ analysis?

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Are any EJ populations located within the project area?

Will the project result in adversely high or disproportionate impacts to EJ populations?

Under FHWA Order 6640.23A, FHWA and INDOT – Greenfield District, as recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT *Categorical Exclusion Preparation Manual*, an Environmental Justice (EJ) analysis is required for any project that has two or more relocations or 0.5 acre or more of additional permanent right-of-way. This project will require 0.63 acre of permanent ROW. Therefore, an EJ analysis is required.

X

Potential EJ impacts are detected by locating minority populations and low-income populations in and near the project area, calculating their percentage in the area relative to a reference population to determine if populations of EJ concern do exits, and then determining whether there will be disproportionate adverse impacts to them. The reference population may be a county, city, or town and is called the community of comparison (COC). For this project, the COC is Delaware County, Indiana. The community that overlaps or is near the project limits is called the affected community (AC). For this project, the AC's are Census Tracts 24.02 and 25 in Delaware County, Indiana. When more than 50% of the population in the AC is minority or low income or when the minority or low income populations of the AC is more than 125% of the COC populations, the project is considered to have an EJ population of concern.

A review of the American Community Survey five-year estimates data (2012-2016) was completed on August 30, 2018 (Appendix I, I6 to I12). The data was obtained from the U.S. Census Bureau's American FactFinder webpage (https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml).

| Minority and Low-Income Data (ACS 5 year estimates: 2012-2016) | | | | |
|--|-----------------------------------|------------------------------|---------------------------|--|
| Sand Street, M. Carlotte | COC - Delaware County, Indiana | AC 1 - Census Tract 24.02 | AC 2 - Census Tract 25 | |
| Percent Minority | 12.6% | 5.6% | 8.4% | |
| 125% of COC | 15.8% | AC < 125% COC | AC < 125% COC | |
| EJ Population of Concern | | No | No | |
| Percent Low-Income | 22.0% | 6.7% | 9.8% | |
| 125% of COC | 27.5% | AC < 125% COC | AC < 125% COC | |
| EJ Population of Concern | | No | No | |

AC 1 (Census Tract 24.02) has a total percent minority population of 5.6% while AC 2 (Census Tract 25) has a total percent minority population of 8.4%, both of which are below 50% and are below the 125% COC threshold. Therefore, the AC's do not contain minority populations of EJ concern.

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| | has a total percent low-inc | ome population of | ent low-income population of 9.8%, both of which are belin low-income populations | low 50% and are belo | Census Tract 25) w the 125% COC |
| | The census data sheets, environmental justice ana | | tions can be found in Appo | endix I, pages I6 to | I12. No further |
| Will the pro Is a Busine Is a Conce | n of People, Businesses or oposed action result in the reless Information Survey (BIS) optual Stage Relocation Study relocation coordination been | ocation of people, required? (CSRS) required | ? | Yes | X X X |
| Number of | relocations: Residence | es: <u>0</u> E | Businesses:0 Farms | s:0 Other: | 0 |
| Remarks: | One electric company (Al known to have facilities v to confirm facility locat | businesses, or far EP), one cable cor within the project ions, identify pot | ns will take place as a result inpany (Comcast), and one carea. Coordination with the cential conflicts, and devel- tion of the engineering phase | communications comp se utility companies l op relocation plans | as been initiated |
| Hazardou Red Flag I Phase I Ei | N H – HAZARDOUS MATE s Materials & Regulated Su Investigation nvironmental Site Assessmen | bstances (Mark a t (Phase I ESA) | Doc | sumentation X | · |
| Phase II E Design/Sp | invironmental Site Assessment ecifications for Remediation r | required? | | | |
| | Site Assessment and Mans or sites involved with reg | estigation. and available publ agement (SAM) (A ulated substances | ic records, a RFI was approved Appendix E, E1 to E10). No were identified in or within ulated substances is not requ | sites with hazardous in 0.5 mile of the proj | naterial concerns |
| SECTION | NI – PERMITS CHECKLIS | ST . | | | , |
| | mark all that apply) | | Likely Required | | |
| Army Cor In Na Re | ps of Engineers (404/Section dividual Permit (IP) ationwide Permit (NWP) egional General Permit (RGP re-Construction Notification (F |) | X | , | |
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| Indiana Department of Transportation | | | | | |
|--------------------------------------|---|--|--|--|--|
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| , | Other Wetland Mitigation required Stream Mitigation required | | × × | | |
| IDNR US Coas | Section 401 WQC Isolated Wetlands determinated Rule 5 Other Wetland Mitigation required Stream Mitigation required Construction in a Floodway Navigable Waterway Permit Lake Preservation Permit Other Mitigation Required st Guard Section 9 Bridge (Please discuss in the ren | Permit | X X X | | |
| Remarks | limited to the portion considered an isolated Section 404 RGP and Wetlands B. A forma required during the permitting the ordinary hig required for the USAC According to the IDM | of the wetlands within a exempt wetland due IDEM Section 401 Well jurisdictional deterministing phase. When cumulative streath water mark. Due to Exection 404 RGP or RDFW early coordinates. | re of Wetland D will be a the construction limits to a lack of connectivity later Quality Certification ination has not yet became and wetland impacts the cumulative impacts or the IDEM Section 401 ation response letter, data ministered by the Division | of the project. Wetland to a jurisdictional water on will be required due ten made by the USACI meet or exceed 300 lines of 0.03 acre, mitigation water Quality Certificated October 12, 2018, for | D is likely to be rway. A USACE to the impacts to E, which will be ar feet or 0.1 acre is not likely to be tion. |

(Appendix C, C39 to C40). Therefore, a Construction in a Floodway Permit is not required.

The project may disturb up to 5.24 acres of land. Therefore, the project is expect to exceed the minimal guidelines of soil disturbance and an IDEM Rule 5 Notice of Intent will be required.

It is the responsibility of the project sponsor, or their agent, to identify and obtain all required permits.

SECTION J- ENVIRONMENTAL COMMITMENTS

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

Remarks:

Firm (Required):

- 1. The contractor will be responsible for contacting school districts and emergency services at least 14 days prior to construction. (INDOT Greenfield District)
- 2. If permanent or temporary right-of-way amounts change, the INDOT Greenfield District Environmental Section will be contacted immediately. If any scope changes take place, the INDOT Greenfield District Design and INDOT Greenfield District Environmental Section will be consulted. A scope change could cause this environmental document to no longer be valid. (INDOT Greenfield District)

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3. It will be the responsibility of the designer to consult with INDOT ES Ecology and Waterway Permitting Office to determine the required permits for the project and to submit plans to process permits. (INDOT Greenfield District)

4. If a spill occurs or contaminated soils or water are encountered during construction, appropriate personal protective equipment should be utilized. Contaminated materials will need to be properly characterized, handled, and disposed in accordance with current regulations. IDEM should be notified through the Spill Line at (888) 233-7745 within 24 hours of discovery of contamination and within two hours of discovery of a spill. (INDOT Greenfield District)

5. Delineate Wetland A, Wetland B, and Wetland D on the plans. Beyond construction limits, mark these resources as "Do Not Disturb". If additional impacts are required beyond those considered in the environmental document, additional documentation or permits may be needed. (INDOT Greenfield District)

6. The small structures must be inspected by INDOT for the presence of bats or signs of bats within two years prior to construction. A copy of the inspection will be provided to the INDOT project manager. (INDOT Greenfield District)

7. If any archaeological artifacts or human remains are uncovered during construction, federal law and regulations (16 USC 470, et seq.: 36 CFR 800.11 et al.) and State Law (IC 14-21-1) require that work must stop immediately, and that the discovery must be reported to the DHPA in the IDNR within 2 business days. (IDNR DHPA)

8. 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)

9. Direct temporary lighting away from suitable habitat during the active season. (USFWS)

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

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

12. Apply time of year restrictions for tree removal when bats are not likely to be present (no trees will be cleared from April 1 to September 30), 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 by qualified personnel with no bats observed and trees must be cleared the next day. (USFWS)

13. 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)

14. Do not remove documented Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 mile of roosts, or documented foraging habitat any time of year. (USFWS)

For Further Consideration:

1. Impacts to non-wetland forest of one acre or more should be mitigated at a minimum 2:1 ratio. If less than one are of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. (IDNR)

2. Revegetate all bare and disturbed areas within the project area using a mixture of grasses (excluding all varieties of tall fescue), sedges, and wildflowers native to Northern Indiana and specifically for stream bank/floodway stabilization purposes as possible upon completion. (IDNR)

3. Minimize and contain within the project limits all tree and brush clearing. (IDNR)

4. Do not cut any trees suitable for Indiana bat or northern long-eared at roosting (greater than 3 dbh, living or dead, with loose hanging bark, or with cracks, crevices or cavities) from April 1 through September 30. (IDNR)

5. Do not deposit or allow demolition/construction materials or debris to fall or otherwise enter the waterway. (IDNR)

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6. Do not excavate or place fill in any riparian wetland. (IDNR)

7. The use of cutback asphalt, or asphalt emulsion containing more than 7% oil distillate, is prohibited and will not occur during the months of April through October. (IDEM)

8. Reasonable precautions shall be taken to minimize fugitive dust emissions from construction 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 will be minimized. (IDEM)

9. Do not clear trees or understory vegetation outside the construction zone boundaries. (This restriction is not related to the "tree clearing" restriction for potential Indiana Bat habitat.) (USFWS)

10. Implement temporary erosion and sediment control methods within areas of disturbed soil. All disturbed soil areas upon project completion will be vegetated following INDOT's standard specifications. (USFWS)

SECTION K- EARLY COORDINATION

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

Remarks:

Early coordination with the regulatory agencies was completed on September 12, 2018 by the consultant (Appendix C, C1 to C4). If no response was received, it was assumed the agency did not feel the project will result in substantial impacts. The following agencies/individuals were contacted during the coordination phase.

| Ager | ncy | Date of Response(s) |
|------|--|---------------------|
| 1. | USACE, Louisville District | No Response |
| 2. | USFWS, Bloomington Field Office | October 31, 2018 |
| 3. | USDA, NRCS | October 30, 2018 |
| 4. | National Park Service, Midwest Regional Office | No Response |
| 5. | U.S. Department of Housing and Urban Development | No Response |
| 6. | FHWA, Indiana Division | No Response |
| 7. | IDNR, Division of Fish and Wildlife | October 12, 2018 |
| 8. | Indiana Geological Survey | September 12, 2018 |
| 9. | INDOT, Office of Public Involvement | September 12, 2018 |
| 10. | INDOT, Office of Aviation | No Response |
| 11. | INDOT, Greenfield District Environmental Scoping Manager | No Response |
| 12. | INDOT, Environmental Services | No Response |
| 13 | IDEM (electronic submission) | September 12, 2018 |
| 14. | Delaware County Board of Commissioners | No Response |
| 15. | Delaware County Highway Department | No Response |
| 16. | Delaware County Surveyor's Office | No Response |
| 17. | Delaware County Trustees | No Response |
| 18. | Delaware County Council | No Response |
| 19 | Delaware County Emergency Management Agency | No Response |
| 20. | Delaware County Sheriff's Department | No Response |
| 21. | Delaware-Muncie Metropolitan Planning Commission | No Response |
| 22. | Wes-Del Community Schools | No Response |
| 23. | Yorktown Fire Department | No Response |
| 24. | Yorktown Police Department | No Response |
| 25. | Yorktown Community Schools | No Response |
| 26. | Bureau of Water Quality MSD | No Response |

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