

Chapter 13—Glossary, Acronyms, and Index

Since the publishing of the Draft Environmental Impact Statement (DEIS), the following substantives change have been made to this chapter:

- The term "insurgence feature" was added.
- The term "Phase I Environmental Site Assessment" was added.

13.1 Glossary of Terms

Access Control Limits – Within the context of this project, an "access control limit" is a specific length along roads with an interchange within which no at-grade access is permitted. Access control limits are specified to avoid conflicts with traffic entering and leaving interchanges. This traffic may be traveling at relatively high rates of speed.

Accessibility – The ability of people to reach desired destinations (such as employment, shopping, recreational facilities, medical facilities, cultural centers, airports, etc.). Accessible regions allow residents to reach many such destinations in a shorter period of time. Regions with lesser accessibility allow residents to reach fewer destinations and require longer periods of time.

Alternatives – Possible routes for I-69. In the Tier 1 study, alternative corridors were evaluated, and Alternative 3C was selected as the preferred alternative. In Tier 2, alternative roadway alignments are being studied within each of the six sections of the Alternative 3C corridor. Six alternatives were identified for detailed analysis in Section 5, which extends from SR 37 south of Bloomington in Monroe County, Indiana to SR 39 just south of Martinsville in Morgan County, Indiana.

Ambient Noise – The background sound of an environment in relation to which all foreground sounds are heard, such as conversation in a room, dogs barking, birds singing, lawnmower engines, etc. Ambience is composed of many small sounds, near and far, which generally are heard as a composite, not individually.

Aquifer – One or more geologic formations containing sufficient saturated porous and permeable material to transmit water at a rate sufficient to feed a spring or for economic extraction by a well. A sole source aquifer is the sole or principal source of drinking water for an area.

Archaeological Research – Indiana guidelines define the phases of archaeological research as follows:

• **Phase Ia** includes background research and limited field reconnaissance to assess potential for cultural resources within a project area. The reconnaissance consists of a surface survey and visual inspection of the soil when ground surface visibility and survey conditions are adequate; or, when ground surface and survey conditions are not adequate, the use of shovel



probes, cores, and/or auguring techniques to discover site evidence at or near the surface of the site.

- **Phase Ib** is an intensive survey with the use of controlled surface collections, piece plotting, or subsurface sampling.
- **Phase Ic** is subsurface reconnaissance to locate archaeological sites buried in alluvial (sediment deposited by flowing water), colluvial (loose deposit of rock debris), or eolian (wind-borne) landforms.
- **Phase II** testing is conducted for sites identified through Phase I investigations that are potentially eligible for the National Register of Historic Places (NRHP). Sites are tested to determine the vertical extent of the site, the presence of subsurface cultural features (i.e. hearths, trash/storage pits, living surfaces), the nature and context of deposits, and extent of disturbance, if any. Field research is conducted through the controlled excavation of test units (usually measuring between 1x1m to 2x2m). Testing may also involve the stripping of top soil in areas to identify cultural features. Sites determined eligible for NRHP listing are recommended for avoidance and/or mitigation.
- **Phase III** archaeological projects are designed to mitigate or recover data from significant archaeological sites that cannot be avoided. These projects involve large-scale excavations and recovery efforts to mitigate adverse effects on a site. Mitigation plans are developed to determine the methodology and research design for the project.

Archaeological Site – An instance of past human behavior or activity, where humans conducted some activity and left evidence of it behind, including artifacts and features.

Area of Potential Effects (Archaeological) – The study area for belowground cultural resource impacts. It is defined through consultation with the State Historic Preservation Officer (SHPO), and consists of the right-of-way for the preferred alternative. (In Indiana, the SHPO is the Director of the Department of Natural Resources.)

Area of Potential Effects (Historic) – The study area for aboveground cultural resource impacts. It is defined through consultation with the State Historic Preservation Officer (SHPO), and for this undertaking consists of an area extending one mile on either side of the approved Tier 1 corridor, except where visibility is limited by vegetation or terrain. Where interchanges and/or access roads extend outside of the corridor, the APE is expanded appropriately. (In Indiana, the SHPO is the Director of the Department of Natural Resources.)

Bedrock – Solid rock underlying loose deposits such as soil.

Best Management Practice (BMP) – The methods or practices determined by a particular industry to be the most effective, practical means of accomplishing the tasks of that industry. For example, BMPs for treating water pollution may include requirements for treatment, operating procedures, and practices to control runoff leaks, sludge, waste, or drainage.



Section 5—Final Environmental Impact Statement

Biological Assessment (BA) – Information prepared by, or under the direction of, a Federal agency to determine whether a proposed action is likely to: (1) adversely affect listed species or designated critical habitat; (2) jeopardize the continued existence of species that are proposed for listing; or (3) adversely modify proposed critical habitat. Biological assessments must be prepared for major construction activities. The outcome of the biological assessment determines whether *formal consultation* or a *conference* with the appropriate regulatory agency (i.e., USFWS or the National Marine Fisheries Service) is necessary.

Biological Opinion (BO) – A document that includes: (1) the opinion of USFWS or the National Marine Fisheries Service as to whether or not a federal action is likely to jeopardize the continued existence of listed species, or result in the destruction or adverse modification of designated critical habitat; (2) a summary of the information on which the opinion is based; (3) a detailed discussion of the effects of the action on listed species or designated critical habitat; and (4) the terms and conditions (mitigation requirements) associated with the incidental take statement.

Brownfield – With certain legal exclusions and additions, the term "brownfield site" means real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant.

Cave - A natural underground opening in rock, large enough for human entry and exploration of an appreciable distance.

CERCLA Site – A site contaminated with a hazardous substance and being remediated as part of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

Clear Zone – The unobstructed, relatively flat area provided beyond the edge of the traveled way, intended to allow errant vehicles to stop or maneuver without striking any fixed objects. The clear zone includes any shoulders and auxiliary lanes.

Collector-Distributor (CD) Lanes – A one-way road next to a freeway that is used for some or all of the ramps that would otherwise merge into or split from the main lanes of the freeway. It is similar to a frontage road, but is built to freeway standards. It is used to eliminate or move weaving from the main lanes of the freeway.

Commerce Corridor – That part of a recognized system of highways that (1) directly facilitates, intrastate, interstate, or international commerce and travel; (2) enhances economic vitality and international competitiveness; or (3) provides service to all parts of Indiana and the United States.

Committed Project – This is a project that is expected to occur regardless of the proposed I-69 project. The construction of SR 641 (the Terre Haute bypass) and the construction of the Fullerton Pike/Gordon Pike/Rhorer Road roadway are examples of committed projects.

Community Advisory Committee (CAC) – A committee developed to facilitate communication between project team members and representatives of potentially impacted and



Section 5—Final Environmental Impact Statement

key constituent groups in the project area. Through a series of meetings, committee members learn details of the project and provide feedback on such subjects as community access, local needs, and development of alternatives.

Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) – A database that includes all sites currently on the National Priorities List, or being considered for it.

Congestion – A condition in which the number of vehicles using a road approaches the capacity of that road. It is characterized by reduced travel speeds and (at high levels of congestion) stop-and-go conditions.

Construction Limits – A boundary that defines the extent of the area within which construction activities can occur. The construction limits are contained within a project's right-of-way limits but do not always occupy the entire right-of-way area. The construction limits and right-of-way limits are shown on the contract plans provided to a contractor for purposes of constructing a project.

Context Sensitive Solutions (CSS) – A collaborative approach to developing and redesigning transportation facilities that fit into their physical and human environment while preserving the aesthetic, historic, community, and natural environmental values.

Contributing Sites/Structures – Within the Indiana Historic Sites and Structures Inventory (IHSSI) rating system, this is a property that is not important enough to stand on its own as individually "outstanding" or "notable". Such resources are important to the density or continuity of an area's historic fabric. "Contributing" properties may appear in the National Register of Historic Places if they are part of a historic district but do not usually qualify individually.

Core Forest – Generally accepted to be the portion of the forest that is 100 meters from the edge. The outer portion is considered the *edge habitat*.

Core Goal – In Tier 1, certain project goals were identified as *core* goals. A Tier 1 project goal was identified as a *core goal* based upon consideration of the policy/legislative framework as well as the transportation and economic development needs assessment. A substantial improvement for each core goal was expected for the selected Tier 1 alternative. In Tier 2 studies, there is no designation of core goals.

Corridor – The area (generally 2,000 feet in width) approved in the Tier 1 Record of Decision (ROD). Tier 2 studies identify a final alignment within the approved corridor. The corridor in Section 5 serves as the study area for natural resource impacts.

Cowardin et al. Classifications – Refers to the authors of the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al., 1979), which explains the USFWS wetlands classification method that includes five systems and many subsystems and classes.

Cumulative Impacts – Are defined by the Council on Environmental Quality (CEQ) Regulations as "The impact on the environment which results from the incremental impact of the



action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (federal or non-federal) or person undertakes such other actions." (CEQ Regulations). Cumulative impacts include the direct and indirect impacts of a project together with the reasonably foreseeable future actions of others.

Digital Terrain Model (DTM) – A digital terrain model (DTM) is a digital representation of ground surface topography or terrain. The DTM is most commonly represented as a triangular irregular network (TIN). This is the network (mesh) of triangles that are created by connecting all valid points and objects selected, according to the Delauney Triangulation Method. The model is generated from the physical features of the original ground survey points and their respective elevation and plan view feature lines. Flow lines for ditches, building outlines, walls, and edges of roadways or water are a few examples of these features.

Dip - The angle by which a stratum or plane deviates from the horizontal; the angle is measured in a plane perpendicular to the strike.

Direct Impacts – Are defined by the CEQ Regulations as "effects that are caused by the action and occur at the same time and place." For this project, an example of a direct impact would be the acquisition and filling of a wetland for the construction of an interchange.

Directional Ramp – A ramp that does not deviate greatly from the intended direction of travel and generally allows the vehicle to exit and enter from the right lane. In the case of a left-turn directional change, the vehicle generally turns to the left to complete the interchange movement as opposed to a right turn that would be required by a loop ramp. Directional ramps for left-turn moves provide more capacity than loop ramps but are more costly due to the bridge structures required to span the other roadways that are crossed by the ramp.

Ecosystem – The complex of living organisms, their physical environment, and all their interrelationships in a particular unit of space.

Economic Model – A computerized representation of the economy of a region. It models the interaction of components such as labor, capital, markets, and government policy. The model used in this study (the Regional Economic Model Inc. – REMI Model) analyzes the interaction of 53 industry categories with available markets, labor, and capital resources. It is used to forecast the economic effects of a significant change in policies that affect the economy, such as the construction of a new interstate highway between Evansville and Indianapolis.

Environmental Impact Statement (EIS) – A detailed document prepared as part of the National Environmental Policy Act (NEPA) process. A draft EIS (DEIS) is published to seek agency and public input. A final EIS (FEIS) adds (1) the comments and responses to the DEIS and (2) selects a preferred alternative.

Ephemeral Streams – Streams that flow only after rainfall and generally do not support aquatic life.



Section 5—Final Environmental Impact Statement

External Station – A special kind of zone on the boundary of a traffic modeled area. Unlike Traffic Analysis Zones (TAZs), these special external zones do not have demographic or land use data associated with them. Trips that enter or leave the modeled area are shown as originating or ending at that zone. For example, if the boundary of the modeled area were at I-70 west of US 231, all trips entering or leaving the modeled area via I-70 would be shown with their origin or destination at that external station. Such trips may begin or end far beyond the external station.

Farmed Wetlands – Wetlands that were drained, dredged, filled, leveled, or otherwise manipulated before December 23, 1985, for the purpose of, or to have the effect of, making the production of an agricultural commodity possible, and continue to meet specific wetland hydrology criteria.

Farmland Severance – Dividing farmland into two or more unconnected parcels by the purchase of the right-of-way necessary for the roadway. Severing may separate a portion of the farm from the residence or from the place where equipment is stored and cause inconvenience and additional travel time to work a portion of the farm.

Flood Easement – Flood easements may be acquired in some areas where the I-69 and new local access road bridge designs result in increased backwater exceeding 0.14 feet during the regulatory flood (the allowable limit identified in the Flood Control Act – IC 14-28). All bridge designs will comply with Federal Highway Administration (FHWA) approved design standards, which allow a maximum backwater increase of 1.0 foot during the regulatory flood.

Floodplain – Mostly level land along rivers and streams that may be submerged by floodwater. A "100-year floodplain" is an area subject to a 1% probability of a certain size flood occurring in any given year.

Forecast Year – A year that is 20-25 years into the future for which traffic forecasts are made. The design of any transportation facility must accommodate travel that would occur in the forecast year. For this study, the Forecast Year is 2035.

Functional Classification – "Functional classification is the process by which streets and highways are grouped into classes, or systems, according to the character of the service they are intended to provide. Basic to this process is the recognition that individual roads and streets do not serve travel independently in any major way. Rather, most travel involves movement through a network of roads." Quoted from *Highway Functional Classification: Concepts, Criteria and Procedures*, FHWA, Revised March, 1989, p. II-1.

Gaining Stream – A stream which increases in water volume as it progresses downstream, as it gains water from the local aquifer.

Geographic Information System (GIS) – A computer representation of data that is geographically distributed. These data can be generated and displayed to show their physical location. Each data set with a certain type of information (e.g., the location of wetlands)



constitutes a "layer" in the GIS. GIS layers can be superimposed to show the relationship between the locations of different items.

Geographic Scope – The study area for cumulative impacts. For Section 5, the geographic scope consists of Monroe and Morgan counties.

Grade Separation – Overpass or underpass.

Groundwater – That portion of the water beneath the surface of the earth that can be collected with wells, tunnels, or drainage galleries, or that flows naturally to the earth's surface via seeps or springs.

High Quality Natural Community – Any one of a number of unique habitats tracked by the IDNR Division of Nature Preserves and ranked by their relative scarcity in the state.

Historic Properties – Buildings, structures, sites, objects or districts that are eligible for or listed in the National Register of Historic Places.

Horizontal Alignment – Location of the road as it can be moved from side to side, usually done by using curves. Horizontal curves are, in effect, transitions between two tangents. These deflectional changes are necessary in virtually all highway alignments to avoid impacts on a variety of field conditions (e.g., right-of-way, natural features, man-made features).

I-69 Community Planning Program – A mitigation initiative developed by FHWA and the Indiana Department of Transportation (INDOT) that will set in place a regional strategy for providing resources (i.e., technical and financial assistance through grants) to local communities to manage the growth and economic development associated with I-69. In the Section 5 area, Monroe and Morgan counties, the Town of Ellettsville and the cities of Bloomington and Martinsville were eligible for grants.

Impaired Stream – A stream listed in the Indiana Department of Environmental Management (IDEM) 2008 303(d) List of Impaired Waterbodies. These streams do not meet Indiana's water quality standards. Streams may be impaired due to chemical or biological contaminants.

Indirect Impact Study Area – The Traffic Analysis Zones (TAZs) within Monroe and Morgan counties associated with Section 5 in which additional growth in population and/or employment is projected to occur due to I-69.

Indirect Impacts – Defined by the CEQ Regulations as "effects which are caused by the action and are later in time or farther removed in distance, but are still reasonably foreseeable. Indirect effects may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density, or growth rate...." For this project, an example of an indirect impact would be farmland bought by a developer to build a service station at an interchange associated with the undertaking.

Indirect Land Use Change Area – The study area for Section 5's cumulative impacts analysis. The area is composed of 55 Traffic Analysis Zones (TAZs) in Monroe and Morgan counties.



Section 5—Final Environmental Impact Statement

Induced Growth – Increases in population, residential / commercial development, jobs, etc., that occurs or is expected to occur as a result of a major project such as construction of a new highway.

Insurgence Feature – A surface feature that directs surface water into the karst groundwater system (i.e. sinkholes, swallet, losing and sinking streams).

Interchange – A grade-separated crossing with entrance and exit ramps to allow access to and from the route crossed.

Intermittent Streams – Streams that flow during or after large rainfall events (often seasonal) and support some aquatic life.

Intersection – The place where two or more roads meet or cross. Unlike an interchange, crossing is at-grade without any separation by use of a bridge. Traffic control is by use of signage and/or signalization.

Jurisdictional Wetland – A wetland regulated by the U. S. Army Corps of Engineers as a "water of the United States" under the Clean Water Act. Impacts to jurisdictional wetlands must be mitigated (e.g., recreated, restored, or enhanced).

Karst – Landscapes characterized by caves, sinkholes, underground streams, and other features formed by slow dissolution, rather than mechanical erosion, of bedrock. Karst areas can be especially sensitive to groundwater pollution.

Landlocked Parcel – Property to which road or driveway access has been terminated as a result of the project and for which construction of new access is not proposed.

Last Resort Housing – A program used when comparable replacement housing is not available or when it is unavailable within the displacee's financial means, and the replacement payment exceeds the state legal limitation. The purpose of the program is to allow broad latitude in methods of implementation by the state so that decent, safe, and sanitary replacement housing can be provided. This program is used, as the name implies, only as a "last resort," when there is no adequate opportunity for relocation within the area.

Layer – Individual digital GIS data file. Many layers (e.g., aerial photo, roads, churches) are used in a project to create one map.

Level of Service (LOS) Ratings – A scale that measures the levels of congestion and/or delay on a road. It goes from A (free flowing traffic) to F (the highest level of congestion/delay).

Managed Lands – Lands that are actively managed by federal, state, and local agencies and private land trusts. Lands include natural areas, city parks, nature and wildlife preserves, refuges, forests, fish, and wildlife areas, river access sites, and historic sites.

Memorandum of Agreement (MOA) or Memorandum of Understanding (MOU) – An agreement executed between two or more entities.



Section 5—Final Environmental Impact Statement

Metropolitan Planning Organization (MPO) – The forum for cooperative transportation decision-making for a metropolitan area. Title 23 USC Section 134 requires that (1) an MPO be designated for each Urbanized Area (UZA) containing 50,000 or more persons based on the latest U.S. Census, and (2) the metropolitan area has a continuing, cooperative, and comprehensive transportation planning process.

Mitigation – In the context of the NEPA process, CEQ regulations define mitigation as: avoiding the impact altogether by not taking a certain action or parts of an action; minimizing impacts by limiting the degree or magnitude of the action and its implementation; rectifying the impact by repairing, rehabilitating, or restoring the affected environment; reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action; or compensating for the impact by replacing or providing substitute resources or environments. The mitigation of impacts must be considered whether or not the impacts are significant.

Mobility Corridors – These corridors are the top-end of the highway system and are meant to provide mobility across that state. They provide safe, free-flowing, high-speed connections between metropolitan areas of the state and surrounding states. They serve as the freight arteries of the state and are vital for economic development.

National Environmental Policy Act (NEPA) – Legislation passed by Congress in 1969 that requires preparation of an environmental impact statement (EIS) for federal actions that may significantly impact the environment.

National Highway System (NHS) – A national system of highways, consisting of all interstate highways and other principal arterial highways. Federal policy is to focus federal highway investments on these roads. The NHS includes 5% of the national roadway network but serves approximately 40% of the nation's highway travel.

National Wetland Inventory (NWI) – A portion of the U.S. Fish and Wildlife Service that produces information on the characteristics of the nation's wetlands and deepwater habitats.

Natural Region – A major, generalized unit of the landscape where a distinctive assemblage of natural features is present. The natural region classification system includes several natural features, such as: climate, soils, glacial history, topography, exposed bedrock, pre-settlement vegetation, species composition, physiography, and plant and animal distribution.

No Build Scenario – The scenario in which a proposed project is not built. All benefits and impacts are forecasted with reference to the No Build scenario (also called the No Action Alternative). The No Build scenario was eliminated as an alternative during the Tier 1 Study. It is used for comparison purposes in the discussion of traffic, noise, economic, and cumulative land use impacts in the Tier 2 studies.

Notable Sites/Structures – Within the Indiana Historic Sites and Structures Inventory (IHSSI) rating system, this is a property that did not quite merit an "Outstanding" rating, but still is above average in its importance. Further research or investigation may reveal that the property could be eligible for National Register listing. The property may be eligible for the Indiana Register of Historic Sites and Structures.



Section 5—Final Environmental Impact Statement

Ordinary High Water Mark (OHWM) – The point on the bank or shore up to which the presence and action of water is so continuous or frequent as to leave a distinct mark by erosion, destruction of terrestrial vegetation, or other easily recognized characteristic.

Outstanding Sites/Structures – Within the Indiana Historic Sites and Structures Inventory (IHSSI) rating system, this is a property that has enough historic or architectural significance that it is already listed or should be considered for individual listing in the National Register of Historic Places.

Palustrine Wetland System – As it pertains to the project area, includes all nontidal wetlands dominated by trees, shrubs, and persistent emergents. The system groups the vegetated wetlands traditionally called by such names as: marsh, swamp, bog, fen, and prairie, and includes ponds.

Palustrine Emergent Wetland (PEM) – Wetland that supports erect, largely herbaceous perennial species and permanent water for most of the growing season, during those years of normal precipitation levels. These wetlands maintain the same appearance each year unless extreme climatic conditions cause flooding or other extreme local changes. Emergent wetlands traditionally include marsh, meadow, and fen communities.

Palustrine Forested Wetland (PFO) – Wetland that supports largely woody species greater than 20 feet in height and includes various hydrological regimes. This class generally possesses various layers of vegetation, including canopy trees, subcanopy trees, shrubs, and ground layer herbaceous vegetation. Forested wetlands traditionally include bottomland hardwood and swamp communities.

Palustrine Unconsolidated Bottom Wetland (PUB) – Wetland and deepwater habitat that support less than 30% cover of vegetation, contain at least 25% cover of substrate smaller than stones, and have various permanent or semi-permanent water regimes. These communities rarely comprise a stable substrate for aquatic vegetative growth.

Perennial Stream – Streams that are generally free-flowing year-round and support a wide variety of aquatic life.

Performance Measure – A rating (typically numerical) that assesses the degree to which an alternative satisfies a project goal.

Phase I Environmental Site Assessment – A report prepared for a property which identifies potential or existing environmental contamination liabilities.

Phase II Environmental Site Assessment – A detailed site investigation to determine the nature and extent of hidden hazards such as leaking underground storage tanks, contaminated soils, etc. using soil testing and/or groundwater testing of the site.

Physiographic Division – An area characterized by similar topography and land use.

Populated Area – General boundary where there is some density of residential development, similar to city limits.



Postprocessor – A computer program that analyzes a traffic assignment to compute measures of transportation performance.

Poverty – The status of any person living in a household with a total household income less than the poverty threshold. The poverty thresholds are based on the household size and are updated annually by the Census Bureau.

Primary Headwater Habitat Stream – As described in the *Field Evaluation Manual for Ohio's Primary Headwater Habitat Streams* (Ohio EPA, 2002), a "surface water of the state, having a defined bed and bank, with either continuous or periodic flowing water, with watershed area less than or equal to 1.0 square mile (259 hectares), and a maximum depth of water pools equal to or less than 40 cm." Primary headwater habitat streams are defined based on substrate type, quality, maximum pool depth, and bank full width, i.e., the total width of the stream at the boundary line of terrestrial vegetation.

Prime Farmland – Land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops.

Public Hearing – INDOT holds public hearings for all transportation projects that involve the development of an Environmental Impact Statement (EIS) under the National Environmental Policy Act (NEPA). A public hearing, which is held following the approval of the draft environmental document, is an opportunity for the public to make formal statements of position immediately before project decision-making and preparation of the final environmental document. The disposition of both oral and written comments is included in the final approved NEPA document that constitutes FHWA location approval. *Public meetings*, as needed during the development of the NEPA document. The disposition of comments made during a public involvement. The disposition of comments made during a public meeting is not required to be included in the environmental document.

Purpose and Need – The section of an environmental project that discusses the needs and defines the goals (purposes) of the project.

Purpose and Need Study Area – Two county area including Monroe and Morgan counties. Used for needs assessment, project performance measures, and energy impact analysis.

RCRA Site – A site that is regulated by the Resource Conservation and Recovery Act to generate, transport, store, or dispose of hazardous waste.

Record of Decision (ROD) – A NEPA requirement for an EIS, which explains the reasons for the project decision and summarizes any mitigation measures that will be incorporated in the project.

Regulated Drains – Open ditches or tile drains or a combination of both under the jurisdiction of a county Drainage Board. The Indiana Drainage Code (IC 36-9-27), which created a Drainage Board in each county, provides for a 75-foot drainage easement and gives the board the right to remove obstructions within the drain. They are also known as "legal drains."



Section 5—Final Environmental Impact Statement

Relocation – The purchase of private property (land and/or structures) for a public purpose, such as a transportation facility. The purchase price includes the costs of relocating residents or businesses. Also referred to as a displacement.

Reverse Curve – A succession of curves in which a curved horizontal alignment changes to a curve in the opposite direction of travel. For example, a curve to the right immediately followed by a curve to the left (with no straight section in between) is a reverse curve. A reverse curve may be confusing to drivers and generally is regarded as an undesirable design feature.

Right-of-Way Limits – Boundaries that define the area of land owned or obtained as an easement for purposes of constructing a road, railroad, power line, etc.

Riparian – Of, or pertaining to, rivers or streams and their banks.

Riparian Forest – Forested areas bordering streams or rivers. Riparian forests help to protect and enhance stream plants and animals, can contribute to the control of pollution entering the waterway, and can serve as a corridor for the movement of plants and animals.

Route Concept – A line connecting points on a map, used in the scoping and screening phases of the Tier 1 analysis.

Scoping – The initial step of an environmental study. It includes the determination of a range of possible alternatives and analysis of Purpose and Need for the project.

Screening – The second step of an environmental study. It applies Purpose and Need criteria to all alternatives to arrive at a set of alternatives for detailed study.

Section 4(f) – A section of the Department of Transportation Act of 1966 which prohibits FHWA from approving any program or project which requires the use of any publicly-owned park, recreation area, or wildlife or waterfowl refuge, or any land from a historic site of national, state, or local significance unless: (1) there is no feasible and prudent alternative to the use, and (2) all possible planning to minimize harm resulting from such use is included.

Section 4(f) Resource – Any site which meets specific criteria for protection under Section 4(f) of the Department of Transportation Act of 1966. These sites include specific publicly-owned parks, recreation areas, and wildlife or waterfowl refuges as well as sites listed in or eligible for inclusion in the National Register of Historic Places.

Section 7 Consultation – Section 7 of the Endangered Species Act of 1973 requires federal agencies to consult with the USFWS on all federal actions that may affect a federally-listed species to ensure that their actions do not jeopardize listed species or destroy or adversely modify critical habitat.

Section 106 Consultation – Consultation between a federal agency and consulting parties, including the State Historic Preservation Officer, regarding potential impacts of a federal action on historic sites and mitigation measures to reduce impacts. This consultation and review process is required by Section 106 of the National Historic Preservation Act of 1966.



Section 5—Final Environmental Impact Statement

Section 404 – Section 404 of the Clean Water Act establishes a program to regulate the discharge of dredged and fill material into "waters of the United States," including wetlands. Activities in "waters of the United States" that are regulated under this program include fills for development, water resource projects (such as dams and levees), infrastructure development (such as highways and airports), and conversion of wetlands to uplands for farming and forestry.

Section of Independent Utility (SIU) – A section of a larger project that would perform a useful purpose if none of the other sections were to be built. These sections must conform to certain regulatory criteria to ensure that each section performs independently. These criteria, specified in 23 CFR § 771.111 (f), require that the project: connect logical termini and be of sufficient length to address environmental matters on a broad scope; have independent utility or independent significance; and not restrict consideration of alternatives for other reasonably foreseeable transportation improvements. For the National I-69 project, there are 26 SIUs.

Seismic – Subject to, or caused by, an earthquake or earth vibration.

Serious Crash – A crash resulting in at least one fatality or serious injury.

Shrink-Swell Potential – The relative change in soil volume that occurs with changes in moisture content, the extent of which is influenced by the amount and kind of clay present in the soil. Shrinking and swelling of soils can cause damage to building foundations, roads, and other structures.

Sinking Stream – A stream that leaves the surface and enters into a subterranean groundwater system. This term can be used interchangeably with "influent stream" or "losing stream."

Sinkhole – A natural, closed depression in the surface of the earth which recharges groundwater (internal drainage). All land draining into a sinkhole is part of the sinkhole.

Spring – An area where groundwater discharges to the surface.

State Historic Preservation Officer (SHPO) – Administers the National Historic Preservation Program at the state level, reviews National Register of Historic Places nominations, maintains data on historic properties that have been identified but not yet nominated, and consults with federal agencies during the Section 106 process. In Indiana, the Director of the Department of Natural Resources serves as the SHPO.

State Implementation Plan (SIP) – Under the 1990 Clean Air Act Amendments (CAAA), each state is required to establish a plan for achieving and/or maintaining National Ambient Air Quality Standards (NAAQS) for pollutants that are considered harmful to the public health and environment, such as particulate matter (PM), sulfur dioxide (SO2), carbon monoxide (CO), ozone, oxides of nitrogen (NOX) and lead. This plan is known as the State Implementation Plan (SIP). The SIP establishes emission budgets (not to be exceeded) for "nonattainment" areas (i.e., an area that does not meet the NAAQS for one or more pollutants) and "maintenance" areas (i.e., an area that was formerly in nonattainment and now meets the NAAQS).



Statewide Mobility Corridor – The highest level of INDOT's statewide transportation network, corresponding closely to the Commerce Corridors.

Strike – The angle between true North and the horizontal line contained in any planar feature (inclined bed, dike, fault plane, etc.); also the geographic direction of this horizontal line.

Study Area – The limits within which potential impacts as a result alternatives are evaluated. For the Tier 1 study, the Study Area included 26 counties in Southwest Indiana. For Tier 2 Section 5, the Study Area includes the project corridor and surrounding places and Census Tract (CT) Block Groups (BG) the corridor travels through.

Study Area (Socio-Economic) – The limits within which potential socio-economic impacts which result from the implementation of alternatives are evaluated. For the Tier 1 study, the Study Area included 26 counties in Southwest Indiana. For Tier 2, the Section 5 Study Area is the distinct set of all census tract block groups that the approved I-69 corridor in Section 5 (which generally is 2,000-feet wide) passes through. The Study Area includes the following U.S. Census block groups:

Monroe County:

Census Tract 4.01-BG 3 Census Tract 4.02-BG 2 Census Tract 5.01-BG 2 Census Tract 5.02-BG 1 and BG 2 Census Tract 6.01-BG 2 Census Tract 6.02-BG 2 Census Tract 7-BG 2 and BG 3 <u>Census Tract 8</u>-BG 4 <u>Census Tract 11.02</u>-BG 2 <u>Census Tract 11.03</u>-BG 2 and BG 3 <u>Census Tract 12</u>-BG 2 <u>Census Tract 13.01</u>-BG 3 Census Tract 14.01-BG 1 and BG 2

Morgan County:

Census Tract 5107.01-BG 3 Census Tract 5110-BG 4

Study Band – Two-mile wide band around the conceptual working alignment.

Subsidence – Sinking of the earth's surface in response to geological or man-induced causes.

Superfund Sites – Uncontrolled or abandoned places where hazardous waste is located, possibly affecting local ecosystems or people and are listed on the U.S. Environmental Protection Agency's National Priorities List.

Swallet – The area where a stream sinks into the subsurface or the opening in the bottom of a sinkhole. This term can be used interchangeably with "swallowhole."



Threatened and Endangered Species (TES) – Species that are recognized by federal and state agencies as being in danger of extinction or being sufficiently compromised that they are at risk of becoming endangered, either nationally or in a state.

Tiering – A two-step process applied to NEPA evaluations where the first step (tier) focuses on broad issues such as general location, mode, choice, and area-wide air quality and land use implications of the major alternatives. The second step (tier) addresses site-specific details on project impacts, costs, and mitigation measures.

Tier 1 EIS – An EIS that may be completed for large studies that require certain major questions to be answered before a more detailed study (Tier 2 EIS) can be done.

Tier 2 NEPA Studies – More detailed NEPA studies completed after the Tier 1 EIS, as completed and authorized with a Record of Decision.

Tier 2 Sections – Shorter sections of the alternative that are selected in the Tier 1 ROD. Each Tier 2 Section is evaluated in a separate NEPA study.

Topography – The configuration of the surface of a place or region, including its relief.

Total Length – Length of an alternative extending the entire distance of a section's corridor. In Section 5, the length is approximately 22 miles, beginning just north of the intersection of SR 37 and Victor Pike, south of Bloomington, continuing northward to just south of the existing interchange of SR 37 and SR 39 in Martinsville.

Traffic Analysis Zone – One of many small areas within a larger geographical study area that has been subdivided for purposes of obtaining socioeconomic and traffic data in a manageable fashion.

TransCAD ® – The modeling platform produced by Caliper Corp. that is used by INDOT for the Indiana Statewide Travel Demand Model (ISTDM).

Travel Demand Model – A computerized representation of the population, employment, socioeconomic characteristics, and transportation network of a region. Travel on the transportation network is forecasted as a function of population, employment, and socio-economic characteristics. If proposed projects (such as an alternative of I-69) can be added to the transportation network, the model can forecast the effects of that proposed project.

Trip Table – A matrix listing the number of vehicular trips made between any two Traffic Analysis Zones (TAZs).

Typical Section – A section cut through a roadway that shows the typical configuration and design features. This will usually include lane and shoulder widths, profile grade and construction centerline location, roadway cross slopes, side slopes, ditches, and clear zones. Right-of-way width estimations were developed from typical sections.

Uneconomic Remnant – That portion of a property remaining after acquisition, the retention of which provides little utility or economic benefit to the owner. In relation to farmland, an



uneconomic remnant is a remainder that, if taken by itself, would be too small to be economically productive to farm.

Vertical Alignment – Location of the road as it can be moved up or down through hills and valleys.

Volume-to-Capacity (V/C) Ratio – The ratio of volume of traffic on a roadway to the capacity of that roadway. As the volume approaches the capacity, the roadway becomes congested.

Watershed – The surface area that drains to a specified point on a watercourse.

Wellhead Protection Area – The surface and subsurface area which contributes water to a public water supply well and through which contaminants are likely to move through, and reach, the well over a specified period of time. A wellhead protection area may be delineated by a fixed radius, hydrogeologic/geomorphic mapping, analytical, semi-analytical, or numerical flow/solute transport methods.

Wetland – A type of land use protected by various state and federal laws. Wetlands are characterized by plants adapted to a wet environment, soils which are characterized by anaerobic conditions, and which are inundated or saturated to the surface for at least 5% of the growing season in most years.

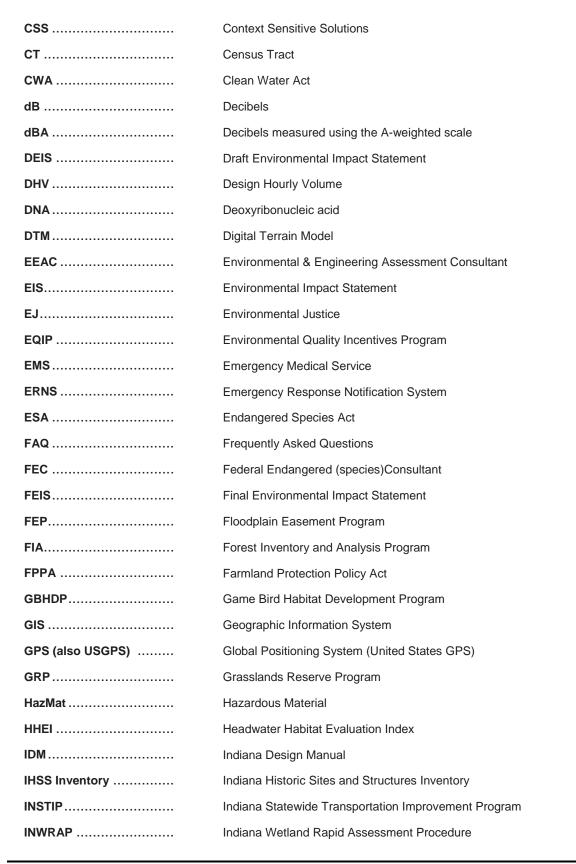
Working Alignment – A conceptual footprint of the right-of-way within a corridor used solely to estimate and compare the environmental impacts of the various alternatives. This is not a final alignment, which would be determined in the design phase.



13.2 Acronyms

13.2.1 Terms

AADT	Average Annual Daily Traffic
AC	Affected Community
ACS	American Community Survey
ADT	Average Daily Traffic
AI	Additional Information
AMSL	Above Mean Sea Level
APE	Area of Potential Effect
AR	Access Road
AST	Aboveground Storage Tank
ΒΑ	Biological Assessment
BG	Block Group
BMP	Best Management Practice
во	Biological Opinion
BTU	British Thermal Unit
CAAA	Clean Air Act Amendment
CAA	Clean Air Act
CAC	Community Advisory Committee
САР	Community Action Program
CD Lanes	Collector-Distributor Lanes
CEDS	Comprehensive Economic Development Strategy
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act (Hazardous Waste Sites)
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System (Hazardous Waste Sites)
CFR	Code of Federal Regulations
CIA	Community Impact Assessment
CFWP	Classified Forest and Wildlands Program
COC	Community of Comparison
СРР	Community Planning Program
CREP	Conservation Reserve Enhancement Program
CRP	Conservation Reserve Program





IP	Individual Permit
ISTDM	Indiana Statewide Travel Demand Model
ISTEA	Intermodal Surface Transportation Efficiency Act
LEDPA	Least Environmentally Damaging Practicable Alternative
Leq	equivalent continuous noise level
Leq(h)	hourly equivalent continuous noise level
LOS	Level of Service
LRP	Long-Range Plan
LUST	Leaking Underground Storage Tank
MAP-21	Moving Ahead for Progress in the 21st Century Act
МВТА	Migratory Bird Treaty Act
MGRRHD	Maple Grove Rural Road Historic District
МНР	Mobile Home Parks
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
MPA	Metropolitan Planning Area
МРО	Metropolitan Planning Organization
MSAT	Mobile Source Air Toxics
NAAQS	National Ambient Air Quality Standards
NAC	Noise Abatement Criteria
NASS	National Agricultural Statistics Service
NCHRP	National Cooperative Highway Research Program
NEPA	National Environmental Policy Act
NFA	No Further Action
NFRAP	No Further Remedial Action Planned
NHPA	National Historic Preservation Act
NOI	Notice of Intent
NRHP	National Register of Historic Places
NRI	Nationwide Rivers Inventory
NSWC	Naval Surface Warfare Center
NWI	National Wetlands Inventory
OHWM	Ordinary High Water Mark

РА	Programmatic Agreement
PAB	Palustrine Aquatic Bed
PAMP	Preferred Alternative Mitigation Package
РСВ	Polychlorinated biphenyl
PEM	Palustrine Emergent Wetland
PFO	Palustrine Forested Wetland
PIM	Public Information Meeting
РМ 2.5	Particulate matter 2.5 microns or smaller in size (a potential air pollutant)
РМС	Project Management Consultant
PUB	Palustrine Unconsolidated Bottom Wetland
PUD	Planned Unit Development
PSS	Palustrine Scrub-Shrub Wetland
QHEI	Qualitative Habitat Evaluation Index
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
RCRIS TSD	RECRIS Treatment, Storage, and Disposal Facilities
RCRIS COR	RECRIS Corrective Action Sites
RCRIS GEN	RECRIS Large and Small Quantity Generators
REG UST	State Registered UST Listing
REMI	Regional Economic Models, Inc.
RGP	Regional General Permit
ROD	Record of Decision
ROW	Right-of-way
REMEL	Reference Energy Mean Emission Levels
SAA	Summer Action Area
SAFETEA-LU	Safe, Accountable, Flexible, Efficient, Transportation Equity Act: A Legacy for Users
SHAARD	State Historical Architectural and Archaeological Research Database
SIP	State Implementation Plan (for air quality)
SIU	Section of Independent Utility
SR	State Rare (species), also State Route (highway)
SSC	State Special Concern (species)
SWCD	Soil and Water Conservation District

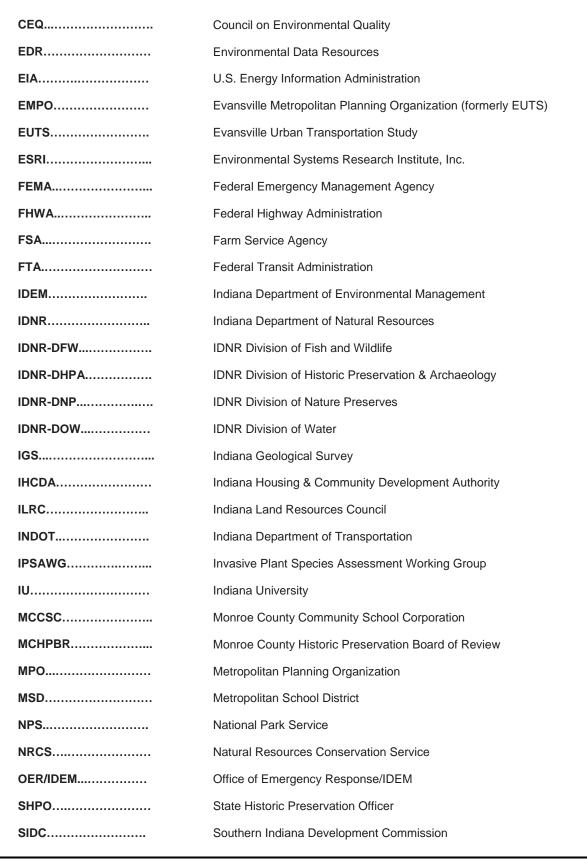


Section 5—Final Environmental Impact Statement

SWL	State Solid Waste Landfill List
TAZ	Traffic Analysis Zone
тсм	Transportation Control Measures
TEA-21	Transportation Equity Act for the 21 st Century
TERG	Taylor University Environmental Research Group
TES	Threatened and Endangered Species
TIF	Tax Increment Financing
TIN	Triangular Irregular Network
TIP	Transportation Improvement Program
TNM	Traffic Noise Model
UAB	Urbanized Area Boundary
UST	Underground Storage Tank
VFC	Virtual File Cabinet
V/C	Volume to Capacity Ratio
VFD	Volunteer Fire Department
VHT	Vehicle Hours of Travel
VMT	Vehicle Miles of Travel
VPD	Vehicles Per Day
VPH	Vehicles Per Hour
WAA	Winter Action Area
WHIP	Wildlife Habitat Incentive Program
WRP	Wetlands Reserve Program

13.2.2 Agencies & Organizations

AASHTO	American Association of Highway and Transportation Officials
ACHP	Advisory Council on Historic Preservation
BFO	Bloomington Field Office, USFWS
BHHS	Bloomington Hospital and Healthcare System
BLS	Bureau of Labor Statistics
ВМСМРО	Bloomington Monroe County Metropolitan Planning Organization
CAC	Community Advisory Committee
CBU	City of Bloomington Utilities





SWIDC	Southwest Indiana Development Council
SWIRDC	Southwestern Indiana Regional Development Commission (now QCDC)
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USDOT	United States Department of Transportation
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
USHHS	United States Department of Health and Human Services
WCPB	Water Pollution Control Board (Indiana)
WPA	Works Progress Administration

13.3 Index

<u>Subject</u>

FEIS Section

Aboveground Storage Tank (AST) 4.5, 5.16, 7.3 Accesss Roads 1.3, 3.2, 3.3, 3.4, 3.5, 5.1, 5.2, 5.3, 5.4, 5.6, 6, 7.3, 11.2 Advisory Council on Historic Preservation 1.2, 5.13, 5.14, 7.3, 8.3 Aerial Mapping 3.2, 5.1, 5.19, 5.20 Agriculture 4.2.3, 4.2.4, 4.3, 1, 4.3.2, 4.4.1, 5.1, 5.3, 5.4, 5.6, 5.12, 5.19, 5.20 Air Quality Impacts 1.2, 3.2, 4.6, 5.1, 5.9, 5.12 Air Quality Conformity 1.2, 4.6, 5.9 Alternatives Impact Analysis (Section 5) 3.3, 3.4, 5.1 - 5.27, 6 Alternatives Development (Section 5) 3.1 - 3.5, 6 Archaeological Resources 3.4, 4.43, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Archaeological Resources 3.4, 4.43, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Bald Eagle 1.2, 4.3, 3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Biological Assessment (BA) 1.2, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 113 Bolomington SR 37 Corridor Study 2.2 Bloomington Construction) 5.1,	1996 Evansville to Bloomington DEIS	
Accessibility 2.1, 2.4, 2.5, 3.3, 4.2, 5.2, 5.3, 5.5, 5.6, 5.24, 6, 7.3, 11.2 Access Roads 1.3, 3.2, 3.3, 3.4, 3.5, 5.1, 5.2, 5.3, 5.4, 5.6, 6, 7.3, 11.2 Advisory Council on Historic Preservation 1.2, 5.13, 5.14, 7.3, 8.3 Aerial Mapping 3.2, 5.1, 5.2, 5.3, 5.4, 5.6, 5.12, 5.19, 5.24 Air Quality Impacts 1.2, 3.2, 4.6, 5.1, 5.9, 5.20 Air Quality Conformity 1.2, 4.6, 5.9 Air Quality Conformity 1.2, 4.6, 5.1 Alternatives Impact Analysis (Section 5) 3.3, 3.4, 5.1 - 5.27, 6 Alternatives Development (Section 5) 3.1 - 3.5, 6 Ambient Noise Levels 4.7, 5.10, 5.13 Aquifers 4.32, 5.19, 5.24, 6.4 Archaeological Resources 3.4, 4.4, 3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Area of Potential Effects (APE) 4.4, 3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Area of Potential Effects (APE) 4.2, 5.13, 5.14, 7.3, 8.3 Bald Eagle 1.2, 4.3, 5.17, 5.18, 7.3 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 7.3 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 5.21, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3, 11 Biological Opinion (BO) 5.12, 5.12, 5.15, 5.5, 5.8, 7.3, 11.3 Boomington XA or Corridor Stu	e	
Access Roads 1.3, 3.2, 3.3, 3.4, 3.5, 5.1, 5.2, 5.3, 5.4, 5.6, 6, 7.3, 11.2 Advisory Council on Historic Preservation 1.2, 5.13, 5.14, 7.3, 8.3 Aerial Mapping 3.2, 5.1, 5.19, 5.20 Agriculture 4.2.3, 4.2.4, 4.3.1, 4.3.2, 4.4.1, 5.1, 5.3, 5.4, 5.5, 5.6, 5.12, 5.19, 5.24 Air Quality Impacts 1.2, 3.2, 4.6, 5.1, 5.9, 5.12 Air Quality Conformity 1.2, 4.6, 5.9 Air quality Conformity 1.2, 4.6, 5.9 Air parts 4.2.2, 5.3 Alternatives Impact Analysis (Section 5) 3.1, -3.5, 6 Ambient Noise Levels 4.7, 5.10, 5.13 Aquifers 4.3.2, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Archaeological Resources 3.4, 4.4.3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Archaeological Resources (APE) 4.4, 4.3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Bald Eagle 1.2, 4.3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.17, 5.19, 5.21, 7.2, 7.3, 7.3, 11 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Bloomington SR 37 Corridor Study 5.10, 5.12, 5.15, 7.3 Bloomington SR 37 Corridor Study 5.12, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.		
Advisory Council on Historic Preservation 1.2, 5.13, 5.14, 7.3, 8.3 Aerial Mapping 3.2, 5.1, 5.19, 5.20 Agriculture 4.2.3, 4.2.4, 4.3.1, 4.3.2, 4.4.1, 5.1, 5.3, 5.4, 5.5, 5.6, 5.12, 5.19, 5.24 Air Quality Impacts 1.2, 3.2, 4.6, 5.1, 5.9, 5.12 Air Quality Conformity 1.2, 4.6, 5.9 Alternatives Impact Analysis (Section 5) 3.3, 3.4, 5.1 - 5.27, 6 Alternatives Development (Section 5) 3.1 - 3.5, 6 Anrochaeological Resources 4.3.2, 5.19, 5.24, 6.4 Archaeological Resources 3.4, 4.4.3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Archaeological Resources 3.4, 4.4.3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Bade Eagle 1.2, 4.3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Biological Assessment (BA) 1.2, 5.17, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.19, 7.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.12, 5.17, 5.18, 5.19, 7.20, 7.2, 7.3, 11.3 Bloomington/Monroe County MPO 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.1, 5.2, 5.3, 5.10, 5.13, 7.3, 11.4 CERCLA Site 4.2,	•	
Aerial Mapping 32, 5.1, 5.19, 5.20 Agriculture 4.2.3, 4.2.4, 4.3.1, 4.3.2, 4.4.1, 5.1, 5.3, 5.4, 5.5, 5.6, 5.12, 5.19, 5.24 Air Quality Impacts 1.2, 3.2, 4.6, 5.1, 5.9, 5.12 Air Quality Conformity 1.2, 4.6, 5.9 Air Quality Conformity 1.2, 4.6, 5.9 Air Quality Conformity 4.2.2, 5.3 Alternatives Impact Analysis (Section 5) 3.3, 3.4, 5.1–5.27, 6 Alternatives Development (Section 5) 3.1 – 3.5, 6 Antaeological Resources 4.7, 5.10, 5.13 Aquifers 4.3.2, 5.19, 5.24, 64 Archaeological Resources 3.4, 4.4.3, 5.13, 5.14, 7.3, 8.1, 8.3 Bald Eagle 1.2, 4.3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Biological Assessment (BA) 1.2, 5.17, 5.18, 5.19, 7.20, 7.2, 7.3, 11 Biological Assessment (BA) 1.2, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.12, 5.3, 5.5, 5.8, 7.3, 11.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemetries <t< td=""><td></td><td></td></t<>		
Agriculture 4.2.3, 4.2.4, 4.3.1, 4.3.2, 4.4.1, 5.1, 5.3, 5.4, 5.5, 5.6, 5.12, 5.19, 5.24 Air Quality Impacts. 1.2, 3.2, 4.6, 5.1, 5.9, 5.12 Air Quality Conformity 1.2, 3.2, 4.6, 5.1, 5.9, 5.12 Air Quality Conformity 4.22, 5.3 Alternatives Impact Analysis (Section 5) 3.3, 3.4, 5.1 – 5.27, 6 Alternatives Development (Section 5) 3.1 – 3.5, 6 Archaeological Resources 4.7, 5.10, 5.13 Aquifers 4.3.2, 5.19, 5.24, 64 Archaeological Resources 3.4, 4.4, 5.13, 5.14, 7.2, 7.3, 81, 8.3 Area of Potential Effects (APE) 4.4, 5.13, 5.14, 7.2, 7.3, 81, 8.3 Bat Eagle 1.2, 4.3, 3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Biological Assessment (BA) 1.2, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.10, 5.12, 5.17, 5.18, 5.17, 7.3 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.12, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.22, 4.4.1, 5.3, 5.13, 7.3, 11.4 Churches 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 City of Bloomington Comprehensive Plan <td></td> <td></td>		
Air Quality Impacts. 1.2, 3.2, 4.6, 5.1, 5.9, 5.12 Air Quality Conformity. 1.2, 4.6, 5.9 Airports 4.2.2, 5.3 Alternatives Impact Analysis (Section 5) 3.3, 3.4, 5.1 – 5.27, 6 Alternatives Development (Section 5) 3.1 – 3.5, 6 Ambient Noise Levels 4.7, 5.10, 5.13 Aquifers 4.3.2, 5.19, 5.24, 6.4 Archaeological Resources 3.4, 4.4, 5, 13, 5.14, 7.2, 7.3, 8.1, 8.3 Archaeological Resources 3.4, 4.4, 5, 13, 5.14, 7.2, 7.3, 8.1, 8.3 Bald Eagle 1.2, 4.3, 3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Biological Assessment (BA) 1.2, 5.17, 5.10, 5.12, 5.17, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.15, 7.3 Bloomington SR 37 Corridor Study 22 Bloomington/Monroe County MPO 2.2 Sortuction) 5.12, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cremeteries 3.2, 3.4, 4.22, 4.4.1, 5.3, 5.13, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 Clean Ait Act 1.2, 4.6, 5.9 <td></td> <td></td>		
Air Quality Conformity. 1.2, 4.6, 5.9 Airports 4.2, 2, 5.3 Alternatives Impact Analysis (Section 5) 3.1, -3.5, 6 Alternatives Development (Section 5) 3.1, -3.5, 6 Ambient Noise Levels. 4.7, 5.10, 5.13 Aquifers 4.32, 5.19, 5.24, 6.4 Archaeological Resources. 3.4, 4.4.3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Area of Potential Effects (APE) 4.4, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Bald Eagle 1.2, 4.3, 3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Bicycle Trails 4.2, 2, 5.3 Biological Assessment (BA) 1.2, 5.12, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 5.10, 5.12, 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.15, 7.3 Bloomington/Monroe County MPO 2.2, 11.3 Boornow Sites (Construction) 5.12, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.22, 4.4.1, 5.3, 5.13, 7.3, 11.4 CPRCLA Site 4.2, 1, 5.3, 5.10, 5.13, 7.3 Churches 4.2, 4.5, 5.9 Clean Water Act 1.2, 4.6, 5.9		
Airports 4.2.2, 5.3 Alternatives Impact Analysis (Section 5) 3.3, 3.4, 5.1 – 5.27, 6 Alternatives Development (Section 5) 3.1 – 3.5, 6 Ambient Noise Levels 4.7, 5.10, 5.13 Aquifers 4.3.2, 5.19, 5.24, 6.4 Archaeological Resources 3.4, 4.4.3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Area of Potential Effects (APE) 4.4, 5.13, 5.14, 7.3, 8.3 Balt Eagle 1.2, 4.3.3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Bicycle Trails 4.2.2, 5.3 Biological Assessment (BA) 1.2, 5.17, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.1, 5.2, 5.3, 5.5, 8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 Cemeteries 3.2, 3.4, 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 <		
Alternatives Impact Analysis (Section 5) 3.3, 3.4, 5.1 – 5.27, 6 Alternatives Development (Section 5) 3.1 – 3.5, 6 Ambient Noise Levels 4.7, 5.10, 5.13 Aquifers 4.3.2, 5.19, 5.24, 64 Archaeological Resources 3.4, 4.4.3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Bald Eagle 1.2, 4.3.3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Bicological Assessment (BA) 1.2, 5.17, 5.20, 7.2, 7.3, 11 Biological Assessment (BA) 1.2, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.17, 5.18, 5.21, 7.2, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.12, 5.3, 5.5, 5.8, 7.3, 11.3 Cemetries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CHCLA Site 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 Clean Air Act 1.2, 4.5.9, 5.23 Clean Air Act 1.2, 4.5.9, 5.25 Clean Air Act 1.2, 4.5.9, 5.23 Clean Air Act 1.2, 4.5.9, 5.23 Community Advisory Committee (CAC) 2.2, 5.3, 5.10, 5.13, 7.3		
Alternatives Development (Section 5) 3.1 – 3.5, 6 Ambient Noise Levels 4.7, 5.10, 5.13 Aquifers 4.3.2, 5.19, 5.24, 64 Archaeological Resources 3.4, 4.4.3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Bald Eagle 1.2, 4.3.3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Bicycle Trails 4.2, 2, 5.3 Biological Assessment (BA) 1.2, 5.17, 5.18, 7.9, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.17, 5.18, 5.21, 7.2, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.12, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 CerectLA Site 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3, 11.4 CHurches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 Clean Air Act 1.2, 4.6, 5.9 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act 1.2, 4.6, 5.9 Clean Water Act 1.2, 4.3, 5.19, 5.23 Community Advisory Committee (CAC) 2.3, 3, 5.3, 5.6, 7.2, 7.3, 11 Commu		
Ambient Noise Levels 4.7, 5.10, 5.13 Aquifers 4.3.2, 5.19, 5.24, 6.4 Archaeological Resources 3.4, 4.4.3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Area of Potential Effects (APE) 4.4, 5.13, 5.14, 7.2, 7.3, 8.1 Bald Eagle 1.2, 4.3.3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Bicycle Trails 4.2.2, 5.3 Biological Assessment (BA) 1.2, 5.17, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.17, 5.18, 5.21, 7.2, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloornigton/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.12, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CHCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.0, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.3, 5.19, 5.23 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 111 Community Advisory Committee (CAC) <td< td=""><td></td><td></td></td<>		
Archaeological Resources 3.4, 4.4.3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Area of Potential Effects (APE) 4.4, 5.13, 5.14, 7.3, 8.3 Bald Eagle 1.2, 4.3.3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Bicycle Trails 4.2.2, 5.3 Biological Assessment (BA) 1.2, 5.17, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.17, 5.18, 5.21, 7.2, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 5.12, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 5.12, 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act. 1.2, 4.3, 5.19, 5.23 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Community Impact Assessment <	· · · · · · · · · · · · · · · · · · ·	
Archaeological Resources 3.4, 4.4.3, 5.13, 5.14, 7.2, 7.3, 8.1, 8.3 Area of Potential Effects (APE) 4.4, 5.13, 5.14, 7.3, 8.3 Bald Eagle 1.2, 4.3.3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Bicycle Trails 4.2.2, 5.3 Biological Assessment (BA) 1.2, 5.17, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.17, 5.18, 5.21, 7.2, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 5.12, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 5.12, 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act. 1.2, 4.3, 5.19, 5.23 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Community Impact Assessment <	Aquifers	
Bald Eagle 1.2, 4.3, 3, 5.17, 5.18, 7.3 Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Bicycle Trails 4.2.2, 5.3 Biological Assessment (BA) 1.2, 5.17, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.17, 5.18, 5.21, 7.2, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.12, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act. 1.2, 4.3, 5.19, 5.23, 5.8 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity 4.2.1, 5.2, 5.10, 5.12, 6, 7.3		
Best Management Practices (BMPs) 5.12, 5.19, 5.21, 5.23, 5.26, 7.3 Bicycle Trails 4.2.2, 5.3 Biological Assessment (BA) 1.2, 5.17, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.15, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.12, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CHRCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.3, 5.19, 5.23 Community Advisory Committee (CAC) 2.3, 2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity 1.2, 5.10,		
Bicycle Trails 4.2.2, 5.3 Biological Assessment (BA) 1.2, 5.17, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.15, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2 Clean Air Act 2.2 Community Advisory Committee (CAC) 2.3, 3.4, 5.3, 5.3, 5.6, 7.2, 7.3, 11 Community History 4.2.1, 5.2, 5.3, 5.5, 5.8 Community History 4.2.1, 5.2, 5.3, 5.6, 7.2, 7.3, 11 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity 4.2.1, 5.10, 5.12, 6, 7.3	Bald Eagle	
Biological Assessment (BA) 1.2, 5.17, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.15, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.12, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity 4.2.1, 5.10, 5.12, 6, 7.3	Best Management Practices (BMPs)	5.12, 5.19, 5.21, 5.23, 5.26, 7.3
Biological Assessment (BA) 1.2, 5.17, 5.20, 7.2, 7.3, 11 Biological Opinion (BO) 1.2, 5.12, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11 Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.15, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.12, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity 4.2.1, 5.10, 5.12, 6, 7.3	Bicycle Trails	
Biological Surveys 5.17, 5.18, 5.21, 7.2, 7.3 Blasting (Construction) 5.10, 5.12, 5.15, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.12, 7.3, 7.3 Business Impacts 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act. 1.2, 4.3, 5.19, 5.23 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics Age, Race, Ethnicity 4.2.1, 5.10, 5.12, 6, 7.3		
Blasting (Construction) 5.10, 5.12, 5.15, 7.3 Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act 1.2, 4.6, 5.9 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics Age, Race, Ethnicity 4.2.1, 5.8 Construction Impacts 5.12, 5.10, 5.12, 6, 7.3	Biological Opinion (BO)	1.2, 5.12, 5.17, 5.18, 5.19, 5.20, 7.2, 7.3, 11
Bloomington SR 37 Corridor Study 2.2 Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.12, 7.3 Business Impacts 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act 1.2, 4.6, 5.9 Clean Water Act 2.2 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity 4.2.1, 5.2 Sonstruction Impacts 1.2, 5.10, 5.12, 6, 7.3	Biological Surveys	
Bloomington/Monroe County MPO 2.2, 11.3 Borrow Sites (Construction) 5.12, 7.3 Business Impacts 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.5.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act 1.2, 4.6, 5.9 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity 4.2.1, 5.2 Log Struction Impacts 1.2, 5.10, 5.12, 6, 7.3	Blasting (Construction)	5.10, 5.12, 5.15, 7.3
Borrow Sites (Construction) 5.12, 7.3 Business Impacts 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act 1.2, 4.6, 5.9 Clean Water Act 2.2 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity 4.2.1, 5.8 Construction Impacts 1.2, 5.10, 5.12, 6, 7.3	Bloomington SR 37 Corridor Study	
Business Impacts. 5.1, 5.2, 5.3, 5.5, 5.8, 7.3, 11.3 Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act 1.2, 4.3, 5.19, 5.23 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics Age, Race, Ethnicity 4.2.1, 5.8 Construction Impacts 1.2, 5.10, 5.12, 6, 7.3	Bloomington/Monroe County MPO	
Cemeteries 3.2, 3.4, 4.2.2, 4.4.1, 5.3, 5.13, 7.3, 11.4 CERCLA Site 4.5.1, 5.16, 7.3, 11.4 Churches 4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act 1.2, 4.3, 5.19, 5.23 Commerce Corridors 2.2 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics Age, Race, Ethnicity 4.2.1, 5.8 Construction Impacts 1.2, 5.10, 5.12, 6, 7.3	Borrow Sites (Construction)	
CERCLA Site. .4.5.1, 5.16, 7.3, 11.4 Churches .4.2.2, 5.2, 5.3, 5.10, 5.13, 7.3 City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act. 1.2, 4.3, 5.19, 5.23 Commerce Corridors. 2.2 Community Advisory Committee (CAC). 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion .4.2.1, 5.2, 5.3, 5.8 Community History .4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity .4.2.1, 5.10, 5.12, 6, 7.3		
Churches	Cemeteries	
City of Bloomington Comprehensive Plan 2.2 Clean Air Act 1.2, 4.6, 5.9 Clean Water Act. 1.2, 4.3, 5.19, 5.23 Commerce Corridors. 2.2 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity 4.2.1, 5.8 Construction Impacts 1.2, 5.10, 5.12, 6, 7.3	CERCLA Site	
Clean Air Act 1.2, 4.6, 5.9 Clean Water Act. 1.2, 4.3, 5.19, 5.23 Commerce Corridors. 2.2 Community Advisory Committee (CAC). 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3,11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity 4.2.1, 5.8 Construction Impacts 1.2, 5.10, 5.12, 6, 7.3	Churches	
Clean Water Act. 1.2, 4.3, 5.19, 5.23 Commerce Corridors. 2.2 Community Advisory Committee (CAC) 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3, 11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity 4.2.1, 5.8 Construction Impacts 1.2, 5.10, 5.12, 6, 7.3	City of Bloomington Comprehensive Plan	
Commerce Corridors. 2.2 Community Advisory Committee (CAC). 2, 3.2, 3.3, 5.3, 5.6, 7.2, 7.3,11 Community Cohesion 4.2.1, 5.2, 5.3, 5.8 Community History 4.2.1 Community Impact Assessment 1.2, 4.1, 4.2, 5.3, 5.8 Comparative Population Characteristics—Age, Race, Ethnicity 4.2.1, 5.8 Construction Impacts 1.2, 5.10, 5.12, 6, 7.3		
Community Advisory Committee (CAC)	Clean Water Act	
Community Cohesion		
Community History4.2.1Community Impact Assessment1.2, 4.1, 4.2, 5.3, 5.8Comparative Population Characteristics—Age, Race, Ethnicity4.2.1, 5.8Construction Impacts1.2, 5.10, 5.12, 6, 7.3	Community Advisory Committee (CAC)	
Community Impact Assessment	Community Cohesion	
Comparative Population Characteristics—Age, Race, Ethnicity		
Construction Impacts		
Construction Within a Floodway Permit		
	Construction Within a Floodway Permit	





Consulting Party	5 13 5 14 7 3 11 3 11 4
Context Sensitive Solutions	
Core Forest Impacts	
Corn Production	
Corridor 18	,
Corridor Segment Alternatives (Section 5, Description	
Costs (Capital)	1 2 3 2 3 3 3 4 5 1 6
Costs (Mitigation)	
Crane Naval Surface Warfare Center	
Crashes	
Crop Cash Receipts	
Crop Production Loss	
Crop Yields	
Cultural Resources	
Cumulative Impacts	
Demographic Profile	
Economic Development1.2, 2.1, 2.5, 3.2, 3.3, 4.2	
Economic Impact	
Economy	
Ecosystems1.2.2.1, 4.3.1, 4.3.2	2, 4.3.3, 5.17, 5.18, 5.19, 5.20, 5.21, 5.24, 7.3
Educational Attainment	
Emergency Responders	.3.2, 3.4, 4.2.1, 4.2.2, 5.3, 5.6, 7.3, 11.2, 11.3
Employment	2.3, 3.3, 4.2.1, 4.2.4, 5.1, 5.5, 5.24, 11.3
Endangered Species Act	
Energy Impacts	
Environmental Justice	
Erosion Control	
Expert Land Use Panel	
Farmland1.2, 1.3, 3.2, 3.4, 4.2	
Farmland Conversion Rating System	
Farmland Protection Policy Act	
Farmland Protection Program	
Federal Listed Species	
Flood Control Act	
Floodplains1.2, 3.2, 4.3.1	
Forested Wetland4.	3.2, 4.3.3, 5.12, 5.17, 5.18, 5.20, 7.2, 7.3, 7.4
Forests	
Gas Resources	
Geographic Information System (GIS)1.2, 3.2, 5	5.1, 5.2, 5.3, 5.14, 5.15, 5.16, 5.20, 5.22, 5.23
5.24, 7.2, 7.3, 11.3, 11.4	
Goals, Project	
Government Agency Coordination	
Groundwater	
Growth Trends	
Habitat4.2.2, 4.3.2, 4.3.3, 5	5.1, 5.3, 5.12, 5.17, 5.18, 5.20, 5.22, 7.3, 11.4



Hay Production
Hazardous Materials
Headwater Habitat Evaluation Index (HHEI)
Historic Resources
Hospitals/Health Care
Hotline (Toll Free)
Household Characteristics
I-69 Community Planning Program
IDNR Game Bird Habitat Development Program
Impaired Waterbodies
Income and Poverty Level
Indiana Bat1.2, 3.2, 4.3.3, 5.12, 5.17, 5.19, 5.20, 5.21, 5.24, 6.4, 7.2, 7.3, 11.4
Indiana Historic Sites and Structures Inventory (IHSSI)
Indiana Statewide Transportation Plans
Indiana Statewide Travel Demand Model (ISTDM)2.3, 3.1, 5.1, 5.6
Indiana Wetland Rapid Assessment Protocol (INWRAP)5.1, 5.19, 5.20, 5.24, 7.3
Indirect Impacts
Institutional Displacement
Interchanges 1.2, 1.3, 3.1 - 3.5, 4.2.2, 5.2, 5.3, 5.6, 5.7, 5.10, 5.22, 5.24, 6.3, 6.4, 11
Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)1.1.1, 2.2
Invasive Plan Species Assessment Working Group
Irreversible and Irretrievable Resources
Karst
Labor Force Characteristics
Land Use, Current
Land Use, Plans and Zoning
Land Use Impacts
Least Environmentally Damaging Practicable Alternative
Leq(h) Descriptor
Libraries
Low-Income Populations
Managed Lands
Memorandum of Agreement (MOA, Section 106-related)1.2, 4.4.3, 5.13, 5.14, 7.3, 7.4, 8.3
Memorandum of Understanding (MOU, Wetlands)
Methodology for Analysis of Impacts: Tier 1 – Tier 2 Comparison
Migratory Bird Treaty Act
Mineral Resources
Minority Populations
Mitigation Measurers / Commitments
Mitigation Costs
Mobile Emissions
Monroe County Comprehensive Plan
Monoe County Comprehensive Plan
Morgan County Comprehensive Fram
National Highway System (NHS)
1.1, 2.2, 2.5



National I-69 Corridor	
National Ambient Air Quality Standards (NAAQS)	
National Historic Preservation Act (NHPA)	
National Pollutant Discharge Elimination System (NPDES)	
National Register of Historic Places (NRHP)	
National Wetland Inventory (NWI)	
Natural Regions	
Needs Assessment	
Newsletter, Project	, , ,
No-Build Condition	5 5 6 5 9 5 10 5 25 6 3 6 4
Noise Abatement Criteria	
Noise Barriers	
Noise Impacts	
Notable or Outstanding Historic Resources	
Notice of Intent	
	, , , ,
Oil Resources	
Open Water (Lakes, Ponds)	
Parks	
Pedestrian Transect Survey	
Per Capita Income Trends	
Performance Measures	
Permits	
Physiographic Divisions	
Population Trends	
Project Background	
Project Office (Section 5)	2.4, 3.2, 5.3, 5.8, 5.13, 11
Public Involvement	
Public Water Supply	
Purpose and Need	
Qualitative Habitat Evaluation Index (QHEI)	
Quantm	
Railroads	
Recreation Areas	
Residential Relocations	
Residential Cluster	
Right-of-Way	2, 5.14, 5.15, 5.16, 5.17, 5.18,
5.19, 5.20, 5.22, 5.24, 6, 7.3, 11	
Riparian Impacts	
Roadway Damage (Construction)	
Roadway Impacts (Section 5 Study Area)	
Rule 5 Permit	
Safety	5.6, 5.7, 5.10, 5.12, 5.18, 6.2,
6.3, 6.4, 7.2, 7.3	
Schools	
Scoping of Alternatives	2.1, 2.3, 3.1, 3.2, 5.2



Section 5 Study Area (Description)1.3, 3.4, 4.1, 4.2, 4.3, 4.4, 5.2, 5.8, 5.17, 5.19, 5.20
Section 106 (Archaeological)
Section 106 (Historic)
Section 106 Consultation
Section 303(d), Clean Water Act
Section 4(f)
Section 401, Clean Water Act
Section 404, Clean Water Act
Section 6(f) Resources
Section 7 Formal Consultation
Sections of Independent Utility (SIU)
Seismic Risks
Soil Associations/Types4.3, 5.4, 5.18
Soybean Production
State Historic Preservation Officer (SHPO)
State Implementation Plan for Air Quality
State Listed Species
Statewide Mobility Corridors
Stream Impacts
Study Band
Summer Action Area
Superfund
Tax Base
Taxi Increment Financing District
Threatened and Endangered Species
Tier 1 Environmental Impact Statement
5.19, 5.24, 6.2, 6.3, 7.1, 7.2
Tier 1 Goals
Tier 1 Major Mitigation Initiatives
Tier 1 Preferred Alternative 3C
Tier 1 Record of Decision (ROD)1.2, 2.1, 2.2, 2.5, 3.1, 3.2, 3.4, 4.5, 5.20, 5.24, 6.3, 8.1
Tier 1 Re-Evaluation
Tier 2 (General)
Tier 1 and Tier 2 Methodologies (Overview)
Tier 1 and Tier 2 Cost and Impacts Comparison, Section 5
Tier 2 Section 5 Corridor Description 1.2, 1.3, 2, 3.2, 3.3, 4.4.2
Tiering
Toll Funding Option
Tourism
Traffic Analysis Zones (TAZs)
Traffic Congestion
Traffic Demand Model (ISTDM) 2.2, 2.3, 3.1, 5.6, 5.25
Traffic Forecasts
Traffic Impacts
Traffic Noise Model (TNM)



Traffic Safety	
Transportation Equity Act for the 21 st Century (TEA-	
Travel Patterns	
Typical Cross Section	
USDA Wildlife Habitat Incentive Program	
USDA-NRCS Conservation Reserve Program	
USFWS Partners for Fish and Wildlife Program	
Underground Storage Tanks	
User Cost Analysis	5.5
Utilities	4, 5.3, 5.5, 5.17, 5.20, 5.24, 6.3, 7.2, 7.3, 8.2
Visual Impacts1.2	
View from the Road	
View of the Road	
Wabash Lowland Region	
Water Body Modification	
Water Resources	
Water Quality	
5.23, 5.24, 5.26, 6.4, 7.2, 7.3, 8.3, 11.4	······································
Water Quality Certification	4.3. 5.19. 5.23. 5.24
Website, Project	
Wellhead Protection Area	432 519 64 524 114
Wetlands	
5.19, 5.20, 5.22, 5.23, 5.24, 6.2, 6.3, 6.4, 7.2, 7.3, 7.4,	
Wheat Production	
Wild and Scenic Rivers	
Wildlife	
Wildlife Corridors	



(THIS PAGE INTENTIONALLY LEFT BLANK)