

**GUIDANCE FOR:
ENDANGERED, THREATENED AND CANDIDATE SPECIES, DESIGNATED
CRITICAL HABITAT, BALD EAGLE AND MIGRATORY BIRD ASSESSMENTS**

For

USFWS Project Code	Found at the top of the USFWS species list generated through IPAC				
Email used to request IPaC official species list					
County		JP Number		Project Number	Usually found on plans
Road Number		Water Body Name		If impacts any mapped streams/ tributaries to mapped streams	
ROW Date		Let Date		Project Length	
Project General Location		Locate in relation to the closest town (preferrable), intersection or other landmark			
Project Description & Statement From Oracle		This is both the project type and description. For example: Resurface SH-9 from 2.5 miles east of the SH-177 junction, extend east 5 miles			

Prepared for:
Oklahoma Department of Transportation
Environmental Programs Division
200 NE 21st Street
Oklahoma City, OK 73105

Prepared by:

Biologist Name	
Company/Agency Name	
Address	
City, State Zip	

Report Date:	
Field Survey Date	
Field Survey Biologist(s)	

Guidance Date: January 2026

1. PROJECT OVERVIEW

1.1 Federal Nexus

This biological assessment, prepared by the above named Company/Agency for the Oklahoma Department of Transportation (ODOT), addresses the above named project in compliance with Section 7(c) of the Endangered Species Act (ESA) of 1973, as amended. Section 7 of the ESA requires that, through consultation with the U.S. Fish and Wildlife Service (Service), federal actions do not jeopardize the continued existence of any threatened, endangered, or proposed species or result in the destruction or adverse modification of critical habitat. This assessment evaluates the potential effects of the proposed transportation project on species that are federally listed under the ESA. Specific project design elements are identified that avoid or minimize adverse effects of the proposed project on listed species and designated critical habitat.

1.2. Project Description

Choose an item.

Description of the **existing** bridge/roadway facility and reason for proposed project

YOU MUST INCLUDE THE FOLLOWING:

- Where the project is located
- The kind of county road, city road with curb and gutter, divided highway, etc it is
- WHAT the roadway is surfaced with – asphalt, concrete, gravel
- The width of the driving lanes and shoulders and other typicals if, for example, it spans town and country
(e.g. 4-lane divided highway with two 12-ft concrete driving lanes, 4-ft asphalt inside shoulder, 10-ft asphalt outside shoulder, 3-ft of gravel beside both shoulders, and a 50-ft vegetated median.)
- Include if there are any bridges and types within the project footprint.
- Condition of the roadway.

All bridges that will be worked on MUST include for each bridge:

- Roadway and feature crossed
- NBI #
- Type (triple span, 3-cell RCB, etc.)
- Dimensions (from as-built, bridge sheets, or plans, and verified from field observations)
- Description (concrete beams with concrete piers and deck, steel I-beams with concrete piers and concrete deck, concrete slab span with brick pier and asphalt surface, 3 cell RCB below roadway, etc.).
- How many and which piers are within the OHWM
- WHEN it was built
- Condition/deficiency of each bridge

If major work on a culvert is proposed:

- List Station # (if known) to locate/identify it (only use NAD 83 coordinates if no plans with Station #s)
- Same information required information as bridge section above

Additional information required:

- Estimated & projected traffic and the years associated with those (try to use current data, so within a few years)
- Provide any pertinent information you observed in the field about the condition of the structures and roadway – such as the road or bridge being closed, or cattle panels placed on the bridge by a landowner, or severe erosion undercutting the bridge, etc.
- THIS WILL HAVE MORE INFORMATION THAN THE SPECIALIST REQUEST or other documents!

What is the formally identified purpose & need of the project.

Description of proposed improvements

Description of the proposed work is SPECIFIC TO THIS PROJECT and must include:

- Statement of what the proposed work is in general terms (for example, overlay of the driving lanes, widening shoulders, adding guardrails, and replacing culverts as needed). Followed by specifics, to include:
- CONSTRUCTION ACTIVITIES: Any diamond grinding or milling, depth or mill and fill, dowel bar retrofitting, saw cutting at the shoulders to widen them, extending asphalt shoulders for guardrail replacement, etc.
- What the proposed roadway will be surfaced with
- The width of the driving lanes and shoulders and other typicals in the plans
- Alignment of the proposed work, with amount of offset if known.
- Identify any bridges that will be design exceptions, including NBI
- Identify if there are any culverts in the study area and whether they will be replaced or expanded as needed.

All bridges that will be worked on MUST include for each bridge:

- Identify roadway and feature crossed, and existing NBI
- Proposed work to be done to each structure, including whether replacing, rehabilitating, widening, etc.
- Resulting structure details (if replaced or widened):
 - New NBI # if known
 - Type (triple span, 3-cell RCB, etc.)
 - Dimensions (from plans or discussion)
 - Description (concrete beams with concrete piers and deck, steel I-beams with concrete piers and concrete deck, concrete slab span with brick pier and asphalt surface, 3 cell RCB below roadway, etc.).
 - Alignment or offset if replaced or only widened on one side
 - if new piers will be needed and any are within the OHWM
 - if work road will be needed
 - if channel re-alignment or similar work construction to alter or reinforce the channel will occur
 - if shoo-fly will be needed
- If rehabilitating – describe specifically the work that will be done to the deck, substructure, piers, etc. and if work road and shoo-fly will be needed

If major work on a culvert is proposed:

- List Station # (if known) to locate/identify it (only use NAD 83 coordinates if no plans with Station #s)
- Same required information as bridge section above

Additional information required:

- If tree clearing will or will not be likely
- If clearing out along drainages of debris and overgrowth will be needed
- If work within the OHWM will or will not be likely
- If wetlands will be impacted and where
- If blasting will be needed for altered alignment
- Any permanent or temporary rights-of-way needed for the project and, if known, WHY
- If the road will be closed and detour on side roads made available for traffic, remain open and have temporary lane closures, or remain open and construct a shoofly
- Discuss, if known, where and details of shoofly, if over stream if pipes to maintain flow will be used, where cross-over or shoulder widening for phased construction, or detours if road will be closed during construction
- THIS WILL HAVE MORE INFORMATION THAN THE SPECIALIST REQUEST & SHOULD BE DETAILED BASED ON PLANS AVAILABLE!

If any plans available, they must be used in this report.

- Identify if there are any PLANS that were used for these studies
- Identify phase of the plans
- Record date on the plans.
- Plans MUST be submitted along with the report.

If plans are available before submittal, then the REPORT MUST BE UPDATED with project information, STA# for culverts and other information where lat/longs were originally used.

Check if any of the following is expected as part of the proposed action

- Work within OHWM is expected
- Project is OFF-SET alignment or **NEW alignment**
- Project involves **NO OFF EXISTING PAVEMENT** work
- Project requires new ROW (permanent &/or temporary)

1.3. Project Area and Setting

Project Location		Project Footprint		Ecoregion & Game Type	
<u>Section Range & Township</u>	<u>Lat/Long NAD 83</u>	<u>Dimensions</u>	<u>Acreage</u>	<u>Level IV Ecoregion (Woods et al. 2005)</u>	<u>Game Type (Duck and Fletcher 1943)</u>
S_, T_N, R_E	bridge center for bridge & appr. project; start and end	Ft from center of road, including bump-out distances			

	points for longer projects	around streams or other areas of additional ROW			
--	----------------------------	---	--	--	--

Action Area:

- There is only one Action Area for a project.
- **Guidance for each species is at the end of this report.**
- To determine the action area, include areas of habitat that occur within the limits defined within the guidance table at the end of this report for each of your listed species. If there is habitat within that defined area for a species, then it will go into your final Action Area. Then add those together for every species to get your final Action Area.
- For example, for the Whooping Crane, include a 0.25 mile buffer surrounding the Project Footprint if loafing or foraging habitat occurs within the 0.25 mile buffer. If bat habitat is ALSO present within 1 mile (if Indiana bat, NLEB, or TCB listed), then the Action Area is 1 mile (because it encompasses the 0.25 mile buffer). If mussel habitat is ALSO present within 1.6 miles downstream, then the Action Area is 1 mile surrounding the Project Footprint, as well as 1.6 miles downstream

2. FEDERALLY LISTED SPECIES AND DESIGNATED CRITICAL HABITAT

Species	Status	IPaC ¹	Watershed ²	Water Body ³	Records ⁴
		Check if Yes	Check if YES	Check if Yes	Check if Yes
Whooping Crane	E	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Gray Bat	E	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Indiana Bat	E	<input type="checkbox"/>			<input type="checkbox"/>
Northern Long-eared Bat	E	<input type="checkbox"/>			<input type="checkbox"/>
Ozark Big-eared Bat	E	<input type="checkbox"/>			<input type="checkbox"/>
Peppered Chub	E	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Neosho Mucket	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ouachita Rock Pocketbook	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scaleshell Mussel	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Winged Mapleleaf	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Benton County Cave Crayfish	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Harperella	E	<input type="checkbox"/>			<input type="checkbox"/>
American Burying Beetle	T	<input type="checkbox"/>			<input type="checkbox"/>
Eastern Black Rail	T	<input type="checkbox"/>			<input type="checkbox"/>
Lesser Prairie Chicken	T	<input type="checkbox"/>			<input type="checkbox"/>
Piping Plover	T	<input type="checkbox"/>			<input type="checkbox"/>
Red Knot	T	<input type="checkbox"/>			<input type="checkbox"/>
Red-cockaded Woodpecker	T	<input type="checkbox"/>			<input type="checkbox"/>
Arkansas River Shiner	T	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Species	Status	IPaC ¹	Watershed ²	Water Body ³	Records ⁴
		Check if Yes	Check if YES	Check if Yes	Check if Yes
Leopard Darter	T	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neosho Madtom	T	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ozark Cavefish	T	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Rabbitsfoot Mussel	T	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Western Fanshell	T	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mead's Milkweed	T	<input type="checkbox"/>			<input type="checkbox"/>
Missouri Bladderpod	T	<input type="checkbox"/>			<input type="checkbox"/>
American Alligator	SAT	<input type="checkbox"/>			<input type="checkbox"/>
Texas Kangaroo Rat	PE	<input type="checkbox"/>			<input type="checkbox"/>
Tri-colored Bat	PE	<input type="checkbox"/>			<input type="checkbox"/>
Alligator Snapping Turtle	PT	<input type="checkbox"/>			<input type="checkbox"/>
Monarch Butterfly	PT	<input type="checkbox"/>			<input type="checkbox"/>
Western Regal Fritillary	PT	<input type="checkbox"/>			<input type="checkbox"/>

¹Species is on USFWS species list from IPAC

²Action Area is within a watershed associated with occupied water bodies

³Action Area includes an occupied water body

⁴Project site within 5 miles of known records

Final or Proposed Designated Critical Habitat	Status	Action Area includes Designated Critical Habitat (Check <input checked="" type="checkbox"/> if Yes)
Whooping Crane	F	<input type="checkbox"/>
Peppered Chub	F	<input type="checkbox"/>
Arkansas River Shiner	F	<input type="checkbox"/>
Leopard Darter	F	<input type="checkbox"/>
Neosho Mucket	F	<input type="checkbox"/>
Rabbitsfoot	F	<input type="checkbox"/>
Louisiana Pigtoe	P	<input type="checkbox"/>

3. ENVIRONMENTAL BASELINE

3.1. Ecological Processes and Conditions

Soils (Use Soil Map of Oklahoma by Carter and Gregory 2008)

Soil Class	Click here to enter text.
Soil Name	Click here to enter text.
Soil Type	Click here to enter text.

Soil Characteristics	Click here to enter text.
----------------------	---------------------------

Climate (Use Woods et al. 2005)

Precipitation	Mean annual inches	Click here to enter text.
Growing Season	Number of days	Click here to enter text.
Mean Temperatures	Summer min/max	Click here to enter text.
	Winter min/max	Click here to enter text.

River System

List all USGS 7.5 minute Quad mapped Streams within the Project Footprint AND *Action Area*. Provide name of Quad maps, if available.

Land Use and Land Ownership

From Woods et al. 2005	Click here to enter text.
From Field investigation	Click here to enter text.

Terrestrial and Aquatic Community Descriptions (based on field site visit)

Identify community types present within the Project Footprint as an overview.

- There is NOT a single community type for a project (usually)!
- Community types will always include rights-of-way, and may also include fence lines, agricultural fields, improved pasture, range pasture, upland woodland, riparian zone, residential lawn, commercial area, etc.

Describe EACH community type SEPARATELY with the following information:

- vegetation identified
- brief generalized location of that community type within the Project Footprint
- whether a dominant community type within the Project Footprint.
- Community types will always include rights-of-way, and may also include fence lines, agricultural fields, improved pasture, range pasture, upland woodland, riparian zone, residential lawn, commercial area, etc.

Hydrology - This is a generalization of aquatic community types, NOT a description of each stream and wetland feature from the waters and wetlands report.

- Provide a general description of HYDROLOGY across the site and
- Provide general conditions based on rain, drought or other circumstances (such as human or animal impacts) that may have altered hydrology or conditions at the time of field investigations.
- Identify presence of mapped streams and describe as a group, if possible, and include common vegetation if present within banks, common aquatic species observed across the site, stream flow, etc.
- Identify mapped streams by their name or as tributaries to what named stream, NOT by arbitrary field number assigned in the waters and wetlands report.
- Identify if wetlands present and provide general description, common wetland vegetation, invertebrates and other observations from the field.

Identify observed patterns of use or condition, if appropriate (such as highly eroded, cows grazing, fence falling down, compacted from human foot-traffic, etc.)

3.2 Species Habitat Analysis

Pedestrian survey of entire Project Footprint

Survey includes 300-ft buffer around work zone, if in karst area

If not, provide reason: Enter reason, ONLY if project is within a karst area.

SPECIES	HABITAT	(DELETE THOSE SPECIES NOT ON YOUR IPAC LIST)
Whooping Crane	Shallowly-submerged sandbars in large river channels occur within 0.25 miles of the Project Footprint.	<input type="checkbox"/>
	If within the 75% migration corridor, provide the number of acres of emergent wetlands that occur within the Project Footprint.	enter acres.
	Croplands suitable for foraging occur within 0.25 miles of the Project Footprint and are within the 95% migration corridor.	<input type="checkbox"/>
	Project Footprint is within what percentage of the migration corridor?	%
	Critical Habitat in Salt Plains National Wildlife Refuge is within 15 miles of the Project Footprint.	<input type="checkbox"/>
	Hackberry Flat or Foss Reservoir is within 15 miles of the Project Footprint.	<input type="checkbox"/>
Gray Bat	Limestone karst features occur within 0.5 mile of the Project Footprint.	<input type="checkbox"/>
	Riparian forest near streams, rivers and associated wetlands occurs within 0.5 mile of the Project Footprint.	<input type="checkbox"/>
	The Ozark Plateau National Wildlife Refuge is within 1 mile of the Project Footprint.	<input type="checkbox"/>
	ODOT will provide the following:	
	All or part of the Project Footprint is within 1 mile of a 10 mile cave buffer.	<input type="checkbox"/>
	All or part of the Project Footprint is within 1 mile of a 2 mile cave buffer.	<input type="checkbox"/>
	If within a cave buffer, total linear feet of ALL perennial and intermittent streams within the Project Footprint that will be impacted.	enter ft
Indiana Bat	Limestone karsts features occur within 0.5 mile of the Project Footprint.	<input type="checkbox"/>
	Live or dead trees/and or snags with a DBH of ≥ 5 inches occur within the Project Footprint.	<input type="checkbox"/>
	10 trees or less with DBH of ≥ 5 inches	<input type="checkbox"/>
	Riparian forest occurs within 1 mile of the Project Footprint.	<input type="checkbox"/>

SPECIES HABITAT (DELETE THOSE SPECIES NOT ON YOUR IPAC LIST)

	Linear treed features such as fencerows, riparian forests, and other wooded corridors occur within the 1 mile of the Project Footprint . Wooded corridors may be dense or loose aggregates of trees with variable amounts of canopy closure.	<input type="checkbox"/>
	Number of acres of forested/wooded area within the Project Footprint (include shapefiles) . Include forests and woodlots, as well as linear features such as fencerows, riparian forests, and other wooded corridors. Wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit characteristics of suitable roost trees and are within 1000 feet of other forested/wooded habitat.	enter acres. TOTAL
Northern Long-eared Bat	Limestone karsts features occur within 0.5 mile of the Project Footprint .	<input type="checkbox"/>
	Live or dead trees/and or snags with a DBH of ≥ 3 inches occur within the Project Footprint .	<input type="checkbox"/>
	10 trees or less with DBH of ≥ 3 inches	<input type="checkbox"/>
	Barns or sheds occur within the Project Footprint .	<input type="checkbox"/>
	Linear treed features such as fencerows, riparian forests, and other wooded corridors occur within 1 mile of the Project Footprint . Wooded corridors may be dense or loose aggregates of trees with variable amounts of canopy closure.	<input type="checkbox"/>
	Number of acres of forested/wooded area within the Project Footprint (include shapefiles) . Include forests and woodlots, as well as linear features such as fencerows, riparian forests, and other wooded corridors. Wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit characteristics of suitable roost trees and are within 1000 feet of other forested/wooded habitat. All Bat habitat within the Project Footprint must be mapped. If less will be impacted, then that can be discussed and acreage specified in the analysis section.	enter acres.
	Acres of trees within 100 feet from pavement	enter acres.
	Acres of trees between 100- 300 feet from pavement	enter acres.
	Acres of trees greater than 300 feet from pavement	enter acres.
Ozark Big-eared Bat	Limestone karst features occur within 0.5 mile of the Project Footprint .	<input type="checkbox"/>
	Mature oak-hickory forest occurs within 0.5 mile of the Project Footprint .	<input type="checkbox"/>
	Riparian forest near intermittent streams occurs within 0.5 mile of the Project Footprint .	<input type="checkbox"/>

SPECIES	HABITAT (DELETE THOSE SPECIES NOT ON YOUR IPAC LIST)	
Peppered Chub	Sandy-bottomed main channel rivers, designated as occupied water bodies or their direct tributaries, with slow moving shallow water, occur within 0.25 upstream and 6.2 miles downstream of the Project Footprint.	<input type="checkbox"/>
Neosho Mucket Mussel	Designated occupied water bodies, or their direct tributaries, that exhibit moderate flow, clean and stable gravel and rubble substrates, and shallow water shoal and riffles, occur within 330 feet upstream and 1.6 miles downstream of the Project Footprint.	<input type="checkbox"/>
Ouachita Rock Pocketbook Mussel	Pools, backwaters and side channels of designated occupied water bodies, or their direct tributaries, that exhibit little or no current, occur within 330 feet upstream and 1.6 miles downstream of the Project Footprint.	<input type="checkbox"/>
	Large mussel beds containing a diversity of mussel species within occupied water bodies or direct tributaries to occupied water bodies are present within 330 feet upstream and 1.6 miles downstream of the Project Footprint.	<input type="checkbox"/>
Scaleshell Mussel	Stretches of stable channels within designated occupied water bodies, or their direct tributaries, that exhibit riffle areas with assemblages of gravel, cobble, boulder, sand or mud and relatively good water quality, occur within 330 feet upstream and 1.6 miles downstream of the Project Footprint.	<input type="checkbox"/>
Winged Mapleleaf Mussel	Stretches of stable channels within designated occupied water bodies, or their direct tributaries, that exhibit riffles with clean gravel, sand or rubble bottoms, and clear, high quality water occur within 330 feet upstream and 1.6 miles downstream of the Project Footprint.	<input type="checkbox"/>
Harperella	Rocky or gravel shoals and sandbars along sunny margins of clear, swift-flowing streams occur within the Project Footprint.	<input type="checkbox"/>
American Burying Beetle	Number of acres of native perennial plant vegetation (where native perennial vegetation is the dominant vegetation) within the Project Footprint (include shapefiles). All ABB habitat within the Project Footprint must be mapped. If less will be impacted, then that can be discussed and acreage specified in the analysis section.	enter acres.
	Suitable habitat is present adjacent to the Project Footprint.	<input type="checkbox"/>
	The Project Footprint is within or adjacent to conservation lands at McAlester Army Ammunition Plant or Camp Gruber/Cherokee WMA	<input type="checkbox"/>
Lesser Prairie Chicken	Mixed grass and shrubland vegetation communities dominated by sand bluestem, little bluestem and sand dropseed, with sand sagebrush or shinnery oak, are present within the 0.25 miles of the Project Footprint , and within the current range of the species.	<input type="checkbox"/>
	Project is within Modeled habitat (SGP CHAT 3)	<input type="checkbox"/>
	Project is within a Connectivity Zone (SGP CHAT 2)	<input type="checkbox"/>

SPECIES	HABITAT	(DELETE THOSE SPECIES NOT ON YOUR IPAC LIST)
	Project is within a Focal Area (SGP CHAT 1)	<input type="checkbox"/>
	Project is within 3 miles of an Active Lek Buffer. If yes, create map figure showing the project in relation to the lek buffer.	<input type="checkbox"/>
Piping Plover	Sparsely vegetated sandy or gravelly shorelines and islands associated with the major river systems occur within 0.25 miles of the Project Footprint.	<input type="checkbox"/>
	Salt flats or mudflats associated with reservoirs occur within 0.25 miles of the Project Footprint.	<input type="checkbox"/>
Red Knot	Mudflats associated with reservoirs occur within 0.25 miles of the Project Footprint.	<input type="checkbox"/>
Red-cockaded Woodpecker	Old-growth loblolly, shortleaf, slash or longleaf pine forests occur within 0.25 miles of the Project Footprint.	<input type="checkbox"/>
	Park-like stands of pines with little or no understory growth occur within 0.25 miles of the Project Footprint.	<input type="checkbox"/>
	Living pine trees over 60 years old occur within 0.25 miles of the Project Footprint.	<input type="checkbox"/>
	The McCurtain County Wilderness Area or the Pushmataha Wildlife Management Area is within 10 miles of the Project Footprint	<input type="checkbox"/>
Arkansas River Shiner	Sandy-bottomed main channel rivers, designated as occupied water bodies or their direct tributaries, with slow moving shallow water, occur within 0.25 upstream and 6.2 miles downstream of the Project Footprint.	<input type="checkbox"/>
Leopard Darter	Designated occupied water bodies, or their direct tributaries, that exhibit clear water, and large quiet pools with a rubble and boulder substrate, occur within 0.25 upstream and 6.2 miles downstream of the Project Footprint.	<input type="checkbox"/>
Neosho Madtom	Designated occupied water bodies, or their direct tributaries, that exhibit riffles with gravel-sized substrate particles and moderate current, occur within 0.25 upstream and 6.2 miles downstream of the Project Footprint.	<input type="checkbox"/>
Ozark Cavefish	Clear groundwater-fed streams in caves with chert and rubble beds occur within the 0.5 miles of the Project Footprint.	<input type="checkbox"/>
American Alligator	Fresh or brackish marshes, ponds, lakes, rivers, swamps, bayous, canals or large spring runs occur within the Project Footprint.	<input type="checkbox"/>
	The Little River or Little River National Wildlife Refuge is within 0.25 miles of the Project Footprint.	<input type="checkbox"/>
Rabbitsfoot Mussel	Designated occupied water bodies, or their direct tributaries, that exhibit sand and gravel substrates, and moderate to swift current, occur within 330 feet upstream and 1.6 miles downstream of the Project Footprint.	<input type="checkbox"/>

SPECIES	HABITAT (DELETE THOSE SPECIES NOT ON YOUR IPAC LIST)	
Tricolored Bat	Limestone karsts features occur within 0.5 mile of the Project Footprint.	<input type="checkbox"/>
	Live or dead trees/and or snags with a DBH of >= 4 inches occur within the Project Footprint.	<input type="checkbox"/>
	Barns or sheds occur within the Project Footprint.	<input type="checkbox"/>
	Linear treed features such as fencerows, riparian forests, and other wooded corridors occur within 1 mile of the Project Footprint. Wooded corridors may be dense or loose aggregates of trees with variable amounts of canopy closure.	<input type="checkbox"/>
	Number of acres of forested/wooded area within the Project Footprint (include shapefiles). Include forests and woodlots, as well as linear features such as fencerows, riparian forests, and other wooded corridors. Wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. All Bat habitat within the Project Footprint must be mapped. If less will be impacted, then that can be discussed and acreage specified in the analysis section.	enter acres.
	Acres of trees within 100 feet from pavement	enter acres.
	Acres of trees between 100- 300 feet from pavement	enter acres.
Alligator Snapping Turtle	Acres of trees greater than 300 feet from pavement	enter acres.
	Canopy covered, stagnant or slow flowing, deep, freshwater to brackish rivers, tributaries, bayous, canals, swamps, reservoirs, and ponds are present within the Project Footprint.	<input type="checkbox"/>
	Submerged vegetation, snags, logs, boulders, beaver dams or dens, and/or undercut banks present within the Project Footprint.	<input type="checkbox"/>
	Forested riparian areas with sandy soils or dry substrate present outside of the floodplain and within 656 ft of the suitable waterbodies are present within the Project Footprint.	<input type="checkbox"/>
Monarch Butterfly	The Little River or Little River National Wildlife Refuge is within 0.25 miles of the Project Footprint.	<input type="checkbox"/>
	Presence of milkweed (<i>Asclepias sp.</i>) species within the Project Footprint. If yes, create pollinator map showing the location and identifying the milkweed within the study area.	<input type="checkbox"/>
	Presence of flowering or potentially flowering nectar plants (<i>defined as forbs that can provide nectar for monarchs at some point in the growing season</i>) within the Project Footprint.	<input type="checkbox"/>
	Presence of additional native habitat within the Project Footprint.	<input type="checkbox"/>
	Presence of violet (<i>Viola sp.</i>) species within the Project Footprint. If yes, create pollinator map showing the location and identifying the violets within the study area.	<input type="checkbox"/>

SPECIES	HABITAT (DELETE THOSE SPECIES NOT ON YOUR IPAC LIST)	
Western Regal Fritillary	Presence of native grassland habitat within the Project Footprint.	<input type="checkbox"/>
	Presence of additional flowering or potentially flowering nectar plants (defined as forbs that can provide nectar for regal fritillary at some point in the growing season) within the Project Footprint.	<input type="checkbox"/>

3.4 Bridge, Culvert & Structure Bat Assessment Form

A FIELD ASSESSMENT OF STRUCTURES FOR BAT USE AND CHARACTERISTICS SUITABLE FOR BAT ROOSTING IS **REQUIRED** REGARDLESS OF TIME OF YEAR OR WHETHER OR NOT A BAT SPECIES IS CURRENTLY ON YOUR IPAC SPECIES LIST!!

- Since you are looking at structures for migratory birds, then also look for signs of bats
- BOTH THE ASSESSMENT BELOW & THE USFWS REPORT FORM MUST BE ATTACHED.
- Each bridge, culvert and structure will have INDIVIDUAL assessments below, along with individual USFWS inspection forms.
 - Fill out p.2 ONLY of Appendix K Assessment for EACH bridge/culvert/structure below.
 - K-1 is only for those structures that do not have any habitat within 1,000-ft
- **Make sure that characteristics that make the structures suitable for roosting bats, or not, are discussed in the NOTES section.**

Choose an item.

If all bridge, culverts and structures are 1,000 feet or more from suitable bat habitat (e.g. an urban or agricultural area without suitable foraging habitat or corridors linking the bridge, culvert or structure to suitable foraging habitat), check this box and **STOP HERE. Fill out p.1 of Appendix K Assessment.**

BRIDGE INSPECTION: Identify ALL Bridges by NBI # (include RCB bridges)

CULVERT INSPECTION: Identify ALL Culverts ≥ 3 feet in diameter within the Project Footprint

BARN/SHED INSPECTION: Identify ALL structures within the Project Footprint that potentially could be removed

- **LABEL each Bridge, Culvert or Structure by # (ie Bridge #1, Bridge #2, Culvert #1, Structure #1)**
- **Proceed in direction of plans (so from west to east, or south to north)**
- **THE MIGRATORY BIRD TABLE AND THE BRIDGE/CULVERT/STRUCTURE TABLES BELOW MUST CORRESPOND, in Label, use of STA#, etc.**
- **The corresponding USFWS Bat Assessment Form will need to have this label added to the top of the form**

1. **Label:** Enter as Bridge #1, Bridge #2, Culvert #1, Structure #1, etc and label the USFWS form the same in the Notes section.

Road Number /Name		NBI # or STA # or lat/long		Water Body (or road if over road)	
Click here to enter text.		Bridge – use NBI Culverts – use STA # (lat/longs if no plans) Structures – use STA # with feet of offset from road (lat/longs if no plans)		If water body, provide named stream or tributary to what named stream. Also provide FS# from Waters and Wetlands Report, particularly if numerous unnamed streams	
		Multi-span/cell	Material (Beam, Substructure, Deck)	Dimensions (L,W,H,Dia as given):	
Bridge Type:	Choose an item.	<input type="checkbox"/>	Choose an item	Use As Built, Bridge Sheets, or Plans as available	
Culvert Type:	Choose an item.	<input type="checkbox"/>	Choose an item		
Structure Type:	Choose an item.		Choose an item		
Method of Inspection (check all that apply): <input type="checkbox"/> Visual <input type="checkbox"/> Ladder <input type="checkbox"/> Snooper <input type="checkbox"/> Thermal <input type="checkbox"/> Acoustic Survey <input type="checkbox"/> Emergence Survey (30 minutes at dusk and 1 hour after dark)					
Bats Observed <input type="checkbox"/>			Signs of Bat Use <input type="checkbox"/>		
BRIDGE/CULVERT/STRUCTURE COULD NOT BE FULLY INSPECTED <input type="checkbox"/> due to height, traffic, or other conditions limiting access to thoroughly inspect all parts of bridge due to inundation or other conditions limiting access. Explain reasons in the Notes.					
Assessment Notes: Provide Assessment Overview Here! <ul style="list-style-type: none"> Identify where habitat is, and where signs of bats specifically are located. Enter why they could not be fully inspected Enter if could be inspected by ladder, or lift, or use of a snooper is likely. Enter reason if you think it is not suitable habitat. Enter any observations, such as frequent flooding, or other pertinent information. 					

2. **Label:** Enter as Bridge #1, Bridge #2, Culvert #1, Structure #1, etc and label the USFWS form the same in the Notes section.

Road Number /Name		NBI # or STA # or lat/long		Water Body (or road if over road)	
Click here to enter text.		Bridge – use NBI Culverts – use STA # (lat/longs if no plans) Structures – use STA # with feet of offset from road		If water body, provide named stream or tributary to what named stream. <ul style="list-style-type: none"> Provide FS# from Waters and Wetlands Report, particularly if numerous unnamed streams 	
		Multi-span/cell	Material (Beam, Substructure, Deck)	As Built Dimensions (L,W,H,Dia as given):	
Bridge Type:	Choose an item.	<input type="checkbox"/>	Choose an item		
Culvert Type:	Choose an item.	<input type="checkbox"/>	Choose an item		
Structure Type:	Choose an item.		Choose an item		
Method of Inspection (check all that apply): <input type="checkbox"/> Visual <input type="checkbox"/> Ladder <input type="checkbox"/> Snooper <input type="checkbox"/> Thermal <input type="checkbox"/> Acoustic Survey <input type="checkbox"/> Emergence Survey (30 minutes at dusk and 1 hour after dark)					

Bats Observed <input type="checkbox"/>	Signs of Bat Use <input type="checkbox"/>
<p>BRIDGE/CULVERT/STRUCTURE COULD NOT BE FULLY INSPECTED <input type="checkbox"/></p> <p>due to height, traffic, or other conditions limiting access to thoroughly inspect all parts of bridge due to inundation or other conditions limiting access. Explain reasons in the Notes.</p>	
<p>Assessment Notes: Provide Assessment Overview Here!</p> <ul style="list-style-type: none"> • Identify where habitat is, and where signs of bats specifically are located. • Enter why they could not be fully inspected • Enter if could be inspected by ladder, or lift, or use of a snooper is likely. • Enter reason if you think it is not suitable habitat. • Enter any observations, such as frequent flooding, or other pertinent information. 	

4. ANALYSIS OF EFFECTS

4.1 Direct Effects

Species/ Resource	Habitat impacts expected from project activities	<u>Describe habitat, construction activities that will impact that habitat, and impacts to the species, such as deterrence.</u>
<ul style="list-style-type: none"> • Address each endangered species first, threatened next, proposed next, candidates last • THEN any Critical Habitat addressed last 	<p>This is direct impacts, whether temporary or permanent, to habitat.</p> <p>Deterrence alone to a species is not a habitat impact</p>	<p>If any habitat is checked yes for a species identified above in Section 3.2, that species MUST BE ENTERED HERE</p> <p>- If any of that habitat will not be impacted, <u>describe the habitat, where it is, and why the project will not impact it or the species</u></p> <p>- If no habitat is present within the action area, do not enter that species here.</p> <p>Analysis for each SPECIES must include the following:</p> <ul style="list-style-type: none"> • Identify if the project or action area is within a defined watershed or range for each species, or if just the action area is. • Identify if the project or action area contains specially protected reproductive habitat for that species (critical habitat, occupied waterbodies, cave buffers, special conservation areas, etc) • Identify any occurrences of the species within 5 miles (provide ONHI with project footprint to get this information) <p>Habitat</p> <ul style="list-style-type: none"> • Describe all suitable habitat that is present within the project footprint • Specify if any reproductive habitat, in particular, is present • Describe the specific construction activities that will impact the identified habitat types

		<p>Species</p> <ul style="list-style-type: none"> Identify if there is habitat within the area of impacts for each species (<u>see guidance at the end of this report</u>) Describe how species utilizing this habitat could be impacted by construction activities <p>Analysis for Critical Habitat must include:</p> <ul style="list-style-type: none"> Identify what the critical habitat is Identify if there is critical habitat within the Project Footprint Identify how many STREAM MILES between the project and confluence with critical habitat Identify construction activities that could impact that critical habitat Identify how the critical habitat could be altered <p><u>DO NOT DISCUSS AMMs HERE</u> (stormwater BMPs are an AMM, something done to minimize impacts).</p> <p><u>Delineation of habitat must include the complete Project Footprint!!</u></p> <ul style="list-style-type: none"> Analysis of construction activities can define if any portion of that will not be impacted and why Analysis must be based on “worst case scenario” – meaning, all habitat for the complete Project Footprint must be mapped and discussed and included in the species analysis, unless it’s known beyond a shadow of doubt that it won’t be impacted by any future plan changes. <ul style="list-style-type: none"> So, for example your project footprint exceeds the right-of-way by a lot, but you have confirmation that the project will stay within existing right-of-way. Use of TOC/TOS from plans is not a valid reason, since these often change as the design progresses.
<p><u>Additional information to include for specific species listed below:</u></p>		
<p>Gray bat and Ozark big-eared bat</p>	<input type="checkbox"/>	<ul style="list-style-type: none"> Identify if the project footprint is within 1 mile of the Ozark Plateau National Wildlife Refuge Focus on identifying the construction work that will impact riparian habitat

		<ul style="list-style-type: none"> • How that will impact the streams in terms of drinking water and invertebrates that bats forage on • Identify any karst features, and any construction activities that could impact karst system • Identify bridges and culverts as potential day roosting sites and construction impacts to that habitat and to the species itself that could be roosting on the structure • Describe any potential deterrence impacts (like lighting, noise, vibrations. etc)
Tree-roosting bats	<input type="checkbox"/>	<ul style="list-style-type: none"> • Focus on identifying construction work that will remove or trim trees • Specifically identify potential roost trees within the project footprint (specific to each species) and how construction could impact them. • Identify bridges and culverts as potential roosting sites and construction impacts to that habitat and to the species itself that could be roosting on the structure • Describe any potential deterrence impacts (like lighting, noise, vibrations. etc)
Whooping Crane	<input type="checkbox"/>	<ul style="list-style-type: none"> • Identify % of migration corridor the project is located within • Identify it is within watershed to critical habitat • Identify if the project is within 15 miles of Salt Plains National Wildlife Refuge, Hackberry Flats, or Foss Reservoir • Include habitat impacts, as well as deterrence impacts on the species.
Lesser Prairie Chicken	<input type="checkbox"/>	<ul style="list-style-type: none"> • While the listing has been vacated, as long as it is on the species list, an analysis of the species and project impacts are required. • Specifically note if the project is within a Connectivity Zone, Focal Area or within 3 miles of a lek buffer • If within 3 miles of a lek buffer, provide a map showing the project distance to lek buffers
Pollinators	<input type="checkbox"/>	<ul style="list-style-type: none"> • If any violets or milkweed is observed, delineate and provide map of each resource within the Project Footprint
Fish and mussels	<input type="checkbox"/>	<ul style="list-style-type: none"> • Identify whether there is species specific suitable habitat WITHIN the stream in question and describe in detail

		<ul style="list-style-type: none"> • or if the project is within 1.6 miles for mussels or 6.2 miles for fish • Identify in STREAM MILES distance to occupied waterbody and/or critical habitat • Detail construction activities and impacts to your stream IN DETAIL and how that could impact any habitat downstream as well. • Detail how that could impact the species during its lifecycle, particularly if there is habitat within the action area.
Critical Habitat		<ul style="list-style-type: none"> • Identify in STREAM MILES distance to Critical Habitat • ONLY DISCUSS CRITICAL HABITAT IMPACTS, not the stream in question, and not the species

4.2 Indirect Effects

Long-term habitat alterations

Species/ Resource	<u>Identify long-term, permanent changes in habitat</u>
Enter species/ resource from above	<ul style="list-style-type: none"> • All species in section 4.1 must be addressed here • Describe long term impacts (whether indirect or not) • Explain if all impacts are expected to be short term for the duration of the project only • If any species above is a No Effect, enter None here for that species

Indirect land use impacts

Describe if there will be any changes to land use, leading to further impacts to habitats.

4.3 Interrelated and Interdependent Actions and Activities

- If the project involves replacement of existing roadway or bridge structures, with no capacity expansion, and the project will not impact current land use in the area, no interrelated and interdependent actions are expected.
- Any altered alignment or capacity expansion needs to address any activities, like relocation of utilities or increased development, that would not happen BUT for this project.

USFWS Project Code:	
ODOT Project JP Number:	

SPECIES / DESIGNATED CRITICAL HABIT	CONCLUSION		ESA SECTION 7						NOTES AND DOCUMENTATION Check <input checked="" type="checkbox"/> all that apply to the project			
	Species Habitat present within the action area	Project Activities expected to impact habitat	No Effect	May affect, determination based on D-key	May affect, not likely to adversely affect	May affect, Likely to adversely affect	Not likely to jeopardize the continued existence of the species	Likely to jeopardize the continued existence of the species	Field Studies	ONHI data present	USFWS occupied waterbodies & watersheds	Crucial Habitat in Action Area*
Click here to enter species or critical habitat.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Click here to enter species or critical habitat.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Click here to enter species or critical habitat.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
American Burying Beetle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tricolored bat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alligator snapping turtle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Monarch butterfly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SPECIES / DESIGNATED CRITICAL HABIT	CONCLUSION		ESA SECTION 7						NOTES AND DOCUMENTATION Check <input checked="" type="checkbox"/> all that apply to the project			
	Species Habitat present within the action area	Project Activities expected to impact habitat	No Effect	May affect, determination based on D-key	May affect, not likely to adversely affect	May affect, Likely to adversely affect	Not likely to jeopardize the continued existence of the species	Likely to jeopardize the continued existence of the species	Field Studies	ONHI data present	USFWS occupied waterbodies & watersheds	Crucial Habitat in Action Area*
Western regal fritillary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* This is any critical habitat, but also any gray bat buffers; Ozark Plateau WMA; ABB conservation lands like Camp Gruber, etc.; Little River NWA; Salt Plains NWR, Hackberry Flats, or Foss SP; Push WMA or McCurtain WA; leks, etc.

CONCLUSIONS

No Effect	Enter all species and critical habitat for which the project will have “no effect”
May Affect	This is only for species with a D-key from IPAC
May affect, not likely to adversely affect	Enter all species and critical habitat for which the project is “not likely to adversely affect”
May affect, likely to adversely affect	Enter all species and critical habitat for which the project is “likely to adversely affect”
Not likely to jeopardize the continued existence of the species – Proposed & Candidate species only (<u>no conference required</u>)	Enter all proposed and candidate species and critical habitat the project is “not likely to jeopardize the continued existence of the species”
Appropriate Effect Determination for ABB has been made under the BO for the final 4(d) rule (D-key attached)	<input type="checkbox"/>
Appropriate Effect Determination for Indiana bat or NLEB has been made under the range-wide key (D-key attached)	<input type="checkbox"/>
Appropriate Effect Determination has been made under the FHWA Bat Programmatic (D-key attached)	<input type="checkbox"/>

RECOMMENDED AVOIDANCE AND MINIMIZATION MEASURES

ODOT WILL ADD THIS INFORMATION

ODOT, as a Certificate of Inclusion partner in the Nationwide **Monarch Butterfly** CCAA for Energy and Transportation lands, will adhere to the conservation measures, as well as minimize threats to the monarch butterfly as stipulated in this CCAA.

5. BALD AND GOLDEN EAGLE PROTECTION ACT ASESMENT

5.1. Bald Eagle Assessment

The Bald Eagle (*Haliaeetus leucocephalus*) is a large predatory bird protected by the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act. Activities that would disturb eagles are prohibited under the Bald and Golden Eagle Protection Act. “Disturb” means to agitate an eagle to the degree that causes or is likely to (1) cause injury, (2) interfere with breeding, feeding or sheltering behavior, or (3) nest abandonment.

Potential Bald Eagle Habitat Present	w/in Project Footprint	w/in 660 ft Buffer of Project Footprint	DO NOT LEAVE BLANK
Presence of Cottonwood, Sycamore, Pecan or Pine	<input type="checkbox"/>	<input type="checkbox"/>	Describe abundance, location and size in relation to other trees in the area, of any large open-canopied trees
Open foraging areas with large trees	<input type="checkbox"/>	<input type="checkbox"/>	Describe edge habitat near large trees (open water AND open fields)
Distance to closest <u>perennial</u> water bodies	River or Lake	mi or ft	Provide miles to perennial water sources Describe nearest rivers, streams, lakes or any other perennial body of water within 10 miles. <ul style="list-style-type: none"> Be sure and identify closest river or lake for prime habitat
	Stream or Pond	mi or ft	
Potential Bald Eagle Nests Observed	<input type="checkbox"/>	<input type="checkbox"/>	Provide location and description of possible nest observed. <ul style="list-style-type: none"> Provide or estimate GPS location
Bald Eagles Observed in the general vicinity	<input type="checkbox"/>	<input type="checkbox"/>	Describe number of individuals, age, and general location seen in relation to the Project Footprint.
General Description of Bald Eagle Nesting Habitat and Impact Determination, within the Project Footprint and within 660-ft of the Project Footprint	<ul style="list-style-type: none"> Provide overview of WHY there is, or is not, suitable habitat for nesting, specifically How could construction activities directly impact this habitat OR the species 		
Location of Bald Eagle Habitat	Locate NESTING habitat by STA #s, feet from a bridge or named water source, or between identified roads		
In order to avoid impacts to Bald Eagles, if Bald Eagles or their habitat are observed during the biological assessment, a survey for eagles and their nests will be conducted within 660 feet of the Project Footprint, during the winter prior to, and within one year of, the start of construction. If a nest is found, appropriate conservation measures based on the National Bald Eagle Management Guidelines will be implemented.			

6. MIGRATORY BIRD TREATY ACT (MBTA) ASSESSMENT

6.1 Structure Assessment

Cliff Swallows (*Petrochelidon pyrrhonota*) and Barn Swallows (*Hirundo rustica*) are small colonial and semi-colonial nesting birds protected by the federal Migratory Bird Treaty Act. Barn Swallows use man-made structures for nesting and live in close association with humans. Both species commonly use bridges and culverts in Oklahoma for nesting. Other migratory birds can also nest on transportation structures.

<p>Identify <u>ALL</u> structures within the Project Footprint:</p> <ul style="list-style-type: none"> • Only include 2-ft and greater. • LABEL must correspond to Bridge/Culvert Section 3.4 • Type of structure with basic dimensions, for example: <ul style="list-style-type: none"> ○ Triple span bridge ○ 5x10 ft RCB ○ 3x100 ft CGMP • Roadway over what feature. <ul style="list-style-type: none"> ○ Identify named streams where possible. ○ ID if driveway ditch, ephemeral stream, etc. • Location will be NBI for bridges <ul style="list-style-type: none"> ○ STA # for culverts ○ Or NAD83 lat-long if no plans <p>Provide map and shapefiles with the following information:</p> <ul style="list-style-type: none"> • LABEL • NBI if present • Stream name if applicable • If structure is pos/neg/not suitable for migratory birds • If structure has bats or signs of bat use 	<p>Approx. Number of Cliff Swallow Nests</p>	<p>Approx. Number of Barn Swallow Nests</p>	<p>Approx. Number of Eastern Phoebe Nests</p>
<p>Label– Structure Type – Rd – Feature crossed– location</p>			
<p>Label– Structure Type – Rd – Feature crossed– location</p>			
<p>Label– Structure Type – Rd – Feature crossed– location</p>			
<p>Label– Structure Type – Rd – Feature crossed– location</p>			
<p>Other MB and Nests Observed</p>	<ul style="list-style-type: none"> • Describe any other migratory bird use of transportation structures, such as owls, or any nests observed. • Include any observed migratory bird use and nests within trees or barns/sheds within the Project Footprint as broader observation 		
<p>Based on existing plans, no work on suitable drainage structures will occur</p>		<input type="checkbox"/>	
<p>In order to avoid impacts to migratory birds, if structures are being used by these birds, any activities that may destroy active nests, eggs or birds shall be completed between September 1, and February 28, when nests are not occupied. If seasonal avoidance cannot be accomplished, structures shall be protected from new nest establishment prior to March 1, by means that do not result in death or injury to these birds.</p>			

6.2 Birds of Conservation Concern

<p>Choose an item.</p>
<p>Check IPAC project online if the species list did not include BCC for some reason</p> <ul style="list-style-type: none"> • Differentiate impacts between ground nesting and tree nesting species. • Utilize guidance in your species list about when the species is in the area • Use All About Birds to help determine nesting habitat for the listed species • Identify generally where within the Project Footprint NESTING habitat is located • Identify what construction activities would impact that habitat.

In order to avoid impacts to ground nesting and tree nesting USFWS Birds of Conservation Concern, ground disturbance and/or the removal of trees and shrubs will be restricted to areas within the actual limits of construction, and all aspects of the project (e.g. temporary work areas, alignments) will be modified to avoid ground disturbance and/or tree removal, if possible.

6.3 Interior Least Tern

Sparsely vegetated islands or sandbars along large rivers, with nearby areas of shallow water, occur within the 0.25 miles of the Project Footprint.	<input type="checkbox"/>
If habitat identified above, provide overview of nesting habitat within 0.25 mile, assess impacts from construction activities, and provide if any NHI occurrences	
Interior Least Terns are protected under the Migratory Bird Treaty Act. In order to avoid impacts to Interior Least Terns, any activities that may destroy active nests, eggs or birds shall be completed between September 1 and April 30, outside the nesting season. If construction activities will occur during the active nesting season, a 0.25 mile no-work-zone buffer from the Ordinary High Water Mark of the River will be established until the nesting survey can be completed. Any Interior Least Terns nesting in the area must be protected by limiting all work within 0.25 miles of any nesting colonies until after September 1 and be completed by April 30, the following year.	

7. REFERENCES:

**Sources are cited in the documents SO THIS CANNOT BE BLANK
 All sources need to be included.**

8. FIGURES

- **Include the following figures and attachments.**
- **North should always point to the top of the page!**
- **If need multiple pages for each figure, use letters as subset (3a, 3b, 3c...).**
- **Make sure multiple maps for a single figure progress in the order that design plans do!!**
 - south to north or west to east.
 - **For example, Figure 4a would be the southern-most portion of the project, progressing north from there.**
- **MERGE all maps, figures, photos, bridge forms, species list, etc. into a SINGLE PDF**
- **Optimize or COMPRESS pdf attachments before submitting to ODOT, to minimize file size!**

Figure 1. Location: County level map showing the location of the proposed project

Figure 2. Action Area: The Project Footprint and Action Area boundaries illustrated on a current aerial photo

Figure 3. Watersheds: County level map showing any critical habitat, occupied water bodies and watersheds in relation to the proposed project.

Figure 4. Bat Habitat: Mapped areas of bat treed habitat (if applicable) on latest aerial photography

Figure 5. Bat Travel Corridors: Aerial photo with 1 mile buffer around Project Footprint (if any bats on IPAC list)

- no actual mapping of bat travel corridors is needed.
- If the project's action area is also 1 mile, then you can label Figure 2 "Action Area and 1 Mile Bat Travel Corridors"

Figure 6. ABB Habitat: Delineation of suitable ABB habitat (if applicable) & highlight any adjacent ABB Conservation Lands

Figure 7. LEPC Leks: 3 mile buffer of the project footprint if a lek falls within it (if applicable)

Figure 8. Pollinator Habitat: Map and identify all milkweed and/or violet habitat observed within the Project Footprint (if pollinators are listed on your IPAC and those specific species are observed)

Figure 9. Bald Eagle Habitat:

- Delineate suitable nesting habitat within the Project Footprint
- Buffer that habitat by a 660-ft buffer
- GPS, but DO NOT MAP Bald Eagle nests observed

Figure 10. Bridge, Culvert and Structure Locations:

- Include LABEL corresponding to Migratory Bird **AND** Bat Bridge Assessment (ie. Bridge #1, Bridge #2, Culvert #1, Structure #1, etc.),
- Identifying whether each structure is positive or negative for migratory birds (can be in label or color coded with a key)
- Identify each structure positive for signs of bats or bat use
- The GIS attribute table should include LABEL, type, roadway, feature crossed, migratory bird type and # of nests observed, and any bats or signs of bat use observed.

Figure 11. Photo Locations: Label should correspond to the Site Photo Log below

- Include NBI and stream names as reference on the map

Site Photos (provide 4-6 images to a page to minimize file size, including any bridges within the project)

- Every bridge and culvert should be photographed, wetlands, overview of the project, representative pictures of various community types, different habitats observed, etc.
- Photo description should be clear and use labels and other corresponding information found throughout the report so it's clear what that photo is showing and where it is located.

Appendix K. USFWS Bridge/Structure Bat Assessment Forms

- Inserted headers that are equivalent to the LABELS in the report, Section 3.4
- These will need to be individually flattened so that the fields do not overwrite each other when they are put together.

USFWS Official Species List

- **This MUST be CURRENT within 1 month of submittal to ODOT for review!**
- **You are responsible for updating the report to make it current!**

Oklahoma Department of Transportation
County JP

Biological Assessment Report
Project Name & General location
(e.g. Resurface SH-9 E of Norman)

Action Area Guidance Table	
Species	Geographic Area to be Included in the action area for each species
American Alligator & Alligator Snapping Turtle	Project Footprint
Invertebrates	Project Footprint
Plants	Project Footprint
Migratory Birds	Project Footprint and include 0.25 mile area surrounding the Project Footprint if habitat occurs within that area.
Ozark Cavefish	Project Footprint and include 0.5 mile area surrounding the Project Footprint where karst features <u>could</u> occur.
Bats	Project Footprint and include 0.5 mile area surrounding the Project Footprint where karst features <u>could</u> occur.
	For Indiana bat, northern long-eared bat and tricolored bat, include a 1 mile buffer for travel corridors.
Mussels	Project Footprint as well as 330 feet upstream and 1.6 miles downstream of occupied water bodies or direct tributaries of occupied water bodies
Fish	Project Footprint as well as 0.25 upstream and 6.2 miles downstream of occupied water bodies or direct tributaries of occupied water bodies