



OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 02
317 E. POE RD. • BOWLING GREEN, OH 43402 • 419-353-8131

Environmental Document

for

WOO SR 65 5.63/9.38/13.45 Clvrts PID 93680

Environmental Document Level: D1

Approved: 8/9/2023

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The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by ODOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 14, 2020, and executed by FHWA and ODOT.

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Project Type

Please check all of the following actions that apply (Must check at least one):

(13) Actions described in 23 CFR 771.117 (c)(26), (c)(27), and (c)(28) that do not meet the constraints listed in 23 CFR 771.117(e).

(a) Project types that exceed thresholds in Appendix A

(b) Project types that exceed thresholds in Appendix B



General Project Information

Project, Cost Schedule and Work Limits

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PID: 93680
Project Name: WOO SR 65 5.63/9.38/13.45 Clvrts
Project Sponsor: DISTRICT 2 ENGINEERING
ODOT District: 2
Funding Source: Federal
The next phase of the proposed project is listed on the STIP Yes

Ellis STIP Details

Phase	Current STIP Reference
ENV	On Previous STIP
RW	On Previous STIP
CO	93680: 24-27 STIP
DD	

An Interchange Modification/Justification/Operations Study (IMS/IJS/IOS) was completed No
Project Description:



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The Ohio Department of Transportation proposes to repair embankment and replace three culverts along State Route 65 (West River Road) in Washington Township, Middleton Township, and Washington Township, Wood County. The three culverts are located: at SLM 13.45 approximately 750 feet south of the intersection of West River Road (State Route 65) and Roachton Road (County Route 103); at SLM 9.38 the intersection of West River Road (State Route 65) and King Road (County Route 100); and at SLM 5.63 approximately 1,300 feet southwest of the intersection of West River Road (State Route 65) and Otsego Pike (State Route 235).

A total of .39 acres of permanent right-of-way from 8 parcels and .013 acres of temporary right-of-way from 1 parcel will be needed. Relocation of some utilities will also be required for this project. Traffic during construction at all three sites will be detoured. The SLM 5.63 and SLM 9.38 culverts will have a combined detour. Northbound traffic towards these culverts will be rerouted to SR 295 to CR 424 to SR 64 and reverse for southbound traffic. Northbound traffic towards the SLM 13.45 culvert will be rerouted to SR 582 then to SR 25 and reverse for southbound traffic. All access to properties will be maintained throughout construction.

An ecological survey was completed for the project area. One wetland was identified in the project area at culvert location 5.36. one (1) stream was identified at culvert location 13.45, two (2) streams were identified at culvert location 9.38, one (1) wetland and two (2) streams were identified at at culvert location 5.63. Two of the three project areas are located within a regulated floodplain. Appropriate floodplain permitting will be obtained prior the start of construction and the required public notification has been posted on the ODOT website. The project will be designed to meet the requirements of the national Flood insurance Program.

Replacing the historic culvert structure CFN: 1830430 at location 9.38 will adversely affect a structure eligible for listing on the National Register of Historic Places (NRHP). Mitigation was determined through a Cultural Resources MOA which is described in the Cultural Resources section. Section 4(f) Net Benefit Programmatic finding results from the project impacts to the historic resource. Documentation is described in the Section 4(f) section.

Temporary right-of-way impacts to recreational Section 4(f) resource, The Maumee River Water Trail, will result from the project. Coordination and environmental commitments are described in the Section 4(f) section.

No hazardous materials, noise or air quality, Section 6(f), or underserved population impacts will result from this project.

Letters were sent to the adjacent property owners on October 19, 2021, to provide notice of work crews potentially entering their property to collect field data and also provided information on the project and invited questions and comments. No comments were received. An additional notification to property owners was sent on June 2, 2022 to notify property owners that work crews may enter their property to perform ecological survey work. No comments were received. Letters were sent to local stakeholders and property owners/residents within an .5-mile radius to notify them of the project and invited recipients to reach out with any comments and questions about the project. Project materials and exhibits were posted on a project webpage developed on the ODOT District 2 website. Comments were accepted for 30 days. Additional information regarding public involvement and comments received can be found in the subsequent Public Involvement section of this document.

The environmental document and associated studies are being approved using Stage 2 Documents. A copy of the plans is included in the project file.

Construction is expected to begin in July 2024 and last approximately 4 months.

Limits of Proposed Work:	@ SLM 5.63 and @ SLM 9.38
Start (SLM):	5.63
End (SLM):	13.45
Total Work Length (Miles):	3

Roadway Character

Route Number: SR00065

Functional Classification: Major Collector (Rural)

Current Average Daily Traffic: 2566

Current Average Daily Traffic Year: 2024

Design Year Average Daily Traffic: 2666



Design Average Daily Traffic Year: 2044
Daily Hourly Volume: 275
Truck %: 3
Setting: Rural
Topography: Rolling

	Existing:	Proposed:
Design Speed (MPH):	60	60
Legal Speed (MPH):	55	55
Number of Lanes:	2	2
Type of Lanes:	Through	Through
Pavement Width (ft):	23	23
Shoulder Width (ft):	2	2
Median Width (ft):	0	0
Sidewalk Width (ft):	0	0

No bridge data for PIDs associated with this CE Form

Maintenance of Traffic During Construction

A roadway, bridge or ramp closure is required Yes
A temporary bridge or roadway is proposed No
A detour is required for the proposed project Yes
Access for local through traffic will be provided with appropriate signage Yes
Provisions for through-traffic dependent businesses will be incorporated into project design Yes
Provisions to accommodate any local special events or festivals will be incorporated into project design No
The proposed MOT substantially impacts sensitive environmental resources No
Substantial controversy is associated with the proposed MOT No
Coordination has been initiated and/or completed with local emergency services, schools, public institutions/facilities, etc. Yes

Remarks:



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Traffic during construction at all three sites will be detoured. The SLM 5.63 and SLM 9.38 culverts will have a combined detour. Northbound traffic towards these culverts will be rerouted to SR 295 to CR 424 to SR 64 and reverse for southbound traffic. Northbound traffic towards the SLM 13.45 culvert will be rerouted to SR 582 then to SR 25 and reverse for southbound traffic. Maintenance of traffic is shown on the Stage 2 Plans. Coordination with local emergency services, schools, public institutions/facilities, and other project stakeholders was included in the public involvement for the project and initiated on February 17, 2023.

- Stage 2 Plans can be found in the project file under General/Project Information

Are there any Environmental Commitments? No

Right of Way and Utility Involvement

The project requires Permanent Right-of-Way Yes

The project requires Permanent Easement(s) Yes

The project requires Temporary Right-of-Way Yes

Number of parcels impacted by Permanent Right-of-Way: 8

Number of parcels impacted by Temporary Right-of-Way: 1

Approximate acreage of Permanent Right-of-Way needed: .39

Approximate acreage of Temporary Right-of-Way needed: .013

Electrical lines, gas lines, water lines, sewer lines, phone lines or other utilities exist in the project area Yes

Large scale transmission facilities are located within the project area No

Private utility easements are located within the project area No

Coordination with identified utilities has been initiated and/or completed Yes

Remarks:

Utilities located within the project construction limits include:

- Buckeye Cablevision
- First Energy
- Kinder Morgan Pipeline
- Northwestern Water and Sewer District
- Waterville Oil and Gas Company

The project team has initiated coordination with all utilities to request records of the location of underground utilities. A copy of Stage 2 Design Plans were also submitted to the listed utilities.

- Coordination documents can be found in the Project File under General/Right-of-Way and Utility Involvement



Purpose & Need

Purpose & Need

Project History:

SR 65 is a rural major collector that parallels the east side of the Maumee River in Wood County and is designated as part of the Maumee Valley Scenic Byway corridor. The culverts included in this project provide drainage for the area that was historically called the Black Swamp. The culvert at the SR 65 and King Road intersection is believed to have been built sometime between 1870 and 1920, when the majority of open ditch projects in the region were constructed, and is eligible for the National Register of Historic Places. The culvert was constructed using cut stone blocks and is a stone slab top broken back culvert; the term "broken back" refers to a vertical alignment change from nearly flat under SR 65 to following the slope angle down to the river. The construction dates of the two other culverts are unknown but the construction timeframe is assumed based on the history of the area. All three culverts outlet into the Maumee River.

Purpose Statement:

The purpose of the project is to address structural deficiencies and address erosion and bank stabilization concerns at three culverts on SR 65 located at SLM 5.63, 9.38, and 13.45 in Wood County. A secondary need is to protect the historical significance of the culvert at SLM 9.38.

Need Element(s):

Culvert 5.63, CFN 1836412: The Project Initiation Package (PIP) indicates that a reinforced concrete headwall at the outlet end of the culvert has rotated out of position and there is significant washout/erosion between the culvert outlet and the Maumee River. This is evidence of embankment problems and/or slope instability. These failures are likely due to the age of the culvert.

Culvert 9.38, CFN 1830430: The PIP indicates that there is significant erosion/washouts between the culvert outlet and the Maumee River, which is evidence of embankment problems and/or slope instability. A feasibility study performed for this location identified that a sinkhole in the northbound lane of SR 65 was the result of infiltration of soil between the culvert's cut sandstone blocks. These failures are likely due to the age of the culvert. Additionally, a draft Geotechnical Report prepared by TTL in May 2022 identified a vertical crack that extended from top to bottom of the upper stone "beam" at the inlet of the culvert. There is also a tree growing against the culvert headwall at the outlet side.

This culvert was determined to be eligible for listing on the National Register of Historic Places in 2019 related to Section 106 effect determination. As such, alternatives considered for addressing the need elements at this location will consider how to protect the historic significance of the existing culvert.

Culvert 13.45 CFN 1858157: The PIP indicates that the headwalls of this culvert are beginning to rotate, which is evidence of slope instability. Field reviews indicate general overall deterioration of the structure and failures that are likely due to the age of the culvert.

Goals and Objectives:

N/A

Summary Statement:

N/A

Logical Termini and Independent Utility:

The project work will be limited to the roadway approaches and inlet/outlet areas associated with the culvert. The improvements proposed as part of this project are considered a single and complete project and meet independent utility.



Alternatives

Alternatives

Discuss No Build Alternative:

The No Build Alternative includes no work. This alternative would not address the deficient culvert structure. The No Build Alternative does not meet the project's Purpose & Need.

Was a Feasibility Study completed?

Yes

Date Feasibility Study was approved:

06/03/2022

Was an Alternative Evaluation Report (AER) completed?

No

Alternatives Considered

Name	Description	Reason Dismissed	Preferred Alternative
Alt 1 - No Build	No work	Does not meet purpose and need	No
Alt 2 - Bypass/re-routing the project along a different alignment	Project location be bypassed or be rerouted	Substantial reroutes needed, illogical	No
Alt 3 - Rehabilitation	Rehabilitation of the existing structure	Costly, unknown stone conditions	No
Alt 4 - Mothballing for future rehabilitation/reuse	Mothball of existing structure for future rehabilitation	Costly, unknown stone conditions	No
Alt 5 - Removal and replacement	Removal and replacement of existing culvert	N/A	Yes

Discuss Reasons Alternative Identified as Preferred was selected:



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A Feasibility Study for the culvert at location SLM 9.38 was originally submitted by DGL Consulting Engineers in February of 2022. After an ODOT review, it was determined that the alternatives shall be further examined. DGL consulted with David Rinehart (Wallace and Pancher) as well as Dave Kridler, Stone Mason Expert, in May of 2022, to gather feedback on the Feasibility Study. Both agreed the original Study was very well put together and that it highlighted key components of what most likely is going on at this site. Also, Dave Kridler provided additional insight as to the delicate nature of working with old stone masonry and the potential pitfalls. With their knowledge and guidance, this Study was updated in June of 2022.

Alternative #1 No Build does not meet the project purpose and need. Alternative #2 Bypass/re-routing the project along a different alignment was dismissed based on the lack of ODOT maintained roads in the project area and substantial reroute lengths (up to 25 miles). Alternative #3 Rehabilitation (\$1,050,000), Alternative #4 Mothballing (\$903,000) and Alternative #5 Removal and Replacement (\$195,000) meet the stated objectives of the Purpose and Need Statement to be considered for recommendation. However, it is worth noting that Alternatives #3 and #4 have a risk factor associated with them, as they are relying on the unknown condition of stone that is over 100 years old. This could result in much larger project costs and delays once construction begins and there have been cracks observed in the stone already. Based on the estimated cost of each alternative, as well as the age of the existing culvert, Alternative #5 Removal and Replacement (\$195,000) is recommended. This alternative is the least expensive of all the feasible options. Also, Alternative #5 removes the unknown remaining useful life expectancy component of the existing culvert.



Air

Mobile Source Air Toxics (MSATs)

Sensitive Areas are located within approximately 500' of the proposed project area Yes

The proposed project is listed as a C1 in ODOT's CE Guidance and/or falls under 40 CFR 93.126 Yes

Remarks:

This project does not add capacity, a new interchange, or a new road on new alignment. Hence, this project will not result in any meaningful changes in traffic volume, vehicle mix, location of the existing facility, or any other factor that would cause an increase in emissions impacts relative to the no-build alternative. As such, FHWA has determined that this project will generate minimal air quality impacts for Clean Air Act criteria pollutants and has not been linked with any special MSAT concerns. The project is also exempt under 40 CFR 93.126 - Project that will correct, improve, or eliminate a hazardous location or feature, pavement resurfacing and/or rehabilitation, and Transportation Enhancement Activities. Consequently, this effort is exempt from analysis for MSATs.

Particulate Matter 2.5 (PM2.5)

The proposed project is in an air quality non-attainment or maintenance area No

Remarks:

Wood County is in attainment for particulate matter (PM2.5). Because the project is not located in a PM2.5 non-attainment area, analysis for PM2.5 is not required.

Carbon (CO)

The State of Ohio is in attainment for CO at this time and no coordination or analysis is required

Ozone

The proposed project is in an Ozone non-attainment or maintenance area No

The proposed project is listed on the TIP Yes

Remarks:

Wood County is in attainment for Ozone. Because the project is not located in a Ozone non-attainment area, analysis for Ozone is not required.

Greenhouse Gas

A Quantitative Greenhouse Gas (GHG) Analysis is required No

Remarks:



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A quantitative greenhouse gas analysis is not required.

Environmental Commitments

Are there any environmental commitments? No



Noise

Noise

Noise Sensitive Areas located within approximately 500' of the proposed project area	Yes
Noise Analysis conducted	No
The proposed project is a Type I project	No
The proposed project is a Type II project	No

Remarks:

Noise sensitive land uses within 500 feet of the proposed project area consist of residential properties. The project does not qualify as a Type I project for noise (i.e. not adding capacity to thru lanes, not moving thru travel lanes equal to or greater than 50% closer to noise sensitive areas) therefore a noise analysis is not required for the project under 23 CFR 772.

Environmental Commitments

Are there any environmental commitments? No



ESA

ESA

Does the project require any Permanent ROW or Easement?: Yes

ESA Screening Report was completed by District Staff No

Date of ESA Screening IOC from OES: 05/09/2022

Do any sites require a Phase 1 ESA, Phase 2 ESA, or plan note according to the IOC from OES? No

Remarks:

Lawhon & Associates completed a Regulated Materials Review (RMR) Screening on May 6, 2022. The RMR and an Environmental Database Search identified eleven properties within the project study areas. In correspondence dated May 9, 2022, ODOT indicated no further RMR investigations or special material review is warranted for the project.

- The RMR can be found in the project file under ESA/Reports
- ODOT correspondence can be found in the project file under ESA/Coordination

According to the IOC from OES does the project require any Environmental Commitments (plan notes and/or other coordination)? No



Cultural Resources

Cultural Properties Present

Please describe all of the efforts made to identify Historic Properties (including lit review, field investigation, etc.):

A Section 106 Scoping Request form was prepared by Lawhon & Associates on March 7, 2022. The request for review included a review of electronic data from Ohio's State Historic Preservation Office (OSHP) GIS database. The GIS database identifies properties listed on or eligible for the National Register of Historic Places (NRHP), Ohio Historic Inventory (OHI) buildings and structures, Ohio Archaeological Inventory (OAI) sites, as well as properties that have previously received a Determination of Eligibility (DOE). One previously recorded cemetery is located adjacent to the Study Area for Culvert 13.45. The cemetery was active from 1851-1923 and is now closed. There is no information as to whether the burials have been removed, but there is currently a residence on the parcel where SHPO has located the icon in their mapping system. The cemetery has not been evaluated as individually eligible for NRHP inclusion, nor is either a part of an established Historic District.

The culvert (CFN 1830430) at Study Area 9.38 was evaluated as an NR Eligible resource by ODOT's Stone Highway Culvert Inventory Assessment in 2019. The report recommended this culvert as significant under Criterion A in the area of Transportation as a representative of the application of engineering principals to culvert design, during its period of significance identified as 1870-1920. It also recommended significance under Criterion C as a good example of a stone slab-top culvert and especially as a rare example of a bi-level, stone, broken-back culvert, the only all-stone broken-back culvert identified in the 2019 survey. As such it is an extremely rare resource in Ohio with excellent integrity.

Based on the results of the cultural resource reviews, no further cultural resource investigations are warranted.

Is there an eligible or listed NRHP Historic Property in the Area of Potential Effects Pursuant to 36 CFR part 800? Yes

OES Approval/OSHP) Concurrence Date: 07/07/2022

Remarks:

In accordance with 36 CFR 800.5(a) and the Section 106 Programmatic Agreement (*Agreement No. 19319*) executed November 8, 2017 and amended July 11, 2019, ODOT-OES has determined the removal of the stone culvert will adversely affect a structure eligible for the National Register of Historic Places (NRHP): CFN 1830430. The two other culverts at SLM 5.63 and SLM 13.45 are not considered historic and no impacts to historic or archaeological sites are anticipated by the work at those locations. SHPO was notified on June 27, 2022 and provided concurrence on July 7, 2022 per the Transmittal IOC. This concludes the Section 106 process.

Please check all NRHP Eligible and/or Listed resources:

Structure

What is the Section 106 effect determination in the OES Transmittal? Adverse Effect

Does this project have an Adverse Effect on Archaeological resources? No

Does this project have an Adverse Effect on History/Architecture resources? Yes

Archaeological Resource Adverse Effect



History/Architecture Adverse Effect

Date OSHPO Concurred with Adverse Effect determination: 07/07/2022

Date Documentation for Consultation was sent

ACHP: 12/22/2022

OSHPO: 06/27/2022

Is FHWA consultation required? No

Did you contact any other Consulting Parties? Yes

Consulting Parties

Additional Party Name	Documentation Date:
Annette Wells - Wood County Historical Society	11/03/2022
Doug Miller - Ohio Historic Bridge Association	11/03/2022
David Simmons - Ohio Historic Bridge Association	11/03/2022
Nathan Holth - Historic Bridges.org	11/03/2022
Frank Butwin, President - M V Heritage Corridor	11/03/2022
Rick and Luella Smith - Property Owners	03/08/2023

Date of Advisory Council on Historic Preservation response: 01/19/2023

Is Advisory Council on Historic Preservation participating? No

Date MOA was executed: 05/30/2023

Tribal Consultation

Tribal Consultation Summary/Remarks:

The Miami Tribe of Oklahoma, the Delaware Tribe of Oklahoma, and the Shawnee Tribe were notified of the project on June 27, 2022.

The Delaware Tribe of Oklahoma and the Shawnee Tribe did not provide any response within the 30 day comment period.

The Miami Tribe of Oklahoma offers no objection to the project as it is not currently aware of existing documentation directly linking a specific Miami cultural or historic site to the project site. However, as this site is within the aboriginal homelands of the Miami Tribe, if any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) or archaeological evidence is discovered during any phase of this project, the Miami Tribe requests immediate consultation with the entity of jurisdiction for the location of discovery. See the Miami Tribe of Oklahoma correspondence, dated June 29, 2022, with its comments on the project in the Project File/Cultural Resources/Coordination subsection.

Environmental Commitments

Are there any Environmental Commitments? Yes



Ecological

ESR

ESR Name:	ESR Type:	Coordination Complete Date:
WOO-SR65-13.45	Level 1	11/16/2022
WOO-SR65-5.63	Level 1	12/2/2022
WOO-SR65-9.38	Level 1	11/16/2022

Wetlands

ESR Name:	Wetland ID:	Hydrologic connection:	Wetland category:	Estimated total size (ac.):	Total estimated impact area by alternative (ac.):
WOO-SR65-5.63	Wetland A	Adjacent	Category 2	0.233	0.011

Has an Approved and/or Preliminary Jurisdictional Determination been made by the USACE? No

Total impact to all wetlands (ac.): 0.011

Total acres of non-isolated wetlands impacted: 0.011

Total acres of isolated wetlands impacted: 0

In accordance with Executive Order 11990 - USDOT Order 5660.1A, this Wetland Finding has been prepared to document that wetlands have been avoided to the extent possible to minimize the long and short term adverse impacts associated with the destruction or modification of wetlands, and to document that there are no practicable alternatives to avoid construction in wetlands.

An analysis of the 'Do Nothing' alternative indicates that it is not practicable because (check all that apply):

It Would Not Correct Safety Hazards.

It Would Not Correct Existing Condition and Maintenance Problems.

An analysis of improvements that avoid all wetland impacts indicates that they are not practicable because (check all that apply):

They Will Result in Unique Engineering, Traffic, Maintenance, or Safety Problems.

Include justification supporting the decisions noted above:

A Level 1 Ecological Survey Report (ESR) dated July 15, 2022, was prepared by Lawhon & Associates. Based on the results of the ESR, Wetland A (Category 2) was identified within the proposed project area at culvert location SLM 5.63 and is 0.233 acres in size,



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with 0.011 acres within the proposed project area that abuts the Maumee River. Approximately 0.011 acres may be temporarily impacted by construction work near the culvert outlet.

The 'do nothing' alternative would not satisfy the purpose and need of the project as the current structure is deficient and unsafe, therefore keeping the current structure would not address the current condition or the safety needs. The wetland is adjacent to the structure. Avoidance of the wetland locations will be performed to maximum extent practicable, though wetland impacts may be unavoidable.

Mitigation for wetland impacts will be performed per the requirements for the waterway permit.

All practicable measures have been considered and incorporated into the project design to avoid, minimize, wetland impacts. The wetland impact minimization measures that will be followed for the project are documented in the environmental commitments for the project. Wetland mitigation for unavoidable impacts will be provided if required by the Clean Water Act or Ohio isolated wetland law, as regulated by the US Army Corps of Engineers and Ohio EPA regulations (33 CFR parts 325 and 332 and 40 CFR part 230, and OAC 3745-01-54), and (ORC 6111.027). No practicable alternatives exist for the proposed construction in wetlands, and the proposed action includes all practicable measures to minimize harm to the wetlands that may result from such use.

Remarks:

Three (3) individual Level 1 Ecological Survey Reports (ESR) dated July 15, 2022 were prepared by Lawhon & Associates, Inc for each culvert project area location. Based on the results of the investigations, one wetland was identified within the proposed project area for SLM 5.63 and will be impacted by the project (see the table above). Wetland A is a Category 2 wetland The ESR can be found in the project file under Ecological/Reports and the Wetland Finding can be found under Ecological/Project Information.

Streams & Rivers

ESR Name:	Stream Name:	National or Scenic Rivers or NRI Streams:	Ohio EPA Aquatic Life Use Designation:	Antidegradation Designation:	Total Impact Length(ft.):
WOO-SR65-13.45	Stream 3	No	WWH	General High Quality Water	119
WOO-SR65-5.63	Stream 1	No	Small Drainage Warmwater (Class II)	General High Quality Water	125
	Maumee River (5.63)	No	WWH	Outstanding State Water	49
WOO-SR65-9.38	Stream 2 (Downstream Reach)	No	Small Drainage Warmwater (Class II)	General High Quality Water	0
	Maumee River (9.38)	No	WWH	Outstanding State Water	0

Total impact length (ft.) to perennial streams: 168

Total impact length (ft.) to intermittent streams: 363

Total impact length (ft.) to ephemeral streams: 0



Remarks:

Based on the results of the field surveys three (3) streams were identified (see table above). Stream 1 (5.63) - Flows to Maumee River. There will be approximately 125 feet (125' open) of impact to Stream 1 from the proposed culvert and embankment work. Stream 2 (9.38) - Flows to Maumee River. There will be approximately 238 feet (36' open and 202' closed) of impact to Stream 2 from the proposed culvert and embankment work. Stream 3 (13.45) - Flows to Maumee River. There will be approximately 119 feet (60' open and 59' closed) of impact to Stream 2 from the proposed culvert and embankment work. Maumee River - Flows to Lake Erie. There will be approximately 49 feet of impact to Maumee River based on worst case scenario at the time of the ESR preparation. Impacts to the stream will be permitted and mitigated per the requirements of 404/401 Clean Water Act (see the Permitting tab for more information).

Other Surface Waters / Ditches

ESR Name:	Ditch Id:	Total Impact Area(ac.):
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Total impact to all ditches (ac): 0

Other Surface Waters / Other Water Bodies

ESR Name:	Water Body Id:	Hydrologic Connection:	Type:	Designated Function:	Total Impact
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Remarks:

Based on the results of the Level 1 ESR investigations, no other surface waters were identified within and/or adjacent to the proposed project area.

Terrestrial Habitats

ESR Name:	Vegetative Communities and Land Cover found within the project study area:	Degree of man induced ecological disturbance:	Unique, rare, or high quality:	Within Project Study Area(s) (ac.):	Alternative Impacts (ac.):
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WOO-SR65-13.45	Developed Open Space - DS - (Mown Right-of-Way, Large-Lot Single-Family Housing Units, Parks, Golf Courses, and Vegetation Planted in Developed Settings for Recreation, Erosion control, or Aesthetic Purposes)	Extreme Disturbance/Ruderal Community (Dominated by Opportunistic Invaders or Native Highly Tolerant Taxa)	No	0.477	0.157
	Grassland/Herbaceous - GH - (New Fields, Pastures, Hay Fields)	High Disturbance (Dominated by Widespread Taxa Not Typical of a Particular Community)	No	0.049	0.007
	Upland Forest - UF - (Uplands Dominated by Trees)	High Disturbance (Dominated by Widespread Taxa Not Typical of a Particular Community)	No	0.522	0.080
WOO-SR65-5.63	Cultivated Crops - CC - (Annual Crops, All Land Being Actively Tilled, and Perennial Woody Crops Such as Orchards and Vineyards)	Extreme Disturbance/Ruderal Community (Dominated by Opportunistic Invaders or Native Highly Tolerant Taxa)	No	0.043	0.043
	Developed Open Space - DS - (Mown Right-of-Way, Large-Lot Single-Family Housing Units, Parks, Golf Courses, and Vegetation Planted in Developed Settings for Recreation, Erosion control, or Aesthetic Purposes)	Extreme Disturbance/Ruderal Community (Dominated by Opportunistic Invaders or Native Highly Tolerant Taxa)	Yes	0.103	0.103
	Scrub/Shrub - SS - (True Shrubs, and Young Trees in an Early Successional Stage)	High Disturbance (Dominated by Widespread Taxa Not Typical of a Particular Community)	No	0.014	0.014
	Herbaceous Riverine Community - HR - (Submergent, Floating, and/or Emergent Vegetation Along Rivers and Streams)	Intermediate Disturbance (Dominated by Plants that Typify a Stable Phase of a Native Community that Persists Under Some Disturbance)	No	0.011	0.011
	Upland Forest - UF - (Uplands Dominated by Trees)	Intermediate Disturbance (Dominated by Plants that Typify a Stable Phase of a Native Community that Persists Under Some Disturbance)	No	0.130	0.130



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	Floodplain Forest - FF- (Floodplain Dominated by Trees)	Intermediate Disturbance (Dominated by Plants that Typify a Stable Phase of a Native Community that Persists Under Some Disturbance)	No	0.052	0.052
WOO-SR65-9.3 8	Developed Open Space - DS - (Mown Right-of-Way, Large-Lot Single-Family Housing Units, Parks, Golf Courses, and Vegetation Planted in Developed Settings for Recreation, Erosion control, or Aesthetic Purposes)	Extreme Disturbance/Ruderal Community (Dominated by Opportunistic Invaders or Native Highly Tolerant Taxa)	No	0.466	0.125
	Floodplain Forest - FF- (Floodplain Dominated by Trees)	Intermediate Disturbance (Dominated by Plants that Typify a Stable Phase of a Native Community that Persists Under Some Disturbance)	No	0.141	0.070
	Upland Forest - UF - (Uplands Dominated by Trees)	Intermediate Disturbance (Dominated by Plants that Typify a Stable Phase of a Native Community that Persists Under Some Disturbance)	No	0.438	0.236

Remarks:

Based on the results of the Level 1 ESR investigations: Terrestrial habitat within the proposed project area for culvert SLM 13.45 consists of Developed Open Space (mowed right-of-way, single family housing, parks, etc.); Grassland/Herbaceous (new fields, pastures, hay fields); and Upland Forest (uplands dominated by trees). Terrestrial habitat within the proposed project area for culvert SLM 5.63 consists of Cultivated Crops (annual crops, all land being actively tilled, and perennial woody crops such as orchards and vineyards); Scrub/Shrub (true shrubs, young trees in an early succession stage); Herbaceous Riverine Community (submergent, floating, and/or emergent vegetation along rivers and streams); Upland Forest (uplands dominated by trees); and Floodplain Forest dominated by trees; Developed Open Space (mowed right-of-way, single family housing, parks, etc.). Terrestrial habitat within the proposed project area for culvert SLM 9.36 consists of Developed Open Space (mowed right-of-way, single family housing, parks, etc.); Floodplain Forest dominated by trees; Developed Open Space (mowed right-of-way, single family housing, parks, etc.); and Upland Forest (uplands dominated by trees). A total of 1.03 acres of terrestrial habitat will be impacted. No unique or high-quality terrestrial habitats occur within the proposed project area.

Threatened or Endangered Species / Federally Listed Species

Species Common Name:	Species Scientific Name:	Listing Status:
Indiana Bat	Myotis sodalis	Endangered



ESR Name: WOO-SR65-13.45

Effect Determination: May Affect, Not Likely to Adversely Affect

Discussion Including impacts to Suitable Habitat:

There was approximately 0.522 total acre of SWH observed within the project study area. Of the 0.522 acre of SWH within the project study area, approximately 0.495 acre was SWH within 100' from the edge of pavement (100' EOP) and 0.027 acre was SWH beyond 100' EOP and within 50' of a perennial stream. There is approximately 0.083 acre (rounded to 0.08 acre in the table above) of SWH within 100' EOP present within the project construction limits and expected to be impacted as a result of the project. According to the ONHD there are no Indiana bat capture or hibernacula locations within a one-mile radius of the project. According to the USFWS the project is not located within a known Bat Buffer. Copies of these letters are provided in Appendix 5. Representative photos of the SWH observed within the study area are provided in Appendix 2. All tree removal will occur between October 1 and March 31 to protect these species during their summer roosting period.

ESR Name: WOO-SR65-5.63

Effect Determination: May Affect, Not Likely to Adversely Affect

Discussion Including impacts to Suitable Habitat:

There was approximately 0.18 total acre of SWH observed within the project study area. Of the 0.18 acre of SWH within the project study area, approximately 0.11 acre was SWH within 100' from the edge of pavement (100' EOP), approximately 0.02 acre was SWH beyond 100' EOP and not within 50' of a perennial stream, and approximately 0.05 acre was SWH beyond 100' EOP and within 50' of a perennial stream. Due to a lack of available plans and/or construction limits, impacts were generated in a worst-case-scenario evaluation where the entirety of the feature present within the limits of the study area was considered to be impacted. According to the ONHD there are no Indiana bat capture or hibernacula locations within a one-mile radius of the project. According to the USFWS the project is not located within a known Bat Buffer. Copies of these letters are provided in Appendix 5. Representative photos of the SWH observed within the study area are provided in Appendix 2. All tree removal will occur between October 1 and March 31 to protect these species during their summer roosting period.

ESR Name: WOO-SR65-9.38

Effect Determination: May Affect, Not Likely to Adversely Affect

Discussion Including impacts to Suitable Habitat:

There was approximately 0.579 total acre of SWH observed within the project study area. Of the 0.579 acre of SWH within the project study area, approximately 0.349 acre was SWH within 100' from the edge of pavement (100' EOP), approximately 0.089 acre of SWH was beyond 100' EOP and not within 50' of a perennial stream, and approximately 0.141 acre was SWH beyond 100' EOP and within 50' of a perennial stream. There is approximately 0.306 acre (rounded to 0.31 acre in table above) of SWH present within the project construction limits and expected to be impacted as a result of the project. Of the 0.306 acre of SWH within the construction limits approximately 0.181 acre (rounded to 0.18 acre in table above) was SWH within 100' from the edge of pavement (100' EOP), approximately 0.055 acre (rounded to 0.06 acre in table above) of SWH was beyond 100' EOP and not within 50' of a perennial stream, and approximately 0.070 acre was SWH beyond 100' EOP and within 50' of a perennial stream. No PMRTs outside 100 feet from EOP will be impacted. According to the ONHD there are no Indiana bat capture or hibernacula locations within a one-mile radius of the project. According to the USFWS the project is not located within a known Bat Buffer. Copies of these letters are provided in Appendix 5. Representative photos of the SWH observed within the study area are provided in Appendix 2. All tree removal will occur between October 1 and March 31 to protect these species during their summer roosting period.



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Species Common Name:	Species Scientific Name:	Listing Status:
Northern Long-eared Bat	Myotis septentrionalis	Threatened

ESR Name: WOO-SR65-13.45

Effect Determination: May Affect, Not Likely to Adversely Affect

Discussion Including impacts to Suitable Habitat:

There was approximately 0.522 total acre of SWH observed within the project study area. Of the 0.522 acre of SWH within the project study area, approximately 0.495 acre was SWH within 100' from the edge of pavement (100' EOP) and 0.027 acre was SWH beyond 100' EOP and within 50' of a perennial stream. There is approximately 0.083 acre (rounded to 0.08 acre in the table above) of SWH within 100' EOP present within the project construction limits and expected to be impacted as a result of the project. According to the ONHD there are no Indiana bat capture or hibernacula locations within a one-mile radius of the project. According to the USFWS the project is not located within a known Bat Buffer. Copies of these letters are provided in Appendix 5. Representative photos of the SWH observed within the study area are provided in Appendix 2. All tree removal will occur between October 1 and March 31 to protect these species during their summer roosting period.

ESR Name: WOO-SR65-5.63

Effect Determination: May Affect, Not Likely to Adversely Affect

Discussion Including impacts to Suitable Habitat:

There was approximately 0.18 total acre of SWH observed within the project study area. Of the 0.18 acre of SWH within the project study area, approximately 0.11 acre was SWH within 100' from the edge of pavement (100' EOP), approximately 0.02 acre was SWH beyond 100' EOP and not within 50' of a perennial stream, and approximately 0.05 acre was SWH beyond 100' EOP and within 50' of a perennial stream. Due to a lack of available plans and/or construction limits, impacts were generated in a worst-case-scenario evaluation where the entirety of the feature present within the limits of the study area was considered to be impacted. According to the ONHD there are no Indiana bat capture or hibernacula locations within a one-mile radius of the project. According to the USFWS the project is not located within a known Bat Buffer. Copies of these letters are provided in Appendix 5. Representative photos of the SWH observed within the study area are provided in Appendix 2. All tree removal will occur between October 1 and March 31 to protect these species during their summer roosting period.

ESR Name: WOO-SR65-9.38

Effect Determination: May Affect, Not Likely to Adversely Affect

Discussion Including impacts to Suitable Habitat:

There was approximately 0.579 total acre of SWH observed within the project study area. Of the 0.579 acre of SWH within the project study area, approximately 0.349 acre was SWH within 100' from the edge of pavement (100' EOP), approximately 0.089 acre of SWH was beyond 100' EOP and not within 50' of a perennial stream, and approximately 0.141 acre was SWH beyond 100' EOP and within 50' of a perennial stream. There is approximately 0.306 acre (rounded to 0.31 acre in table above) of SWH present within the project construction limits and expected to be impacted as a result of the project. Of the 0.306 acre of SWH within the construction limits approximately 0.181 acre (rounded to 0.18 acre in table above) was SWH within 100' from the edge of pavement (100' EOP), approximately 0.055 acre (rounded to 0.06 acre in table above) of SWH was beyond 100' EOP and not within 50' of a perennial stream, and approximately 0.070 acre was SWH beyond 100' EOP and within 50' of a perennial stream. No PMRTs outside 100 feet from EOP will be impacted. According to the ONHD there are no Indiana bat capture or hibernacula locations within a one-mile radius of the project. According to the USFWS the project is not located within a known Bat Buffer. Copies of these letters are provided in Appendix 5. Representative photos of the SWH observed within the study area are provided in Appendix 2. All tree removal will occur between October 1 and



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March 31 to protect these species during their summer roosting period.

Species Common Name:	Species Scientific Name:	Listing Status:
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Species of Concern

ESR Name: WOO-SR65-13.45

Effect Determination: No Effect

Discussion Including impacts to Suitable Habitat:

The wooded habitat observed west of SR-65 may offer marginal suitable roosting habitat for bald eagles. This area was largely comprised of younger and smaller diameter trees, but there were a few larger and mature trees within the study area, particularly west of SR-65 near the Maumee River, that this species is known to utilize. There were no bald eagles or nest observed at this location during the field survey conducted 7/11/2022; nor was the USFWS reported bald eagle nest visible from the project study area. The trees located within construction limits and expected to be impacted based on the latest scope of the project may provide suitable roosting habitat. Marginal roosting habitat may be impacted by this project.

ESR Name: WOO-SR65-5.63

Effect Determination: No Effect

Discussion Including impacts to Suitable Habitat:

The wooded habitat observed west of SR-65 may offer marginal suitable roosting habitat for bald eagles. This area was largely comprised of younger and smaller diameter trees, but there were a few larger and mature trees within the study area, particularly near to the Maumee River, that this species is known to utilize. One (1) immature bald eagle was observed flying along the Maumee River from the southwest (upstream) to the northeast (downstream) during the field survey conducted 7/11/2022. The bald eagle observed did not stop/utilize any trees within the study area. No nests were observed. The trees located within construction limits and expected to be impacted based on the latest scope of the project are generally smaller and likely do not provide suitable roosting habitat.

ESR Name: WOO-SR65-9.38

Effect Determination: No Effect

Discussion Including impacts to Suitable Habitat:

The wooded habitat observed west of SR-65 may offer marginal suitable roosting habitat for bald eagles. This area was largely comprised of younger and smaller diameter trees, but there were a few larger and mature trees within the study area, particularly near to the Maumee River, that this species is known to utilize. There were no bald eagles or nest observed at this location during the field survey conducted 7/11/2022. The trees located within construction limits and expected to be impacted based on the latest scope of the project may provide suitable roosting habitat. Marginal roosting habitat may be impacted by this project.

Threatened or Endangered Species / State Listed Species:

No state listed species or suitable habitats are impacted by this project location.

ESR Name: WOO-SR65-13.45



Species Common Name: Little Brown Bat

Species Scientific Name: *Myotis lucifugus*

Listing Status: Endangered

The species or its suitable habitat will be impacted by this project: Yes

Effect Determination: Yes

Discussion Including impacts to Suitable Habitat:

There was approximately 0.522 total acre of wooded habitat observed within the project study area. The woodlots surrounding SR-65 contained many trees with exfoliating bark, crevices, and cavities, of sufficient diameter and size, to serve as potential roosting habitat for the little brown bat. There is approximately 0.08 acre of wooded habitat within the project construction limits expected to be impacted as a result of the project. All tree removal will occur between October 1 and March 31 when the species will not be present.

Species Common Name: Tri-colored Bat

Species Scientific Name: *Perimyotis subflavus*

Listing Status: Endangered

The species or its suitable habitat will be impacted by this project: Yes

Effect Determination: Yes

Discussion Including impacts to Suitable Habitat:

There was approximately 0.522 total acre of wooded habitat observed within the project study area. The woodlots surrounding SR-65 contained many trees with exfoliating bark, crevices, and cavities, of sufficient diameter and size, to serve as potential roosting habitat for the tri-colored bat. There is approximately 0.08 acre of wooded habitat within the project construction limits expected to be impacted as a result of the project. All tree removal will occur between October 1 and March 31 when the species will not be present.

Species Common Name: Spotted Turtle

Species Scientific Name: *Clemmys guttata*

Listing Status: Threatened

The species or its suitable habitat will be impacted by this project: Yes

Effect Determination: Yes

Discussion Including impacts to Suitable Habitat:

Stream 3 contained the shallow sluggish waters that this species is known to utilize. Stream 3 is likely to be impacted by the proposed culvert replacement and associated grading construction activities. No turtles were observed within or adjacent to Stream 3 during the QHEI surveying activities conducted 7/11/2022. Given the minor anticipated impacts to Stream 3, medium mobility of the species, and availability of higher or equal quality habitat in the immediate vicinity of the project study area, the project is not likely to impact the species.

Species Common Name: Kirtland's Snake

Species Scientific Name: *Clonophis kirtlandii*

Listing Status: Not Provided - No impact to this species



The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Lark Sparrow

Species Scientific Name: Chondestes grammacus

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Northern Harrier

Species Scientific Name: Circus hudsonius

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Upland Sandpiper

Species Scientific Name: Bartramia longicauda

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Loggerhead Shrike

Species Scientific Name: Lanius ludovicianus

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Common Tern

Species Scientific Name: Sterna hirundo

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact



Species Common Name: Trumpeter Swan

Species Scientific Name: *Cygnus buccinator*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Least Bittern

Species Scientific Name: *Ixobrychus exilis*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

ESR Name: WOO-SR65-5.63

Species Common Name: Little Brown Bat

Species Scientific Name: *Myotis lucifugus*

Listing Status: Endangered

The species or its suitable habitat will be impacted by this project: Yes

Effect Determination: Yes

Discussion Including impacts to Suitable Habitat:

There was approximately 0.18 total acre of wooded habitat observed within the project study area. The woodlot northwest of SR-65 contained many trees with exfoliating bark, crevices, and cavities, of sufficient diameter and size, to serve as potential roosting habitat for the little brown bat. Due to a lack of available plans and/or construction limits, impacts were generated in a worst-case-scenario evaluation where the entirety of the feature present within the limits of the study area was considered to be impacted. All tree removal will occur between October 1 and March 31 when the species would not be present.

Species Common Name: Tri-colored Bat

Species Scientific Name: *Perimyotis subflavus*

Listing Status: Endangered

The species or its suitable habitat will be impacted by this project: Yes

Effect Determination: Yes

Discussion Including impacts to Suitable Habitat:

There was approximately 0.18 total acre of wooded habitat observed within the project study area. The woodlot northwest of SR-65 contained many trees with exfoliating bark, crevices, and cavities, of sufficient diameter and size, to serve as potential roosting habitat for the tri-colored bat. Due to a lack of available plans and/or construction limits, impacts were generated in a worst-case-scenario evaluation where the entirety of the feature



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present within the limits of the study area was considered to be impacted. All tree removal will occur between October 1 and March 31 when the species would not be present.

Species Common Name: Spotted Turtle

Species Scientific Name: *Clemmys guttata*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Kirtland's Snake

Species Scientific Name: *Clonophis kirtlandii*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Lark Sparrow

Species Scientific Name: *Chondestes grammacus*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Northern Harrier

Species Scientific Name: *Circus Cyaneus*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Upland Sandpiper

Species Scientific Name: *Bartramia longicauda*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact



Species Common Name: Loggerhead Shrike

Species Scientific Name: *Lanius ludovicianus*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Common Tern

Species Scientific Name: *Sterna hirundo*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Trumpeter Swan

Species Scientific Name: *Cygnus buccinator*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Least Bittern

Species Scientific Name: *Ixobrychus exilis*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Greater Redhorse

Species Scientific Name: *Moxostoma valenciennesi*

Listing Status: Threatened

The species or its suitable habitat will be impacted by this project: Yes

Effect Determination: Yes

Discussion Including impacts to Suitable Habitat:

The Maumee River provides suitable habitat for this species (one record for this species within the Maumee River approximately 0.4 mile downstream/northeast of the project study area). Due to a lack of available plans and/or construction limits, impacts were generated in a worst-case-scenario evaluation where the entirety of the feature



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present within the limits of the study area was considered to be impacted. Only the southernmost limits of Maumee River along its right descending bank were present along the northwestern boundary of the project study area. This part of the river was less than one foot in depth, contained a high concentration of silt deposition and suspended silt (very poor visibility), did not exhibit strong flows/current, and would likely only provide marginal habitat at best. Given the availability of higher quality habitat in the immediate vicinity of the project study area, minimal anticipated impacts, and mobility of the species, there are no anticipated impacts to this species.

ESR Name: WOO-SR65-9.38

Species Common Name: Little Brown Bat

Species Scientific Name: *Myotis lucifugus*

Listing Status: Endangered

The species or its suitable habitat will be impacted by this project: Yes

Effect Determination: Yes

Discussion Including impacts to Suitable Habitat:

There was approximately 0.579 total acre of wooded habitat observed within the project study area. The woodlot west of SR-65 contained many trees with exfoliating bark, crevices, and cavities, of sufficient diameter and size, to serve as potential roosting habitat for the little brown bat. There is approximately 0.306 acre (rounded to 0.31 acre in table above) of wooded habitat within the project construction limits expected to be impacted as a result of the project. All tree removal will occur between October 1 and March 31 when the species would not be present.

Species Common Name:

Species Scientific Name: *Perimyotis subflavus*

Listing Status: Endangered

The species or its suitable habitat will be impacted by this project: Yes

Effect Determination: Yes

Discussion Including impacts to Suitable Habitat:

There was approximately 0.579 total acre of wooded habitat observed within the project study area. The woodlot west of SR-65 contained many trees with exfoliating bark, crevices, and cavities, of sufficient diameter and size, to serve as potential roosting habitat for the tri-colored bat. There is approximately 0.306 acre (rounded to 0.31 acre in table above) of wooded habitat within the project construction limits expected to be impacted as a result of the project. All tree removal will occur between October 1 and March 31 when the species would not be present.

Species Common Name: Spotted Turtle

Species Scientific Name: *Clemmys guttata*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Kirtland's Snake

Species Scientific Name: *Clonophis kirtlandii*



Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Lark Sparrow

Species Scientific Name: *Chondestes grammacus*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Northern Harrier

Species Scientific Name: *Circus hudsonius*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Upland Sandpiper

Species Scientific Name: *Bartramia longicauda*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Loggerhead Shrike

Species Scientific Name: *Lanius ludovicianus*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Common Tern

Species Scientific Name: *Sterna hirundo*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No



Effect Determination: No Impact

Species Common Name: Trumpeter Swan

Species Scientific Name: *Cygnus buccinator*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Least Bittern

Species Scientific Name: *Ixobrychus exilis*

Listing Status: Not Provided - No impact to this species

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No Impact

Species Common Name: Plains Clubtail

Species Scientific Name: *Gomphus externus*

Listing Status: Endangered

The species or its suitable habitat will be impacted by this project: No

Effect Determination: No

Remarks:

ODOT concluded that the project would have No Effect on the Bald Eagle and the project May Effect but is Not Likely to Adversely Affect the Indiana Bat and Northern Long-eared bat. USFWS concurred with the effect determinations by signature dated 11/16/2022 for project locations 13.45 and 9.38 and on 12/2/2022 for location 5.63. Suitable Wooded Habitat for the Northern Long-eared bat and Indiana bats will be seasonally removed when both species would not be utilizing the roosting habitat. As a result the project is not likely to impact either species of state endangered bat. ODNR concluded that the project is Not Likely to Impact or will have No Impact on state listed species due to limited suitable habitat within the project area, no records within 1 mile of the project area, winter clearing measures, and/or species mobility in correspondence dated 1/9/23. The proposed project may impact state listed species habitat.

Agency Coordination

Project Coordination:

Project locations for which no agencies are listed are considered ecologically exempt or non-notifying.



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The ODNR and USFWS conditions outlined in the Ecological MOA apply to all projects that are not considered ecologically exempt. These conditions have been evaluated for the project locations listed below.

ESR Name:	Agency:	Submitted for Coordination Date:	Coordination Complete Date:	Were project specific comments received?
WOO-SR65-13.45	USFWS	11/1/2022	11/15/2022	No
WOO-SR65-5.63	USFWS	11/18/2022	12/02/2022	No
WOO-SR65-9.38	ODNR	1/4/2023	01/10/2023	No
	USFWS	11/1/2022	11/15/2022	No

Additional Coordination Considerations:

Are other ecological coordination requirements applicable? No

Remarks:

The US Fish and Wildlife Service and Ohio Department of Natural Resources were notified of the proposed project by ODOT-OES on 11/01/22. USFWS provided concurrence on 12/9/22 via the ODOT and USFWS Transportation Infrastructure Project Consultation Summary Form. Findings related to Threatened and Endangered Species are summarized in the section above. ODNR responded on 1/9/23 and concurred the project would Not Likely to Impact or will have No Impact on state listed species. The project may effect state listed species habitat. Findings related to Threatened and Endangered Species are summarized in the section above. The ODNR-DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH greater than or equal to 20 inches, if possible.

Are there any environmental commitments? Yes



Other Resources

Farmlands

The proposed project is located within an Urbanized Area	No
The proposed project is located within a Non-Urbanized Area	Yes
The proposed project involves new permanent right-of-way (ROW)	Yes
The proposed project involves temporary ROW	Yes
The proposed project is a type of action listed below and meets allowable ROW thresholds: Bridge replacement requiring ROW of three (3) acres or less to accommodate bridge piers, wingwalls, and/or approach work Widening requiring linear strip ROW of 10 acres or less per linear mile Intersection improvement requiring ROW of three (3) acres or less	Yes
Undeveloped land being used for construction purposes is protected by a conservation easement	No
Undeveloped land being used for temporary ROW will be returned to equal or greater productive capability upon completion of the proposed project	Yes
Based on the scope and type of work, the proposed project is in compliance with the executed Farmland Memorandum of Understanding (MOU), the FPPA, and 7 CFR 658. Completion of the Farmland Conversion Impact Rating (FCIR) Form is not warranted. No further coordination is required.	

OES Concurrence Date

NRCS Approval Date

Land being used for the proposed project is part of an Agricultural District	No
FCIR Required Completion of the Farmland Conversion Impact Form is required and coordination with USDA & NRCS is required.	

Remarks:

Based upon review of appropriate mapping, the proposed project is located in a non-urbanized area. Based on the scope and type of work, the proposed project meets the terms and conditions of the *Memorandum of Understanding between the Natural Resource Conservation Service and the Ohio Department of Transportation for Projects Involving Farmland (Agreement No. 19552)*, executed on March 15, 2016. Therefore, completion of the Farmland Conversion Impact Rating (FCIR) Form was not warranted and no further coordination is required.

Are there any environmental commitments?	No
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Drinking Water

The proposed project is wholly or partially located within the USEPA designated boundaries of a Sole Source Aquifer	No
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Present:

Impacted:



Approved: 8/9/2023

The proposed project is wholly or partially located within the OEPA designated boundaries of a Source Water Protection Area	Yes	No
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Specify Source Water Protection Area

Wellhead Protection Area: No

Emergency Management Zone: No

Bellevue Castalia Karst Plain: No

Lake Erie: No

Ohio River: No

Other: Yes

Please describe what your selection of 'Other' above refers to.

The OEPA Division of Drinking and Ground Waters mapping tool was used to identify the presence of drinking water resources within the proposed project study area. The map indicates culvert location 5.63 and 9.38 are located within two community drinking water source protection areas. The proposed project areas are not within a designated sole source aquifer. The project areas are located within the following protected drinking water resources areas:

City of Bowling Green - Corridor Management Zone, Community System
City of Bowling Green - Source Water Area Watershed, Community System

Emails were sent on February 11, 2022 and March 15, 2022 to request/confirm the appropriate party for drinking water coordination. A phone call and voicemail message was also left on April 13, 2022. No response was received from previous outreach attempts. A coordination letter was sent on February 24, 2023. No response was received within 30 days of the letter.

See the drinking water documentation in the Project File/Other Resources/Drinking Water subsection.

Coordination with the Local Public Water Administrator is required Yes

Present:		Impacted:
Residential Wells are present	No	

Remarks:

A search of the ODNR Division of Soil and Water Well Logs did not identify any residential drinking water wells within the proposed project area. No impacts to residential drinking water sources are anticipated.

OEPA and ODNR mapping may be found in the Project File under Other Resources/Drinking Water

Are there any environmental commitments? Yes



Section 4(f)

Section 4(f) Determination

Section 4(f) properties are within and/or adjacent to the proposed project area Yes

Concurrence received from the OWJ Yes

Were there multiple OWJs? No

Date concurrence received:

	Present:	Impacted:
Publicly owned Park(s):	No	
Publicly owned recreation facility(ies) and/or area(s):	Yes	Yes
Wildlife and Waterfowl refuge(s):	No	
Historic Site(s):	Yes	Yes

Identified Section 4(f) Properties

Identified 4(f) Properties

Property Name	Type	Permanent ROW/Easement Acres	Temporary ROW/Easement Acres	4(f) finding	Date
Maumee River Water Trail	Publicly owned Recreational Facility and/or Area	0	0	No Use	06/29/2023
Culvert at SLM 9.38	Historic Site	0	0	Historic Bridge	05/30/2023

Remarks:

The Maumee River Water Trail is a recognized Section 4(f) recreational property. Based on coordination with Official with Jurisdiction and in accordance with 23 CFR 774.13(d), ODOT-OES Policy determined on June 29, 2023 that the temporary occupancy of land associated with the Maumee River Water Trail, will not constitute a use upon the project recreational activities, features, or attributes.

The culvert at location SLM 9.38 is eligible for the NRHP and the removal of the culvert will be an adverse effect. Measures to minimize hard have been incorporated into the project and are detailed in the Memorandum of Agreement (MOA) executed May 30, 2023 and as environmental commitments under the Cultural Resources tab.

See the Section 4(f) and 6(f) documentation and coordination in the project file/Section 4(f) and Section 6(f).

Are there any environmental commitments? Yes



Section 6(f)

Section 6(f) Determination

Section 6(f) Determination

Present:		Impacted:
6(f) Properties:	No	

Remarks:

Based on review of the Land and Water Conservation Fund State Grant Listing (<https://lwcf.tplgis.org/mappast/>), no Section 6(f) properties are located within the project area.

- The LWCF Grant Listing for Wood County can be found in the Project File under Section 6(f)/Project Information

Are there any environmental commitments? No



Community Impacts

Community Impacts

Will the proposed action comply with the local/regional development patterns for the area? Yes

Remarks:

The proposed project is consistent with the Wood County Future Land Use Plan (2017). The project is not anticipated to influence development patterns for the area.

Will the proposed action result in substantial negative impacts to community cohesion? No

Remarks:

The proposed project is not expected to result in substantial negative impacts to community cohesion.

Will the proposed action result in indirect or cumulative impacts? No

Remarks:

The proposed project will not result in any foreseeable indirect or cumulative impacts. The project will improve safety.

Will the proposed action result in substantial impacts on health and educational facilities, public utilities, fire, police, emergency services, religious institutions, public transportation, pedestrian and bicycle facilities? No

Remarks:

Short term closures during construction of the project may cause temporary impacts and changes in access. The proposed project will not result in substantial negative impacts on health and educational facilities, public utilities, fire, police, emergency services, religious institutions, public transportation, or pedestrian and bicycle facilities.

Will the proposed action displace residents, businesses, institutions or farms? No

Remarks:

No displacements will be required for the proposed project.

Will the proposed project result in impacts to Underrepresented Populations (Limited English Proficiency, Older Adults, or Adults with Disabilities) raised during Public Involvement? No

Remarks:

No impacts to Underrepresented Populations were raised during public involvement.

Are there any Environmental Commitments? No



Environmental Justice

Environmental Justice

Identified Environmental Justice Populations

Census Block Group #	% Minority	% Low Income
391730212001	7	16
391730213002	6	10

Are Environmental Justice Populations located within and/or adjacent to the proposed project area? Yes

Are there any relocations? No

Will there be changes to access? No

Will the proposed project result in unanticipated additional impacts to any Environmental Justice Populations? No

Were any concerns related to impacts on Environmental Justice Populations or any other unique factors that could result in a disproportionately high and adverse effect raised during public involvement? No

Will the proposed project result in negative health and/or environmental impacts such as noise, air, water, vibration, community character, etc.? No

Will the proposed project result in secondary or cumulative negative impacts? No

Remarks:



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Lawhon & Associates, Inc. reviewed ODOT's TIMS to determine the presence of Environmental Justice Populations in the project area. According to TIMS, Minorities in the project areas range from 5 to 13% and low-income populations range from 12 to 15%.

The proposed project will have no disproportionately high and adverse effects to minority or low-income populations based upon the table above, the attached mapping, and the answers to the questions above. No concerns related to impacts on Environmental Justice populations were raised as a result of public involvement activities conducted as part of the proposed project. Therefore, in accordance with the protections of Executive Order 12898, FHWA Order 6640.23A, no further analysis is required.

Special efforts were made to engage Environmental Justice populations within the project area during public involvement. The project team followed ODOT's guidance on Environmental Justice to prepare documentation required to address the Executive Order on Environmental Justice and similar regulations. Stakeholders that represent low-income and minority populations were engaged to elicit feedback from these groups. Notification and information about the project was posted at locations that serve these affected populations such as libraries, parks, community/senior centers, apartment communities, schools, food pantries, places of worship, grocery stores, and gas stations. Because of the rural context in which the project area is situated, the strategy included areas that persons traveling through the project area may stop at or notice. Flyers and project information was sent to the following locations to advertise the public meeting and project:

- Local High Traffic Areas/Local Businesses (Obe's Country Store, Nazareth Hall)
- Libraries (Weston Public Library and Weston Public Library - Grand Rapids Branch)
- Places of Worship (Haskins Community Church)

Based on the above findings an EJAR is not required.

Census Mapping can be found in the Project File under Underserved Populations/Project Information/Census Mapping.

Are there any Environmental Commitments? No



Public Involvement

Public Involvement

Please provide a summary of the Public Involvement activities that have been conducted for this project. (For example press releases, letters to affected property owners and residents, meetings, special purpose meetings, newspaper articles, etc)

A Public Engagement Plan for the project was approved in January 2023.

Letters were sent to adjacent property owners and residents on October 19, 2021 and on June 2, 2022 to provide background information about the proposed project and to inform property owners and residents that staff may be entering their property to collect data in advance of any environmental field work.

Additional letters were mailed to property owners, residents, and stakeholders in and around the project area on February 17, 2023. Emails were sent to stakeholders that had addresses available. Letters were also sent to nearby high traffic areas, churches, libraries, and businesses that included flyers to be posted by the business for additional advertisement to the surrounding area. The letters provided information on the project including a project description, summary of the purpose and need for the project, the construction schedule, maintenance of traffic, and provided an invitation to view additional materials online and submit comments before March 21, 2023. The letters included a link to the project website

(<https://www.transportation.ohio.gov/projects/projects/93680>) where materials could be accessed, project information and exhibits could be viewed, and comments could be submitted. A handout and comment form were also included in the mailing to provide additional project details and an opportunity to comment via mail. A press release and ODOT web posting also notified the public of the project, project details, and meeting. The Sentinel Tribune also published an article about the project and comment period on February 21, 2023. A 30-day comment period began on February 17, 2023 and closed March 21, 2023.

All public involvement materials can be found in the Project File under Public Involvement/Project Information.

Is there any substantial environmental controversy on environmental grounds?

No

Please summarize the Public Involvement responses received.

Seven (7) comments were received during the comment period. Three (3) comments were received via written letter, two (2) comments were received via phone call, and two (2) comments were received via email. Comments received included questions regarding property impacts, drainage during construction, impacts to the historic culvert, right-of-way acquisition, and a request for documentation of all public comments was also received.

ODOT responded to comments on a rolling basis as they were received during the 30-day comment period. All comments and responses are documented in the project file.

Are there any Environmental Commitments? No



Permits

Waterway Permits

Are Waterway Permits required? Yes

Is the Waterway Permits Determination Complete? No

Army Corps of Engineers

Regional General Permit (RGP):

Nationwide Permit (NWP):

Section 404 Individual Permit:

Section 10 Permit:

Ohio EPA

Section 401 Water Quality Certification:

Level 1 General Isolated Wetland Permit:

Level 2 Individual Isolated Wetland Permit:

Level 3 individual Isolated Wetland Permit:

US Coast Guard

Section 9 Coordination:

Section 9 Bridge Permit:

ODNR

Shore Structure Permit : No

Remarks:

A permit determination is pending for the project.
ODOT District 2 will obtain any required waterway permits and mitigation prior to construction.

Are there any environmental commitments? Yes

Storm Water Permits

NPDES Construction General Permit for Stormwater (NOI): No

Watershed Specific NPDES Construction General Permit for Stormwater (NOI): No

Remarks:



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Construction of this project will likely require a total disturbance of less than 1 acres of land surface. Because the proposed improvements will not result in greater than 1 acre of earth-disturbing construction activities, a Notice of Intent (NOI) is not needed.

Are there any environmental commitments? No

Floodplains

The proposed project involves encroachment within a Special Flood Hazard Area (SFHA) Yes

EO 11988/NFIP Coordination and Documentation Completed Yes

NFIP Local Floodplain Coordinator Notification Date 06/15/2023

Remarks:

Based on review of the FEMA Flood Insurance Rate Map (FIRM) Community Panels 39173C0108D, 39173C0150D, and 39173C0015D by Lawhon & Associates, Inc. on June 3, 2022, project locations SLM 5.63 and SLM 9.38 are located within a regulated floodplain. The floodplain map and coordination can be found in the project file under the Permits/Floodplain subsection.

Are there any environmental commitments? No

Landfills

Is a 2713 Permit required? No

Remarks:

Based upon regulated materials studies conducted by Lawhon & Associates, Inc. there are no landfills located within the project area. No permit is required.

Are there any environmental commitments? No



Environmental Commitments

Cultural Resources

- 1) An interpretive plaque or display of the CULVERT will be installed within the vicinity of the new culvert and will include historic background and significance of the CULVERT. The SHPO and the Consulting Parties will be provided 30 days to review and comment on the design and text prior to final design. The interpretive plaque or display will be included as a plan note in the final design file and tracked as an environmental commitment by ODOT.
- 2) A plan note to salvage stones and store stones from the CULVERT shall be included in the final design. Stones can be reused on site as aesthetic veneer to the new culvert and other landscape features along the Maumee Valley Scenic Byway. The SHPO and the Consulting Parties will be provided 30 days to review and comment on the salvage plan prior to final design. The salvage plan will be included as a plan note in the final design file and tracked as an environmental commitment by ODOT.
- 3) The SHPO and Consulting Parties will be provided 30 days to review and comment on the proposed aesthetic treatments such as recycled stone veneer headwalls or simulated stone formliners on the new culvert. The aesthetic treatments will be included as a plan note in the final design file and tracked as an environmental commitment by ODOT.
- 4) Prior to demolition, complete sections of the interior and multiple exterior photographs of the CULVERT will be taken for ODOT's Stone Culvert Inventory files and SHPO's Ohio Historic Inventory files. The SHPO and the Consulting Parties will be provided 30 days to review and comment on the photographic documentation prior to demolition.

Ecological

- 1) Ensure impacts to the federally listed and protected Indiana bat and northern long-eared bat are avoided and minimized. Do not remove trees from April 1 through September 30. Perform all necessary tree removal from October 1 through March 31. Demarcate clearing limits in the field to avoid any unauthorized tree clearing. For the purposes of this note, a tree is defined as a live, dying, or dead woody plant, with a trunk three inches or greater in diameter at a height of 4.5 feet above the ground surface, and with a minimum height of 13 feet.
- 2) ODOT will ensure a State permitted malacologist must complete a mussel salvage and relocation in accordance with the most recent version of the Ohio Mussel Survey Protocol prior to the initiation of construction activities below the ordinary high water mark of the Maumee River at SLM 9.38. The District Environmental Coordinator will coordinate the results of the mussel survey, salvage work, or both with ODNR. The Department will ensure the mussel survey and relocation occurs, and approval has been received from ODNR, prior to the Contractor performing work below ordinary high water mark the Maumee River.
- 3) ODOT will obtain all appropriate waterway permits prior to any work within the jurisdictional boundary of any waterway, including wetlands, and all Waterway Permit Special Provisions will be noted under Special Provisions in the plans and adhered to during construction.
- 4) ODOT will work with ODNR to address additional comments for the culvert at SLM 9.38 and receive approval per ORC 1547.82 prior to project implementation.
- 5) Do not discharge toxic or hazardous materials such as sealants, paint, solvents, cleaning agents, earthen materials, waste-water, fuels or debris of any kind to a scenic river, its tributaries, or drainage ways. If refueling of immobile equipment is necessary within the floodplain or near any tributary drainage ways, ditches, or stream, provide secondary containment with enough capacity to completely contain and collect all potential liquid wastes in the event of a spill.



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- 6) Dispose of all construction debris, earthen debris, excess asphalt or concrete, wood debris from clearing, excess fill material, and trash at an approved upland site or land fill above FEMA 100-year flood elevations and not within 1000 feet of the Maumee River.
- 7) Report spills equal to or exceeding the reportable quantities prescribed in OAC Chapter 3750-25, in accordance with ORC 3750.06, to the local fire department (911), the local emergency coordinator [Number], and the Ohio Spill Line (1-800-282-9378).
- 8) KEEP ALL IDLE EQUIPMENT AND ANY STORAGE FOR/OF, FUELS, LUBRICANTS, POTENTIALLY TOXIC OR HAZARDOUS MATERIALS BEYOND 1000 FEET OF THE MAUMEE RIVER. THE ONLY EXCEPTIONS WILL BE FOR LARGE STATIONARY CRANES, DRILL RIGS, AND OTHER LARGE CONSTRUCTION EQUIPMENT WITH LIMITED MOBILITY. IDLE EQUIPMENT IS DEFINED AS CONSTRUCTION EQUIPMENT THAT WILL NOT BE IN USE FOR THE FOLLOWING TWO CALENDAR DAYS. NOTIFY THE ENGINEER OF WEATHER OR RIVER CONDITIONS THAT MAY IMPACT THE WORK SITE AND PROVIDE A PLAN FOR IMMEDIATE MOVEMENT OF ALL EQUIPMENT 1000 FEET OR MORE FROM THE RIVER.
- 9) The Contractor shall notify the Scenic River Program Manager, Bob Gable, of the project start date 14 days prior to the commencement of work. Mr. Gable may be contacted at Robert.gable@dnr.ohio.gov or (O) (614) 265-6814 or (M) (614) 204-7862.
- 10) When cutting and clearing of any vegetation within 1000 feet of the Maumee River, limit the amount of vegetation being cleared to the absolute minimum necessary to accomplish the goal of the project. Vertical pruning of trees is permitted if any overhanging limbs cause a safety hazard or obstruct view. Do not use a flail mower for vertical pruning. Avoid girdling or scuffing tree trunks.
- 11) Disturb the minimum amount of river bank vegetation to perform work. Re-vegetate disturbed stream banks, return stream banks to previously existing contours and elevations, and replace all trees removed to perform the work with native tree species where physically practicable. Plant native tree species as specified in the plans at a density of 400 trees per acre with a spacing of approximately 10 feet on center. Seeding, mulching, or both must occur immediately following project completion.
- 12) The Contractor shall develop and implement a sediment and erosion control plan before earthwork commences. The plan shall include a list of applicable BMPs, per SS 832 that will be used throughout the project, such as perimeter controls and/or seeding and mulching, and must be submitted to the Project Engineer for review and acceptance. Sediment and erosion controls shall be properly installed and maintained throughout the duration of the project. Straw bales shall not be permitted as a form of sediment control. All temporary sediment and erosion controls shall be removed upon stabilization of the project area. Particular attention shall be given to any drainage ways, unprotected slopes, ditches, and streams that could convey sediment laden waters directly to the Maumee River.

Other Resources - Drinking Water

- 1) The project designer shall incorporate the following note into the plans: The Drinking Water Source Protection Areas Inland Surface Water Corridor Management Zone of the City of Bowling Green Community Water System (CWS) and Inland Surface Water Source Water Area Watershed of the City of Bowling Green Community Water System (CWS) are located within the project from Station 296+67.86 to Station 297+94.94 and from Station 493+23.04 to 499+18.88. Use proper containment and diking in refueling areas established from the project. Do not store fuels, toxic/hazardous materials, and chemicals near drainage ways, ditches, or streams. Maintain a spill kit on-site throughout construction activities. Immediately mitigate any event, such as a spill of fuels, oils or chemicals, that could threaten to contaminate the drinking water supply. Report all spills or events to the City of Bowling Green Water Distribution and Wastewater Collection Division at 419-354-6277 or the division's emergency phone number at 419-352-1131. If the spill is a reportable amount (per EPA Release Reporting Requirements), contact the Wood County Emergency Management Agency at 419-354-9269 or the Ohio EPA Spills Hotline at 800-282-9378 for clean up of the spill.

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- 1) Canoe traffic shall be maintained throughout construction of the project either through existing river channel or through portage trail approved by the Engineer
- 2) A plan note alerting the Contractor for the possible presence of boating traffic and requiring the Contractor to be alert to boaters and accommodate safe travel through the project area will be included in the plans.
- 3) Adequate signage both upstream and downstream shall be installed and maintained by the Contractor, if necessary, based on project activities. The following type of signs are considered to be minimum treatment:
 - o Approximately one-quarter mile upstream, advanced warning-type signs on both banks;
 - o Approximately 300 feet upstream, signs specifying actions required of canoeist on both banks;
 - o Approximately one-quarter mile downstream, advance warning-type signs on both banks;
 - o Approximately 300 feet downstream, signs specifying actions required of canoeist of both banks.

Permits - Waterway Permits

- 1) ODOT will obtain all appropriate waterway permits prior to any work within the jurisdictional boundary of any waterway, including wetlands, and all Waterway Permit Special Provisions will be noted under Special Provisions in the plans and adhered to during construction.



Preparers and Approvals

Form Preparer:

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Approvals & Electronic Signatures

Approved & Electronically Signed By:	Approval Date:
Phoenix Golnick (PROGRAM ADMIN 3)	8/9/2023



Appendix

General

Aerial Map.pdf
Correspondence Related to Utility Coordination.pdf
County Map.pdf
USGS Quadrangle Topographical Map.pdf

Purpose and Need

District Acceptance - Purpose and Need.pdf

ESA

District Recommendations- Screening.pdf

Cultural Resources

ACHP Response.pdf
ACHP e106 Notification.pdf
Records Check.pdf
SHPO Comments
Stone Culvert Inventory Report.pdf
Transmittal 1 - Effect Determination
Tribal Consultation

Ecological

ODNR Comments
ODNR Scenic River MOA Conditions
USFWS Concurrence
USFWS/ODNR Ecological MOA Conditions

Other Resources

Census Bureau Urbanized Area Map.pdf
Community Water System Coordination.pdf
Water Source Protection Area Map.pdf
Well Log Data.pdf

Section 4(f)

ODNR Boater Access Amenities Map.pdf



OES Recreational 4(f) Determination.pdf

Programmatic Section 4(f).pdf

Environmental Justice

Census Mapping.pdf

Public Involvement

District Approval - Public Involvement Plan.pdf

News Article - Sentinel Tribune.pdf

Property Owner Notification Letter - Mailing List.pdf

Property Owner Notification Letter.pdf

Public Comments Received and Responses.pdf

Public Involvement Plan.pdf

Right-of-Entry Letter - Mailing List.pdf

Right-of-Entry Letter.pdf

Virtual Open House - Exhibits.pdf

Virtual Open House - Flyer.pdf

Virtual Open House - Handout.pdf

Virtual Open House Notification Email and Email List.pdf

Virtual Open House Notification Flyer Letter and List.pdf

Virtual Open House Notification Letter and List - Resend.pdf

Virtual Open House Notification Letter and Mailing List.pdf

Permits

FEMA FIRM.pdf

Floodplain Impacts.pdf

Statement of Findings.pdf