

Appendix H – Red Flag Summary

The Red Flag Summary is a snapshot of potential issues that will be studied and evaluated later in the project development process to determine their magnitude of impact. The Red Flag Summary allows locations and descriptions of potential issues to be presented to someone unfamiliar with the project. It is to be a simple, brief, informative resource for a project.

Red Flag Summary activities are required for all projects. A written Red Flag Summary is required for Major and Minor Projects and is strongly suggested for Minimal Projects. Design and environmental red flags must be combined and submitted as a single document. The format of this document is optional. It is recommended that District staff prepare Red Flag Summaries for all Minor and Minimal Projects. Major Project Red Flag Summaries may be developed by District or consultant staff.

The Red Flag Summary provided in this appendix is intended to be a guide as to what items and issues should be considered when evaluating a project for red flags. The level of detail and personnel involved in completing the red flag summary should be commensurate to the project's complexity. A minimum of one site visit by qualified personnel is mandatory. Actual field studies (i.e. soil borings, sampling for archaeological items, etc.) exceed the level of detail expected for a typical Red Flag Summary.

A list of ODOT disciplines/specialty areas and External Agencies whose expertise may be needed to evaluate conditions during the site visit is provided below:

ODOT Disciplines/Specialty Areas	External Agencies
<ul style="list-style-type: none"> • District Project Manager • Geometrics • Hydraulics • Pavements • Geotechnical • General Roadway • Structures • Traffic Control • Signals • Maintenance of Traffic • Right of Way/Real Estate • Utilities • Survey • Environmental • Highway Management • Central Office Program Manager • ODOT County Manager • District Production Administrator • District Planning and Programming Administrator 	<ul style="list-style-type: none"> • Federal Highway Administration • County Engineer • City Engineer • Local Public Agency • Federal Emergency Management Agency • U.S. Army Corps of Engineers • U.S. Coast Guard • U.S. Fish and Wildlife • Ohio Department of Natural Resources • Ohio Environmental Protection Agency • Railroad/Railway Company • State Historic Preservation Office • Metropolitan Planning Organization • Utility Companies • Soil and Water Conservation Districts

The comments column in the Red Flag Summary should be completed for items impacting the project scope. In particular, the locations of items of concern should be identified.

Appendix H – Red Flag Summary

The following is a list of resources that may be used to assist in completion of the Red Flag Summary.

Resources	
<ul style="list-style-type: none"> • Original Construction Plans • Existing Right of Way Plans • Aerial Mapping • Federal Emergency Management Agency Flood Plain Study Mapping • United States Geological Survey Topographic Mapping • Natural Resources Conservation Services Mapping • Tax Maps • County Maps • Property Deeds • Bridge Inspection Reports • Bridge Load Ratings • Recorded Vertical Clearances for Overpasses and Underpasses • Soil Borings on File with the Office of Geotechnical Engineering and ODNR – Division of Geological Survey • Historic Geologic Reports • Pavement Cores • Dynaflect Testing • Maintenance History • Pavement Condition Ratings (PCR's) • Traffic Studies, Highway Safety Program (HSP) Studies • Accident History/Accident Reports • Permitted Lane Closure Map • Property Owner Contacts • National Register of Historic Places • BUSTR Reports for Underground Storage Tanks • National Recovery Center Spill Records 	<ul style="list-style-type: none"> • Ohio Historic Inventory Ohio Archaeological Inventory • Determination of Eligibility files and Areas Previously Surveyed files at the Ohio State Historic Preservation Office • Natural Heritage Database USGS Water Resources Data for Ohio • Local MPO Demographic and Census Data Mapping • Ohio Environmental Protection Agency Water Quality Report • Ohio Environmental Protection Agency Water Quality Standards for Ohio • Ohio Environmental Protection Agency Water Supply Mapping • 303(d) TMDL Priority List • United States Fish and Wildlife Service Wetland Maps • Ohio Historic Preservation Office GIS Maps • Ohio Environmental Protection Agency Enviromapper • ODNR – Division of Geological Survey Maps (Bedrock Geologic, Bedrock Topography, Bedrock Structure, Karst, Landslide, etc.) • ODNR - Division of Mineral Resource Management (Abandoned Mine Land sites) • ODNR – Division of Soil and Water <ul style="list-style-type: none"> ○ Water well logs ○ Soil Surveys ○ Ohio Wetland Inventory Mapping ○ National Wetland Inventory Mapping

Red Flag Summary

Purpose

The purpose of this Red Flag Summary is to identify concerns that could cause revisions to the following:

- Anticipated environmental, design and construction scope of work
- Proposed project development schedule
- Estimated project budget
- Potential impacts of the project on the surrounding area

Instructions

- A written Red Flag Summary is required for both major and minor projects. A written Red Flag Summary is optional for minimal projects; though red flag issues must still be identified.
- A field review is required for all projects. Each specialty area of the Red Flag Summary should be completed by individuals who possess sufficient experience to enable them to correctly identify and evaluate issues arising from the field review.
- In the Location/Comments field provide information concerning potential impacts that is brief, but gives enough detail to allow an understanding of the issue(s).
- The scope of services document should account for any issues identified in the Red Flag Summary that have the potential to affect scope, schedule, and budget.
- A list of resources that may need to be consulted in order to complete this form can be found in the introduction to Appendix H of the Project Development Process Manual.

Red Flag Summary Deliverables

Provide an expanded Study Area Map identifying project design and environmental constraints identified through the Red Flag Summary. Tables, photographs or other support material may also be submitted with the Red Flag Summary to illustrate specific problem areas. **(This information is mandatory for Major Projects.)**

General

Project Name (County, Route, Section):	PID:
Date Red Flag Summary Completed:	Prepared By:
City, Township or Village Name(s):	ODOT Project Manager:

GENERAL PROJECT PLANNING INFORMATION:

Project Description:

Project Limits/General Location:

Red Flag Summary

ODOT DISCIPLINE INVOLVEMENT:		
<i>List name and phone number of individual(s) representing each discipline during the site visit and preparation of the Red Flag Summary. One individual may represent multiple disciplines.</i>		
DISCIPLINE	NAME	PHONE NUMBER
ODOT County Manager**		
District Production Administrator**		
District Planning and Programming Administrator**		
** The County Manager, Production Administrator and Planning/Programming Administrator (or qualified representative) must attend the site visit.		

EXTERNAL AGENCY INVOLVEMENT:		
<i>Indicate external agency involvement during identification of red flags. List the name and phone number of individual(s) representing each agency during the site visit.</i>		
AGENCY	NAME	PHONE NUMBER
FHWA Engineer***		
*** The FHWA Engineer should be invited on projects expected to require approval from Federal Highway Administration.		

General Project Planning Information	
<p>Structures: Bridge Number _____ Structure File Number _____ Bridge Number _____ Structure File Number _____ Bridge Number _____ Structure File Number _____</p>	<p>Project Sponsor: _____ Is local legislation required? <input type="checkbox"/> Yes <input type="checkbox"/> No Is FHWA oversight required? <input type="checkbox"/> Yes <input type="checkbox"/> No Is project location on congestion/safety list? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Estimated Cost: _____</p>	<p>Problem identified by (<i>indicate document date</i>):</p> <ul style="list-style-type: none"> <input type="checkbox"/> District Work Plan _____ <input type="checkbox"/> Congestion Study _____ <input type="checkbox"/> Safety Study _____ <input type="checkbox"/> Major New _____ <input type="checkbox"/> MPO TIP _____ <input type="checkbox"/> MPO LRP _____ <input type="checkbox"/> Access Ohio _____ <input type="checkbox"/> Hot Spot Location _____ <input type="checkbox"/> HSP Location _____ <input type="checkbox"/> Other _____
<p>Funding Source(s): <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Local _____ <input type="checkbox"/> Private _____</p>	
<p>Are funding splits required? <input type="checkbox"/> Yes <input type="checkbox"/> No Specify: _____</p>	
<p>Anticipated quarter and Fiscal Year of project award: _____</p>	

Red Flag Summary

General Project Planning Information

- Are there any other projects in the area (ODOT, local or utility) that might conflict with the project (e.g., a local project on the proposed detour route for the ODOT project, a resurfacing project a year after a pavement marking project)?
 Yes No *Specify.* _____
 - Are there growth or land use changes in the area surrounding the project that could have an impact on project scope?
 Yes No *Specify.* _____
- Are there any known public involvement issues? Yes No *Specify.* _____

Briefly describe the Purpose and Need (Must be a separate document for Major Projects):

GENERAL EXISTING INFORMATION:

Legal Speed _____

Design Speed _____

Traffic Data:

Opening Year ADT: _____

Design Year ADT: _____

Design Hourly Volume: _____

Directional Distribution: _____

Trucks (24 Hour B&C): _____

(Traffic data does not need to be certified for the Red Flag Summary.)

Functional Classification:

- Interstate, freeway
- Arterial
- Collector
- Local

Locale:

- Rural
- Urban

National Highway System (NHS):

NHS Routes: _____

Non-NHS Routes: _____

Resurfacing, Restoration and Rehabilitation (3R) Project? Yes No

SITE VISIT:

A site visit is required for ALL projects. The site visit shall consist of visual inspection of the entire project area including the ditch lines, cut slopes, stream banks, bridge foundations, pavement, **embankment** slopes, etc.

Date(s) of site visit: _____

Red Flag Summary

ODOT COUNTY MANAGER CONCERNS:
<i>List any comments/requests from the ODOT County Manager.</i>

ACCIDENT DATA:
<i>Briefly summarize accident history. Indicate any design features that should be revised to increase safety.</i>

ENVIRONMENTAL ISSUES:		
<i>Make a preliminary determination on whether the following resources will be affected by the proposed project. Comments must identify the location of the issue. Comments are required for any Yes or Possible responses.</i>		
Involvement	Resource/Feature	Location/Comments
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Parkland, nature preserves and wildlife areas (<i>Name</i>)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Cemetery (<i>Name</i>)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Scenic River (<i>Name</i>)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Public Facilities (<i>Name</i>)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Threatened and Endangered Species and/or habitat (e.g., Indiana bat trees, etc.)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Existing cat tails (<i>Location</i>)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Existing wet areas (<i>Location</i>)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Streams, rivers and watercourses (<i>Use Designation</i>)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Historic Building(s) (<i>Location</i>)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Historic Bridge(s) (<i>Location</i>)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Farmland (<i>Location</i>)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Air Quality non-attainment area or concerns (ozone particulate or air toxics)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Landfill(s), Superfund Site(s) and/or evidence of hazardous materials (<i>Location</i>)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Known Archaeological Sites	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Total Maximum Daily Load (TMDL) Streams	

Red Flag Summary

ENVIRONMENTAL ISSUES:		
<i>Make a preliminary determination on whether the following resources will be affected by the proposed project. Comments must identify the location of the issue. Comments are required for any Yes or Possible responses.</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	ODOT MS4 Phase 2 Regulated Areas	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Sensitive environmental justice areas	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Federal Emergency Management Agency (FEMA) floodplains	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Lake Erie Coastal Management Area	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Sole Source Aquifers (Location)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Wellhead Protection Areas (Specify)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Does it appear that noise abatement will be an issue for the project?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Other environmental issues	

GEOMETRIC ISSUES:		
<i>Use the design speed, design functional classification and available traffic data to make a preliminary determination as to the geometric standards for the project. Compare these requirements to accident data and impacts if deviations are being considered.</i>		
Design Exception Required?	Design Feature	Preliminary Comments Regarding Justification
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Lane Width (including curve widening)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Graded Shoulder Width	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Bridge Width	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Structural Capacity	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Horizontal Alignment (including Excessive Deflections, Degree of Curve, Lack of Spirals, Transition/Taper Rates and Intersection Angles)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Vertical Alignment (including grade breaks)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Grades	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Stopping Sight Distance	

Red Flag Summary

GEOMETRIC ISSUES:		
<i>Use the design speed, design functional classification and available traffic data to make a preliminary determination as to the geometric standards for the project. Compare these requirements to accident data and impacts if deviations are being considered.</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Pavement Cross Slopes	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Superelevation (Maximum rate, transition, position)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Horizontal Clearance	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Vertical Clearance	

GEOMETRIC ISSUES:		
<i>Indicate if the following geometric issues are present or should be considered during project development. Consider work on the mainline as well as any side roads or service roads. Provide additional comments as needed.</i>		
	Design Issue	Comments
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does the existing horizontal alignment need to be modified?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does the existing vertical alignment need to be modified?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does stopping sight distance need to be increased?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does intersection sight distance need to be increased?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there geometric issues that may affect traffic safety (including Full or Half-Clover Leaf Interchange, Slip Ramps, Weave Areas, and short acceleration/deceleration lanes). <i>Describe.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any hazards in the clear zone? <i>Specify treatment.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does existing guardrail need to be replaced (e.g., too low, poor condition)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is the area for guardrail anchor assemblies insufficient? (E-98 or B-98)? <i>Consider proper grading around the anchor assembly.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does the number of turn lanes or through lanes need to be increased?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are changes to access control required?	

Red Flag Summary

GEOMETRIC ISSUES:		
<i>Indicate if the following geometric issues are present or should be considered during project development. Consider work on the mainline as well as any side roads or service roads. Provide additional comments as needed.</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any drive locations that will require special attention during design (e.g., very steep grades, high volume commercial drives, drives close to bridges or intersections)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are new mailbox turnouts required?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there any evidence of accidents due to substandard vertical clearance on overpass structures?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will an interchange be added or modified?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Do the existing intersection radius returns need to be modified to accommodate larger truck turning movements?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does grading need to be upgraded? To what criteria (e.g., clear zone, safety, standard)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any other geometric issues? <i>Describe</i>	

GEOTECHNICAL ISSUES		
<i>Based on the information compiled during this study indicate whether or not the following geotechnical issues are present or should be further considered during project development. Provide additional comments as needed.</i>		
	Design Issues	Comments
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there evidence of soil drainage problems (e.g., wet or pumping subgrade, standing water, the presence of seeps, wetlands, swamps, bogs)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is the groundwater table anticipated to be affected by construction?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there evidence of any embankment or foundation problems (e.g., differential settlement, sag, foundation failures, slope failures, scours, evidence of channel migrations)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there evidence of any slope instability (soil or rock) ?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there evidence of unsuitable materials (e.g., presence of debris or man-made fills or waste pits containing these materials, indications from old soil borings)?	

Red Flag Summary

GEOTECHNICAL ISSUES		
<i>Based on the information compiled during this study indicate whether or not the following geotechnical issues are present or should be further considered during project development. Provide additional comments as needed.</i>		
G Yes G No G Possible G Not Applicable	Is there evidence of rock strata (e.g., presence of exposed bedrock, rock on the old borings)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there evidence of active, reclaimed or abandoned surface mines?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there information pertaining to the existence of underground mines?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there Acid Mine Drainage present within the study area?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does subgrade stabilization or an undercut appear to be needed?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Should the Office of Geotechnical Engineering be contacted to evaluate the project site?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Were there any significant items found during plan and specification review? <i>Specify.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any other geotechnical issues? <i>Specify.</i>	

PAVEMENT ISSUES:		
<i>Indicate if the following pavement issues are present or should be considered during project development. Side road and service road work should be considered in this assessment. Provide additional comments as needed.</i>		
	Design Issue	Comments
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are pavement cores needed to determine the existing pavement buildup and/or condition?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is the proposed pavement buildup unknown? (For pavement preservation projects, pavement treatment, including pavement type & thickness should be specified in the design scope of services)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Do dynaflect tests indicate the existing pavement is in poor condition?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does the proposed pavement buildup need to be approved by the Pavement Selection Committee?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are joint repairs needed?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are pressure relief joints needed?	

Red Flag Summary

PAVEMENT ISSUES:		
<i>Indicate if the following pavement issues are present or should be considered during project development. Side road and service road work should be considered in this assessment. Provide additional comments as needed.</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are pavement repairs needed?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does the maintenance of traffic scheme require additional permanent or temporary pavement?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does curb need to be replaced due to deteriorated condition or lack of curb reveal?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does sidewalk need to be replaced or installed?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are new curb ramps needed?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Do truncated domes need to be installed?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there any work on side roads, service roads, or ramps?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any special drive treatments or preferences (e.g., concrete for all drive aprons, curved aprons, etc.)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Has the site received repeated resurfacings in recent years?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does pavement deterioration appear to be caused by drainage or geotechnical problems?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any other pavement issues? <i>Specify.</i>	

STRUCTURAL ISSUES:		
<i>Indicate if the following structure issues are present or should be considered during project development. Provide additional comments as needed. Provide a separate table for each structure.</i>		
Structure:	Design Issue	Comments
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is it impossible for the structure to be replaced with a prefabricated box culvert or 3-sided box?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does the bridge (including foundation) violate current design live loading?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Was the existing structure not built according to plan?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is deck coring needed?	

Red Flag Summary

STRUCTURAL ISSUES:		
<i>Indicate if the following structure issues are present or should be considered during project development. Provide additional comments as needed. Provide a separate table for each structure.</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is the deck delaminated? <i>Specify.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is non-destructive testing needed to determine the amount of delamination?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is the bridge deck in poor condition? <i>Specify location and level of deterioration.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does a deck condition survey (see Bridge Design Manual) need to be performed?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there areas to be patched or repaired on the deck?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is the bridge a poor candidate for an overlay? <i>Specify type of overlay if know.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does the bridge rail violate current standards?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is fatigue analysis required?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Should all fatigue prone details be retrofitted or replaced? <i>Specify.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is the abutment (including backwall, beam seats, breastwall, wingwall, etc.) in poor condition? <i>Specify location and level of deterioration.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there any evidence of substructure movement (e.g., settlement, rotation)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are the piers in poor condition? <i>Specify location and level of deterioration.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there any evidence of existing beam deterioration/section loss, strands exposed, shear joints leaking or longitudinal cracks?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are the bearings in poor condition?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is elimination of the deck joint impossible? What modifications are necessary?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are new approach slabs needed?	

Red Flag Summary

STRUCTURAL ISSUES:		
<i>Indicate if the following structure issues are present or should be considered during project development. Provide additional comments as needed. Provide a separate table for each structure.</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is it impossible for the hinges to be removed to make the members continuous?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is the bridge on a curve, skew or superelevation transition?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there any evidence that the bridge does not meet hydraulic capacity?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there existing sidewalks on or adjacent to the bridge?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will the structure work require any special maintenance of traffic (e.g., closing of roadway for erection of beams, maintenance of waterway traffic, location of cut line, etc.)? <i>Specify.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there any erosion in the existing channel?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is the foundation exposed due to scour?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will there be more than 25' of channel relocation?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Do no opportunities exist to construct the bridge faster (e.g., precast walls, segmental construction)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does the bridge need to accommodate future roadway lanes or railroad tracks?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will temporary shoring be required next to the railroad?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any problems with the existing retaining walls?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any other structures issues? <i>Specify.</i>	

Red Flag Summary

HYDRAULIC ISSUES:		
Indicate if the following drainage issues are present or should be considered during project development. Side road and service road work should be considered in this assessment. Provide additional comments as needed.		
	Design Issue	Comments
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Based on visual evidence (height of debris, erosion or other markings left from high water) and approximate drainage areas, does the existing drainage system (culverts, storm sewers and/or ditches) appear to be inappropriately sized and not functioning properly? <i>Describe deficiencies.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there evidence of alignment or flow velocity problems (e.g., scour, bank erosions, silting) at culvert entrances or exits?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there sinkholes or other deterioration in the pavement that would indicate separations in the existing pipes?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible	Is ditch clean-out required?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Should guardrail over culverts be eliminated with clear zone grading?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Should the existing culverts be replaced?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Should the existing culverts be extended?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will a new alignment concentrate flow (in culverts) that is currently overland flow?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will the maximum height of cover (100') be exceeded for any culvert?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will bankfull design be used for any culverts?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does the existing drainage system have an odor that might indicate that it includes septic connections?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is the exposed curb height in existing gutters inadequate to contain flow (include height of proposed resurfacing)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Do the existing inlets or catch basins need to be raised to meet proposed grade?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does the project affect a wetland or waterway (e.g., stream, river, jurisdictional ditch)?	

Red Flag Summary

HYDRAULIC ISSUES:		
Indicate if the following drainage issues are present or should be considered during project development. Side road and service road work should be considered in this assessment. Provide additional comments as needed.		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is the existing and/or proposed channel alignment incompatible with the existing/proposed structure?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will channel relocation be required?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will Municipal Separate Storm Sewer System (MS4) requirements apply?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will post construction flow requirements be required?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is there evidence of existing field tiles?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are underdrain outlets not functioning properly?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will a new storm sewer outfall be required?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does the drainage work warrant any special maintenance of traffic considerations?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any other hydraulic issues? <i>Describe.</i>	

TRAFFIC CONTROL ISSUES:		
Indicate if the following traffic control (signals, signing, pavement markings, etc.) issues are present or should be considered during project development. Provide additional comments as needed.		
	Design Issue	Comments
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Do the existing signs need to be replaced due to poor condition?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any obvious deviations from requirements of the Ohio Manual of Uniform Traffic Control Devices (OMUTCD)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is a particular type of pavement marking desired (e.g., paint, epoxy, thermoplastic)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will pavement planning affect loop detectors?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will pavement widening affect pole locations?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will resurfacing affect signal height?	

Red Flag Summary

TRAFFIC CONTROL ISSUES:		
<i>Indicate if the following traffic control (signals, signing, pavement markings, etc.) issues are present or should be considered during project development. Provide additional comments as needed.</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does it appear that any traffic control items will fall outside the existing right of way limits (e.g., large signs, strain poles)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any accidents that can be related to existing signal deficiencies (e.g., timing, lack of turn lanes)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Do turn lane lengths appear to have insufficient storage capacity?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does the controller need to be upgraded?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Do proprietary materials need to be specified?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Should signs or signal installations be supplemented with lighting?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are any TODS signs present?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	If traffic control at an intersection is being changed from stop control to signalization, does the stop condition road need to be upgraded to accommodate faster traffic?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any other traffic control issues? <i>Specify.</i>	

MAINTENANCE OF TRAFFIC ISSUES:	
<i>Briefly describe the maintenance of traffic and any constraints. A list of considerations has been provided below.</i>	
Maintenance of Traffic Considerations	
<ul style="list-style-type: none"> • Limits on traffic detour (including local alternate detours) due to load limits, bridge width restrictions, shoulder condition, emergency vehicle impact • Temporary pavement requirements • Speed limit during construction • Pedestrian Traffic • Additional width at culverts • Drive Access • Stopping Sight Distance • Construction Access 	<ul style="list-style-type: none"> • Right of Way acquisition • Permitted lane closures • Cross-overs • Short duration road closures • Temporary structure requirements • Additional signal heads (drives and/or side roads) • Construction timeframe issues • Innovative contracting • Maintaining railroad traffic • Turn movement restrictions

Red Flag Summary

Maintenance of Traffic Description

RIGHT OF WAY/SURVEY ISSUES:		
<i>Indicate if right of way or survey issues are present or should be considered during project development. Provide additional comments as needed.</i>		
	Design Issue	Comments
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will there be any work beyond the existing right of way limits?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will major real estate relocation acquisition be involved?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will relocation of residences be involved?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will relocation of businesses be involved?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will the project cause relocation of parties that might be eligible for relocation assistance? If so, list the estimated number of residential and non-residential relocations?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will the project require modifying the access control to any properties? If so, list the estimated number and type of properties affected.	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any objects within the existing right of way limits that may be considered an encroachment?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will it be difficult or impossible to determine the number of involved property owners? If not how many are involved?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will temporary parcels be needed (e.g., for drive work)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will right of way need to be acquired for an agency other than ODOT (e.g., county, city)? <i>Specify.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will additional right of way be needed for utility relocations?	

Red Flag Summary

RIGHT OF WAY/SURVEY ISSUES:		
<i>Indicate if right of way or survey issues are present or should be considered during project development. Provide additional comments as needed.</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will right of way need to be acquired for storm sewer outfalls?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Do property owners need to be contacted for the locations of underground items such as leach fields, septic systems, or field tiles that might be affected by the proposed take?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any mineral rights considerations?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any specific property owner concerns? If so, list property owners and concerns.	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are work agreements prohibited for any reason?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are the centerline of right of way and centerline of construction different?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will right of way be acquired for wetland or stream mitigation?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any other right of way or survey issues? <i>Specify.</i>	

UTILITY ISSUES:		
<i>Indicate if the following utility issues are present or should be considered during project development. Provide additional comments as needed.</i>		
	Design Issue	Comments
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Do existing utilities need to be relocated? <i>If so, please identify.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is it impossible to minimize utility conflicts? (e.g., by careful placement of storm sewer and underdrains)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Would the project benefit from subsurface utility engineering (SUE)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there existing utilities on an existing structure that need to be relocated?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any specific utility requirements or concerns? <i>Specify.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is additional right of way needed to accommodate utility relocations?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there water or sanitary lines that will be relocated as part of the ODOT contract?	

Red Flag Summary

UTILITY ISSUES:		
<i>Indicate if the following utility issues are present or should be considered during project development. Provide additional comments as needed.</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any other utility issues? <i>Specify.</i>	

MISCELLANEOUS ISSUES:		
<i>Indicate if the following issues are present or should be considered during project development. Provide additional comments as needed.</i>		
	Design Issue	Comments
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will any of the construction activity take place over, under, or near railroad property?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Could material with long lead times for delivery have an impact on the construction schedule (e.g., strain poles, large box culverts, steel beams, etc.)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will a value engineering study be required due to project cost (total cost greater than \$20 million) or project complexity?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will warranties be used?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there aesthetic concerns? <i>Specify.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any concerns relating to noise walls?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there no areas available within the existing right of way for portable plants or waste and borrow sites?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any specific concerns related to pedestrian or bicycle access?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any concerns related to landscaping?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any concerns related to existing or proposed lighting (e.g., light trespass, river navigation, airway clearance)?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Are there any other project concerns? <i>Specify</i>	

PERMIT ISSUES:		
<i>Indicate if the following permit issues are present or should be considered during project development. Provide additional comments as needed.</i>		
	Issue	Comments
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will an individual Corps of Engineers/ Environmental Protection Agency 404/401 permit be required?	

Red Flag Summary

PERMIT ISSUES:		
<i>Indicate if the following permit issues are present or should be considered during project development. Provide additional comments as needed.</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Does it appear that the project can be constructed under a nationwide 404/401 permit? If so, which permit and what specific requirements apply?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Will a Coast Guard permit be required?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is review by a local public agency or project sponsor required? <i>Specify.</i>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is Airway/Highway clearance analysis required?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is State Historic Preservation Office (SHPO) coordination for work involving historic bridges or historic properties required?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is coordination with ODNR for work involving State Scenic Rivers, State Wildlife Areas or State Recreational Areas required?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Is coordination with any other agency required (see Location and Design Manual Volume 3)?	

SCOPE, SCHEDULE AND BUDGET CONSIDERATIONS:		
<i>Based on the responses to the red flag questions, do any of the following need to be modified?</i>		
	Issue	Comments
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Conceptual scope	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Work limits	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Probable environmental document type	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Major/Minor/Minimal classification	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Schedule	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Possible <input type="checkbox"/> Not Applicable	Budget	