

PERRY COUNTY
DESIGN BUILD

SCOPE OF SERVICES

PID: 117332 State Project Number: N/A

County: Perry Route: CR25 Section: 2.00

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1. PROJECT IDENTIFICATION

PID: 117332 State Project Number: N/A

County: Perry Route: County Road 25 Section: 2.00

Local Route Name: Toll Gate Road

Highway Functional Classification & Federal Aid System: Local-Rural

Structure Identification: Bridge Number: PER-CR25-2.00

Structure File Number: 6430899

1.1 Design Designation

Route:	PER-CR25-2.00
Current ADT:	<400
Design Year ADT:	<400
Design Hourly Volume:	N/A
Direction Distribution:	N/A
Trucks:	7%
Design Speed:	55 MPH
Legal Speed:	55 MPH
Design Functional Classification:	Local - Rural
NHS Route:	No

1.2 Existing Plans: N/A, no plans are on file.

2 RAILROAD COORDINATION

N/A

3 AIRWAY/HIGHWAY CLEARANCE

N/A

4 PRE-BID MEETING

N/A

5 ADDENDA PROCESS

All questions prior to the letting date shall be directed to:

Mr. Clayton McCoy, P.E., P.S., in writing by email:

Email: claytonmccoy@perrycountyengineer.com

6 PRE-QUALIFICATION

It is required that the bidder be an ODOT pre-qualified Contractor who has engaged the services of an ODOT pre-qualified Consultant to perform **all** the design and construction work required in these Conceptual Documents. If the Consultant and/or Sub-Consultant(s) submitted do not meet all the required qualifications, the bid may be rejected.

7 CONTRACTOR'S CONSULTANTS

The Contractor must name the Consultant and all Sub-Consultant(s) in the space(s) provided below. The Contractor must list relevant prequalification categories for prime and sub-consultants to show that the prequalification requirements listed below are satisfied. All Consultant names and addresses must be the same as that on file with ODOT. The following work types must be performed by members of the Consultant Team (combination of Consultant and Sub-Consultant(s)):

Non-Complex Roadway Design

Level 2 Bridge Design

Subsurface Utility Engineering

Consultant

Firm Name: _____

Address: _____

List work types the Consultant will perform:

Sub-Consultant

Firm Name: _____

Address: _____

List work types the Consultant will perform:

Sub-Consultant

Firm Name: _____

Address: _____

List work types the Consultant will perform:

Failing to name the Consultant and Sub-Consultant(s) in the electronic form who are pre-qualified in the required Project work types may render the Bid non-responsive and ineligible for award per 102.14 A and 102.14 Q of the ODOT CMS.

Restrictions on Participation in Design-Build Contracts:

Any Consultant who provided services to Perry County that have been directly utilized in this design-build proposal or Scope of Services document will **NOT** be eligible to participate in this design-build contract for this project, either as a prime consultant or as a sub-consultant. The consultant(s) listed below will not be eligible:

N/A

8 **SCOPE OF WORK**

PER-CR25-2.00

Project Limits: From STA 8+50.00 to STA 11+50.00

Project Length: 300.00'. Work Length shall be determined by the DBT.

The Consultant shall provide for the survey and engineering services, design, and preparation of detailed construction plans for the construction of the proposed project.

The Contractor shall provide for the furnishing of materials, construction and completion in every detail of all the work described in the Conceptual Documents in order to fulfill the intent of the contract.

Project Description: This includes the removal of the existing decking and superstructure and the replacement of the existing bridge by stepping back behind the existing substructure (to remain in place) and building the new bridge structure, with minimal approach work.

Completion Date: 11/1/2024

Description of Work	Calendar Days to Complete
Complete closure of Toll Gate Road (CR-25) for the partial removal (deck and superstructure) and complete replacement of the PER-CR2568-2.00 structure, with all safety items installed and functional.	120 days

9 **FIELD OFFICE**

N/A

10 **GENERAL PROVISIONS FOR THE WORK**

10.1 **Governing Regulations:** All services, including but not limited to survey, design and construction work, performed by the DBT and all subcontractors (including sub-consultants), shall follow all contract requirements.

The fact that the bid items for this Design -Build project are general rather than specific shall not relieve the DBT of the requirements that all work performed and all materials furnished shall be in reasonable conformity with the specifications. The Contractor's Consultant shall reference in the plans the appropriate Construction and Material Specifications Item Number for all work to be performed and all materials to be furnished.

The attention of the Bidder is directed to the provisions of section 100 of the applicable ODOT Construction and Material Specifications as modified in the design-build proposal (PN 126) designed for Local-Let projects.

It will be the responsibility of the DBT to acquire and utilize the necessary ODOT manuals that apply to the design and construction work required to complete this project.

The current edition, including updates released on or before the Prebid meeting date, of the following ODOT Manuals and Guidelines shall be met or exceeded in the performance of the design and construction work required to complete this project:

Bridge Design Manual
 Location and Design Manuals
 -Volume One-Roadway Design
 -Volume Two-Drainage Design
 -Volume Three-Plan Preparation
 Pavement Design and Rehabilitation Manual
 Specifications for Geotechnical Explorations
 Survey Manual
 Construction and Material Specifications
 Proposal Notes for Construction and Material Specifications
 Supplemental Specifications for Construction and Material Specifications
 Item Master
 Manual for Abandoned Underground Mines-Inventory and Risk Assessment
 State Highway Access Management Manual
 Standard Construction Drawings
 Plan Insert Sheets
 Traffic Engineering Manual
 Ohio Manual of Uniform Traffic Control Devices
 Real Estate Administration Policies and Procedures Manual:
 -Appraisal
 -Acquisition Property Management
 -Relocation
 -ROW Plans
 -Utilities
 -Wireless Communication Tower Manual
 Environmental Services Handbook and Guidelines
 Waterway Permit Manual
 Design Mapping Specifications
 CADD Engineering Standards Manual
 Geotechnical Bulletins
 Project Development Process Manual (Appendix B)

- 10.2 Basis of Payment:** All Items covered by the Contract Specifications, Supplemental Specifications, Proposal and Special Provision notes with unit price as a basis of payment will be paid for under the appropriate Lump Sum bid item, unless a unit line price item has been established in the Scope of Services.

The DBT shall be required to furnish the County with a Schedule of Values showing the complete breakdown (approximate cost and approximate work) of the Lump Sum bid items. The breakdown shall be in sufficient detail to depict reasonable elements of physical work items and in sufficient detail to provide ODOT with a means to check partial payment requests. It shall show estimated quantities of work in sufficient detail to determine testing and material reporting requirements per CMS. It shall be submitted and agreed with the Engineer prior to physical work. It may be (and is preferred to be) in an electronic format (i.e. Excel Spreadsheet).

The Engineer shall generate payment estimates upon receipt of a written request from the Contractor. This request shall correspond to the work performed for the payment estimate period. This request shall be in a format which utilizes the agreed Schedule of Values.

The DBT shall provide a general summary and submit the General Summary with and within the final As-Built Construction Plans.

10.3 Final Payment: The DBT shall prepare and submit the following prior to the request for final payment:

1. All original project files and notes utilized in the preparation of the survey, design and construction of the project
2. Record-Drawings Plans as required in section 10.4 below.

10.4 Record-Drawing Plans:

A. General: At the completion of the work, prior to final acceptance of the construction, the Consultant shall furnish the County with Record-Drawing construction plans. When the Record-Drawing plans are completed, the Consultant shall professionally endorse (sign and seal) the title sheet.

Record-Drawing plans will be submitted as PDF images per the Electronic Plan Submissions Guidelines as shown on the ODOT website at:

<https://www.transportation.ohio.gov/working/engineering/cadd-mapping/cadd/guidelines-electronic-deliverables>

In addition to the information shown on the construction plans, the Record-Drawing plans shall show the following:

1. All deviations from the original approved construction plans which result in a change of location, material, type or size of work.
2. Any utilities, pipes, wellheads, abandoned pavements, foundations or other major obstructions discovered and remaining in place which are not shown, or do not conform to locations or depths shown in the plans. Underground features shall be shown and labeled on the Record-Drawing plan in terms of station, offset and elevation.
3. The final option and specification number selected for those items which allow several material options under the specification (e.g., conduit).
4. Additional plan sheets may be needed, if necessary, to show work not included in the construction plans.
5. Notation shall also be made of locations and the extent of use of materials, other than soil, for embankment construction (rock, broken concrete without reinforcing steel, etc.).
6. The Plan index shall show the plan sheets which have changes appearing on them.
7. Each plan sheet will have its last revised date notes on the sheet clearly marked "As Built".

Two paper-half size copies of the Record-Drawing plans shall be delivered to the Project Engineer for approval upon completion of the physical work but prior to the request for final payment. After the County has approved the Record-Drawing plans, the Record Drawings (PDF files, including the original half-size signed Title Sheet) and the associated electronic files will be delivered to the Perry County Engineer. Acceptance of these plans and delivery of the original tracings and the associated electronic files is required prior to the work being accepted and the final estimate approved.

The delivered original tracings shall be prepared in conformance with the Ohio Department of Transportation Location and Design Manual, Volume 3, Section 1200-Plan Preparation.

B. CADD files supplied by Consultant: X Yes No

If marked yes, the Consultant shall comply with ODOT's CADD Standards, and supply files in accordance with the CADD Engineering Standards Manual, only that Perry County requires the files to be in AutoCAD (*.dwg format). All data shall be provided to Perry County according to the provisions as detailed under the appropriate CADD links accessed from ODOT's Office of CADD and Mapping Service's website. The website can be accessed at the following URL address: <https://www.transportation.ohio.gov/working/engineering/cadd-mapping>

Perry County will accept CADD files on a Flash Drive "Thumb Drive" electronic media.

1. The Consultant shall submit all CADD information produced in the process of plan development. All CADD information shall be submitted in the current version of AutoCAD (*.dwg format). The responsibility to provide Perry County with correct and complete CADD data rests with the consultant.

10.5 Pre-Award Conference: Within 7 days of after bid opening, the apparent successful DBT will attend a mandatory pre-award conference. This confidential meeting will be held with the Perry County Engineers Office to discuss the DBT's bid of the Lump Sum items. The DBT shall be prepared to discuss general items of Work included within the Lump Sum bid items, approximate amounts of Work included within the Bid Item by the DBT, and general design approach and design concepts for the Work.

While not required, the DBT may prepare general engineering information to be presented to the Perry County Engineer to help explain design concepts and quantities. This information will be used only by the Perry County Engineer to assist in understanding the DBT's bid for award recommendation purposes.

No shared concepts, shared quantity information, discussions, comments made or shared by either party will be considered binding, a revision to the contract, or acceptance or validation of any design concept or assumed quantities of work.

10.6 Communication: All communication during design and construction shall be with the Perry County Project Manager/Engineer.

Perry County Project Manager's Name: Clayton McCoy, P.E., P.S.

Phone Number: (740) 342-2191

E-mail: claytonmccoy@perrycountyengineer.com

At the pre-design meeting, the Contractor shall name a Project Manager who will act as a liaison between the DBT and Perry County.

10.7 Permits: The Contractor will be required to obtain any needed permits from the government entity having jurisdiction, to perform any non-construction work within the existing Right-of-Way.

10.8 Entry on Private Property: The DBT, acting as Perry County's agent, may enter upon any lands in Perry County control for the purpose of inspecting, surveying, leveling, digging, drilling, or doing any work deemed necessary in the execution of any survey authorized by the Perry County Project Manager/Engineer in accordance with Section 5517.01 of the Ohio Revised Code and Section 102.6 (inclusive of Sections 102.61 through 102.66) of ODOT's Survey Manual. Prior to performing said survey, the DBT will send notification letter indicating the date and duration of entry to the affected property owners no less than forty-eight hours nor more than prior to the date

of entry for said. The DBT shall forward copies of all notification letters distributed to Perry County's Project Manager. Any subsequent claims for compensation due to damages incurred while said survey was being performed will be negotiated between the DBT and the affected property owners with final approval from Perry County's Project Manager. Crop and property damage minimization and reimbursement information, together with crop damage reimbursement formula and ODOT Special Waiver of Damage form, will be provided to the DBT by Perry County's Project Manager. Any subsequent entries onto private property for the purpose of obtaining additional survey or soil information prior to the submission of the bid will be made in accordance with the procedures outlined in this section.

11 HAZARDOUS MATERIALS

The following Asbestos Notification Note is to appear in the Construction Plans:

OEPA NOTIFICATION OF DEMOLITION AND RENOVATION

AN ASBESTOS SURVEY OF THE PER-CR25-2.00 BRIDGE SCHEDULED FOR DEMOLITION WORK WAS CONDUCTED BY A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST. A COPY OF THE ASBESTOS SURVEY REPORT FOR THE BRIDGE HAS BEEN INCLUDED IN THE PLAN PACKAGE FOR THIS PROJECT. THE ASBESTOS SURVEY REPORT DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS.

A copy of the Ohio Environmental Protection Agency (OEPA) notification of demolition and renovation forms, partially completed by the Asbestos Hazard Evaluation Specialist, has been included at the end of the Asbestos Survey Report. The Contractor shall complete the necessary sections of the form and submit it with a copy of the Asbestos Survey Report to:

Asbestos Program
Ohio EPA, DAPC
P.O. Box: 1049
Columbus, Ohio 43216-1049

At least ten (10) working days prior to the start of any demolition work. The contractor shall provide a copy of the completed form to the engineer. Notification can be made either by hard copy or electronically. Additional information can be found here:

<http://epa.ohio.gov/dapc/atu/asbestos.aspx#179575188-project-notification>

Basis of Payment: The Contractor shall furnish all fees, labor, and material necessary to complete and submit the OEPA notification form. Payments for this work shall be incidental to the Item 202 Structure Removal item(s) in the plan.

12 ENVIRONMENTAL

12.1 Waterway Permits:

The Perry County Engineer's Office has determined that it is not necessary to place fill materials within the jurisdictional limits of Center Branch Rush Creek to complete the bridge repair project, therefore, the Design-Build Team (DBT) shall not impact, or place any temporary or permanent fill materials below the ordinary highwater mark (OHWM)* of Center Branch Rush Creek. Should the DBT determine that it is necessary to impact the stream below the OHWM or construct a temporary stream crossing, a description of the proposed in-stream work including a plan view and cross section of the proposed stream crossing, if applicable, must be submitted to the Huntington Office of the Army Corps of Engineers and Nicole Hafer-Lipstreu at ODOT-District 5. The DBT shall allow a minimum of 120 days for coordination with the resource

agencies and acquisition of the required Section 404 Permit from the Army Corps of Engineers. No in-stream work may occur until the Perry County Engineer's Office has completed the coordination and obtained the required Section 404 Permit and OEPA Section 401 Certification. In the event that the DBT or its agents are found to be in violation of Section 404 and as a result, an assessment or fine is made or levied against Perry County, the DBT shall reimburse ODOT within thirty (30) calendar days of the notice of assessment or fine or Perry County Engineer's Office may withhold the amount of the fine from the Contractors next pay estimate.

*USACE definition of OHWM- The ordinary high-water mark is the line on the shores established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank; shelving; changes in the character of the soil; destruction of terrestrial vegetation; the presence of litter and debris; or the appropriate means that consider the characteristics of the surrounding areas.

Flood Plain – No storage of materials or staging shall occur within the Floodplain of Center Branch Rush Creek.

Demolition Debris – The Contractor shall take precautions to avoid and/or limit Demolition Debris from entering the stream. Material that does fall into the stream shall be removed within 72 hours.

12.2 National Pollutant Discharge Elimination System (NPDES) permit:

The DBT shall submit to the Perry County Project Manager the total number of acres of earth disturbance activities for both off project and on project work in a timely manner. This information will be used to develop the NOI if required. The NOI will be submitted to the OEPA within 10 days after this information is received from the DBT. Approval from the OEPA takes 21 days and the Perry County Project Manager has 10 days to file the NOI so these 31 days will be counted for in the project.

All temporary erosion control is the responsibility of the Contractor even if a SWPPP is not required. Earth disturbing activity is not permitted prior to the OEPA permit approval. For projects that require an NOI, the SWPPP must be in place prior to the initiation of any earth disturbing activity. All temporary erosion control work and the SWPPP if required will be per ODOT SS832. For information about OEPA's NPDES permit requirements see:

<https://epa.ohio.gov/divisions-and-offices/surface-water/permitting/npdes-general-permits>.

Payments for erosion control items that exceed the encumbered amount will be made by and Extra Work Change Order using the specified unit prices. The specified unit prices are fixed for the contract and may not be negotiated or adjusted for inflation or claimed changed condition.

The preparation of the SWPPP, along with all requirements of SS832 for maintaining, inspecting, modifying and updating the SWPPP are considered incidental to the Project.

12.3 Removal of Temporary Erosion Control Items

All temporary erosion control items shall be removed before the project is accepted. Removed materials shall become the property of the Contractor and shall be disposed of in accordance with the appropriate ODOT C&MS specifications.

12.4 Stream Crossing Investigations (Flood Plain Analysis and Permit)

The following bridge has been identified to be in a special flood zone hazard area defined by FEMA:

<u>BRIDGE</u>	<u>FEMA Flood Zone</u>
PER-CR25-2.00	AE

Project location is within a regulated floodplain. The DBT will contact the local floodplain administrator during the design-build process and obtain any necessary floodplain use permits and/or approvals necessary to complete the project.

12.5 Endangered Bat Habitat Removal

This project is located within the known habitat ranges of the federally listed and protected Indiana Bat and Northern Long-Eared Bat. No trees shall be removed under this project from April 1 through September 30. All necessary tree removal shall occur from October 1 through March 31. This requirement is necessary to avoid and minimize impacts to these species as required by the endangered species act. For the purpose 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. The Contractor shall remove only the trees necessary to construct the Project.

Prior to the start of Demolition Activities, the DBT shall inspect the bridge for the presence of bats and/or nesting birds. If any bats or nesting birds are observed the Contractor shall notify Nicole Hafer-Lipstreu in the District 5 Planning Department at (740) 323-5103, nicole.haferlipstreu@dot.ohio.gov, or Brian Tatman at (740) 323-5191, brian.tatman@dot.ohio.gov, prior to starting any Demolition Work.

13 RIGHT OF WAY (ROW)

All necessary construction work for the project will be performed within the existing right of way. It is not anticipated, but should the Consultant identify the need for additional right of way they will inform the County's Project Manager and determine the course of action to be taken to obtain the right of way.

Existing right of way lines will be located by the DBT based on the requirements specified in Chapter 4733-37 of the Ohio Revised Administrative Code (Board Rules) governed by regulations outlined in Chapter 4733, Ohio Revised Code (Regulation Laws). It is the responsibility of the DBT to research existing right of way information from all available sources including but not limited to County Road records, Commissioners' Journals and records of other County offices to the extent necessary to provide an accurate basis for the establishment of the existing right of way.

The DBT will stake and flag the existing right of way in the field prior to the start of construction and will maintain said stakes and flags throughout the duration of the project.

The Consultant will identify and show all right of way encroachments on the construction plans at the Conceptual Review Submission. The County's Project Manager will be responsible for clearing or permitting all encroachments.

14 UTILITIES

Utilities Special Provisions in addition to the Governing Regulations listed in section 10.1 of this document and section 153.64 of the Ohio Revised Code.

- 14.1 Existing Utilities:** The Perry County Project Manager/Engineer concurrence with the registered Underground Utility Protection Services-Ohio Underground Protection Service (OUPS) and Oil and Gas Producers Underground Protection Service (OGPUPS) and other utility owners that are non-members of any utility protection services, has determined that the following utilities are located in the area of the project.

Northern Perry County Water
Attn: Kelly Green
130 South Main St.
New Lexington, OH 43764
Phone: (740) 342-1065

Additional utilities may be present on the project and it is the responsibility of the Contractor to locate, determine potential impacts and coordinate any and all necessary relocations.

14.2 General Requirements:

The DBT shall be responsible for coordination with the owners of all public and private/investor utility facilities affected by the project. The resolution of any conflicts between utility facilities and the construction of the project shall be the responsibility of the DBT.

The following list further describes the assignment of responsibilities with respect to various issues related to utilities impacted by the project:

A. DBT shall coordinate with the utility owners and stakeholders to resolve all utility conflicts encountered on the project. The DBT shall also coordinate the completion of all utility relocations with the respective utility owners and stakeholders, including all railroads. (Refer to Railroad Section)

B. All effort required to resolve utility conflicts shall be included in the DBT's schedule and is entirely the DBT's risk, regardless of the entity performing work, except as described in 14.4.4 (Deadlines and Delays). The County is not responsible for any schedule delay caused by utility-related issues.

C. The County will solely determine compensable rights related to utility design, relocation, modification and construction for each conflict. When warranted, the County will compensate the respective utility owner directly as outlined in Section 14.4.7. No additional compensation will be made to the DBT.

D. No additional compensation will be made to the DBT for delays, inconveniences, or damages sustained by the DBT due to interference from the utilities or utility work.

E. The DBT shall be responsible for inspection of all utility relocation to ensure that the relocation work does not interfere with other proposed construction activities, including relocations of other utilities.

F. All new utility installation requests within the Right-of-Way shall be subject to the Perry County permitting process.

G. The cost of all utility coordination will be bid as a Lump Sum Item.

14.3 Governing Regulations for Utility Design and Construction:

All utility work performed by the DBT shall be consistent with the County's Right-of-Way Permit and must meet the Federal Highway Administration (FHWA) "Buy America" policy requirements of 23 USC 313 and 23 CFR 635.410. Utility work shall be in accordance with ODOT's 8100 Policy for Accommodation of Utilities and 8200 Procedure for Utility Relocations, Adjustments and Reimbursement.

This utility work shall comply with the utility owner's specifications, standards of practice and construction methods, as well as any applicable County or LPA and/or railroad permit requirements.

The Utility Relocation Plans prepared by the DBT for the design of the utility relocation work shall meet requirements of the Contract Documents for plan preparation and show, at a minimum the following information: Existing topography, right-of-way, lanes of travel, and the location of the existing utilities. When the DBT develops utility relocation plans, they shall be subject to review and approval by the utility owner in accordance with the design submittal requirements of the Contract Documents.

All utility design, relocation, modification and construction shall be performed in accordance with the applicable ODOT standards or accepted industry standards as applicable.

14.4 Utility Coordination:

Utility conflicts shall be identified and located by the DBT. The DBT shall design the project construction work to minimize the scope and extent of utility conflicts and relocations. The work shall not be designed to preclude legal occupancy of the highway right-of-way by the relocated utility. When utility relocations are necessary, coordination and scheduling of these relocations with the involved utilities shall be the responsibility of the DBT. The DBT shall minimize potential delays and coordinate the efficient relocation of affected utilities.

Only those utilities affected by the project shall be relocated or adjusted. If the DBT desires the temporary or permanent relocation or adjustment of the utilities for the DBT's benefit, the DBT shall conduct all negotiations with the utility owners and pay all costs associated with the relocation or adjustment. The DBT shall assume all schedule impacts from these relocations or adjustments.

The DBT shall perform the following:

- A. Confirm the identification and contact information of the utilities within the project area as provided by the District Utility Coordinator to verify the nature, extent and location of their existing facilities.
- B. Identify all utility impacts.
- C. Provide all project construction documents, other utility relocation plans, subsurface utility engineering (SUE) information (if applicable per 14.8), and geotechnical information for relocation of utilities.
- D. Coordinate all project work and utility work with the affected utility owners.
- E. Schedule and conduct utility coordination meetings during the project design and construction process.

The DBT shall be responsible for maintaining and updating the utility coordination information on a monthly basis and giving that information available to the District Utility Coordinator.

14.4.1 Notification

According to ORC 153.64 and at least two (2) days prior to commencing construction operations in an area that may affect underground utilities, the DBT shall notify the County, the Registered Utility Protection Service (OUPS) and the utility owners that are not members of the Registered Utility Protection Service.

14.4.2 Utility Coordination Activities

The DBT is responsible for establishing a schedule of utility coordination meetings commensurate with the complexity of each utility's relocation issues. The DBT shall notify the County at least three (3) business days in advance of each of the meetings. The County will participate as necessary. The DBT is responsible for generating meeting minutes within two (2) business days after the meeting and submitting those meeting minutes to the County.

14.4.3 Scheduling of Utility Relocation Work

The DBT shall obtain activity durations for all utility relocation work-related activities from the respective utility owner for incorporation into the DBT's Project Schedule. The DBT shall provide all documentation supporting the utility owner's concurrence with the activity durations included in the project schedule.

If the DBT requests an acceleration of utility relocation work, the DBT shall pay all related acceleration costs incurred by the utility owner. These acceleration costs are NOT eligible for reimbursement by the County.

If the DBT prepares a utility relocation plan, the utility owner will review and approve/reject the design prepared by the DBT no later than 28 calendar days after its submission to the utility owner, unless a different time period is agreed to by both parties. If a utility owner rejects any design work, the DBT shall immediately notify the County, in writing, of the grounds for rejection and suggestions for correcting the problem. The DBT shall correct the design and resubmit to the utility owner for review. This compliance review is anticipated to take fourteen (14) calendar days.

When a utility owner prepares a utility relocation plan, the DBT shall review the design and/or permit application to ensure that the relocation does not interfere with other proposed construction activities, including relocations of other utilities. This review shall be completed no later than fourteen (14) calendar days after its submission to the DBT, unless a different time period is expressly agreed to by both parties. The DBT shall compile and provide written review comments to the County and the utility owner.

14.4.4 Deadlines and Delays

The DBT shall monitor the progress of all activities associated with the utility relocations and promptly notify the County when the progress of the activity controlled by a utility owner is not consistent with the project schedule. Upon receipt of enough documentation confirming that a utility owner has failed to perform within the schedule activity durations developed in Scope Section 14.4.3, the County will be asked to issue an Obstruction Removal Notice. The County will solely determine if an Obstruction Removal Notice is to be issued. An Obstruction Removal Notice only governs the relocation process when the utility, in question, is located within the public road right-of-way. If a utility is located within the utility owner's easement, the notice does not apply, and the relocation delay responsibility is based on the relocation schedule provided by the utility.

The County will not be responsible for payment of delay claims associated with utility coordination/relocation, unless the DBT is able to provide the County with enough documentation for an Obstruction Removal Notice or lack of the utility meeting its utility relocation schedule.

14.4.5 Changes to Utility Relocation Work

Once a utility relocation has begun, the DBT shall not make any changes to the project that would necessitate an additional relocation of the utility. If changes occur, the DBT shall absorb the schedule impact and provide full compensation for One Hundred (100) percent of all costs (design and construction) associated with the additional relocation incurred by the utility owner. The DBT shall provide all documentation related to changes in utility relocation work.

14.4.6 Utility Owner Inspections

The utility owner may inspect construction of any utility work performed by the DBT on the utility owner's facility. The DBT shall notify the County of any such inspections. The DBT shall provide the County with written documentation of all utility comments and resolutions. The DBT shall provide safe access, including any necessary traffic control, for any utility work inspections performed by the utility owner.

14.4.7 Reimbursement and Deposit Processes

If a utility owner notifies the DBT that it believes any utility relocation is reimbursable to that utility owner or the utility requires an easement acquisition by the County, the DBT shall immediately notify the County. The County will work with the utility owner to confirm the compensable position and perform the County's utility reimbursement process. The County's will work with the utility if an easement is needed.

If the project contains construction work to support the installation of a private/investor-owned utility company's facilities, the DBT shall work with the District Utility Coordinator to determine how the utility will be made responsible for providing a deposit to cover the cost of that utility installation support.

14.4.8 Continuity of Utility Service

The DBT shall ensure that all utilities remain fully operational during all phases of the project, except as specifically approved by the utility owner. The DBT shall obtain approvals from the applicable utility owners for all necessary interruptions of service, including proposals for shutdowns and temporary diversions of affected utilities.

In the event of an emergency involving utility interruption, the DBT shall immediately alert the occupants of nearby premises as to any emergency that the accidental breakage may create at or near such premises. The DBT will immediately notify the utility owner, in accordance with utility company standards, and the County of the disruption and cooperate with the said utility owner in the restoration service. If water service is interrupted, repair work must continuously be performed until the water service is restored. Work around fire hydrants will not begin until the local fire department authority approves provisions for continued service.

Where the DBT is responsible for performance of utility relocation work, the DBT shall:

- A. Maintain service continuity to the extent practicable while performing the utility relocation work.
- B. Keep the utility owner fully informed of schedules, including coordinating with the utility owner with regard to the DBT's design, construction and inspection of the utility relocation work.

C. Coordinate any changes with the utility owner.

D. Keep the utility owner involved in making decisions that affect the utility owner's facilities, so the utility owner can provide uninterrupted service to its customers or be subject to the least interruptions practicable.

14.5 Existing Utility Locations:

Existing underground utilities to be abandoned, including service connections, must be disconnected and removed or abandoned to ground (abandoned in place). Utility poles and other above ground utility facilities shall be removed in their entirety.

14.5.1 Underground Utilities

The DBT is responsible for verifying the actual location of all underground utilities including type, number and depth.

14.5.2 Overhead Utilities

The DBT is responsible for verifying the actual location of all overhead utilities including type, number, and elevation of lines and all above ground utility facilities.

14.5.3 Utility Conflicts

Additional unknown utilities may be present that may or may not conflict with the project. The DBT shall identify, verify and document all utility conflicts and potential utility conflicts encountered during the performance of both design and construction work.

14.5.4 Protection of Utilities

The DBT shall take all necessary precautions to prevent disturbance to utility facilities and coordinate project design and construction with utility adjustments.

The DBT shall perform work in a manner that will cause the least reasonable inconvenience to the utility owner and those being served by the utility. Existing, adjusted or new utilities that are to remain within the right-of-way of the project shall be properly protected by the DBT to prevent disturbance or damage resulting from project construction operations. If the DBT encounters a previously unknown utility that requires adjustment, the DBT shall not interfere with the utility, but shall take the proper precautions to protect the utility or take appropriate actions, per Contract Documents, to coordinate the adjustment of that facility.

14.6 Utility Relocations

The DBT shall coordinate and resolve all utility conflicts with the affected utility owner at no additional cost to the County.

14.7 Utility Betterments

The cost of any ineligible, unnecessary or betterment to the utility facility will be the responsibility of the utility owner and not the DBT. Determination of eligibility shall be coordinated through the County. Payment for betterment or ineligibility costs shall be made by the appropriate owner through the County.

14.8 Subsurface Utilities Engineering (SUE): X Yes No

If marked yes, the DBT will use a state approved subsurface utilities engineering location service to field verify all underground utilities prior to the beginning of any design work and will incorporate the results in the design.

DBT will have the SUE perform the following minimum Quality Levels: C

The DBT shall Determine if Quality Level A SUE is required for their design.

15 DESIGN AND CONSTRUCTION REQUIREMENTS: MAINTENANCE OF TRAFFIC (MOT)

Maintenance of Traffic (MOT) Special Provisions in addition to the Governing Regulations listed in Section 10.1 of this document.

15.1 General: All temporary MOT devices shall comply with the National Cooperative Highway Research Program (NCHRP) 350 Hardware report.

15.2 MOT Restrictions:

Minimum number of lanes in each direction to remain open during construction: N/A

Minimum lane width: N/A

Maximum duration of detour: Refer to the Table at the end of Section 8.

Restrictions on lane closures during special events (sports events, fairs, concerts, etc.): N/A

Restrictions related to hospitals, fire and police, schools, etc.: N/A

15.3 Additional Description of Required Work and special provisions:

The detour route for this project will be determined by the County, with input from the DBT.

- Closure of the roadway will not be permitted prior to approval of the Final Plans.
- The DBT will inform the Perry County Engineer's Office a minimum of twenty-one (21) calendar days prior to the beginning of work and/or road closure. The County will notify the affected local school(s) and emergency services prior to the start of construction activities. The contractor will also confirm with the County 24 hours prior to any and all closures.
- The contractor will furnish, erect, and maintain, and subsequently remove all flags, barricades, signs, and sign supports and maintain all flaggers, watchers, and incidentals related thereto.
- Payment for all items required by the OMUTCD, the Standard Construction Drawings, the Construction and Material Specifications, the proposal, and this Scope of Services will be included in the Lump Sum payment for Item 614, Maintaining Traffic and will include all labor, materials, equipment, fuels, lubricating oils, software, hardware and incidentals to perform the required work.
- Any fill placed within the area of a special flood hazard area shall result in no net loss of natural floodplain storage. The volume of loss floodwater storage due to the filling in a special flood hazard area shall be offset by providing an equal volume of flood storage by excavation or other compensatory measures at or adjacent to the bridge site.
- The DBT shall notify the Perry County Engineer 24 hours prior to closure and opening of the Bridge so that the Perry County Engineer can notify the public and local safety forces.

16 DESIGN AND CONSTRUCTION REQUIREMENTS: LOCATION & DESIGN

Location & Design Special Provisions in addition to the Governing Regulations listed in section 10.1 of this document:

16.1 Survey

A. Survey Responsibilities: The DBT survey crews shall provide the following survey information, listed below:

1. Centerline control and benchmarks
2. Beginning and ending centerline points for the project
3. At least two benchmarks for the project

All survey data shall be provided to the County and submitted in AutoCAD using ODOT's standards.

Monumentation shall not be disturbed. If the Contractor does disturb the monumentation, then it shall be replaced, in-kind, by a Registered Surveyor, with a current registration, recognized by the Ohio State Board of Registration for Professional Engineers and Surveyors. Costs associated for this item shall be borne by the Contractor. Copies of all monumentation changes shall be forwarded to the District Real Estate Administrator.

The DBT shall provide the following items prior to final acceptance of the Record-Drawing plans:

1. Copies of all field notes (written or electronic) which shall include the following information:
 - A. Date
 - B. Crew Members
 - C. Weather conditions, including temperature, barometric pressure, etc.
 - D. Instrument(s) used (Serial Number(s))
 - E. Raw observation field data
 - F. Other notes as needed
2. Copies of all Deeds, Plats, Maps and other written evidence used to establish points related to the project including summaries of all parole evidence acquired as a part of the survey operations.
3. Listing of all found monumentation (Horizontal and Vertical).
4. Listing of all monumentation set as part of the project (Horizontal and Vertical) including reference ties for recovery.
5. All monumentation shall be located utilizing NAD 83 (Horizontal Data), and NAVD 88 (Vertical Data).
6. Short report indicating adjustment factors and methods, signed and certified by a Registered Surveyor (State of Ohio). The Registered Surveyor (State of Ohio) shall include in the report the datum used and all associated adjustments used.

16.2 Vertical and Horizontal Alignment:

The vertical and horizontal alignment for Toll Gate Road shall remain within the work limits and the existing right-of-way.

Horizontal alignments shall be maintained as close to the existing conditions as possible. Any adjustments to the horizontal alignments must be approved by Perry County.

Any modifications by the DBT to the Vertical alignment shall be performed with the following restrictions:

- A. Work limits as shown will not be exceeded.
- B. The low structure elevation shall be equal to or higher than the existing low structure elevation and shall be determined by the hydraulic analysis study.
- C. All requirements of the ODOT Location and Design Manual shall be met.

16.3 Pavement:

All existing pavement within the limits of the final proposed profile shall be removed and replaced on the final proposed roadway and shoulder widths and the following cross-sectional buildup:

- Item 441- 1.50" Asphalt Concrete Surface Course, Type 1, (448), PG64-22
- Item 301- 3.00" Asphalt Concrete Base, PG64-22, (449)
- Item 407- Non-Tracking Tack Coat
- Item 304- 8.00" Aggregate Base

Bridge	Proposed Plan-Profile Limits
PER-CR25-2.00	Sta. 8+50.00 to Sta. 11+50.00

16.4 Roadway:

PER-CR25-2.00

Traveled Way Width: Tapers from existing to 12'-0" each side.

Pavement taper rates shall taper from existing to the proposed bridge structure over a minimum distance of 75'.

Roadside barrier shall be provided on all approaches to the proposed structure, regardless of the average daily traffic (ADT). Where guardrail is used as the roadside barrier, the guardrail design guidelines set forth in the Location and Design Manual shall be supplemented with the following directives:

1. The minimum length of guardrail shall be determined by the L&D manual and not less than the existing guardrail.
2. Guardrail end treatments shall be determined by the L&D manual and the only acceptable end treatments shall be Type A and Type T.
3. The minimum distance from face of guardrail to face of guardrail is equal to the width of the traveled way plus four feet, not to exceed the distance from face to face of barrier on the proposed structure.

16.5 Drainage: Yes: X ; No: .

Roadside drainage, including all side roadway ditches, shall provide positive drainage flow to an acceptable outlet as determined by the Perry County Engineer.

Any adjustments to the existing drainage system or installation of new drainage structures shall meet the requirements of the Location and Design Manual and shall be approved by the Perry County Engineer.

16.6 Design Exceptions:

N/A

16.7 Interchange Modification/Justifications Studies:

N/A

16.8 Landscape: Yes ____ ; No X.

16.9 Right-of-Way Fencing: Yes ____ ; No X.

17 DESIGN AND CONSTRUCTION REQUIREMENTS: STRUCTURES

17.1 Existing Structures Identification:

Bridge No.: PER-CR25-2.00 over Rush Creek

Structure File No.: 6430899

17.2 Design and Construction Requirements of Structure PER-CR25-2.00 in addition to the Governing Regulations listed in section 10.1 of this document:

Existing Structure Data

Length: 32'-0"

Width (o/o): 27'-0"

Design Loading: Unknown

Type: Simply Supported Steel Beam

Spans: 1

Date Built: 1969

Proposed Alignment & Profile

Alignment: Existing X ; Relocated ____ ; By Perry County ____ ; By DBT X

Profile: Existing ____ ; Relocated X ; By Perry County ____ ; By DBT X

Proposed Transverse Sections

Roadway Width: 24' face to face railing.

Railing: Type See below Height ____.

Fence: Yes ____ No ____ Height/Configuration N/A.

Sidewalks: Yes ____ No X Width ____.

17.3 Additional Description of Required Work and Special Provisions:

- Structural design shall conform to the AASHTO LRFD Bridge Design Specifications, 8th Edition. The design loading of the bridge shall be:
- HL-93 and a Future Wearing Surface of 35 psf
- With the Stage 3 submittal, the DBT Consultant shall provide a completed (Sealed) load rating report for the proposed bridge in accordance with the requirements of section 900, including future wearing surface, of the ODOT BDM. See Attachment D for the load rating scope.
- All Shop Drawings shall comply with Item 501.
- The County is providing Geotechnical Investigation information as shown in Attachment F.
Note: Collection of **additional** soils information shall be the responsibility of the DBT and considered incidental to this design effort.

PER-CR25-2.00 over Rush Creek:

The DBT shall determine the appropriate span length for the design and preparation of the detail construction plans for the proposed structure. Construct the Proposed Structure with the following criteria:

1. Remove the existing bridge's superstructure and decking as required by the ODOT Construction and Material Specifications.
2. Construct the Proposed superstructure and substructure with the following span arrangement criteria:
 - (a) The proposed structure shall be a single span bridge.
 - (b) The proposed structure shall not incorporate approach slabs in the design/construction.
 - (c) Proposed work shall not be done below the OHWM.
 - (d) The proposed structure's low chord elevation shall be greater than or equal to the existing structure's low chord elevation and shall be determined by the Hydraulic Analysis Study.
 - (e) No portion of the existing structure shall be incorporated into the proposed structure.
3. Additional Description of Required Work and Special Provisions:
 - (a) Superstructure
 - The proposed structure shall be a single span bridge incorporating either pre-stressed concrete box beams or rolled steel I-beams (all structural steel being hot dip galvanized per ASTM A123), with an asphalt wearing surface. No other structure type shall be permitted.
 - Bridge railing shall be Twin Steel Tube Rail (TST-1-99) in accordance with ODOT Standard Drawing TST-1-99. All (4) four corners of the bridge will have Type 1 MGS Bridge Terminal Assemblies installed. Stainless steel drip strip in accordance with ODOT Standard Drawings DS-1-92 shall be used with TST-1-99 railing where required.
 - (b) Substructure
 - The proposed abutments shall be constructed behind the existing abutments (to remain in place). Proposed abutments shall be on piles or drilled shafts.
 - All reinforcing steel in the substructure shall be epoxy coated.
 - Wingwalls shall be constructed as required and shall remain within the existing right-of-way. If required, these walls will be cast-in-place reinforced concrete type.
 - Provide rock channel protection per the requirements of section 1107 of Volume 2 of the Location & Design Manual. The limits of rock channel protection shall not extend below the OHWM.

17.4 Noise Barrier:

N/A

18 DESIGN AND CONSTRUCTION REQUIREMENTS: TRAFFIC CONTROL

18.1 Pavement Markings and Delineators Special Provisions in addition to the Governing Regulations listed in section 10.1 of this document:

A. Pavement Marking Requirements and Locations: Yes X ; No ____

Existing pavement markings shall be documented prior to construction. Any markings removed/obliterated during construction shall be re-striped to match pre-construction activities, within the project limits from STA 8+50.00 to STA 11+50.00.

B. Raised Pavement Markers Requirements and Locations:

N/A

C. Delineators: Yes ____ ; No X.

All flexible delineators shall conform to Item 620 and shall be placed in accordance with current design standards. Confirmation that no conflicts exist between the proposed locations of delineators and any underground utilities shall be made prior to the installation of the delineators.

D. Barrier Reflectors: Yes ____ ; No X.

All barrier reflectors shall conform to Item 626 and shall be placed on bridge parapets, concrete barrier walls, retaining walls and guardrail, in accordance with current design standards. Guardrail block-out reflectors shall be installed on the side of the block-out away from traffic.

E. Object Markers: Yes ____ ; No X.

All object markers shall conform to Item 630, Sign, Flat Sheet.

18.2 Signing Special Provisions in addition to the Governing Regulations listed in section 10.1 of this document:

Unless noted otherwise, all signing on this project is only to be removed and stored if necessary to perform the work required and is to be re-erected once work is complete. Any removed signage that is not re-erected shall be returned to the County.

18.3 Lighting Special Provisions:

N/A

18.4 Traffic Signals Special Provisions:

N/A

18.5 Intelligent Transportation Systems (ITS):

N/A

19 PROJECT SCHEDULE REQUIREMENTS

The current edition of ODOT Proposal Note 105 shall be met or exceeded.

20 PLAN SUBMITTALS AND REVIEW REQUIREMENTS

20.1 Plan Components: All plans submitted by the DBT shall be in conformance with the following ODOT manuals:

1. Bridge Design Manual
2. Location and Design Manual, Volume 3.

The following sections of the Location and Design Manual, Volume 3 are **NOT** required:

1310.3 Earthwork and Seeding Quantities

Units of measure are **NOT** required.

Simplified plans (section 1301.2) are **NOT** allowed.

20.2 Quality Control: The DBT will be responsible for the professional quality, technical accuracy and adherence to the Governing Regulations listed in section 10.1 of this document, for all plan submittals required under this contract.

The DBT shall immediately notify Perry County of any apparent discrepancy between the various design and construction manuals and the Conceptual Documents.

Unless stated otherwise, review comments do not revise the scope or intent of the project and do not constitute a request for changes beyond the current contracted Scope of Services. In the event Perry County determines that any required submission is incomplete, contains inaccuracies which preclude a meaningful review, or does not adhere to the Governing Regulations listed in section 10.1 of this document, Perry County will advise the DBT of the shortcomings and direct the DBT to revise and resubmit the plan. No time extension will be granted as a result of such action. Perry County will schedule a review meeting or issue review comments as appropriate.

In the event the DBT believes that any review comment, or orders issued by Perry County, require a change to the scope of the agreed work, the DBT shall first contact Perry County for clarification and shall, within 10 days of receipt of the comments or orders, provide written notice to the Perry County Project Manager / Project Engineer concerning the reasons why the DBT believes the scope has been changed.

20.3 Stage 1 Plan Review Submission: The DBT shall submit the Stage1 detailed design plan submissions as per ODOT Location & Design Manual, Volume 3 for review by Perry County and ODOT (D-5). These submission milestones must be shown on the Progress Schedule.

Submittal	Adjusted Review Time
Perry County	15 days
ODOT (D-5)	30 days
Each Utility	15 days

Following this review, the DBT shall correct any errors, incorporate modifications, perform required investigations and make related changes to the plans and supporting documents prior to submitting the plans for final review.

Plan Review Distribution Table: The DBT shall supply half size (11" x 17") paper prints simultaneously to the parties indicated below, except that **each affected utility company shall receive one full size (22" x 34") plans.**

Entity	Number of specified Plan Sets
Perry County Project Manager/Engineer	2 sets
ODOT (D-5)	2 sets
Each affected utility	2 sets

- 20.4 Major Design Decision:** Separate submittals for concurrence with major design decisions made after the Stage 1 Review are required. Major design decisions involve significant utility relocation, unforeseen acquisition of ROW, traffic operation or geometric decisions that involve two or more viable solutions, and any other decision that impacts the public operation of the facility or future maintenance.

When the DBT becomes aware of additional decisions during the design, they must advise the Perry County Project Manager/Engineer in writing.

- 20.5 Stage 3 Plan Review Submission:** For each Buildable Unit the Consultant shall submit Stage 3 detailed design plans as per ODOT Location & Design Manual, Volume 3 for review by Perry County and ODOT (D-5). All submissions must be shown on the required Progress Schedule.

This review time must be shown on the required Progress Schedule.

Submittal	Adjusted Review Time
Perry County	15 days
ODOT (D-5)	30 days
Each Utility	15 days

Following the review, Perry County and ODOT (D-5) will return to the DBT marked plans noted 'ACCEPTED', 'ACCEPTED AS NOTED' or 'NOT ACCEPTED' as described in section 105.02 of the ODOT Construction and Material Specifications. The DBT shall correct errors, incorporate changes, perform investigations and make related changes to the plans and supporting documents prior to submitting construction plans.

Plan Review Distribution Table: The DBT shall supply half size (11' x 17") paper prints simultaneously to the parties indicated below except **that each affected utility company shall receive one full size (22" x 34") plans:**

Entity	Number of specified Plan Sets
Perry County Project Manager/Engineer	2 sets
ODOT (D-5)	2 sets
Each affected utility	2 sets

20.6 Construction Plans:

After the review comments for the final plan review submission have been complied with, and following approval of the design documentation, the DBT shall prepare plan sets for use during construction. All review comments shall be resolved in writing by the DBT to the satisfaction of Perry County and ODOT (D-5) before the DBT submits the construction plans. Each plan sheet shall have its last revised date noted on the sheet and clearly marked 'Approved for Construction'. The 'Approved for Construction' plan set shall be signed, dated and sealed by a Professional Engineer. Physical construction shall not begin until the plans marked 'Approved for Construction' are delivered to each party on the Plan Distribution Table below. No time extensions will be approved by the Perry County Engineer if the plan distribution is not completed and project delays occur as a result.

Plans Distribution Table: The DBT shall supply full size (22" x 34") and/or half size (11" x 17") paper prints of each plan submission simultaneously to the parties indicated below:

Entity	# of Full Sets	# of Half Sets
Perry County Project Manager/Engineer	1 set	2 sets
ODOT (D-5)	1 set	2 sets
Each affected utility	1 set	2 sets

20.7 Plan Distribution Addresses:

County Project Manager/Engineer's Office (address and contact person)

Mr. Clayton McCoy, P.E., P.S.
2645 Old Somerset Road, New Lexington, Ohio, 43764

Utility Companies
(As shown in section 14)

21 BUILDABLE UNITS (BUs)

Definition: Buildable Units are portions of the project which can be designed, reviewed and built with only limited controls and assumptions coming from the design of the other portions of the project. Often a Buildable Unit will be defined by a geographic area within the plan, but it may also be defined by types of work or construction stages which may require a permit similar, nearby work to be divided into separate Buildable Units. All Buildable Units shall summarize the materials required to construct that portion of the project. The summary shall include the ODOT

Construction and Material Specifications Item Number, and a description of the materials to be used.

General: For the Stage 1 and Stage 3 submittals, the DBT may break the project work into two or more separate BU which can be progressed through design and construction with minimal or known effect on each other and/or which can be dealt with sequentially such that sufficient data is available for design and review of each BU. In order that the design and construction of one BU may proceed without significant approved information from an associated BU, the DBT may develop and propose assumptions which will allow for the first BU to proceed through design and/or construction. These assumptions shall be submitted for review and comment but their accuracy and effort upon the final design are the sole responsibility of the DBT. Should error in these assumptions result in additional work, remedial work or other changes to assure an acceptable design or should the result in the need to remove work and substitute additional work, the Contractor shall be responsible of all such costs including, removal of unacceptable materials from the site, modification, additional work, repairs, etc. as necessary to produce an acceptable result.

If the DBT elects to develop Buildable Units, the DBT shall prepare, for review by Perry County, a table of Buildable Units for the project with each BU described in detail. If the table is approved, the DBT shall modify the Progress Schedule to show a separate group of activities for BU and these activities shall encompass all the design and construction work in each BU. Work activities shall be further separated in the Progress Schedule to show a meaningful completion status (i.e. separate activities comprising the placement of a bridge deck on steel beams shall describe; shoring, form building, steel placement, placement of conduit & joints, pouring concrete, forming parapets, pouring or slip forming parapets, provision of membranes, provision of wearing surfaces, curing, repair, form removal, cleaning, etc.).

The Final Review Submission and construction plans shall specifically be identified by the Buildable Unit code. If the design of a BU requires input information from an adjacent or related BU, the source for that information in previously approved plans shall be cited or the DBT shall provide an estimated value of the data. The input data shall also be carefully identified. In the same way any assumption, calculations or results from the stage and BU which are used as input to another BU shall be similarly identified, and where appropriate, compared back to that BU to verify previous assumptions. Should assumptions not match values calculated later, the DBT shall re-analyze all affected components and determine appropriate changes. Should those elements have already been constructed, the DBT shall recommend repairs, adjustments, modifications or replacement of the existing work as necessary to comply with the Scope of Work. All costs for re-design, re-submissions, modifications, removals, disposal of materials and new work needed to remedy the project and bring it to compliance shall be borne by the Contractor and no time extensions shall be approved for this.

INDEX OF ATTACHMENTS

ATTACHMENT A	Plan Sheet Construction Limits
ATTACHMENT B	Asbestos Survey of PER-CR25-2.00
ATTACHMENT C	Existing Bridge BM-191 Form
ATTACHMENT D	Load Rating Scope for PER-CR25-2.00
ATTACHMENT E	Hydraulic Analysis Report
ATTACHMENT F	Geotechnical Report

ATTACHMENT A
PLAN SHEET CONSTRUCTION LIMITS



ATTACHMENT B

ABESTOS SURVEY OF PER-CR25-2.00

SPECIAL PROVISIONS

ASBESTOS SURVEY REPORT

C-R-S: PER-CR 25-2.00

PID: 117332

DATE: 08/04/2022

Asbestos Survey Report

PID 117332– PER-CR25-2.00 – SFN 430899

A survey for asbestos on bridge structure file number 430899 which spans Center Branch Rush Creek and carries County Road 25 in Perry County, Ohio was conducted on August 4, 2022. The survey was conducted to identify the presence of asbestos-containing building material (ACBM) on the structure and was conducted in anticipation of the planned removal and replacement of the structure. The inspection was conducted in accordance with NESHAP Guidelines, EPA Regulation 40 CFR, Subpart M, part 61. All accessible areas of the PER-CR 25-2.00 bridge structure were inspected for the presence of suspected ACM's. A site location map and bridge information summary are attached.

Asbestos Survey

As a result of the survey no ACBM were identified on the structure. Demolition was approved to proceed without any need for abatement. The required Ohio Environmental Protection Agency notification form for demolition with the pertinent information has been completed.

The purpose of this survey was to conduct a National Emissions Standard for Hazardous Air Pollutants asbestos survey of a 32' long 27' wide steel beam bridge with bituminous wearing surface prior to demolition. The asbestos inspection consisted of a visual inspection of the structure.

This survey was limited to observation, sampling, and analysis of potentially suspect ACBM building material in accessible portions of the structure; however, common construction techniques render portions of any structure inaccessible. As a result, additional ACBM may be present in inaccessible areas of the structure that were not observed during the survey, therefore, while this Asbestos Survey was deemed thorough and conducted in accordance with industry standards; it is possible hidden ACBM may be present.

Asbestos Survey Summary

As a result of this survey no ACBM were identified on the structure. The entire structure was inspected and no utility access points were observed.

The asbestos inspection was completed by Benjamin Boyer certification number ES543810 expiration date 02/26/2023.



Notification of Demolition and Renovation/Abatement

Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, **including payment**, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at epa.ohio.gov/asbestos. This form can be completed, and payment made, at ebiz.epa.ohio.gov. Questions? asbestos@epa.ohio.gov or (614) 466-0061.

Ohio EPA Use Only	Notification #:	Postmarked: / /	Received: / /	<input type="checkbox"/> Hand-Delivered
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1) Notification Information (Check all that apply)

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Revision # (count):	<input type="checkbox"/> Installation	<input type="checkbox"/> Emergency	<input type="checkbox"/> Annual	<input type="checkbox"/> Cancellation	Project County: Perry
<input type="checkbox"/> NESHAP Residential Exemption						

2) Owner, Asbestos Abatement Contractor, Billing and Fire Department Information

Revised? ☐

Owner		
Name: Perry County Engineer		Is this a company? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Address: 2645 Old Somerset Road		Contact Person: Kenton C. Cannon P.E., P.S.
City: New Lexington	State: Ohio	Zip: 43764
Email: pce-cannon@sbcglobal.net	Phone: (740) 342-2191	Fax: ()
Asbestos Abatement Contractor (if applicable)		
Name:	License #: AC	Expiration Date: / /
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: () -	Fax: () -
Billing Contact (Entity paying for original notification)		
Is this contact associated with the <input type="checkbox"/> Owner, <input type="checkbox"/> Asbestos Abatement Contractor, or <input type="checkbox"/> Demolition Contractor (if not installation)?		
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: () -	Fax: () -
Fire Department (if applicable)		
Name:		
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: () -	Fax: () -

3) Ohio Asbestos Hazard Evaluation Specialist and Evaluation Procedure

Revised? ☐

Evaluation Specialist: Benjamin Boyer	Certification #: ES 543810	Expiration Date: 02 / 26 / 2023
Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of regulated asbestos-containing material (RACM) and Category I and Category II non-friable asbestos-containing material: <input type="checkbox"/> PLM <input type="checkbox"/> Point Count <input type="checkbox"/> TEM <input checked="" type="checkbox"/> Other Method (Explain Below):		
A visual inspection on August 4, 2022, found no suspect ACM and no bulk samples were collected.		

4) Procedures to be followed should unexpected RACM be discovered (check all that apply)

Revised? ☐

<input type="checkbox"/> Stop work and keep wet	<input type="checkbox"/> Evacuate area	<input type="checkbox"/> Demarcate area	<input type="checkbox"/> Contact licensed abatement contractor
<input type="checkbox"/> Contact district office/local air authority			
<input checked="" type="checkbox"/> Other (Explain): In the even RACM is found during demolition, work will be stopped and the ODOT District Environmental Coordinator will be contacted.			

5) Planned Demolition (check all that apply)

Revised? ☐

Describe demolition work to be performed and method(s) to be employed, including demolition techniques to be used:	
<input type="checkbox"/> Implosion <input type="checkbox"/> Fire Training <input type="checkbox"/> Wet Methods <input type="checkbox"/> Manual Demolition <input type="checkbox"/> Mechanical Demolition <input checked="" type="checkbox"/> Other (Explain):	
Replacement of deficient bridge using standard construction techniques. Equipment: trackhoes, saws, jackhammers.	
Description of affected facility components (include attachment if necessary):	

Mail completed form and payment to:
Ohio EPA, DAPC – Asbestos
P.O. Box 1049, Columbus, OH 43216-1049

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued

6) Asbestos Description and Engineering Controls (if asbestos is being abated)

Revised? ☐

For the material listed in each project, describe the type(s) of ACM to be abated, engineering controls and work practices to be used to minimize emissions and ensure proper waste handling:

Type of ACM to be abated:	<input type="checkbox"/> Surfacing	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Other		
Engineering Controls:	<input type="checkbox"/> Wet Methods	<input type="checkbox"/> Glove Bag	<input type="checkbox"/> NPE	<input type="checkbox"/> AFD	<input type="checkbox"/> Other:
Work Practices:	<input type="checkbox"/> Intact Removal	<input type="checkbox"/> Manual	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Other:	

7) Asbestos Waste Transporter (if applicable)

Revised? ☐

Transporter #1 Name:		
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: () -	Fax: () -
Transporter #2 Name (if applicable):		
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: () -	Fax: () -

8) Asbestos Waste Disposal Site (if applicable)

Revised? ☐

Name:		
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: () -	Fax: () -

9) Emergency Demolition (complete if you checked "Emergency" above and "Demolition" for any project)

Revised? ☐

A copy of the issued order, including the following information, **must be attached** to this notification.

Government Official Issuing Order:	Title:
Agency:	Authority of Order (Citation of Code):
Date of Order: / /	Demolition Date: / /

10) Emergency Renovation/Abatement (complete if you checked "Emergency" above and "Renovation/Abatement" for any project)

Revised? ☐

Date of Emergency: / /	Time of Emergency: : <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
Description of Sudden, Unexpected Event:	
Explanation of how the event caused unsafe conditions or equipment damage:	

11) Attestation

Revised? ☐

In accordance with Ohio Administrative Code rule 3745-20-03(A)(4)(p), I certify that at least one person trained as required by paragraph (B) of rule 3745-20-04 of the Administrative Code will supervise the stripping and removal described by this notification. I acknowledge that the submission of false or misleading statements is prohibited by law and I certify that facts contained in this notification are true, accurate, and complete.

Signature:	Date: / /
Name:	Title:
Organization:	



Notification of Demolition and Renovation/Abatement

Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only Project ID #:

A. Facility Description

Revised? ☐

Building Name (if applicable): BRIDGE		Site Location (specific): 39.756394, -82.324147	
Address:			
City:	State: OH	Zip:	
Building Size (square feet):		No. of Floors:	Age: 30+ years
Present Use: Bridge		Prior Use:	

B. Type of Operation (check all that apply)

Revised? ☐

<input checked="" type="checkbox"/> Demolition	<input type="checkbox"/> Renovation/Abatement – Type: <input type="checkbox"/> Removal <input type="checkbox"/> Repair <input type="checkbox"/> Encapsulation <input type="checkbox"/> Enclosure
--	--

C. Asbestos Present (check one)

Revised? ☐

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> No, previously abated	Year Abated:
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D. Approximate Amount of Asbestos-Containing Materials (complete table below and Section 1 #6 if asbestos is present)

Revised? ☐

	Material to be Removed			Material NOT to be Removed	
	RACM	Non-friable Asbestos-Containing Material		Non-friable Asbestos-Containing Material	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface area on other facility components (ft²)					
Volume if length or area cannot be measured (ft³)					

E. Asbestos Abatement Schedule and Abatement Specialist (original notification is required 10 working days prior to the start of work)

Revised? ☐

Setup Date: / /		Abatement Date: / /		Complete Date: / /			
(Shift 1) Time start/end on site	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Abatement Specialist Name:		Certification #: AS				Expiration Date: / /	
(Shift 2) Time start/end on site	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Abatement Specialist Name:		Certification #: AS				Expiration Date: / /	

F. Demolition Contractor (if applicable)

Revised? ☐

Name:		
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: () -	Fax: () -

G. Demolition Schedule (original notification is required 10 working days prior to the start of work)

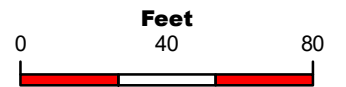
Revised? ☐

Start Date: / /	Complete Date: / /
-----------------	--------------------

H. Project Hold

Revised? ☐

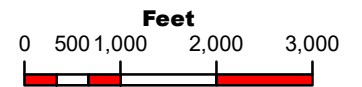
Asbestos Abatement Offsite/On Hold as of Date: / /	Asbestos Abatement On Site/Off Hold, Work Resume Date: / /
Demolition Offsite/On Hold as of Date: / /	Demolition On Site/Off Hold, Work Resume Date: / /



No NHDB Records
FEMA Flood Zone AE

**PER-CR 25-2.00
PID-117332**

2013 OSIP
Aerial Imagery



No NHDB Records
FEMA Flood Zone AE

PER-CR 25-2.00
PID-117332

Somerset 7.5'
Quadrangle Map

Ohio Department of Natural Resources

(203) Bridge (Dedicated) Name:			BRIDGE INVENTORY AND APPRAISAL			Report Date: 8/10/2022		
Structure File Number: 6430899			Inventory Bridge Number: PER C0025 02000					
Sufficiency Rating: 054.5 Deficiency Rating:			STREAM			Bridge Status: Active		
(2) District: 05		(3) County: 64-PERRY		(9) Location: 612 Ft North Of Tr 418		(7) Facility Carried: Toll Gate Road		
(4) FIPS Code: None		Owner:		(208) Route On Bridge: County		(207) Route Under Bridge: Non Highway Traffic On Bridge (I.E.		
(102) Direction of Traffic: 2 - 2-Way Traffic		(103) Temporary Structure:		(110) Designated National Network: Not National Network		(101) Parallel: N		
				(42A) Type Serv: (On): Highway		(42B) Type Serv (Under): Waterway		
INVENTORY ROUTE DATA								
(5A) Route On/Under: 1 - 1: Route Carried "On" The Structure				(45) Main Spans Number: 1		(43) Type: Steel		/Stringer/Multi-Beam Or Girder /Not Applicable
(5B) Hwy Sys: 4 - County Highway				(46) Approach Spans Nbr: 0		(44) Type: Other		/Other /Not Applicable
(5D) Route No: C0025 (5E) Dir: Not Applic (5C) Des: Mainline				(307) Total Spans: 1		(48) Max Span: 30.0 Ft		(49) Overall Leng: 32.0 Ft
(6) Feature Int: Stream				SUBSTRUCTURE				
(200) CL: 02000 (201)Spec Des: (209) Interstate Mile:				Abut-Rear (532) Matl: Steel		(531) Type: Capped Pile Bent		(533) Fnd: Unknown
(29) Avg. Daily Traffic(ADT): 100 (30) ADT Year: 2015				Abut-Fwd (527) Matl: Steel		(526) Type: Capped Pile Bent		(528) Fnd: Unknown
(235) Truck Traf: 0 (210) Corridor: (104) NHS: structure/route is not on nhs				Pier-Pred (535) Matl: None		(534) Type: None		(536) Fnd: None (Such As Most Culverts)
(26) Functional Class: rural - minor collector (100) Strahnt: Not A Strahnet Route				(663) Stream Velocity: 00000 fps		(113) Scour: Stable For Scour Conditions		
INTERSECTED ROUTE DATA				(92B) Underwater Inspection: N Freq: (655) Chan Prot: Other (Grass, Bushes, Trees)				
(370A) Record Type:				(370B) Hwy Sys:		(93B) Date of last Underwater Insp:		
(370D) Route No: (370E) Dir:				(370C) Des:		(657) Drainage Area: Sq Mi		
(373) Feature Int:				CLEARANCE UNDER THE BRIDGE				
(382) CL: 0000 (371) Interstate Mile:				(387) Special Desig:				
(379) Avg. Daily Traffic(ADT): 0				(380) ADT Year: 0				
(381) Truck Traf: 0 (384) Corridor:				(378) NHS: -				
(375) Functional Class:				(386) Strahnt:				
CLEARANCE ON THE BRIDGE				Min. Horiz Under Clear:				
Min. Hrizz on Bridge: (335) NC: Ft (47) Card: 26.0 Ft				(326) NC: Ft		(325) Card: Ft		
(53) Prac Max Vert On Brg: 99.0 Ft				(328) Prac Max Vrt Under Clear: Ft				
Min Vrt Clr On Brg: (336) NC: 0.0 Ft (10) Card: 99.0 Ft				Min Vert Under Clear:		(327) NC: Ft		(54) Card: 0.0 Ft
Min Latl Clr: (338) Right NC: Ft (337) Right Card: Ft				Min Lat Under Clear:		(329) Right NC: Ft		(55) Right Card: 0.0 Ft
(340) Left NC: Ft (339) Left Card: Ft				(330) Left NC: Ft		(56) Left Card: 0.0 Ft		
STRUCTURE INFORMATION				LOAD RATING INFORMATION			APPRAISAL	
(19) Bypass Length: 1.0 Miles				(31) Design Load: UNKNOWN			(71) Waterway Adequacy: 5 Somewhat better than minimum adequacy	
(16) Latitude: 39 Deg 45 Min 22.86 Sec (17) Longitude: 82 Deg 19 Min 26.82 Sec				(64) Opr Rat Fact/Ton: 9.999			(72) Approach Alignment: 5 Somewhat better than minimum adequacy	
(20) Toll: On Free Road				(66) Inv Rat Fact/Ton: 9.999			(67) Calc Str Appraisal: 4 - Meets minimum tolerable limits	
(263) Date Built: 7/1/1969 (264) Major Reconstruction Date: 7/1/2009				(734) Ohio Percent of Legal Load: 50			(68) Calc Deck Geometry: 6 - Equal to present minimum criteria	
(28A) No. Lanes On: 2 (28B)No. Lanes Under: 0				(704) Year of Rating: 2020 (708) Rate Soft: Assigned Rating (No			(69) Calc Underclearance: N - Not Applicable	
(301) Horiz Curve:				(34) Skew: 0 Deg				
(32) App. Rdw Width: 16 Ft (51) Brg. Rdw Width: 26.0 Ft				(63) Opr Rat Method: Field Evaluation And Documented Engineer				
(52) Deck Width: 27.0 Ft (424) Deck Area: 864 Sq. Ft				(65) Inv Rat Method: Field Evaluation And Documented Engineer				
(406) Median Type: None /Non Barrier /No Joint				Load Rater: (705) Kent (706) Cannon (707) PE#: 55125				
(33) Bridge Median: No Median				APPROACH INFORMATION				
Sidewalks: (50A) Left 0.0 Ft (50B) Right 0.0 Ft				(401) Approach Guardrail:			(402) Grade:	
Type Curb or Sidewalk:				(403) Approach Pavement:				
(427) Left Matl: None (428) Type: None				CULVERT INFORMATION				
(429) Right Matl: None (430) Type: None				(575) Culvert Type: Not A Culvert Or Rigid Frame			(578) Length: 0.0 Ft	
(35) Flared: 0 (408) Composite: U - Not Applicable				(580) Depth of Fill: 0.0 Ft			(582) Headwalls:	
GENERAL INFORMATION				(475) Main Member: Rolled Steel (477) Moment Plate:				
				(414) Expansion Joint: None				

ATTACHMENT C

EXISTING BRIDGE BM-191 FORM

(203) Bridge (Dedicated) Name:			BRIDGE INVENTORY AND APPRAISAL			Report Date: 9/15/2022		
Structure File Number: 6430899			Inventory Bridge Number: PER C0025 02000					
Sufficiency Rating: 054.5 Deficiency Rating:			STREAM			Bridge Status: Active		
(2) District: 05			(3) County: 64-PERRY			(9) Location: 612 Ft North Of Tr 418		
(4) FIPS Code: None			Owner:			(208) Route On Bridge: County		
(102) Direction of Traffic: 2 - 2-Way Traffic			(103) Temporary Structure:			(110) Designated National Network: Not National Network		
						(42A) Type Serv: (On): Highway		
						(42B) Type Serv (Under): Waterway		
INVENTORY ROUTE DATA			(45) Main Spans Number: 1			(43) Type: Steel		
(5A) Route On/Under: 1 - 1: Route Carried "On" The Structure			(46) Approach Spans Nbr: 0			(44) Type: Other		
(5B) Hwy Sys: 4 - County Highway			(307) Total Spans: 1			(48) Max Span: 30.0 Ft		
(5D) Route No: C0025 (5E) Dir: Not Applic (5C) Des: Mainline						(49) Overall Leng: 32.0 Ft		
(6) Feature Int: Stream			SUBSTRUCTURE					
(200) CL: 02000 (201)Spec Des: (209) Interstate Mile:			Abut-Rear (532) Matl: Steel			(531) Type: Capped Pile Bent		
(29) Avg. Daily Traffic(ADT): 100 (30) ADT Year: 2015						(533) Fnd: Unknown		
(235) Truck Traf: 0 (210) Corridor: (104) NHS: structure/route is not on nhs			Abut-Fwd (527) Matl: Steel			(526) Type: Capped Pile Bent		
(26) Functional Class: rural - minor collector (100) Strahnt: Not A Strahnet Route						(528) Fnd: Unknown		
INTERSECTED ROUTE DATA			Pier-Pred (535) Matl: None			(534) Type: None		
(370A) Record Type: (370B) Hwy Sys:			(663) Stream Velocity: 00000 fps			(536) Fnd: None (Such As Most Culverts)		
(370D) Route No: (370E) Dir: (370C) Des:			(92B) Underwater Inspection: N Freq: 0			(113) Scour: Stable For Scour Conditions		
(373) Feature Int:			(93B) Date of last Underwater Insp:			(655) Chan Prot: Other (Grass, Bushes, Trees)		
(382) CL: 0000 (371) Interstate Mile: (387) Special Desig:						(657) Drainage Area: Sq Mi		
(379) Avg. Daily Traffic(ADT): 0 (380) ADT Year: 0								
(381) Truck Traf: 0 (384) Corridor: (378) NHS: -								
(375) Functional Class: (386) Strahnt:								
CLEARANCE ON THE BRIDGE			CLEARANCE UNDER THE BRIDGE					
Min. Horiz on Bridge: (335) NC: Ft (47) Card: 26.0 Ft			Min. Horiz Under Clear:			(326) NC: Ft		
(53) Prac Max Vert On Brg: 99.0 Ft			(328) Prac Max Vrt Under Clear: Ft			(325) Card: Ft		
Min Vrt Clr On Brg: (336) NC: 0.0 Ft (10) Card: 99.0 Ft			Min Vert Under Clear:			(327) NC: Ft		
Min Latl Clr: (338) Right NC: Ft (337) Right Card: Ft			Min Lat Under Clear:			(54) Card: 0.0 Ft		
(340) Left NC: Ft (339) Left Card: Ft						(329) Right NC: Ft		
						(330) Left NC: Ft		
						(56) Left Card: 0.0 Ft		
STRUCTURE INFORMATION			LOAD RATING INFORMATION			APPRAISAL		
(19) Bypass Length: 1.0 Miles			(31) Design Load: UNKNOWN			(71) Waterway Adequacy: 5 Somewhat better than minimum adequacy		
(16) Latitude: 39 Deg 45 Min 22.86 Sec (17) Longitude: 82 Deg 19 Min 26.82 Sec			(64) Opr Rat Fact/Ton: 9.999			(72) Approach Alignment: 5 Somewhat better than minimum adequacy		
(20) Toll: On Free Road			(66) Inv Rat Fact/Ton: 9.999			(67) Calc Str Appraisal: 4 - Meets minimum tolerable limits		
(263) Date Built: 7/1/1969 (264) Major Reconstruction Date: 7/1/2009			(734) Ohio Percent of Legal Load: 50			(68) Calc Deck Geometry: 6 - Equal to present minimum criteria		
(28A) No. Lanes On: 2 (28B)No. Lanes Under: 0			(704) Year of Rating: 2020 (708) Rate Soft: Assigned Rating (No			(69) Calc Underclearance: N - Not Applicable		
(301) Horiz Curve: (34) Skew: 0 Deg			(63) Opr Rat Method: Field Evaluation And Documented Engineer					
(32) App. Rdw Width: 16 Ft (51) Brg. Rdw Width: 26.0 Ft			(65) Inv Rat Method: Field Evaluation And Documented Engineer					
(52) Deck Width: 27.0 Ft (424) Deck Area: 864 Sq. Ft			Load Rater: (705) Kent (706) Cannon (707) PE#: 55125					
(406) Median Type: None /Non Barrier /No Joint			APPROACH INFORMATION					
(33) Bridge Median: No Median			(401) Approach Guardrail:					
Sidewalks: (50A) Left 0.0 Ft (50B) Right 0.0 Ft			(403) Approach Pavement:			(402) Grade:		
Type Curb or Sidewalk:			CULVERT INFORMATION					
(427) Left Matl: None (428) Type: None			(575) Culvert Type: Not A Culvert Or Rigid Frame			(578) Length: 0.0 Ft		
(429) Right Matl: None (430) Type: None			(580) Depth of Fill: 0.0 Ft			(582) Headwalls:		
			GENERAL INFORMATION					
(35) Flared: 0 (408) Composite: U - Not Applicable			(475) Main Member: Rolled Steel			(477) Moment Plate:		
			(414) Expansion Joint: None					

ATTACHMENT D

LOAD RATING SCOPE FOR PER-CR25-2.00

LOAD RATING SCOPE FOR THE PROPOSED PER-CR25-2.00 BRIDGE

Scope:

As required by the contract documents, the DBT shall provide the necessary Professional Engineering services to load rate the proposed structure as per ODOT's BDM Section 900 utilizing the LRFR method, with inventory and operating ratings for the HL-93 loading and operating ratings for the Ohio legal loads.

Submission:

The DBT shall prepare and submit a letter report with a summary of the rating results, including an explanation of the members rated and assumptions used in the analysis and what software was used. The controlling element(s) shall be identified for each truck configuration. The report shall be stamped by an Ohio Professional Engineer and shall include a completed ODOT Bridge Load Rating Report Form BR100. The report shall be in 8-1/2" x 11" letter format.

A draft report shall be submitted to Perry County for review, as follows:

- 1 hard copy
- 1 electronic copy (pdf and Excel format)

Once the report is approved by the County, the final submission shall be as follows:

- 2 hard copies
- 1 electronic copy (pdf and Excel format)
- 1 electronic copy of the calculations related to the rating

The final approved Load Rating Report Submission shall be submitted to the County prior to the start of construction.

ATTACHMENT E
HYDRAULIC ANALYSIS REPORT

ATTACHMENT F
GEOTECHNICAL REPORT