

Columbia County State Route 4009 Pipe Lining Scope of Work

I-1. Statement of the Project.

The Pennsylvania Department of Transportation (PennDOT) is seeking an Offeror to repair a pipe culvert on SR 4009 through the installation of a High Density Polyethylene pipe culvert liner from a manufacturer listed in PENNDOT Publication 35 (Bulletin 15) Section 601.2(a)6.a and grouting from a manufacturer listed in PENNDOT Publication 35 (Bulletin 15) Section 220.2(d) of annular space between the existing pipe and liner pipe.

Existing Pipe: SR 4009 segment 10 Offset 0560 to segment 10 Offset 1325, excluding section segment 0010/0900 – 0010/1030.

- A.** Pipe 1: 235 linear feet of 18-inch existing corrugated steel culvert pipe;
- B.** Pipe 2: 117 linear feet of 18-inch existing corrugated steel culvert pipe;
- C.** Pipe 3: 166 linear feet of 24-inch existing corrugated steel culvert pipe; and
- D.** Pipe 4: 96 linear feet of 24-inch existing corrugated steel culvert pipe.

The Project Engineer will be known as the Project Manager.

- A.** The selected Offeror shall:
 - 1.** Determine the necessary diameter and liner thickness based upon depth, diameter, shape, traffic loading, groundwater pressures and condition for this pipe segment.
 - 2.** Ensure calculations are prepared and stamped by a professional engineer or manufacturers specifications.
 - 3.** Construct Access and working area(s) as necessary on the inlet and/or outlet side of the pipe sections.
 - 4.** Dewatering and flush pipe as necessary.
 - 5.** Install the liner.
 - 6.** Ensure that the annular space between the existing pipe and the liner pipe is completely filled with grout.
 - 7.** Re-establish access road and working area to pre-project conditions.
 - 8.** Remove any obstructions.
 - 9.** Replace existing pavement, curb and sidewalk, as needed, replacement should match existing material in thickness and type and sealed along joints.

Figure 1: General Site Location

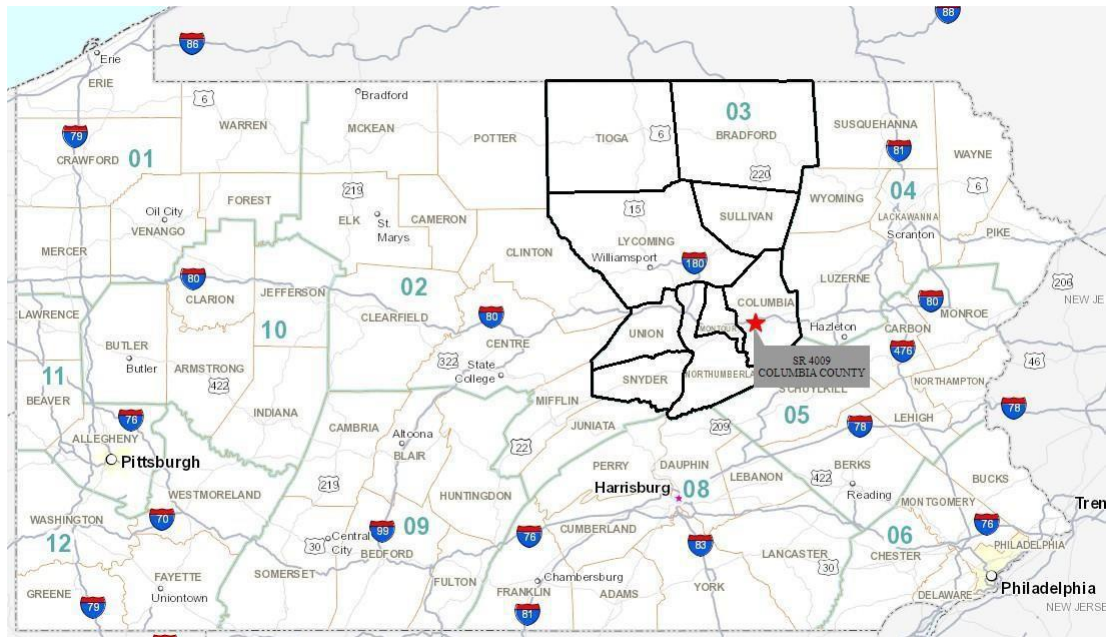
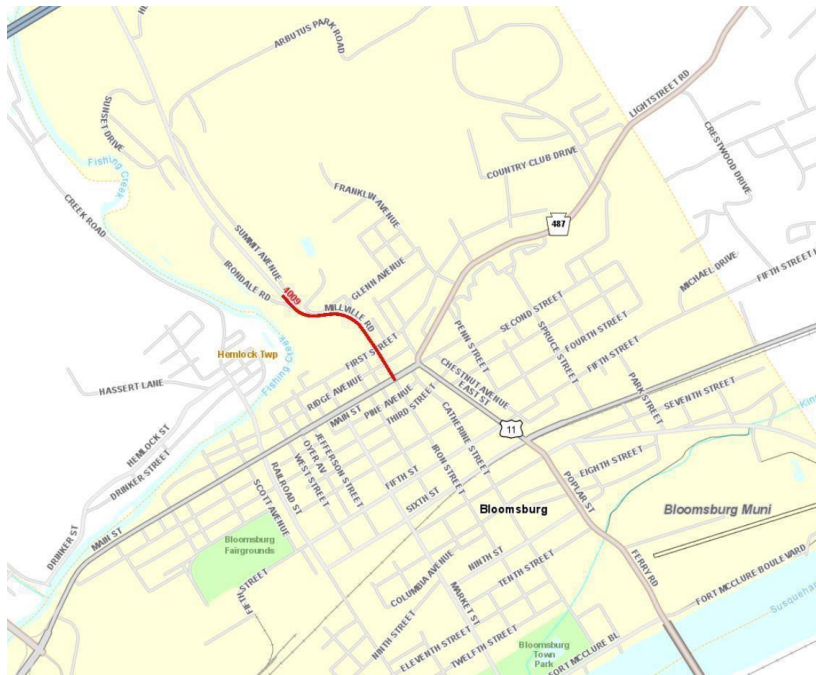


Figure 2: Project Location



B. Construction Items:

- 1. Mobilization:** This work is the assembly and set-up of the general plant required to comply with the contract and with local and State laws and regulations. General plant includes Contractor's offices, shops, plants, storage areas, and sanitary or other facilities. This work includes obtaining the required permits, insurance, bonds, and any other initial items required for the start of the work. This work is incidental to the project.
- 2. Installation of a High Density Polyethylene Pipe Culvert Liner:** This work is for slip lining existing 18 to 24 inch corrugated metal pipe and grouting of annular space between the existing pipe and liner pipe. The work, including but not limited to the following, are incidental to the pipe Linear Foot item: Determine the necessary diameter and liner thickness based upon depth, diameter, shape, traffic loading, groundwater pressures and condition for this pipe segment; Contractor shall conduct a site visit prior to bidding on the project to determine pipe lengths to be used in the lining process. Individual liner section lengths shall be a minimum of 6 feet but shall not exceed 20' unless pre-approved. This Linear Feet price shall be for cleaning existing pipe; for furnishing, hauling, installing liner pipe and placing grout; fusing connections as necessary, for all labor, tools equipment, materials, clean-up and incidentals.

Submit detailed shop drawings showing all dimensions of liner pipe, material list, bracing details, bulkhead details, grout port locations, grout flow control details, and complete construction sequencing to the Department Representative. Ensure calculations are prepared and stamped by a professional engineer or manufacturers specifications.

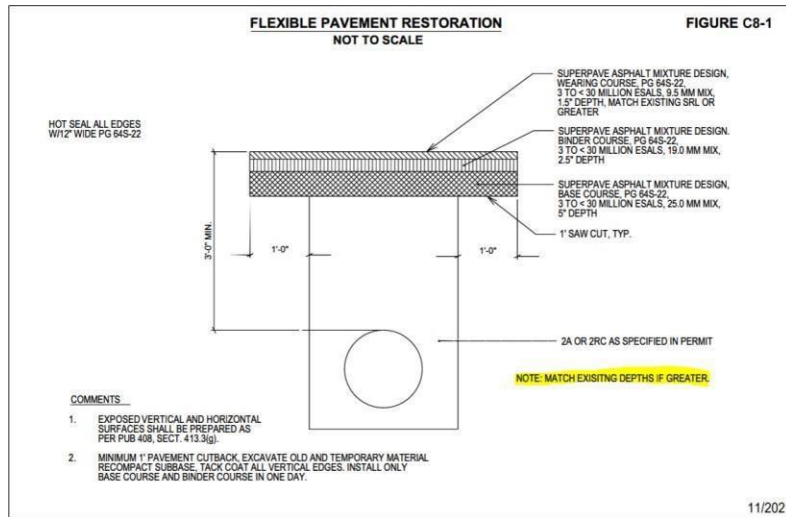
Construction schedule shall be submitted 3 weeks prior to starting work to allow time to coordinate with property owners. The Department will coordinate with affected property owners.

Prepare the existing pipe for the installation of the liner pipe by removing all sediment and objects or parts of the existing pipe that could damage the liner pipe during installation. PennDOT's Project Manager complete a final inspection and will notify the offeror if an internal inspection reveals an obstruction that cannot be removed by conventional cleaning equipment; and provide written guidance on how the obstruction will be resolved.

Install the liner pipe in accordance with approved shop drawings or manufacturers specifications. Maintain consistent spacing around the liner pipe using spacers or other acceptable devices. Ensure that the annular space between the existing pipe and the liner pipe is completely filled with grout. Patch holes and fill voids in and around existing pipe with material as required by PennDOT's Project Manager.

3. **Access, site preparation and restoration:** This work is constructing access as necessary to the pipe sections, constructing work area for pipe placement and site restoration.

Replace existing pavement, curb and sidewalk, as needed, replacement should match existing material in thickness and type and sealed along joints. Refer to Sidewalk and Curb standard RC64M and RC67M and use AAA concrete. For existing pavement replacement, refer to the flexible pavement restoration detail below.



4. **Maintenance and Protection of Traffic** —This work is the furnishing, installing, maintaining, and relocating of traffic control devices according to Publication 212, Publication 213, and the MUTCD. This work may include message boards as necessary, flagging and pilot car operation for guidance of traffic through the temporary traffic control zone and dust control. Traffic will need to be restored to 2 lanes at the end of each work day and weekends.

C. Construction Meeting. The Offeror shall send a representative to attend a construction meeting after the purchase order is issued. The time and location will be provided by PennDOT's Project Manager. The Offeror shall be prepared to discuss access, site preparation, proposed BMP's, Traffic Control and construction sequence at the meeting.

D. Flow Control. The selected Offeror shall, perform work with no flow or rainfall in the foreseeable future during work or curing processes.

E. Flowable Backfill, Type D. or Low-Density Cellular Concrete (LDCC)

1. **Work Included:** This work shall consist of batching, mixing, and placing LDCC of the appropriate density as indicated by the specifications or as directed by the engineer. A trained LDCC installer shall furnish labor, material, equipment, and supervision for the installation of the LDCC in accordance with the drawings and specifications.
2. Use skilled labor that is thoroughly trained, experienced, and familiar with the specified

requirements and the methods for proper performance of this work.

3. Foam Liquid Concentrate: Shall comply with the standard specifications of ASTM C 869 when tested in accordance with ASTM C 796.
4. Cement: The Portland cement shall comply with ASTM C 150. Other supplemental cementitious material such as fly ash may be used when approved by the project engineer. Supplementary cementitious materials should be tested prior to the start of the project for compatibility with the foaming agent.
5. Admixtures: Admixtures for accelerating, water reducing, and other specific properties may be used when specifically approved by the project engineer. Admixtures should be tested prior to the start of the project for compatibility with the foaming agent.
6. Water: Use water that is potable and free from deleterious amounts of alkali, acid, and organic materials, which would adversely affect the setting or strength of the LDCC.

EXECUTION

(1) SUBGRADE CONDITIONS

- (a) Examine the areas and conditions under which work of this section will be performed. Correct conditions that may be determined to be detrimental to timely and proper completion of the work. Do not proceed until satisfactory conditions are established.
- (b) The area to be filled shall not have any standing water in it prior to placement of LDCC.
- (c) Any items to be encased in LDCC shall be properly set and stable prior to the installation.

(2) WEATHER CONDITIONS

- (a) Avoid freezing before the initial set of LDCC occurs.
- (b) Do not place at temperatures lower than 32 degrees Fahrenheit or when freezing conditions are expected in less than 24 hours.
- (c) If these conditions cannot be met, consult PennDOT's Project Manager to determine precautions necessary to assure acceptable installation.

(3) MIXING AND CONVEYING

- (a) Use job site proportioning, mixing, and placing equipment approved by project engineer.
- (b) Mix the materials according to the mix design and convey promptly to point of final placement.
- (c) Avoid excess handling of LDCC according to industry standards.
- (d) Place LDCC in lifts not to exceed 48 inches in depth, unless otherwise approved by the PENNDOT project manager.
- (e) Use silt fabric around the LDCC if recommended by the engineer.

(4) TESTING

(a) WET DENSITY

- (i) During placement of the initial batches, check the density and adjust the mix as required to obtain the specified cast density at the point of placement per ASTM.
- (ii) Four (4) specimens shall be taken for each 100 cubic yards of LDCC or as recommended per the project engineer.

F. Service. This work will be completed in accordance with this statement of work to complete the installation, including but not limited to, labor, equipment, material, tools, excavation, cleaning, pipe liner,

liner reinforcement, fittings, seals, specified joint system, filling embankment voids, backfilling and restoration.

G. Final Inspection. In lieu of a final report, a final inspection will occur to determine completeness. The selected Offeror shall notify the Project Manager that the work has been successfully completed, and PennDOT's Project Manager, or designee, shall provide the date and time of the inspection. The selected Offeror's representative is required to attend this meeting. If other work is deemed necessary, a punch list will be established by the Project Manager that the Offeror will complete w/ project manager review and sign off on prior to invoice/billing final payment.

H. Special Invoice and Billing Instructions. Upon completion of the service, the selected Offeror will complete the attached Confirmation of Service form (OS-501) and compile a billable summary report containing all necessary information to prepare an invoice for the work completed. The OS-501 and the Billable Summary Report will be mailed to the Project Manager, or designee, in the county in which the work is being performed. The Project Manager, or designee, will confirm work performed as required at the final inspection and the call the vendor to correct any mistakes on billing.

The selected Offeror shall submit a commercial invoice to the address shown on the first page of the Purchase Order. The selected Offeror's invoice must include the date of service, a description of the work performed, and all other information as required by the Terms and Conditions including purchase order number, item numbers and unit prices.

I. General Requirements. The selected Offeror shall:

1. Furnish all personnel, materials and equipment of the type, condition and quantity necessary for the proper and productive execution of the contracted work;
2. Maintain all equipment in good condition, subject to acceptance by the PennDOT Project Manager, prior to and during use in connection with this contract;
3. Ensure all equipment and operators are in conformance with applicable PA Motor Vehicle laws and relevant federal regulations; and
4. Provide all fuel and other materials in connection with this contract.

J. Emergency Preparedness. To support continuity of operations during an emergency, including a pandemic, the Commonwealth needs a strategy for maintaining operations for an extended period of time. One part of this strategy is to ensure that essential contracts that provide critical business services to the Commonwealth have planned for such an emergency and put contingencies in place to provide needed goods and services.

K. Safety and Environmental Requirements. The selected Offeror shall be well-informed of the latest Department of Environmental Protection (DEP) safety and OSHA regulations when entering confined areas. When working in confined areas, the selected Offeror will ensure that all precautions are taken as required by these regulations. All traffic control, if needed, is the responsibility of the Offeror.

L. Strategic Environment Management Program (SEMP) Requirements. PennDOT has implemented a Strategic Environmental Management Program (SEMP). As part of this program, the Commonwealth has established a Green Plan Policy, which can be found at www.dot.state.pa.us by typing "SEMP" in the

search field, selecting the magnifying glass and selecting “Pollution Prevention”. The selected Offeror shall review the information found on this website.

The Green Plan Policy is designed to protect the environment, conserve resources and comply with environmental laws and regulations. The selected Offeror shall ensure that its personnel are aware of the Commonwealth’s commitment to protecting the environment, are properly trained about the environmental impacts of their work and are competent, through appropriate work experience, job training or classroom education, to perform the work outlined in the statement of work.

- M. Questions and Answers** Questions regarding this IFB or contracting procedures should be directed to Sandra Duke at sanduke@pa.gov. Bidder questions are due no later than 13:30 PM EST on Tuesday, April 21, 2026. Questions and answers will be posted, via an Addendum, by 13:30 PM EST on Friday, April 24, 2026.
- N. Bid Requirements** All Electronic Bids must be submitted at www.pasupplierportal.state.pa.us. The following forms shall be completed in their entirety and electronically attached to the bid submission:
- O. Executive Order 2021-06, Worker Protection and Investment Pursuant to Executive Order 2021-06**, Worker Protection and Investment (October 21, 2021), the Commonwealth is responsible for ensuring that every Pennsylvania worker has a safe and healthy work environment and the protections afforded them through labor laws. To that end, contractors and grantees of the Commonwealth must certify that they are in compliance with all applicable Pennsylvania state labor and workforce safety laws. Such certification shall be made through the Worker Protection and Investment Certification Form (BOP-2201) and submitted with the bid, proposal or quote.
- P. Method of Award** The award will be based upon the lowest cost of a responsible and responsive bidder. PennDOT reserves the right to reject the lowest bidder if PennDOT determines, at its sole discretion, that the bidder’s bid fails to meet the Bid Requirements.
- Q. Contract Term** The awarded bidder will be paid after submitting invoices. The anticipated term of the contract will be 1 year(s) with 0 renewals. The contract will commence on the effective date of the fully executed contract and be valid for 1 year(s) thereafter. The awarded bidder shall not commence the performance of any work prior to the Effective Date of the contract, and the Commonwealth shall not be liable to pay the selected bidder for any service or work performed or expenses incurred before the Effective Date of the contract. No work may begin or be reimbursed prior to the issuance of the notice to proceed. The awarded bidder will be paid after submitting invoices.
- R. Pictures and Video** Pictures will be attached in the Bid. A video showing more details is available upon request via email. Please send request for video to Sandra Duke at sanduke@pa.gov. Please have request for video to Sandra Duke no later than 13:30 PM EST on Tuesday, April 21, 2026