

CASE STUDY

► Aston, Pennsylvania Relocation Project

A small, complex stream relocation project in the natural gas & petroleum industry.

In early 2019, the Kiely Family of Companies was tasked with inspecting a pipeline anomaly discovered during a routine in-line pipeline inspection run. Upon further investigation in the field, the anomaly was found within a concrete encasement in an unnamed tributary flowing into the Marcus Hook Creek.

Part of the Kiely Family of Companies, Kiely Pipeline Integrity responds to client's unique requirements to deliver safe and reliable solutions to ensure the integrity and safety of pipeline infrastructures. Prior to project launch, Kiely assembled a team of engineering and construction professionals to deliver a design-build solution tailored to the client's needs.

Project Leads:	Russel Todd, Sandy Long
Contractor Value:	\$250,000
Start Date:	April 2019
Completion Date:	August 2019

Challenges

- Permitting
- Access / Limited Work Space
- Purge Plan
- Stream Restoration



Solution

The project team was tasked with surveying, permitting, and installing a new stream crossing to address the anomaly and the exposed pipe. A project manager was assigned as the single point of contact between Kiely and the client to enhance communication, enable faster project completion, reduce overall project cost, and offer unmatched accountability.

Kiely's engineering team members conducted a field survey to establish the existing alignment and stream conditions. After identifying all permitting requirements, engineering design drawings and permitting timelines were developed and permits were submitted to the required agencies for approvals. While numerous permits were going through the approval process, Kiely's construction team mobilized onsite in preparation for project start.

To execute the project in adherence to the defined plans, field team members installed timber mats through a residential yard to gain access to the stream. The crew also installed BMP's, consisting of silt fence and dewatering devices including a pump filter bag, straw bales, etc. A stream pump around was then conducted to begin excavation.

Final Project Details

The stream crossing and lowering included the installation of a 120', ARO coated, 8.625" diameter steel pipe. Kiely's team excavated the stream to allow a 48" minimum cover of the final install. Following fabrication, Kiely installed, radiographed and pressure tested the pipeline.

As the tie-in dates approached, Kiely provided the purge plan and field execution of the 6-mile pipeline purge. The existing line was then cut and the new pipe was tied in. Upon project completion, Kiely restored the stream and banks to its' pre-existing conditions. The project team performed all phases of the project from concept to completion, resulting in seamless integration between design, permitting and construction teams for economy, efficiency, and success.



This design-build project enabled our construction and engineering teams to collaborate as a single entity, providing a tailored solution optimized for cost and quality. With technical expertise and an innovative organizational structure, the Kiely Family of Companies provides customers with a unified business approach to complete projects on time, on budget, and on expectation.

For more details on this project, or how we can respond to your project's unique requirements, contact us.

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