

### SECTION 3: EXECUTIVE SUMMARY

The SR0130 Trafford Bridge, located in Trafford Borough, in Westmoreland County, carries SR0130 over Turtle Creek, the Norfolk Southern Railroad, Stewart Station Road, and a brownfield site. The existing bridge was 50 years old and in poor condition necessitating replacement- Mackin Engineering Company was selected by District 12 to provide preliminary and final design services. Numerous challenges were encountered in the design of the new bridge, including the brownfield site, an old 72" brick sewer, buried obstructions, components of the old foundry, as well as Turtle Creek and the Railroad. The nine span prestressed concrete bridge was designed as the best alternative which was able to economically address numerous site challenges and the needs of District 12. Single drilled shaft piers/caissons were utilized to minimize disturbance of the contaminated brownfield site. (The piers, considered mass concrete, were also determined to be the most economical). The project also included a new intersection, sidewalks, ADA ramps, and traffic signal.

Mackin, Mosites (contractor), and PennDOT worked closely with Trafford Borough to ensure that the project would fulfill their needs. The borough selected lighting, and architectural surface treatments. Pre-emption was provided for a new traffic signal, at their request. Borough officials offered their praise to all three during the ribbon cutting.

Mackin completely met District 12's expectations for the project. The following was stated by Troy Pritts, District 12 Project Manager. "The Mackin Design Team did a commendable job delivering the bid package for this complex viaduct replacement -Thank you."