

JAMES L. ROCHE, P.E.
Director of Construction Services

EDUCATION:

Pennsylvania State University – B.S. in Civil Engineering, 1983

PROFESSIONAL REGISTRATION:

Professional Engineer Registered in the Commonwealth of Pennsylvania

EMPLOYMENT HISTORY:

2007 – Present	Vision Engineering, Inc. Lititz, PA	Director of Construction Services
2000 – 2007	Carroll Engineering Corporation Warrington, PA	Department Manager - Construction
1985 – 2000	Pennsylvania Department of Transportation King of Prussia, PA	Assistant Construction Engineer
1983 – 1985	H&K Surveying/Engineering, Inc. Stevens, PA	Design Engineer

KEY QUALIFICATIONS:

Jim’s progressive experience over the past 26 years in overseeing bridge, highway and utility construction projects has provided an excellent backdrop in the construction observation and management field. He is a licensed professional engineer in the Commonwealth of Pennsylvania and has a wide variety of municipal infrastructure projects as highlighted below.

With H&K Surveying/Engineering, Jim was involved in the design and construction of several land development and municipal projects. Jim was involved in both the design and construction of an earth embankment dam for Stinson Run Reservoir for Birdsboro Borough and the construction of a new sanitary sewer system for Ephrata Township Sewer Authority. Jim was also a certified SEO in 1985 and performed several probe and percolation tests in addition to designing several on lot sewage systems.

With 15 years with the Pennsylvania Department of Transportation, Jim worked on several highway and bridge projects in the District 6-0 area (Bucks, Montgomery, Chester, Delaware and Philadelphia Counties). The projects are listed below. Jim worked on the projects first as an inspector and then as a Resident Engineer and then as the Assistant Construction Engineer for the City of Philadelphia. Jim has an in depth knowledge of project documentation, the CDS and ECMS programs, material testing and CPM scheduling.

At Carroll Engineering, Jim was the department manager for the construction inspection department. This position involved managing an inspection force of between 15 to 26 inspectors. In addition to the management of the inspection department, Jim also worked on several utility, bridge and highway construction projects that are listed below.

At Vision Engineering, Jim is involved as the director of construction services overseeing the 13 million dollar sewer construction project for the Bethel Township Municipal Authority. This project involves 8 separate contracts for a new sewer system in the Villages of Bethel and Frystown

with the construction of two new waste water treatment plants, two sewer collection lines and two pump stations.

VISION ENGINEERING EXPERIENCE:

- ***Bethel Township Municipal Authority***

In charge of the construction for the \$13 million project to construct a new sanitary sewer system. This construction project involves two collection lines (in excess of 30,000 lineal feet of gravity/force main sewer). The project involves construction of two new waste water treatment plants and two pump stations.

CARROLL ENGINEERING EXPERIENCE:

- ***Water and Sewer Authorities***

Resident Engineer for several water and sewer projects in various authorities in Bucks and Montgomery Counties. The projects involved water and sewer extension projects from new developments and upgrades to the existing water and sewer system in the township. The work involved inspection of gravity sewer, force main, ductile iron water main, pump stations and upgrades to the existing treatment plants. Carroll Engineering represented the following authorities:

- Bucks County Water and Sewer Authority (BCWSA)
- Horsham Water and Sewer Authority (HWSA)
- Warrington Water and Sewer Department
- North Wales Water Authority (NWWA)
- Lower Salford Township Authority (LSTA)
- Warwick Township Water and Sewer Authority

- ***Township Land Development Projects***

Resident Engineer for several land development projects in various townships in Montgomery, Chester and Bucks Counties. The projects involved new residential and commercial construction in the township. The work involved inspection of grading, soil erosion control, roadway, sidewalk, and storm sewers. Carroll Engineering represented the following townships:

- Warrington Township, Bucks County
- Newtown Township, Bucks County
- Middletown Township, Bucks County
- New Britain Township, Bucks County
- New Hope Borough, Bucks County
- Richland Township, Bucks County
- Phoenixville Borough, Chester County
- West Vincent Township, Chester County
- Abington Township, Montgomery County
- Cheltenham Township, Montgomery County
- Horsham Township, Montgomery County
- Upper Merion Township, Montgomery County

- ***Dresher Road Reconstruction, Penn DOT Project SR 9900-407***
Resident Engineer for the \$5.5 million reconstruction of Dresher Road from Horsham Road to Welsh Road. This project involved widening the road from two lanes to four, storm drainage and traffic signal improvements.
- ***Easton-Phillipsburg Toll Bridge, DRJTBC Contract T-420***
Resident Engineer for the \$1 million reconstruction of the Easton-Phillipsburg Toll Bridge which involved sidewalk replacement, structural steel repairs/replacements, and pedestrian railing replacement.
- ***New Hope Toll Supported Bridge, DRJTBC Contract TS-370E***
Resident Engineer for an emergency contract for fence installation and sidewalk repairs at the New Hope Toll Supported Bridge.
- ***Northampton Street Toll Supported Bridge, DRJTBC Contract TS-365A***
Resident Engineer for the \$1 million architectural and security lighting contract for the Northampton Street Toll Supported Bridge.
- ***Northampton Street Toll Supported Bridge, DRJTBC Contract TS-365***
Resident Engineer for the \$4 million reconstruction of the Northampton Street Toll Supported Bridge. The project involved structural steel repairs, sidewalk and railing replacement, and the repainting of the structural steel which involved 100% containment of the existing lead paint.

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION EXPERIENCE:

- ***City of Philadelphia FAM Projects***
Assistant Construction Engineer for Federal Aid Projects in the City of Philadelphia. Responsible for managing over \$25 million in federally funded highway and bridge construction projects in the City of Philadelphia. The projects included Strawberry Mansion Bridge, 26th Street Gateway Project, Allegheny Avenue Traffic Signals, Gowen Avenue Bridge over SEPTA, and Center City Signalization Improvement Project.
- ***Chester Avenue Bridge over SEPTA, Penn DOT Project SR 3023-01B***
Resident Engineer for the \$3.5 million reconstruction of the Chester Avenue Bridge over SEPTA. The project included complete replacement of bridge structure and reconstruction of the 49th St Station which included a six span structure for ADA compliance.
- ***Interstate 95 over Lehigh Avenue, Penn DOT Project SR 0095-PNH***
Resident Engineer for the \$2 million rehabilitation of the I-95 Bridge over Lehigh Avenue. The project involved replacement of the pins and hangers to the structural steel bridge while maintaining full traffic volume on I-95.
- ***Fire Damage Repair to Interstate 95, Penn DOT Project SR 0095-FIR***
Assistant Resident Engineer for the \$5 million emergency contract replacement of I-95 Bridge over Tioga St. This incentive/disincentive project was the result of the 1995 tire fire and involved the complete replacement of 3 spans of I-95 and it received much attention from the Philadelphia TV stations.

- ***Erie Avenue Bridge over Conrail, Penn DOT Project SR 1004-31M***
Assistant Resident Engineer for the \$1.5 million reconstruction of the Erie Avenue Bridge over Conrail. The project included replacement of a single span structural steel bridge with prestressed box beam bridge.
- ***Valley Green Road Bridge, Penn DOT Project SR 2030-36S***
Assistant Resident Engineer for the \$1 million reconstruction of the Valley Green Road Bridge over Sandy Run in Montgomery County. The project involved the replacement of an existing 5 span steel bridge with a one span prestressed concrete bridge.
- ***Richmond Street Bridge, Penn DOT Project SR 2001-25M***
Assistant Resident Engineer for the \$1 million reconstruction of the Richmond Street Bridge over Frankford Creek in Philadelphia. The project included the concrete bridge deck replacement and substructure repairs.
- ***City Line Avenue Bridge, Penn DOT Project SR 4006-15M***
Assistant Resident Engineer for the \$4.5 million reconstruction of the City Line Avenue Bridge over Schuylkill River. The project included concrete bridge deck replacement on the five span bridge with replacement of the structural steel pins and hangers.
- ***Grant Avenue, Philadelphia, Penn DOT Project SR 1018-M00***
Resident Engineer for the \$0.8 million reconstruction of Grant Avenue from Roosevelt Boulevard to Welsh Road. The project included 1.5 miles of bituminous concrete milling/paving and storm drainage improvements.
- ***Frankford Avenue, Penn DOT Project SR 2007-M00***
Resident Engineer for the \$0.6 million reconstruction of Frankford Avenue from Torresdale Avenue to Bridge Street. The project included 1.5 miles of bituminous milling and paving.
- ***Island Avenue, Penn DOT Project SR 3013-TK1***
Resident Engineer for the \$0.5 million reconstruction of Island Avenue from Woodland Avenue to Buist Avenue. The project included concrete base replacement, concrete trolley track pavement and bituminous concrete paving of 0.5 miles of Island Avenue.
- ***South Broad Street, Penn DOT Project SR 0291-M03***
Resident Engineer for the \$0.8 million reconstruction of South Broad Street from South Street to Oregon Avenue. The project included 2.5 miles of bituminous milling and paving.
- ***Chestnut Street, Penn DOT Project LR 67351-M00***
Resident Engineer for the \$0.7 million reconstruction of Chestnut Street from 63rd to 33rd Streets. The project included 3.0 miles of bituminous milling and paving.
- ***Schuylkill Expressway Section 400, Penn DOT Project LR 67057-400***
Construction Inspector for a \$50 million dollar reconstruction of 3.5 miles of the Schuylkill Expressway from City Line Avenue to Vine Street. The project included several bridge structures, retaining walls, storm drainage, traffic control, cement concrete pavement, bituminous concrete pavement and highway lighting.

- ***Schuylkill Expressway Section 210, Penn DOT Project LR 769-210***
Construction Inspector for a \$15 million dollar reconstruction of the west bound shoulder of 5 miles of the Schuylkill Expressway from Belmont Avenue to Interstate 476. The project included several bridge structures, retaining walls, concrete tunnel extension over Conrail, traffic control, cement concrete pavement, bituminous concrete pavement and highway lighting.

H&K Surveying/Engineering Experience:

- ***Ephrata Township Sewers***
Design Engineer involved in the sanitary sewer installation from the design phase through the construction phase. This project involved a sanitary sewer installation in an area of Ephrata Township that was currently served by on lot sewage systems. The project involved approximately 5,000 feet of force main, 12,000 feet of sanitary sewer pipe, and 6 pump stations.
- ***Sewage Enforcement Officer (SEO)***
Licensed as a Sewage Enforcement Officer for the Commonwealth of Pennsylvania. The following municipalities in Lancaster and Berks Counties as the sewage enforcement officer: Brecknock Twp., Caernarvon Twp., East Cocalico Twp., Ephrata Township, and Ephrata Borough. Work involved the selection of the drainage area, soil probes, percolation testing, and design of the on lot sewage system.
- ***Stinson Run Reservoir***
Design Engineer for the Stinson Run Reservoir for Birdsboro Borough (Berks County, Pennsylvania). The project involved and 300 foot long by 28 foot high earth embankment dam which was used to provide water to Robesonia Borough. Involved in the design and construction phase of the project.
- ***Public Sewer Designs***
Design Engineer for storm and sanitary sewers for many local subdivisions in Lancaster and Berks Counties (Pennsylvania). Developments ranged from 4 lot subdivisions to 150 lot subdivisions.