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Self-motivated civil engineer offers over 33 years of experience in Bridge & Roadway design, Value Engineering and Quality Assurance for capital programmed projects of NJDOT. Managed the production of In-House Roadway design projects and coordinate the multi-disciplined design efforts necessary to prepare construction contract plans, specifications, and documents. Possesses managerial and analytical problem-solving skills and ability to work efficiently. Retired from NJDOT in October 2018, and began to work as TES (Temporary Employee) in July 2019.

ACCOMPLISHMENTS

- **Professional Engineering** Certification (October 1997)
- **Engineering-In-Training** Certification (May 1985)
- Won the AASHTO Standing Committee on Quality in the following NJDOT team awards:
 - **Exemplary Award** – Bridge deck patching task force
 - **Trailblazer Award** – Asphalt concrete specification revisions task force
- As a result of implementing the guidelines created by the bridge deck patching task force, the deck repair quantity overruns was reduced from **249%** in 1996 Deck Patching Contracts to **8%** in 1998 Deck Patching Contracts.

CAREER EXPERIENCE

NEW JERSEY DEPARTMENT OF TRANSPORTATION

A. Supervising Engineer, Surface Design (May 2014 to October 2018)

- Supervises and controls the planning, development, and implementation of road and surface design projects for an assigned region within the state.
- Supervises the work programs, staff, and activities of the engineering office in an assigned region of the state.
- Collaborates, with federal engineers, officials and engineers of political subdivisions, public utility companies, consultants, property owners, and others to coordinate the planning, design, and construction and surface design projects.
- Directs the preparation of study and design projects by design units; supervises the review of design projects.
- Analyzes design projects to determine conformance with engineering standards, economic considerations, and its effect on the local environment.
- Resolves problems which arise during the design process including implementation of design concepts, environmental impact, economic consideration, and other factors.
- Meets and confers with design units during of the design process.
- Plans, organizes, and assigns the work of the organizational unit and evaluates employee performance and conduct, enabling the effective recommendation of the hiring, firing, promoting, and disciplining of subordinates.
- Participates in community involvement meetings and public hearings for proposed state highway and/or surface design projects, improvement of highways or other transportation projects; presents and explains projects and replies to questions and comments regarding proposals.
- Estimates the cost of project design.
- Initiates, evaluates, and processes plans for maintenance projects and changes of plan required during construction.
- Reviews engineering agreements for engineering services submitted by consulting engineering firms; prepares change orders when required.
- Conducts meetings with municipal and county officials regarding proposed design projects.
- Investigates, reviews, and prepares reports concerning complaints of property owners, public officials, and the traveling public.
- Coordinates the activities of the unit with those of other areas in the division.
- Prepares technically sound, accurate, and informative engineering, statistical and other reports containing findings, conclusions, and recommendations.

B. Project Engineer, Surface Design (December 2005 to May 2014)

- Conduct Value Engineering (VE) reviews and prepare VE proposal reports using VE techniques. Analyze summary of team findings, recommendations, cost savings, and impacts for implementation of proposal. Develop and evaluate alternate cost saving means and materials. Complete research study and presentation of team proposal within established due date.
- Supervise and facilitate review of Value Engineering Construction Proposals (VECP) by appropriate NJDOT units, the FHWA, and the design consultant. Submit comments and recommendations within the project manager's due date.
- Organize and coordinate annual one-week VE training workshop by selecting projects and participants for the VE Team Workshop. Gather project plans, estimate, and other required background information. Invite participants and establish multi-disciplined VE teams.
- Analyze staging plans and calculate road user cost and lane occupancy charges in accordance with the Road User Cost Manual. Utilize calculations to provide liquidated damages and project delivery method.
- Utilize experienced, multi-disciplined DOT employees for evaluating the assigned project. Supervise Departmental staff and consultants in Task Forces and Focus Groups as necessary.
- Identify and evaluate standards for value savings and improvements, including initial and life cycle costs.

C. Engineer Specifications, Transportation (June 2002 to December 2005)

- Review project specific reports, plans, specifications, schedules and estimates for compliance with the Department and FHWA standards. Identify potential issues that can adversely affect the schedule of the project. Develop review comments and recommendations, coordinate activities with the Project Manager, Designer and multi-disciplined teams. Perform independent tracking of deficiencies during the review process, and facilitate improvements as required.
- Supervise the work programs, staff, and activities of the QA team when required.
- Provide necessary support to Project Scope Development in the determination of a project's final scope of work. Attend meetings, review studies & proposed schemes and offer comments & recommendations.
- Review the Construction Cost Estimates throughout the Design Process to ensure that the Engineer's Estimate and Bid Proposal will be technically correct and prepared within Department Guidelines.
- Assemble construction contract documents and obtain approvals to advertise projects.
- Coordinate responses to inquiries during advertising with the Project Manager, Project Designer and applicable DOT units, and issue addenda as required. Follow up all inquiries until resolution is reached.
- Provide necessary support to Project Management and Construction in the resolution of field problems on construction projects. Investigate and develop the resolution or Change of Plan by attending meetings, reviewing letters or other documentation, and offering comments and recommendations.
- Coordinate with Construction, Project Management and various other units to schedule, facilitate, and taking appropriate minutes of the 70% – 90% construction completion meetings, and track them in the database.
- Track the occurrence of problems and successes encountered during construction project and evaluate the problems encountered in the field. Develop, program, monitor, and supervise the programming of the data tracking system. Take appropriate action to prevent future recurrence of these problems.

D. Principal Engineer, Transportation (October 1996 – June 2002)

- Received the process improvement recommendations from in-house units and outside organizations. Prepared a clear response to all originators with the appropriate conclusions and implements these recommendations if they showed improvement to the departmental process.
- Received the evaluation of areas of improvement to NJDOT project delivery process. Investigated and prepared documents containing the nature of problems, findings and the appropriate recommendations.
- Received the evaluation of areas of NJDOT processes where corrective actions are necessary. Investigated and prepared documents containing issues and the appropriate corrective action plan.
- Supervised the distribution of Quality Improvement Advisories and Corrective Action Notices to departmental staff and ensures that these documents are posted in the Intranet and Internet.
- Lead and facilitated quality improvement teams and task forces for the evaluation of standards, specifications, processes or procedures. Identified appropriate personnel required to serve on these teams and prepared memorandum of records of meetings. Prepared all necessary changes from the meetings and ensured its implementation.
- Prepared and supervised the preparation of changes to the design standards, design specifications, policies, processes & procedures, standard drawings and guidelines to be used by the Department.
- Organized and directed research for improvement of materials to be used in State highway and bridges.

E. Senior Engineer, Structural Bridge Design (June 1989 – October 1996)

- Reviewed and recommended approval and/or changes to the preliminary plans of structures for development into final plans.
- Performed in-depth review of structural plans considering features such as structural integrity, foundations, geometrics, aesthetics, and economy.
- Developed proposed schedules, scope of work and man-hour estimates for bridge related work and monitors work efforts of assigned structural projects.
- Maintained liaison with in-house unit and design consultant to direct changes and/or improvements in bridge and structure plans.
- Supervised drafting technicians and squad personnel when required.
- Prepared all documents required for permit applications for bridge-lead projects.
- Prepared initial and final studies of structural work with considerations to economy, improved structural design concepts, proven construction details and foundation methods.
- Conducted field investigations to review and report on construction details and procedures which may result in recommended changes and/or improvements.
- Prepared preliminary and final structural plans and calculations in accordance with Department standards.
- Computed and/or checked quantities and prepares Engineer's Estimate.
- Checked shop drawings for compliance with contract drawings.
- Recommended solutions to problems which develop in the field during construction.
- Prepared correspondence and all other documents required in connection with the preparation of final plans, specifications, and estimates for contract advertisement.

D. Senior Engineer, Structural Bridge Evaluation (July 1990 – January 1991: *Mobility Assignment*)

- Reviewed consultant's proposals and consultant inspection & rating reports for all NJ bridges.
- Assisted crew leader in performing the structural analysis for bridges and related structures.
- Observed, assessed, recorded field notes and wrote inspection reports based on bridges' condition.

E. Assistant Engineer, Structural Bridge Design (October 1986 – June 1989)

- Assisted in the design and checking of structural calculations and layouts of contract plans.
- Maintained established schedule, cost estimates and budgets for work assignments.

F. Civil Engineer Trainee, Roadway Design (August 1985 – October 1986)

- Assisted in layout of horizontal and vertical highway geometric.
- Computed quantities and cost estimates for contract items.

EDUCATION

- Bachelor of Science in Civil Engineering, Pennsylvania State University, University Park, PA. (5/85)

HONORS

- Member of **Chi Epsilon** (*National Engineering Honor Society*)
- National Dean's List (1982-1983)