

J. DAVID GARDNER, P.E.
Civil Engineer

PROFESSIONAL EXPERIENCE

2013 to present **Robson Forensic, Inc.**
Associate

Provide technical investigations, analysis, reports, and testimony toward the resolution of commercial and personal injury litigation involving construction safety, construction practices, roadway construction work zone safety, commercial and residential construction industries, failure analysis in the areas of heavy highway industry, construction management and scheduling analysis.

Heavy Highway & Bridge Construction

- Scaffolding - erection, maintenance and inspection
- Personal Fall Protection - usage, maintenance and inspection
- OSHA & ANSI regulations and general construction safety
- Experience in construction management as both a GC and subcontractor
- Concrete and asphalt pavement construction issues
- Utility construction
- Maintenance and protection of traffic operations
- Construction claims & CPM scheduling analysis
- Earthwork operations (excavations, embankment, compaction)
- Storm & sanitary sewer installation
- Construction of single/multi-span bridges
- Operation and handling of heavy equipment (i.e. dozers, bobcats, rollers, aerial lifts)

Residential & Commercial Development and Construction

- Residential and commercial building inspections, and code enforcement
- Designed and constructed residential decks and home additions
- Owns, manages and maintains residential rental properties
- Site design & development, including: earthwork and land grading, roadway pavement sections, stormwater drainage and management systems, utility installations and retaining walls
- Plan reviews for both residential and commercial developments
- Formulating municipal ordinances and construction standards
- Erosion & sedimentation control inspection and compliance issues

Roadway Inspection, Maintenance and Repair

- Experience in design, approval, construction and inspection of entrance/driveway permits for PennDOT and local municipalities.
- Designed and implemented yearly roadway maintenance and capital improvement plans and projects. Constructed and/or inspected said maintenance/improvement projects.
- Familiar with all major types of roadway and bridge repair procedures, as well as setup and enforcement of required maintenance and protection of traffic control plans and details.
- Experience in reviewing/approving/implementing and inspecting traffic signage plans and other related traffic control devices.

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Oil and Gas Industry

- Responsible for implementation of all construction safety measures, including but not limited to: welding, fall protection, trench safety and issuance of 'hot work' permits
- Experience with land selection/acquisition, site planning and overall development for the design and construction of natural gas compressor stations
- Selection and sizing of compressor station equipment
- Review of station layout for safety compliance purposes

2011 to 2013 **MarkWest Energy Partners, L.P., Canonsburg, PA**
Project Manager

Project manager in charge of overseeing the design, engineering, planning and construction of new compressor stations in the Marcellus Shale Regions of Pennsylvania, Ohio and West Virginia. Managed a staff of about twenty engineers, construction supervisors, inspectors, and other administrative personnel. Liaised between clients/producers, the state highway departments and various local/ municipal agencies. Responsible for safety on all MarkWest compressor station construction projects. Responsible for creating, implementing and maintaining all budgetary aspects of the compressor station projects (approximately \$160M per year).

2005 to 2011 **South Fayette Township, Morgan, PA**
Director of Engineering and Planning

Responsible for all facets of engineering and planning within the Township. Managed Township building inspection and code enforcement operations. Performed all plan reviews for both commercial and residential applications/ subdivisions. Developed and implemented annual roadway repair/paving programs and demolition contracts. Designed and managed various township construction projects including: utility relocations, embankment stabilization projects, and retaining wall construction. Worked with PADEP and Allegheny County Conservation District to upgrade Township regulations regarding erosion and sedimentation control operations and stormwater management policies.

1998 to 2005 **Trumbull Corporation, West Mifflin, PA**
Construction Coordinator/Supervisor

Chief project coordinator on large-scale roadway, bridge and tunnel construction projects in the Pittsburgh area for PennDOT and PA Turnpike. Responsible for safety oversight of Trumbull and subcontractor work crews. Responsible for implementing and directing the maintenance and protection of traffic control sequencing and detours for the respective highway projects. Created, managed and maintained the Project CPM Schedules for all work crews (including subcontractors) affiliated with subject projects. Project liaison and spokesperson to the media, local municipalities and other government agencies.

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- 1994 to 1998 **Urban Engineers**, Philadelphia, PA
Project Engineer
Project engineer on the Lackawanna Valley Industrial Highway Project located near Scranton, PA. Liaised between PennDOT and contractor(s) to promote and maintain effective job communications. Monitored and maintained project CPM schedule, and performed time impact analyses of the subject schedules when required. Conducted bi-weekly job progress meetings with PennDOT and contractor. Wrote and compiled all job correspondence for PennDOT, including meeting minutes. Developed claim avoidance techniques and defense strategies in response to contractor's claim against PennDOT.
- 1992 to 1994 **Latona Trucking Corporation**, Exeter, PA
Construction Engineer
Construction engineer for a small site/utility/trucking contractor. Primary duties were project safety, job estimating and bidding, contract negotiations, and job correspondence. Established and implemented the company's first comprehensive and enforceable 'Policy and Procedures' Safety Manual and Program. Also performed job supervision and coordination on utility relocation, foundation construction and commercial site construction projects.
- 1991 to 1992 **Quad Three Group, Inc.**, Wilkes Barre, PA
Civil Engineer
Design engineer of general civil engineering components and systems, such as: storm water drainage and retention systems, sanitary sewer pipelines, roadway paving, and construction specifications; that were slated for use in either commercial and residential developments.
- 1987 to 1991 **Lane Construction Corporation**, Meriden, CT
Job Engineer
Job Engineer on large-scale highway construction projects on Route I-695 in Baltimore, and Route I-270/370 near Washington D.C. for the Maryland DOT. Supervised, coordinated and scheduled all subcontractor work. Responsible for safety oversight of Lane and subcontractor work crews. In charge of safe implementation of night-time maintenance and protection of traffic (MPT) operations including full-scale closures and detours of I-695 and I-270. Maintained job quantities and compiled weekly cost reports and subcontractor invoices. Assisted in updating and maintaining project CPM schedule. Performed survey layout for roadway and bridge construction, including compilation of deck shots and bearing pad layout for structural steel erection.

PROFESSIONAL CREDENTIALS

Registered Professional Engineer: NCEES, Arkansas, Colorado, District of Columbia, Kentucky, Maryland, Michigan, New Mexico, New York, Ohio, Pennsylvania, Texas, Virginia, West Virginia

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EDUCATION

Bachelor of Science in Civil Engineering, Pennsylvania State University, State College, PA, June 1987

PROFESSIONAL TRAINING

Haag Certified Inspector-Residential Roofs
Competent Person – Fall Protection

- National regulations (OSHA and ANSI)
- Written program development and implementation
- Hazard identification
- Fall clearance calculations
- Equipment selection and applications
- Equipment inspection and maintenance
- Full Body Harness donning procedures

CONTINUING EDUCATION

Engineering and Design Retaining and Flood Walls, January 2019
Fire Protection and Prevention During Construction, January 2019
Introduction to the National Pollutant Discharge Elimination System (NPDES) Construction Site General Permit, January 2019
Scaffolding Use, Guidelines and Application, January 2019
Pocket Guide: Construction Worker Safety, January 2019
OSHA Stairways and Ladders, January 2019
OSHA Labor Subpart R - Steel Erection, January 2019
Maintenance of Concrete, January 2019
Fall Protection in Construction, January 2019
Excavations, January 2019
Ethics NSPE, January 2019
Construction Safety Standards, January 2019
Masonry Details, January 2019
Asphalt Shingle Roofing for High Wind Regions, January 2019
Stairways and Ladders – How to Implement in the ‘Real’ World, December 2016
Excavation Safety and Related Industry Standards, December 2016
Fall Protection – Update of OSHA Regulations and Industry Standards, December 2016
Design Commercial/Industrial Guardrail Systems for Fall Protection, December 2016
Ethics, Professionalism and Disciplinary Actions: Case Studies, December 2016
Fall Protection - Design of Commercial/Industrial Guardrail Systems for use on Construction Sites, December 2016

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OSHA Guidelines and Regulations for Fall Protection in Construction, December 2016
Ethics, Professionalism and Disciplinary Actions: Case Studies, December 2016
Stairways and Ladders: OSHA Guidelines for Use on Construction Worksites, December 2016
Excavations: OSHA Guidelines for Protecting Employees against Cave-ins and ensuring Safe Work Practices, December 2016
Fall Prevention and Protection – Orientation II, December 2015
PA Turnpike / I-95 Interchange Project Update, September 2015
PA Route 28, East Ohio Street Improvements - Project Completion, September 2015
Ethics Case Study - Johnstown's Flood, September 2015
Divergent Diamond Interchange, I-70/Rte. 19, Washington County
Maintenance & Protection of Traffic - During Construction, September 2015
Installation of Deep Foundations at Kentucky Lake Bridge, September 2015
Subsurface Utility Engineering, PSPE, June 2015
Prefab Bridge & Culverts, PSPE, June 2015
Next Generation of Concrete Masonry - Recent Changes to Codes and Standards, PSPE, June 2015
Inspecting FRP Equipment, PSPE, June 2015
Design Engineering Compliance Skills in an OSHA/MSHA Regulatory Environment II, PSPE, June 2015
Design Engineering Compliance Skills in an OSHA/MSHA Regulatory Environment I, PSPE, June 2015
BR 1-813/ I-495 Emergency Repairs, PSPE, June 2015
3D Laser Scanning: Capturing the Whole Picture, PSPE, June 2015
Ethics Challenges and Implications, PSPE, June 2015
Green Infrastructure as a Tool for Stormwater Management, PSPE, June 2015
Forensic Project Management I, PSPE, June 2015
Serving as an Expert Witness, PSPE, June 2015
Inspection Requirements for Anchors in Concrete in Accordance with ACI 318-11 and the 2012 IBC, PSPE, June 2015
HY200 Advancements in Adhesive Anchor Technology, PSPE, June 2015
Eggners Ferry Bridge Emergency Repair, PSPE, June 2015
Unique Design and Construction Aspects of Dick Henderson Bridge, West Virginia, PSPE, June 2015
OSHA 10 Hour Training – Construction
OSHA 30 Hour Training – Construction
National Trench Safety – Competent Person Training
Traffic Zone Safety Training/Seminar

PROFESSIONAL MEMBERSHIPS

American Society of Civil Engineers

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PRESENTATIONS

- Overview of Proposed Oil and Natural Gas Drilling Regulations/Ordinances: CharWest Council of Governments, Bridgeville, PA (2011).
- Update on New Stormwater Management Techniques and Best Management Practices (BMP's) – Residential and Commercial Development: Allegheny County Conservation District, Pittsburgh, PA (2009).
- Proposed Commercial Developments and Impacts to Route 50 Traffic Patterns: Bridgeville Chamber of Commerce, Heidelberg, PA (2007).
- Review of Proposed Construction Schedule and Associated Traffic Detours for the Fort Pitt Bridge & Tunnel Project: PennDOT and the City of Pittsburgh: Pittsburgh, PA (2002 and 2003).
- Rebuttal to Contractor's Claim – Section 294, Lackawanna Valley Industrial Highway Project: PennDOT District 4-0 Engineer and Defense Council: Scranton, PA (1998).

CONSTRUCTION MANAGEMENT & SUPERVISION EXPERIENCE

- Developed, managed and maintained the project CPM schedules and daily work schedule(s) of the general contractor and subcontractors work crews that were affiliated with large-scale roadway construction projects for Pennsylvania DOT, the PA Turnpike and Ohio DOT, as well as pipeline and compressor station projects associated with the natural gas industry in the Marcellus Shale regions.
- Acted as the project liaison between general contractor, subcontractor and owner on various large-scale roadway/highway construction projects (PennDOT, PA Turnpike Commission, Maryland DOT, West Virginia DOT, Ohio DOT); as well as pipeline and compressor station projects associated with the natural gas industry in the Marcellus Shale regions.
- Acted as the project spokesperson to the media, newspapers, and local municipalities; attended numerous public meetings.
- Performed time impact analyses on project CPM schedules when necessary.
- Conducted bi-weekly job progress meetings between owner and contractor; and compile meeting minutes. Compiled and maintained job correspondence between contractor, construction manager and owner.

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ROADWAY CONSTRUCTION EXPERIENCE

- I was the job engineer, project engineer and/or assistant project manager on large-scale roadway projects in various states. These include:
 - I-695 Beltway Reconstruction Project, Baltimore, MD - Maryland DOT (Project Cost = \$35 million).
 - I-270/I-370 Highway and Interchange Project, Gaithersburg, MD - Maryland DOT (Project Cost = \$70 million).
 - I-95 & Route 322 Reconstruction Project, Chester, PA - Pennsylvania DOT (Project Cost = \$45 million).
 - Lackawanna Valley Industrial Highway Project, Scranton, PA – Pennsylvania DOT (Project Cost = \$160 million).
 - Route 19 Highway Construction Project, Summerville, West Virginia – West Virginia DOT (Project Cost = \$30 million).
 - Mon-Fayette Expressway Project, Pittsburgh, PA – Pennsylvania Turnpike Commission (Project Cost = \$280 million).
 - Fort Pitt Bridge & Tunnel Reconstruction Project, Pittsburgh, PA - Pennsylvania DOT (Project Cost = \$90 million).
 - Route 28 Bypass Project, Etna, PA - Pennsylvania DOT (Project Cost = \$25 million).
 - Route 79 Reconstruction Project, Bridgeville, PA - Pennsylvania DOT (Project Cost = \$65 million).
- As the Director of Engineer and Planning for South Fayette Township, I was responsible for developing, bidding and supervising the yearly roadway paving/maintenance program. Yearly contract values ranged from \$300,000 to \$500,000. At that time, the township owned approximately 85 miles of roads.

ROADWAY MAINTENANCE EXPERIENCE

- As the Director of Engineer and Planning for South Fayette Township, I was responsible for developing, bidding and supervising the yearly roadway paving/maintenance program. Yearly contract values ranged from \$300,000 to \$500,000. At that time, the township owned approximately 85 miles of roads.
- Hands-on experience in all aspects of roadway maintenance for both asphalt and concrete pavement; including but not limited to: potholes repairs; joint rehabilitation; milling and overlay operations; shoulder rehab and guiderail removal/replacement.

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MAINTENANCE & PROTECTION OF TRAFFIC OPERATIONS

- Experience in Maintenance and Protection of Traffic (MPT) Operations required to construct roadway and associated appurtenances; as summarized below:
 - Lead Engineer responsible for implementing and maintaining traffic control operations on major highways located in Pittsburgh, Washington D.C. Metro Area, Baltimore, Philadelphia and Scranton, PA.
 - Implemented full-scale detour operations on highways located in the same areas listed above.
 - Implemented night-time MPT operations and detours, as required.
 - Worked with State Transportation Officials, Engineers and Designers to review and ‘trouble-shoot’ traffic control plans.
- Experience in implementing MPT operations required to address roadway and utility repair, replacement work.

CONSTRUCTION SAFETY EXPERIENCE

- Responsible for implementing, supervising and maintaining safe construction practices and operations on each project for which I worked.
- Assisted the company’s project safety representatives in holding daily and/or weekly tool box talks, and completing associated documentation. Also assisted in coordinating and holding company safety orientation meetings for new subcontractors.
- While working in the natural gas industry, was responsible for issuance of the daily/weekly ‘Hot Work’ Permits for all subcontractors.
- During my time as an onsite job engineer, assistant superintendent or project manager, none of my work crews ever experienced a lost time accident.

FALL PROTECTION AND SCAFFOLDING EXPERIENCE

- Assisted in the building, construction and inspection of roadway bridges and structures that ranged in height from 25 feet to over 200 feet in height above ground level.
- Attained Competent Person Training and Certification in Fall Prevention and Protection.
- First-hand experience in fall protection devices and safety lines, including:
 - Full body harness (FBH) equipment selection, inspection and maintenance.
 - Usage of FBH equipment at heights varying from 25 feet to over 200 feet.
 - Erection, usage, inspection and maintenance of horizontal safety lines.
 - Usage and implementation of applicable national regulations (i.e. OSHA & ANSI).
- Erected, inspected, maintained and dismantled scaffolding on structure heights ranging from 8 feet to about 75 feet in height.

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BRIDGE & STRUCTURES CONSTRUCTION EXPERIENCE

- Job/Construction Engineer on reinforced concrete bridge structures, ranging from single-span, 15' high structures to 8-span, 2,200' long, 250' high structures.
- Dealt with all facets of bridge substructure construction, including but not limited to:
 - Foundation excavation (including causeway construction in rivers).
 - Deep and shallow foundation systems.
 - Formwork installation on footings, piers and abutments.
 - Installation of reinforcing steel (i.e. rebar).
 - Concrete placement.
- Involved in all facets of bridge superstructure construction, including but not limited to:
 - Erection of structural steel and concrete I-beams.
 - Installation of stay-in-place (s.i.p.) forms.
 - Installation of bridge decking and parapet formwork.
 - Installation of deck reinforcing steel.
 - Concrete placement of bridge deck and parapets.
 - Installation of parapet railing and/or guiderail.
- Reviewed/approved plans for structural steel erection, including crane lift diagrams/plans, and maintenance & protection of traffic plans.
- Installed and erected Reinforced Earth Retaining Walls designed to support roadways and residential/commercial establishments.
- Installed and erected Reinforced Concrete Sound Walls along highways and in front of residential/commercial establishments.
- Installed and erected Reinforced Concrete Box Culverts; including installation of post tensioning strands.

CONSTRUCTION EQUIPMENT EXPERIENCE

- During the years 1990 through 1995, operated the following pieces of equipment: excavator, front-end loader, skid-steer loader, gradall, D5 and D6 dozers, aerial and scissor type manlifts, vibratory and sheeps-foot rollers
- Performed the following general operations with the equipment:
 - Earthwork excavation & truck loading/hauling;
 - Earthwork embankment grading & construction;
 - Roadway pavement demolition/removal (asphalt and reinforced concrete);
 - Roadway stone subbase placement and fine grading;
 - Concrete sidewalk and curbing – includes formwork grading/placement; stone subbase placement/grading.
 - Bridge formwork installation/placement/stripping/removal.
 - Installation of storm drainage piping and structures (manholes, inlets, etc.)
 - Installation of ductile iron waterline and appurtenances
 - Installation of sanitary sewer lines and appurtenances
- Also operated various types of man lifts, boom lifts and aerial lifts.

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EARTHWORK, TRENCHING and SHORING EXPERIENCE

- Experience working on large-scale earthmoving projects that moved volumes of earth ranging from 25,000 cy to 2,000,000 cy. At various times on these subject projects, worker as a surveyor, grade foreman or assistant superintendent.
- Worked in various typed of piping and utility trenches that ranged in depths from 6 feet to 20 feet.
- Assisted in the installation, maintenance and inspection of trench boxes and shields for storm piping and utility installations.
- Installed h-piles and wood lagging for engineered shoring walls that were required to construct structures such as bridges, waterline vaults, or retaining walls.

UTILITY CONSTRUCTION EXPERIENCE

- General Utility Administration Experience
 - Submission and acquisition of utility entry and/or right-of-way permits.
 - Acted as liaison between municipality and various utility companies.
 - Inspected utility installation and relocation work on behalf of municipality.
- Waterline Utility Work
 - Installed ductile iron waterlines ranging in size/diameter from 6" to 54".
 - Installed associated waterline appurtenances such as thrust blocks, caps, flanges, meters, valves, etc.
 - Constructed reinforced concrete interconnecting tie-vaults and/or structures, ranging in size from 24" x 36" to 54" x 60"
 - Worked with local water utility to survey and relocate residential and commercial tie-ins, curb-cuts, etc.
- Gas Utility Work
 - Installed high and low pressure gas mains and lines ranging in size/diameter from 2" to 10".
 - Installed associated gas line appurtenances such as meters, valves, etc.
 - Worked with local gas utility to survey and relocate residential and commercial service lines.
- Electrical Utility Work
 - Worked with local electrical utility to survey and relocate poles, guy wires, transformers, etc. for residential and commercial applications.
- Sanitary Sewer Utility Work
 - Installed both gravity feed sewer lines as well as high pressure force mains.
 - Worked in trench depths ranging from 5' to about 20' deep.
 - Installed sewer laterals and service lines for both residential and commercial applications.

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CONCRETE & ASPHALT ROADWAY CONSTRUCTION EXPERIENCE

- Installation of reinforced concrete pavement, including but not limited to:
 - All facets of survey and layout required to construct roadway and related appurtenances.
 - Construction of roadway subgrade and stone subbase.
 - Installation of reinforcing steel, load transfer baskets, etc.
 - Placement of roadway concrete, both via slipform paving machine, and roadway form/screed method.
- Installation of bituminous asphalt pavement, including but not limited to:
 - All facets of survey and layout required to construct roadway and related appurtenances.
 - Construction of roadway subgrade and stone subbase.
 - Installation/placement of bituminous asphalt pavement via asphalt paving machine.
- Experience in Maintenance and Protection of Traffic (MPT) Operations required to construct roadway and associated appurtenances; as summarized below:
 - Chief engineer responsible for implementing and maintaining traffic control operations on major highways located in Pittsburgh, Washington D.C. Metro Area, Baltimore, Philadelphia and Scranton, PA.
 - Implemented full-scale detour operations on highways located in the same areas listed above.
 - Implemented night-time MPT operations and detours, as required.
 - Worked with State Transportation Officials, Engineers and Designers to review and 'trouble-shoot' traffic control plans.
- Experience in installation of highway related roadway appurtenances, such as: concrete sidewalks and curbing, guiderail, traffic signage, light poles, high-mast lighting, and roadway line striping.

CONSTRUCTION CLAIMS EXPERIENCE

- Reviewed and analyzed \$2.5M claim submitted by general contractor against Pennsylvania Department of Transportation (PennDOT). Compiled response document to claim and presented/testified on behalf of PennDOT. Judgment was in favor of PennDOT, and Contractor was awarded NO monetary settlement.
- Monitored and maintained project CPM schedules on various large-scale highway construction project; and performed time impact analyses when necessary.
- Have experience as construction engineer, general contractor, subcontractor and construction manager/supervisor.

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NATURAL GAS INDUSTRY EXPERIENCE

- Initially worked an engineer liaison between the industry and governmental entity/municipality/landowner. Addressed public relations issues and problem resolutions.
- Assisted land agents and company management in selection and development of land areas to be use as pads for both piping and construction of compressor stations.
- Engineered and acquired land use permits, roadway encroachment permits and road crossing permits. Permits were acquired on municipal and state levels.
- Engineered, developed and constructed 5 acre to 20 acre sites for large-scale natural gas and electrical powered compressor stations.
- Became Project Manager of the Compression Division for MarkWest. Responsible for overseeing all aspects of the following:
 - Site selection
 - Land Development and Engineering
 - Compressor Station equipment layout
 - Piping and Instrumentation Diagrams (P&ID's)
 - Material Purchasing
 - Inspection of all work
 - Contractor selection and administration
 - Project budgeting and scheduling
 - Project safety

MUNICIPAL ENGINEERING EXPERIENCE

- Experience in municipal review/approval process of residential and commercial land development applications and plans.
- Experience in creating, reviewing, modifying and approving municipal ordinances, codes and related land development requirements.
- Experience in implementation and enforcement of municipal codes.
- Involved with construction inspection of residential housing plans and commercial developments.
- Experience in all facets of Stormwater and Erosions & Sedimentation (E&S) Control issues; including but not limited to:
 - Design and review/approval of stormwater management and E&S plans.
 - Inspection of stormwater piping, structures, and related appurtenances.
 - Inspection of E&S matters and stormwater runoff issues.
 - Experience in proper site grading procedures to address stormwater runoff issues; both in residential and commercial developments/applications.
 - Assisted State and County agencies in the development and updating of environmental codes and compliance requirements.

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PERMIT ENGINEERING EXPERIENCE

- Submission and acquisition of roadway encroachment, crossing and/or trenching permits for various PennDOT Districts.
- Submission and acquisition of PennDOT Highway Occupancy Permits for residential and commercial development projects.
- Submission and issuance of 'Hot Work' permits for subcontractor work on compressor station project in the natural gas industry.

RESIDENTIAL HOUSING & DECK CONSTRUCTION EXPERIENCE

- Experience in survey/layout of foundations and basements.
- Experience in all facets of roof construction, including but not limited to:
 - Installation of roof trusses.
 - Installation of roof sheathing, weatherproofing membrane and insulation.
 - Installation of both asphalt and slate shingles.
 - Installation of rain gutters and leaders.
- Experience in general framing of single story and multi-story homes, and framing/installation of associated windows and doors.
- Experience in installation of vinyl, wood and cement-board siding; and associated weatherproofing membrane.
- Experience in all facets, types and shapes of residential decks; including but not limited to:
 - Full-scale design of deck support structure, decking and railing/seating.
 - Issuance of municipal permits for subject decks.
 - Inspection of deck(s) and deck support structure(s).
 - Framing and construction of all types, sizes and shapes of decks.