1. Evaluated sites to determine soil adequacy for handling loads imposed by building foundations and associated materials.
2. Facilitated construction by mapping out utility installations and establishing reference points, grades and elevations.
3. Analyzed survey reports, maps, blueprints and other topographical and geologic data to effectively plan infrastructure and construction projects.
4. Inspected installation of precast structures, underground services, concrete and earthworks.
5. Reduced risks by reviewing permits process to comply with regulations.
6. Developed low impact transportation, grading and storm water design strategies for sustainable infrastructure projects.
7. Managed construction contracts for capital projects to outline objectives, stakeholder responsibilities and modification procedures.
8. Supervised construction of waste water treatment facility for [Type] location.
9. Planned, directed and participated in surveying activities and researching title reports and deeds in preparation of survey instructions.
10. Managed conceptual design projects while providing task management and technical contributions to multidisciplinary teams to bring innovative solutions to civil infrastructure problems.
11. Assisted emergency management with disaster response and damage assessments during natural disasters.
12. Monitored construction of contract work for compliance with design plans and specifications.
13. Liaised with civil technicians to prepare and update maps, drawings and blueprints using manual and computer-assisted methods.
14. Prepared and presented project cost estimates, determined project feasibility based on data analysis and recommended improvements.
15. Completed information processing tasks using engineering software and statistical packages and programs to encode data and perform data entry and retrieval.
16. Provided technical and professional engineering support services in design, construction and traffic engineering.
17. Kept project on schedule and within budget while serving as project leader.
18. Attended training, meetings and seminars to enhance job knowledge and skills.
19. Computed load and grade requirements, material stress factors and water flow rates to determine design specifications.
20. Controlled engineering activities to maintain work standards, adhere to timelines and meet quality assurance targets.
21. Verified construction documentation conformed to quality assurance standards and client requirements.
22. Calculated load levels and material stress factors using [Software] to identify design constraints.
23. Developed, implemented and utilized systems to effectively track permits and change order requests.
24. Established and implemented construction schedules, methods, equipment and labor requirements, using Gantt charts and [Software].