1. Supervised construction of waste water treatment facility for [Type] location.
2. Evaluated sites to determine soil adequacy for handling loads imposed by building foundations and associated materials.
3. Inspected installation of precast structures, underground services, concrete and earthworks.
4. Analyzed survey reports, maps, blueprints and other topographical and geologic data to effectively plan infrastructure and construction projects.
5. Verified construction documentation conformed to quality assurance standards and client requirements.
6. Facilitated construction by mapping out utility installations and establishing reference points, grades and elevations.
7. Developed, implemented and utilized systems to effectively track permits and change order requests.
8. Developed low impact transportation, grading and storm water design strategies for sustainable infrastructure projects.
9. Performed maintenance duty on pumps, wastewater operations and commercial injection systems.
10. Liaised with civil technicians to prepare and update maps, drawings and blueprints using manual and computer-assisted methods.
11. Documented products and processes using SolidWorks, [Software] and [Software] to document release notes and designs.
12. Calculated load levels and material stress factors using [Software] to identify design constraints.
13. Kept project on schedule and within budget while serving as project leader.
14. Managed quality assurance and quality control requirements of contractor, including surveying and laboratory testing for concreting operations.
15. Completed information processing tasks using engineering software and statistical packages and programs to encode data and perform data entry and retrieval.
16. Devised overall strategy for documentation and identified design sets planned for each stage of work including as-built designs and final building information models (BIM).
17. Monitored construction of contract work for compliance with design plans and specifications.
18. Provided technical and professional engineering support services in design, construction and traffic engineering.
19. Conducted material tests and analysis using [Type] equipment and tools.
20. Planned, directed and participated in surveying activities and researching title reports and deeds in preparation of survey instructions.
21. Drafted and reviewed reports and specifications, including construction schedules, environmental impact studies and project designs.
22. Computed load and grade requirements, material stress factors and water flow rates to determine design specifications.
23. Established and implemented construction schedules, methods, equipment and labor requirements, using Gantt charts and [Software].
24. Reviewed project goals and objectives on monthly basis with project manager and design team.