



# Importance of Computer Aided Drafting in Civil Engineering

Throughout the last few years, technology has been improving the lives of people from all walks of life and all fields of study. One of the big pieces of technology in the civil engineering field today is computer aided drafting.

AutoCAD is a computer aided design software for the 2D and 3D design of certain objects or places. Computer aided drafting is widely used in the civil engineering field because of its ability to plan sites a lot easier than hand drawings, it can help design a lot of engineering supplies, and is constantly upgrading. Up until a few years ago, civil engineers would hand draw their design plans which could take a while. Computer aided drafting makes this process faster and easier. It can also lay out sites, roads, sidewalks, bridges and other engineering items. There are constant upgrades to computer aided drafting being made every year to improve the system and help civil engineers.

CAD Compared to Hand Drawing In the world of construction, material, labor, equipment, time and money are some of the most important factors. A speedy well planned site could decrease the construction cost drastically. Up until 1971, there was no way to use a computer and all site drawings had to be done in hand. This was very time consuming and would usually delay the rest of the construction process. During that year, a program was developed, CORELAP was one of the first site layout applications for the computer but still had its faults.

Other tools for the computer were designed but most had major faults and none gained wide acceptance by the civil engineering industry. But by 1987, AutoCAD was developed and sold to computers everywhere. (Sadeghpour, Moseli & Aikass, 2006) Now that computer aided drafting has been introduced to the home computer, work can be done anywhere and it a lot speedier than its hand drawn counterpart. AutoCAD is also more accurate than hand drawn designs. Site layout related elements can be systematically identified and organized into certain object libraries. This helps by making the site layout problems more comprehensible and easier to read for the engineers and associates of the engineers.

A lot of the simple calculations a civil engineer had to do while hand drawing, computer aided drafting could do in a matter of seconds with the push of a button. (Sadeghpour, Moseli & Aikass, 2006) Due to the dynamic input button, drawings that would have taken an engineer a long time to create are now done with ease and less time consumption. The CAD database is also full of other tools that can help an engineer get the job done in a quick and effective way. An engineer can also save the file anywhere on his or her computer as if it was a Microsoft word document. This would allow the engineer to go back anytime to be able to find and edit the site.

(Sadeghpour, Moseli & Aikass, 2006) Products of CAD Computer aided drafting has been used over the years for more than just site

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