

Abstract

During the summer of 2010, I assisted the construction inspectors at Moore & Bruggink. This job was perfect for an intern like myself because I personally experienced a wide variety of construction sites. Understanding the basic processes and procedures out on the construction site is essential knowledge when becoming an engineer.

Result

Internships are designed to teach students what they can't necessarily learn in school or through books. My experience proved to be very useful in this regard. Good communication between workers, contractors, engineers, and everyone involved is one of the most important skills to learn. Poor communication quickly leads to problems, disputes, and great decrease in productivity. The same importance, if not more important, is integrity while working. Honesty and patience are constantly tested in the work field. A respectable company such as Moore & Bruggink is directly related to its employees' integrity.

Major Projects

M-121 (Chicago Drive, Hudsonville)

- Basic road repair improvements including detail 8's (asphalt patches) and concrete patches
- Documentation required for state funded jobs, such as quantity and type of concrete, asphalt and gravel.
- Soil density, soil depth, and grade checks are necessary for construction inspections
- Random samples are taken to Soil and Materials Engineers, Inc or Materials Testing Consultants



28th St. between Kalamazoo Dr and Division

- Road resurfacing and improvements
- New sidewalks, ADA ramps at all intersections and boardwalk over Plaster Creek
- Manhole structure inspection
- Restoration documentation including amount of hydro seed, black dirt, and straw blanket mulch



Huizenga St. Zeeland, MI

- Inspection of laying pipes including water main, sanitary, and force main
- Complete road renovation
- New sidewalk and residential concrete driveway approach
- Force main directional boring under existing street

