

# FIVE REASONS

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## TO HIRE A CIVIL ENGINEER FOR YOUR RESIDENTIAL PROJECT



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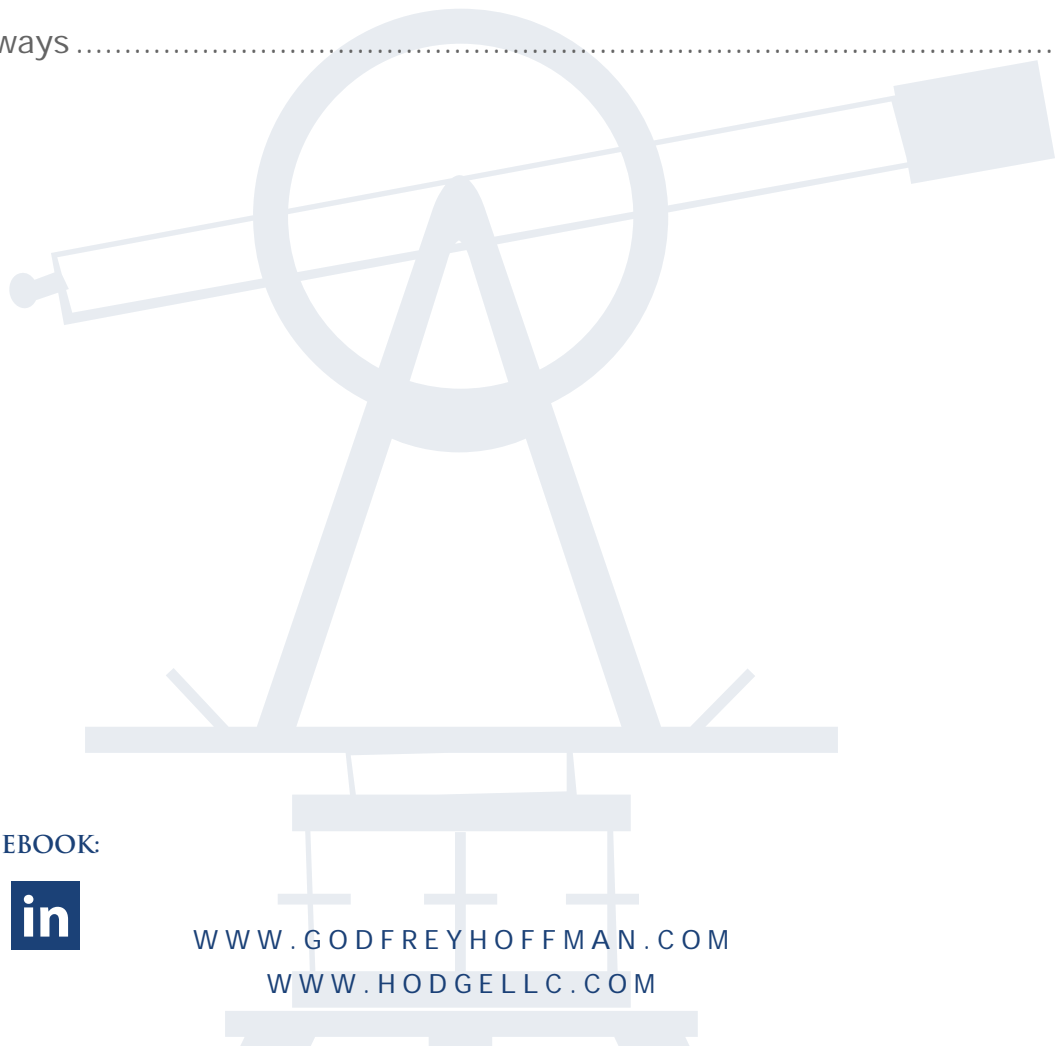
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# INTRODUCTION

After the crash of the housing market, home and property owners today are looking to save money and increase the values of their homes and properties. Many homeowners are taking matters into their own hands and are constructing various home projects that can help them increase the value of their homes and properties. What most homeowners don't realize is that they often need to hire a civil engineer to help with and monitor their home projects.

If you are a homeowner in the state of Connecticut, you may need to hire a civil engineer for certain home additions or even home improvement projects. Most Connecticut homeowners do not realize that they need to hire a civil engineer for their home projects until they get started or run into concerns or questions that they cannot handle effectively. Here are some typical home projects that require the assistance and expertise of a professional, qualified, and experienced civil engineer



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# 1 BUILDING OR UPDATING A BRIDGE ON YOUR PROPERTY



If your property has water on or around it, it may be essential to build a bridge for vehicular access, or at least update an existing bridge. This project, however, would require the knowledge and expertise of an experienced civil engineer.

A civil engineer can help draft construction plans, survey the land, and make sure that homeowners are constructing or updating the bridge properly and safely. Civil engineers are essential whenever construction of an infrastructure in or around water is needed. A solid bridge, particularly those used for vehicular access, is essential. A professional and experienced civil engineer can help homeowners with all their infrastructure needs and projects.

# 2 RESIDENTIAL SITE PLANNING

If you want to build a house or other structure on your property, then it's imperative to seek the advice of a Connecticut land surveyor and civil engineer. Property owners or future homeowners need to hire a civil engineer to assist with their residential development building plans. The land surevyor surveyors do the

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existing conditions survey and the civil engineers do the site design, and make sure that all building and construction permits are properly achieved before construction can begin.

## 3 SEWER WORK

It is a fact that many states have laws and regulations surrounding work of any construction on sewers.

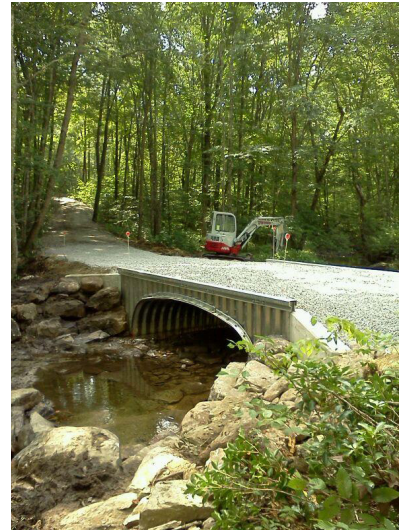
Connecticut is no exception: there are laws that regulate various engineering



projects in CT. One of the main responsibilities of a civil engineering is to make sure that everyone has clean drinking water. Any work surrounding sewers needs to be authorized and supervised by a licensed professional as any type of work could cause water pollution and even affect the quality of public drinking water, which could

ultimately lead to illnesses and diseases. This goes both for properties that have septic tanks or rely on town or city drainage and sewerage systems.

Some typical home projects that involve septic tank or sewer system work include backyard drainage improvements and the construction of backyard infrastructures, such as pools, decks, and child play areas, among others. These projects typically involve the digging or construction of the surrounding septic tanks or sewers, which could have drastic effects if not properly monitored by a civil engineer.



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# 4 THE CONSTRUCTION OF DOCKS OR OTHER INFRASTRUCTURES NEAR WATER



For home or property owners that are lucky enough to have waterfront property, whether it is a year round residential home or a vacation home, you may want to build a dock in order to enjoy swimming, boating, or fishing from your land.

Most home and property owners don't realize that building a dock requires the professional expertise of a civil engineer. One of the other major responsibilities of a civil engineer is the protection of water and other wetlands. Most states have laws surrounding the construction of infrastructures near water and on wetlands and connecticut is no exception. A civil engineer will design the land to make sure that any infrastructures on or near the water meet proper building codes, inland wetlands regulations and other laws for the protection of our environment.

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# 5 LAND RESEARCH FOR PURCHASING OR CONSTRUCTION PURPOSES

Before purchasing or even beginning construction on a piece of property, it would be helpful to research the land, the borders, as well as the overall topographical area and area or flood elevations zones.



Additionally, before purchasing a piece of land or even doing construction, home and property owners should be aware of where their property lines are so they don't cross over onto another property or build too close to the property line where it may disturb neighbors or neighboring structures.

We all know that flooding can cause severe damage to a home or structure, so it is also important to recognize flood elevations to avoid building a structure or home where flooding could become a problem. In order to avoid any unforeseen problems with your new property its essential to hire a civil engineering firm in CT for a professional evaluation.

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# CONCLUSION

By and large, while property owners may find it unnecessary or even frustrating to find and hire a civil engineer with their home improvement projects, civil engineers can help make sure that their projects are done efficiently, meet all building laws and codes, and that they are constructed safely for home and property owners and their families

## KEY TAKEAWAYS:

The five situations when home and property owners should hire the professional services of a civil engineer include:

- Constructing a bridge over water for vehicular access on a property
- Any infrastructure building that involves the construction or work around a sewer or septic system, specifically those properties that utilize town water, sewerage, or drainage
- Residential site building, which involves the purchase of a piece of land and the construction on it thereafter
- The construction of a dock or any other type of infrastructure near water or that involves construction in or surrounding wetlands or soils
- To survey the land for research including the property lines, flood elevations, and the overall topographical area prior to beginning construction

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