STEVENS Engineers & Constructors Explains the Different Types of Excavation

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STEVENS Engineers & Constructors, a company based in Middleburg Hts, OH, has explained the various excavation types in a blog post and wants to point out that they are capable of handling any type of excavation. The various types of excavation are: excavation of topsoil, rock excavation, muck, excavation, earth excavation, underground excavation, stripping, drainage, dredge, footings, borrow excavation, and unclassified excavation. After determining the most suitable type of excavation for a particular project, the client can contact STEVENS Engineers & Constructors.

Rock excavation is often performed when rocky surfaces are a hindrance to a construction project, frequently bringing them to a full stop. This is a difficult type of excavation and necessitates the use of special equipment. Drilling and blasting are often needed for this type of excavation.

Muck excavation is needed when soil is mixed with water, resulting into muck that usually causes difficulties on construction sites. Muck has to be removed because it is unstable and is not suitable for any type of construction. Sometimes this can be remedied by spreading the muck out to allow it to dry. It is also possible to add other materials to the muck to reduce its moisture content.

Topsoil excavation involves removing the top surface layer of soil. This is because the topsoil usually has a higher moisture content than the lower levels as it supports vegetation growth. When the surface-level soil is removed, the layer of soil below loses moisture and becomes easier to work with. It is important to note that the topsoil is frequently kept on-site for the purpose of landscaping later.

Earth excavation involves removing the soil below the topsoil and it is typically useful when constructing drainage ditches or embankments. It may also be applied for constructing foundations and scrapers are frequently used to move the earth.

Underground excavation requires specialized tools and equipment. While all kinds of excavation require compliance with safety protocols, underground excavation necessitates additional precautions. This is because this type of excavation is done when building shafts or tunnels during the construction of roadways, canals, subways, and sewage.

Stripping is the type of excavation used to clear out a large amount of materials before starting a construction project. Stripping is used to get rid of a range of materials, such as the topsoil, gravel, and sand. During this process, shallow and wide sections of materials are cleared, and grading may be required.

Drainage is for the purpose of eliminating water from the land. This may require the building of ditches or trenches during the construction process. Materials also need to be excavated during the construction of the storm drains. This also requires the installation of pipes under roadways.

Dredging is often used for clearing waterways to allow boats to pass through them. Footing necessitates the most accuracy out of all the various kinds of excavation. These footings are foundation structures to make sure that buildings are stable. This often requires the grading of sites before excavation. Borrow excavation involves getting materials from outside the construction site. Such materials are utilized for fills and embankments. Unclassified excavation is done when it is difficult to determine the types of materials being removed.

Started in 1970, STEVENS Engineers & Constructors has more than 75 years of experience in offering premium quality construction services. The company began as STEVENS Painton Corporation in February 1970 after Stevens Construction, which was established in 1919, merged with Eddie Painton and Associates, which was founded in 1915. STEVENS Painton was a highway bridge builder and an excavation contractor providing their services mostly for wastewater treatment plants, but they gradually changed their focus towards heavy industrial construction. The company acquired CDMG in 1991 and included industrial engineering as one of their services. In 2009, the company was renamed STEVENS Engineers & Constructors, Inc., which offered heavy rigging, earthwork, demolition, excavation, and civil concrete. They

also provide mechanical equipment setting and alignment, structural steel erection, shutdown and turnaround services, and construction management and plant maintenance.

STEVENS is based in Middleburg Heights, Ohio, with offices south of Pittsburgh, Pennsylvania in Canonsburg and Hobart Indiana. They work mostly in Pennsylvania, Illinois, Ohio, Maryland, Michigan, Indiana, Kentucky, and West Virginia. Sometimes, they also travel outside of this area to work on particular projects as requested by some of their clients.

Those who require sitework excavation can check out the STEVENS Engineers & Constructors website or contact them on the phone or through email.

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For more information about STEVENS Engineers & Constructors, contact the company here:STEVENS Engineers & ConstructorsVicki Anderson(440) 234-7888info@stevensec.com7850 Freeway Circle, Suite 100Middleburg Hts, OH 44130

STEVENS Engineers & Constructors

STEVENS Engineers and Constructors provides complete industrial construction services from our office in Middleburg Heights, Oh near Cleveland. We offer high-quality design, build, and management services to industrial customers across the United States.

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