

ABSTRACT

REDUCTION BEHAVIOR OF SOIL ON SIDE OF OPTIMUM DRY AND WET SIDE OF OPTIMUM DENSITY IN ORGANIC SOIL

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The decline in soil organic matter due to the burden of its own soil and building construction there on are not able to with stand the load that lasts. Of these conditions need to know the factors that affect soil instability, through soil behavior can be observed with the organic content of the soil water content. The compaction is the beginning of the formation process for testing the strength of the soil, so that the pattern of behavior can be identified by soil Dry and Wet Side of Optimum Side of Optimum.

To find out how much the behavior of soil degradation in organic soil density, research conducted by the pattern formation by compaction of soil samples with a standard 3-sample variation in the composition of the planned water content, ie samples with Optimum moisture content, Dry and Wet Side of Optimum Side of Optimum ie by compaction drier 5% of water content Optimum conditions and more wet 5% of Optimum Moisture Content of the organic soil. After the sample is formed, further research is conducted in stages loading Consolidation 500, 1000, 2000, 4000 and 8000 g with a readability of each load is 0 ", 9.6", 38 ", 1", 2 ", 25", 4 ', 9 ', 16', 25 ', 36', 49 ', 64', and 24 hours. Giving the load on the surface of the soil samples aims to see Consolidation coefficient (Cv) is happening, compression index (Cc) and coefficient of compression (Av) in each sample.

Soil test results Decrease Behavior Against Dry and Wet Side of Optimum Optimum At the Side of Organic Soil density, Dry Side of Optimum sample / sample with 5% dry compaction over the best sample for the fastest processing speed and magnitude of soil degradation as well as the smallest decrease in the reduction process quickly said to be good for the soil more quickly reach the soil layer in a stable condition and the magnitude of the smallest drop is quite good because the compression process a smaller type of soil, thereby reducing the risk of damage to the construction thereon that the Cv value obtained by 0,168cm² / sec, Cc for 2.33, and AV 0.28 cm² / sec.

Keywords: Organic Soil, Compaction, Dry Side of Optimum, Wet Side of Optimum, and Soil Decline