



A Ground Improvement Case Study Using Soil Replacement or Stone Columns Using Settle3 and RS3

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Abstract. Stone Columns were first introduced approximately 60 years ago as a technique for improving both cohesive soils and silty sands. Its construction involves the partial replacement of unsuitable soils with a pattern of compacted vertical columns of stone. In the settlement analysis software, Settle3, a Stress Reduction Method is used for computing the settlement under the composite stiffness of soil and stone columns. This study provides a settlement analysis of a case study with ground improvement using stone columns. The same model was created using a 3D FEM analysis software, RS3, to calculate the settlement. The results of the case study show a good agreement using both 3D FEM and the simplified settlement analysis using Settle3 software considering the same assumptions in both software. Also, the stress concentration ratio of stone columns and soil stiffness are also discussed in the models.

Keywords: Ground improvement - stone columns - FEM - settlement analysis - Settle3

1 Introduction

The Stone column reinforcement has been used in soil layers including weak soil deposit and layers such as peat all around the world over the last three decades (Black et al., 2007). They're used to increase the load-carrying capacity and reduce settlement of structural foundations. Advanced technique over the years have improved this method to apply stone columns to greater depths of up to 30 m (Black et al., 2007). The overall performance of stone columns is governed by the lateral support which is provided from the surrounding soil. Due to the earth pressure that increases per depth, this will then increase the performance of stone column as well along the depth of soil. In weak deposits where lateral support is low, the building effect may occur from the stone columns. Thus, accurate assessment of column bulging effect along with soil stiffness becomes imperative in making the load transfer to stone column and load-carrying capacity is enhanced with the effect of stone columns.

The motivation of this study involves investigating improvement of settlement in building profile located in Pompano Beach, FL, USA. The structural component along

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