GEOTECHNICAL DESIGN OF DRIVEN PILES UNDER AXIAL LOADS

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1 Introduction

3(Three) Methods shall be discused with example.

- 1. API:American Petroleum Institute Procedure
- 2. 2.FHWA:U.S. Federal Highway Administration Procedure
- 3. 3.U.S. Army Corps Method

API gives lowest Capacity. It is conservative. So It shall be used in this note in detailed.

2 API Procedure

 $=mc^2$

soil	$\delta, degrees$	Limiting f , kips/fit $^2(kPa)$
Very loose	15	1.0 (47.8)
Loose	20	1.4 (67.0)
Medium	25	1.7 (83.1)
Dense	30	2.0 (95.5)

Table 1: uideline for Side Friction in Siliceous Soil