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## **Pile Pier Foundation Analysis Design**

Instructional Materials  
Complementing FEMA  
P-751, Design  
Examples Pile/Pier  
Foundations View of  
cap with column above  
and piles below  
Foundation Design - 29  
Passive resistance (see  
Figure 4.2-5) p-y  
springs (see Figure  
4.2-4) Pile cap Pile

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## **Foundation Analysis and Desing - FEMA.gov**

Where To Download  
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Foundation Design[1] -  
ITD engineers,  
foundation design  
engineers and other  
engineers involved in  
the design or analysis  
of drilled concrete pier  
foundations located in  
areas of the United  
States with expansive

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soil. Special thanks from his fellow subcommittee members and co-authors ...

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r**

Pile Supported  
Foundation (Pile Cap)  
Analysis and Design  
Based on a  
geotechnical study, a  
pile supported  
foundation is required

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Analysis and Design

to support a heavily loaded building column. Design the pile cap shown in the following figure with 12 in. diameter piles and a service load capacity of 50 tons each.

### **Pile Supported Foundation (Pile Cap) Analysis and Design**

This Learning Module aims to provide up-to-date information on modern techniques of



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Analysis and Design

analysis and design of pile foundations. It addresses a range of practical issues involving axial and lateral loading on piles, the effects of ground movements on piles and pile groups, and pile load testing.

**Pile Foundations - Analysis and Design - pdf format only ...**

The pile foundation analysis is based upon several simplifying

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assumptions which affect the accuracy of the results. The computed results must always be reviewed with engineering judgement by the design engineer to assure that the values are reasonable. Also, the analysis results should be compared with load test results.

**Design of Pile  
Foundations - CED  
Engineering**

*Page 10/27*

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FileSuite is a powerful suite of software products for deep foundation analysis and design for both onshore and offshore projects. 24 Jun

DartisLog 1.0 DartisLog is a bore log software that will help users to create soil borehole logs specially adjusted for the Geotechnical Engineer.

**POLEFDN - Pole Foundation Analysis**

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## **Spreadsheet**

analysis of laterally loaded single piles; and spColumn, to determine concrete pile section capacities.

### 5.1 SHALLOW

FOUNDATIONS FOR A SEVEN--STORY OFFICE BUILDING, LOS ANGELES, CALIFORNIA

This example features the analysis and design of shallow foundations for two of the three framing

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## **Foundation Analysis and Design**

others seeking information on pile foundations. Detailed information is presented on pile design principles and criteria. Administrators, engineers, and researchers are faced continually with many highway problems on which much information already exists either in documented form or in

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terms of  
undocumented

experience and  
practice.

## **DESIGN OF PILE FOUNDATIONS**

The main components of the foundation are the pile cap and the piles. Piles are long and slender members which transfer the load to deeper soil or rock of high bearing capacity avoiding shallow soil of low

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bearing capacity The main types of materials used for piles are Wood, steel and concrete.

## **Pile Foundation Design[1] - ITD**

3.2.5 Lateral

Resistance of Shallow Foundations 51 3.3

DESIGN OF SHALLOW FOUNDATIONS ON

ROCK 51 3.4 PLATE

LOADING TEST 52 3.5

RAFT FOUNDATIONS 53

4. TYPES OF PILE 55

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4.1 CLASSIFICATION OF

PILES 55 4.2 LARGE-

DISPLACEMENT PILES

56 4.2.1 General 56

4.2.2 Precast

Reinforced Concrete

Piles 56 4.2.3 Precast

Prestressed Spun

Concrete Piles 57 4.2.4

...

**FOUNDATION**

**DESIGN AND**

**CONSTRUCTION**

The types of pile

foundation are end-

bearing piles, friction



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piles, compaction piles, anchor piles, tension or uplift piles, sheet and batter piles, etc. The types of pier foundations are masonry or concrete piers and drilled caissons. 7: Pile foundation is required to resist greater loads like a load of bridge or flyover. Pier foundations are required for small loading.

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## **7 Major Difference Between Pile and Pier Foundation ...**

BEAVA & Staad

Foundation will be used for this purpose. These programs include the analysis of circular piers. Also, it includes the option for the complete analysis and design of pile foundations on the basis of the relevant IS Codes of Practice.

**ANALYSIS AND**

*Page 18/27*

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## **DESIGN OF BRIDGE FOUNDATION**

engineers, foundation design engineers and other engineers involved in the design or analysis of drilled concrete pier foundations located in areas of the United States with expansive soil. Special thanks from his fellow subcommittee members and co-authors go to Robert L. Lytton,

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**DESIGN PROCEDURE  
FOR DRILLED  
CONCRETE PIERS**

Chapter 8 Foundation

Design 8.1 Overview

This chapter covers the geotechnical design of bridge foundations, cut-and-cover ... results of the structural analysis and modeling and the effect that modeling and analysis has on foundation types, locations, sizes, and depths, as well as any

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design assumptions ...

Driven Pile Foundations

- pile end ...

## **Chapter 8**

### **Foundation Design**

Instructional Materials

Complementing FEMA

451, Design Examples

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14-28 Pile/Pier

Foundations Passive

resistance (see Figure

4.2-5) p-y springs (see

Figure 4.2-4) Pile cap

Pile View of cap with

column above and

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piles below.

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**Topic 14 -**

**Foundation Design -**

**Memphis**

Understanding

Diamond Pier & Pin Pile

Technology Pin

Foundations, Inc.,

manufacturer of the

Diamond Pier, has

been designing and

manufacturing

foundations for over 25

years. One thing has

always driven our

thinking; The Earth is

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the actual foundation, and soils, in their natural undisturbed state, have the strength and structure to do the job.

## **How It Works | Diamond Pier**

Drilled Pier (Bored Pile)

Software COMPLETE

ANALYSIS & DESIGN OF

A DRILLED SHAFT

FOUNDATION Bored

Pile Software is

Compatible with

Australian AS

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2159-2009 & American

ACI 318-14. Up until

now, you needed one

program for axial

capacity, another for

lateral load analysis

and yet a third

program for

reinforcement design.

**Drilled Pier (Bored**

**Pile) Software -**

**SoilStructure**

**Software**

In this study, design

concepts of a pile-raft

system prepared by 2D-



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FEM analysis combined with equivalent pier were presented.

Furthermore, the test results obtained from this method were compared with the results that were taken from equivalent raft method and equivalent pier with single pile response in a sandy soil.

**An Analytical Approach for Piled-Raft Foundation**

*Page 25/27*

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**Design ...**

Port and Harbour

Structures by Prof. R. S

undaravadivelu, Depart

ment of Ocean

Engineering, IIT

Madras. For more

details on NPTEL visit

<http://nptel.ac.in>

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ecf8427e.

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