

GEOTECHNICAL ENGINEERING REPORT

1.0 INTRODUCTION

This geotechnical engineering report has been completed for the proposed Public Safety Building and Elderly Duplex Buildings to be constructed in Wyandotte, Oklahoma. A total of nine borings, designated B-1 through B-9, were performed to depths of approximately 3 to 15 feet below the existing ground surface. Logs of the borings along with a site location map and boring location plans are included in Appendix A of this report.

The purpose of these services is to provide information and geotechnical engineering recommendations relative to:

- subsurface soil and rock conditions
- groundwater conditions
- earthwork
- floor slab subgrade preparation
- foundation design and construction
- pavement design and construction

2.0 PROJECT INFORMATION

2.1 Project Description

ITEM	DESCRIPTION
Site layout	See Appendix A, Figure A-3, Boring Location Plan.
Buildings	Elderly Duplexes: 4 single-story buildings with approximate footprint area of 3,200 ft ² for each building. Public Safety Building: single-story building with approximate footprint area of 5,500 ft ² .
Building Construction	slab-on-grade
Maximum loads	Columns: 75 kips (assumed) Walls: 3 kips/ft. (assumed)
Grading	A grading plan for the proposed project has not been completed at this time; however, we assume minimal cut and/or fill is required to develop final grades.

Structural Engineering Report Example

Stephen E. Petty



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Remarkable Structures Sutherland Lyall, 2002-06 Never before have engineers played such a pivotal role in the process of making architecture Their underappreciated task is to transform the designer's vision sometimes not much more than a cardboard model or computer rendering into a built form of concrete steel glass stone or wood Forensic Engineering Stephen E. Petty, 2021-09-23 Serving as a comprehensive resource that builds a bridge between engineering disciplines and the building sciences and trades *Forensic Engineering Damage Assessments for Residential and Commercial Structures* Second Edition provides an extensive look into the world of forensic engineering Focusing on investigations associated with insurance industry claims the book describes methodologies for performing insurance related investigations including the causation and origin of damage to residential and commercial structures and or unhealthy interior environments and adverse effects on the occupants of these structures Edited by an industry expert with more than 40 years of experience and contributors with more than 100 years of experience in the field the book takes the technical aspects of engineering and scientific principles and applies them to real world issues in a nontechnical manner The book provides readers with the experiences investigation methodologies and investigation protocols used in and derived from thousands of forensic engineering investigations **FEATURES** Covers 24 topics in forensic engineering based on thousands of actual field investigations Provides a proven methodology based on engineering and scientific principles experience and common sense to determine the causes of forensic failures pertaining to residential and commercial properties Includes references to many codes standards technical literature and industry best practices Illustrates detailed and informative examples utilizing color photographs and figures for industry best practices as well as to identify improper installations Combines information from a multitude of resources into one succinct easy to use guide This book details proven methodologies based on over 10 000 field investigations in which the related strategies can be practically applied and appreciated by both professionals and laymen alike *Architectural Conservation Technology: Historic site analysis* ,1994 The Structural Engineer ,2004 *The Proceedings of the ... Annual Meeting of the Building Officials' Conference ...* ,1919 **Federal Involvement in Hazardous Geologic Areas** United States. Congress. House. Committee on Government Operations. Special Studies Subcommittee, 1969 Investigates FHA and VA financed housing construction in areas susceptible to earthquakes floods mud slides and earth faulting **Earthquake Engineering** Alberto Bernal, 1992-01-01 The official proceedings of the 10th world conference on earthquake engineering in Madrid Coverage includes damage in recent earthquakes seismic risk and hazard site effects structural analysis and design seismic codes and standards urban planning and expert system application **Transactions of the Illuminating Engineering Society** ,1922 *Federal Involvement in Hazardous Geological Areas* United States. Congress. House. Government Operations, 1969 *Engineering and Contracting* Halbert Powers Gillette, 1926 **Engineering & Contracting** ,1917 *Transactions and Notes of the Concrete Institute* ,1925 Engineering

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