

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.

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web the discriminant for any quadratic equation of the form $y = ax^2 + bx + c$ is found by the following formula and it provides critical information regarding the nature of the roots solutions of any quadratic equation formula discriminant $b^2 - 4ac$

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