



Project No. S9962-05-23B
July 27, 2023

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Architecture & Engineering
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1131 S Street
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Subject: GEOTECHNICAL REPORT CLARIFICATION
PROPOSED PARKFIELD FIRE STATION
70331 VINEYARD CANYON ROAD
PARKFIELD, MONTEREY COUNTY, CALIFORNIA

Reference: *Geotechnical Report Update, Proposed Parkfield Fire Station, 70331 Vineyard Canyon Road, Parkfield, California*, prepared by Geocon Consultants, Inc. (Project No. S9962-05-23B), June 12, 2020.

Mr. Vincent:

In the referenced geotechnical report update (Geocon, 2020), for the proposed Parkfield Fire Station, Geocon recommended that the foundation system for the proposed fire station building consist of shallow foundations consisting of interconnected continuous footings or individual spread footings interconnected with tie beams detailed in accordance with ASCE 7-16 Section 12.13.9.2.1. This recommendation was due to the estimated magnitude of liquefaction differential settlement at the site. Although the site is subject to liquefaction, it is not subject to permanent lateral spread displacements.

To clarify, the provisions of 12.13.9.2.1 applies to this project but its subsections 1. and 2. do not apply because the site is not subject to permanent ground displacement induced by lateral spreading. Therefore, the tie force used for tie-beam design should be per 12.13.8.2 and individual footings do not need to be integral or connected to a reinforced slab-on-grade. Further, a mat foundation per 12.13.9.2.1.2 can be used as an alternative to foundation ties.

Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices used in this area at this time. We make no warranty, express or implied.

Please contact us if you have any questions concerning the contents of this report or if we may be of further service.

Respectfully Submitted,

GEOCON CONSULTANTS, INC.


Jeremy J. Zorne, PE, GE
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