

**INLAND FOUNDATION ENGINEERING, INC.**  
**Consulting Geotechnical Engineers and Geologists**  
**www.inlandfoundation.com**  
**P.O. Box 937, San Jacinto, California 92581**

June 25, 2018  
Project No. C522-001

Attention: John Kiley, Vice President  
**CAMFIELD ESPLANADE, LLC**  
8895 Research Drive  
Irvine, California 92618

Re: Addendum to Geotechnical and Geologic Review Report dated June 14, 2018  
Response to Review Comments  
Existing Commercial Building Site and Proposed Charter School  
1091 Esplanade Avenue  
San Jacinto, California

Dear Mr. Kiley:

At your request, we have reviewed the items forwarded to us in your e-mails of June 20 and June 21, 2018 regarding the referenced report, dated June 14, 2018. Below are our responses to each of the items.

**1. Describe the project as a school and not a residential use.**

As stated on page 3 of the referenced report dated June 14, 2018, we understand that the existing building is being considered for use as a charter school. We understand the structure is not subject to the State of California Division of the State Architect (DSA) or California Geologic Survey (CGS) requirements for school projects. Our evaluation was limited to the geologic and geotechnical conditions at the site based on previous exploration and testing by IFE, and the building code and standard of care at the time the services were conducted.

References to the proposed residential development were based on reviewed documents referring to the proposed development at the time the previous IFE reports were issued. As indicated in our report dated June 14, 2018, we take no exception to the building's currently proposed use as a charter school, based on the geotechnical and geologic site conditions as we understand them. The suitability of the structure itself for use as a charter school should be evaluated by a licensed structural engineer and/or architect.

**2. Include a map of the Alquist-Priolo Zone in relation to the site.**

Attached is a portion of the State of California Earthquake Fault Zone Map (Alquist-Priolo), San Jacinto 7.5' Quadrangle (C.D.M.G., 1980) depicting the mapped special studies earthquake fault zone associated with the Casa Loma Fault and the approximate location of the subject site.

### 3. Provide a finding describing the likelihood of a fault rupture during the life of the school.

Based on our review of the previous geologic/fault evaluation report prepared by IFE, dated June 25, 2005, we expect a moderate to high probability that surface rupture along some portion(s) of the Casa Loma Fault Zone could occur within the life of the proposed charter school.

Ground rupture is generally considered most likely to occur along pre-existing faults. We would expect that if surface rupture occurred, the rupture would likely occur along known fault branches as discussed in the 2005 geologic/fault evaluation study by IFE. As indicated, it should be recognized that any area close to major fault zones could be subject to "new faulting" (Collins, 1990) during severe seismic events.

### 4. Updated Seismic Parameters

For informational purposes, and based on our understanding that this project does not fall under the jurisdiction of the requirements of the California Geologic Survey (CGS) or California Division of the State Architect (DSA) for public schools, hospitals, or essential services buildings, we have provided updated 2016 California Building Code (CBC) seismic parameters for this site. On the bases of the subsurface conditions and local fault characteristics encountered during the 2005 IFE study, the 2016 California Building Code provides the following seismic design parameters using the *General Procedure Ground Motion Analysis* as presented in the following table.

#### 2016 CBC Seismic Design Parameters

Site Coordinates	33.7742°N / -116.9800°W (WGS 84)	
Seismic Parameter	2016 CBC / ASCE 7-10 Reference	Value
Site Class	- - - / Table 20.3-1	D
S <sub>s</sub> - Mapped Spectral Acceleration for Short Period	Fig. 1613.3.1(1) / Figure 22-1	2.524
S <sub>1</sub> - Mapped Spectral Acceleration for 1-sec Period	Fig. 1613.3.1(2) / Figure 22-2	1.101
F <sub>a</sub> - Short Period Site Coefficient	Table 1613.3.3(1) / Table 11.4-1	1.000
F <sub>v</sub> - Long Period Site Coefficient	Table 1613.3.3(2) / Table 11.4-2	1.500
S <sub>MS</sub> - Maximum Considered Earthquake Spectral Response Acceleration, 5% damped, 0.2-sec period, adjusted for Site Class	Eq. 16-37 / Eq. 11.4-1	2.524 g
S <sub>M1</sub> - Maximum Considered Earthquake Spectral Response Acceleration, 5% damped, 1-sec period, adjusted for Site Class	Eq. 16-38 / Eq. 11.4-2	1.651 g
S <sub>DS</sub> - Design Earthquake Spectral Response Acceleration, 5% damped, 0.2-sec period	Eq. 16-39 / Eq. 11.4-3	1.683 g
S <sub>D1</sub> - Design Earthquake Spectral Response Acceleration, 5% damped, 1-sec period	Eq. 16-40 / Eq. 11.4-4	1.101 g
MCE <sub>G</sub> PGA - Maximum Considered Earthquake Geometric Mean for Site Class B	- - - / Figure 22-7	0.973
PGA <sub>M</sub> - MCE <sub>G</sub> PGA adjusted for Site Class	- - - / Eq. 11.8-1	0.973 g
Seismic Design Category	Sect. 1613A.3.5	E

Additional site specific ground motion analysis would be required if the project was under the jurisdiction of CGS or DSA for a public school facility. This should be confirmed by the Structural Engineer.

This letter was prepared as an addendum to the referenced geotechnical and geologic review report dated June 14, 2018 and is subject to the same limitations stated therein.

We appreciate the opportunity to be of service to you on this project. If you have any questions, please contact our office.

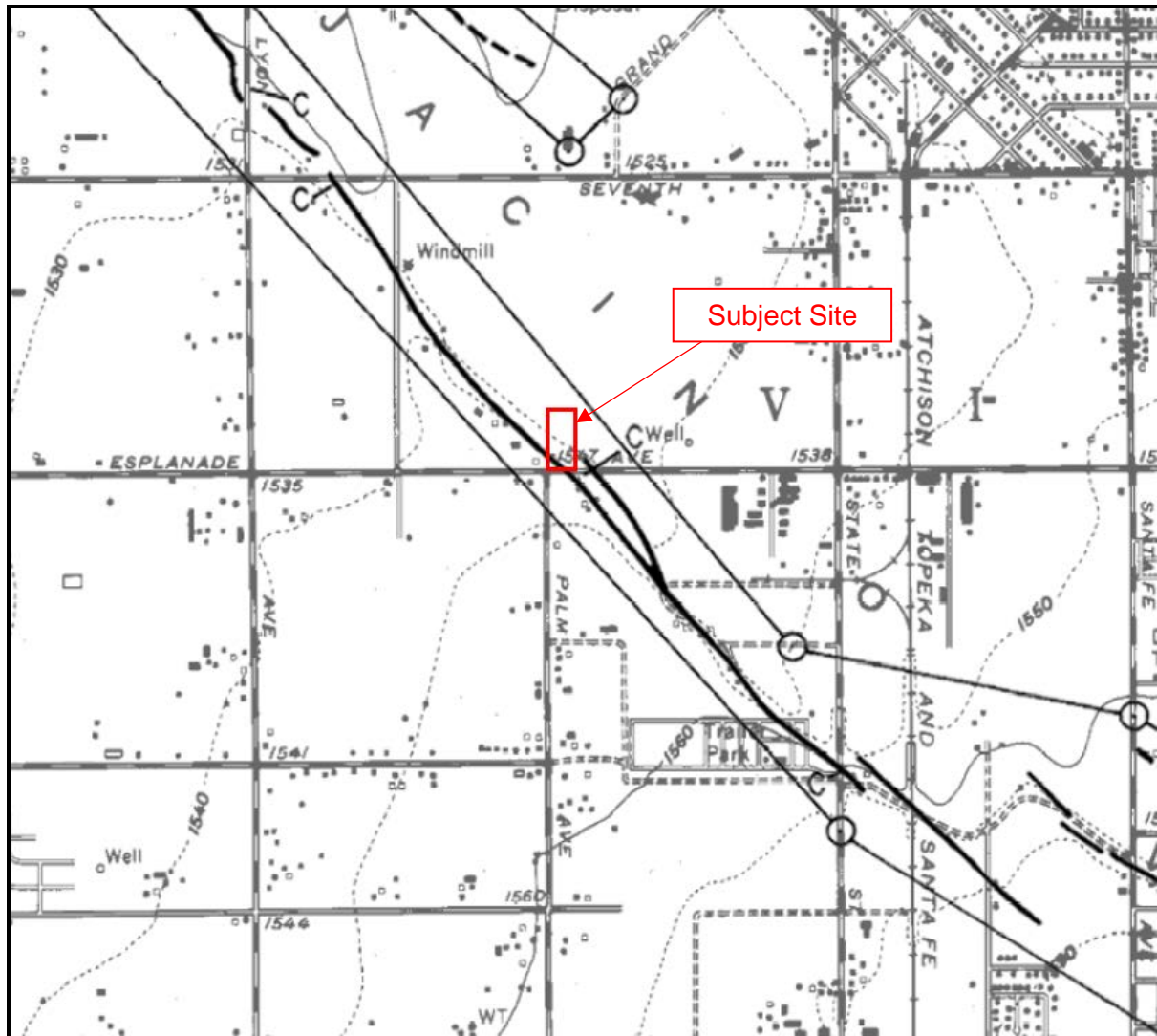
Respectfully,  
**INLAND FOUNDATION ENGINEERING, INC.**

  
**Daniel R. Lind, P.E., C.E.G.**  
Vice President

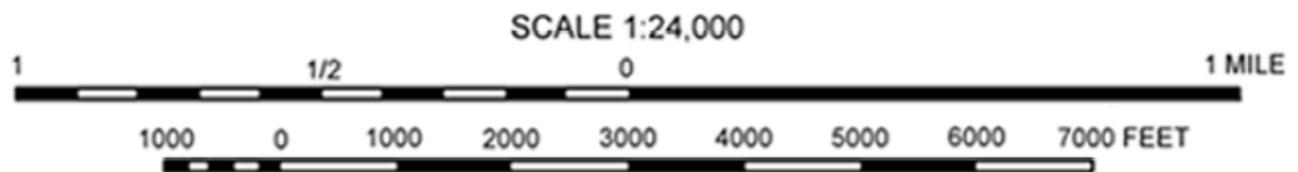
  
**Allen D. Evans, P.E., G.E.**  
Principal

DRL:ADE:es  
Addressee (1)

# State of California Earthquake Fault Zone Map (Alquist-Priolo)



Base Map: C.D.M.G., 1980, San Jacinto 7.5' Earthquake Fault Zone Quadrangle



## MAP EXPLANATION

### Potentially Active Faults

1906 C  
 Faults considered to have been active during Quaternary time; solid line where accurately located, long dash where approximately located, short dash where inferred, dotted where concealed; query (?) indicates additional uncertainty. Evidence of historic offset indicated by year of earthquake-associated event or C for displacement caused by creep or possible creep.

--- Aerial photo lineaments (not field checked); based on youthful geomorphic and other features believed to be the results of Quaternary faulting.

### Special Studies Zone Boundaries

○—○ These are delineated as straight-line segments that connect encircled turning points so as to define special studies zone segments.

—○ Seaward projection of zone boundary.