October 7, 2020
T0031H

TO: Kelly Reynolds, P.E.
Associate Civil Engineer
CITY OF FREMONT ENGINEERING DEPARTMENT
39550 Liberty Street
Fremont, California 94537-5006

SUBJECT: **Supplemental Geotechnical Peer Review**
RE: Proposed Residential Subdivision
Omaha Way and East Warren Avenue
Task Order No.?

At your request, we have completed a supplemental geotechnical peer review of the following submitted letter:

- Supplemental Information, Proposed Site Development, Tiffany Park Estate Property, East Warren Avenue (Letter) prepared by Upp Geotechnology, dated October 2, 2020; and

- Supplemental Information and Response to Comments, Proposed Site Development, Tiffany Park Estate Property, East Warren Avenue (Letter) prepared by Upp Geotechnology, dated July 10, 2019.

In addition, we have reviewed pertinent reports from our office files.

DISCUSSION

We understand that existing neighboring property owners have expressed concerns that the proposed residential subdivision project grading and improvements could adversely impact their properties.

GEOTECHNICAL EVALUATIONS

The Geotechnical Consultant, UPP Geotechnology, has prepared the above referenced letter to address these concerns.

The Geotechnical Consultant indicates that the completed project will not adversely impact the fault rupture potential. The Geotechnical Consultant also opined that because the proposed grading includes removal of existing landslides, and installation of retaining walls and drainage systems, the completed project will ultimately decrease the risk of slope instability to the neighboring properties.

The Geotechnical Consultant further confirmed that during construction, they will be on-site to observe excavations, identify additional fault traces, and developed "on the fly" mitigation measures, as necessary, to address unstable conditions and prevent damage and distress. Finally, the Geotechnical Consultant concludes that *" . . . there is negligible risk to other homes, even if movements of the existing landslides occur during the construction process."*

CONCLUSIONS AND RECOMMENDED ACTIONS

We concur with the Geotechnical Consultant that the proposed project should not adversely impact the existing fault rupture hazard. We also agree that if the proposed grading completely removes all of the landslide debris, as indicated in the UPP Geotechnology July 10, 2019 letter, then the resulting project should not adversely impact the landslide hazards to the neighboring properties.

We have previously expressed concerns regarding the stability of temporary unsupported construction cuts, and we continue to be concerned. While we consider the likelihood of a temporary cutslope failure to adversely impact Interstate 680 to be higher than that for impacts to the neighboring residents, we recommend that both potential hazards should be monitored throughout construction.

The Project Team should consider installing an array of survey monuments and implementing periodic monitoring of the monuments to evaluate the stability of the temporary cuts adjacent to neighboring properties. The Project Team should also consider preparing an action plan that includes implementing specific action items depending on the rate and amount of measured deflections.

LIMITATIONS

This supplemental geotechnical peer review has been performed to provide technical advice to assist the City with its discretionary permit decisions. Our services have been limited to an independent review the referenced geotechnical report to

determine the adequacy of the liquefaction hazard evaluation and any associated mitigation measures. Our opinions and conclusions are made in accordance with generally accepted principles and practices of the geotechnical profession. This warranty is in lieu of all other warranties, either expressed or implied.

Respectfully submitted,

COTTON, SHIRES AND ASSOCIATES, INC.
CITY GEOTECHNICAL CONSULTANT

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