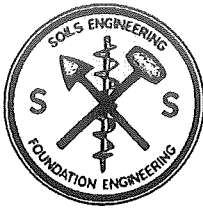


Attachment L

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SOIL



SURVEYS GROUP INC.

103 CHURCH ST • SALINAS, CALIFORNIA 93901 • TELEPHONE (831) 757-2172

July 1, 2022

Job #7938

Tres Guapos, LLC
c/o Avila Construction Company
Attn: Jeffrey Nohr
12 Thomas Owens Way, Suite 200
Monterey, CA 93940

Re: **PLN210152** - Addendum to Address the High Liquefaction Hazard for the Four Proposed Two-Story Apartment Buildings for the Agricultural Housing Project to be Located at 0 Susan Street, APN 117-361-016, in Pajaro, California

Dear Mr. Nohr;

This letter is an addendum to our original Geotechnical and Infiltration Investigation, dated October 8, 2021 to address in detail the potential hazard and mitigation measures of damaging liquefaction risks associated with the proposed development of four two-story apartment buildings for the proposed agricultural housing project to be located at 0 Susan Street, APN 117-361-016, in Pajaro, California. We respond to the liquefaction hazards per the California Geological Survey, Special Publication 117A as follows:

Item 1: Are potentially liquefiable soil types present on the project site?

Yes. Our five geotechnical borings were located throughout the project site specifically in close proximity to the location of the four proposed two-story structures as shown on Figure II.

Boring B-1: The near surface soil consists of loose, silty sand with organics to a depth of 1.0 feet underlain by medium dense silty, fine to medium grained sand to a depth of 2.5 feet. Below this depth, the soil consists of stiff, fine grained sandy, silty clay to depth of 11.5 feet underlain by stiff, silty clay to a depth of 21.0 feet. Below this depth, the soil consists of stiff, fine grained sandy, clayey silt to depth of 26.5 feet underlain by loose/stiff, clayey, fine grained sand/sandy clay to a depth of 31.5 feet. Below this depth, the soil consists of stiff, silty clay to a depth of 43 feet underlain by medium dense, clayey, silty, fine grained sand to the bottom of the boring at 51.5 feet in depth.

Boring B-2: The near surface soil consists of loose, silty, clayey sand to a depth of 2.5 feet underlain by firm, clayey, fine grained sandy silt to a depth of 4.5 feet. Below this depth the soil consists of firm, silty clay to a depth of 6.5 feet underlain by loose/firm, silty sand/sandy silt to a depth of 11.5 feet. Below this depth of the soil consists of medium dense, fine to medium grained sand to the bottom of the boring at 21.5 feet in depth.

Boring B-3: The near surface soil consists of stiff, fine grained sandy, clayey, silt to a depth of nine feet underlain by loose, slightly silty fine to medium grained sand to a depth of clay to a depth of 16.5 feet. Below this depth the soil consists of medium dense, silty, fine to medium grained sand with traces of clay to the bottom of the boring at 21.5 feet in depth.

Boring B-4: The near surface soil consists of stiff, fine grained sandy, silty clay to a depth of 2.5 feet underlain by loose, silty fine grained sand to a depth of 4.5 feet. Below this depth, the soil consists of loose, fine grained sand with thin veins of silty clay to a depth of 11.5 feet underlain by medium dense, silty fine

grained sand to the bottom of the boring at 16.5 feet in depth.

Boring B-5: The near surface soil consists of stiff, fine grained sandy, silty clay to a depth of 2.5 feet underlain by medium dense, slightly clayey, silty, fine to medium grained sand to a depth of 11.5 feet. Below this depth, the soil consists of firm, sandy, silty clay to a depth of 13.0 feet underlain by medium dense silty sand to the bottom of the boring at 16.5 feet in depth.

Item 2: If present, are the potentially liquefiable soils saturated or might they become saturated?

Yes. Groundwater was measured in Boring B-1 at a depth of 11.9 feet, in Boring B-2 at a depth of 12.25 feet, in Boring B-3 at a depth of 12.5 feet and in Boring B-5 at a depth of 13.25 feet in depth below ground surface. The actual depths of groundwater may fluctuate due to variations in rainfall, temperature, and other factors not evident during the time of our investigation.

Item 3: Is the geometry of potentially liquefiable deposits such that they pose significant risks requiring further investigation, or might they be mitigated by foundation strengthening?

No, further investigation is not required. Our Geotechnical and Infiltration Investigation Report, dated October 8, 2021, and our Addendum for Deep Subexcavation/Recompaction with Standard Spread Footings, dated November 11, 2021, have recommendations for subexcavation and recompaction of the upper 5.0 feet of materials encountered during our investigation and are provided therein. In our opinion, the risk for damaging liquefaction and/or differential compaction and settlement during a major seismic event is considered to be low, provided the subexcavation and recompaction of the upper 5.0 feet of the native material; the addition of an additional 2 feet of compacted fill overburden; and the foundation system is designed as recommended are included in the project construction documents.

Item 4: Are in-situ soil densities sufficiently high to preclude liquefaction?

No, the near surface soil densities are not sufficiently high enough to preclude liquefaction. Our recommendations for subexcavation and recompaction, additional compacted soil fill above the existing soil grades and the reinforcement of the foundations will mitigate the low soil densities of near surface soils. The liquefaction hazard risk is reduced to low hazard provided the recommendations of our Report and Addendum are followed.

If you have any questions regarding this letter, please contact us. It has been a pleasure working with you on this project.

Very truly yours,

SOIL SURVEYS GROUP, INC.



Belinda A. Taluban, P.E.
R.C.E. 44217



BAT/tr

Figure II - Boring Locations

cc: County of Monterey, Housing and Community Development

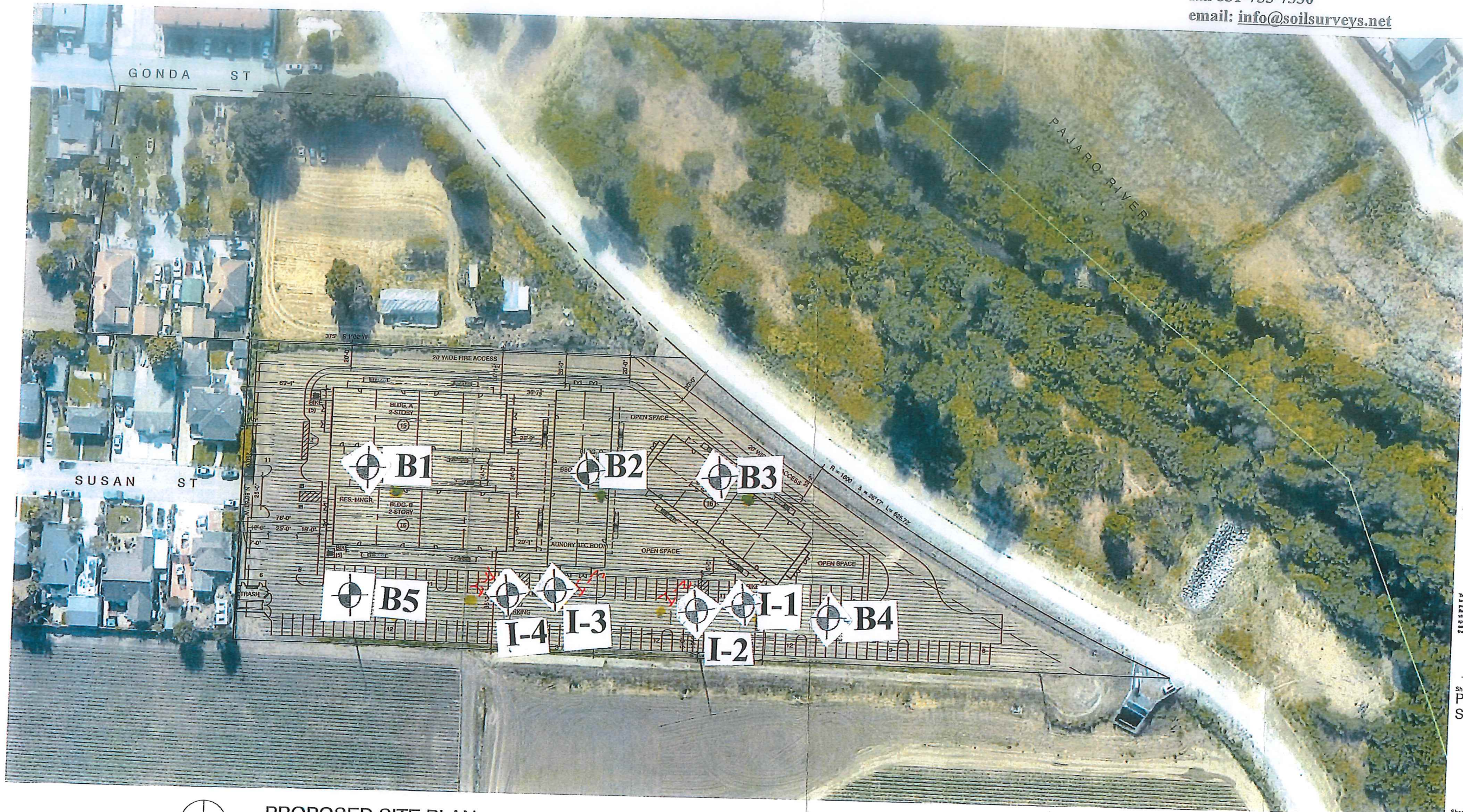
BASE: 0 Susan Street, Pajaro, California
 APN: 117-361-016
 Plans by The Paul Davis Partnership, LLP, 06.22.21- Job #7938

FIGURE II



Boring Locations (approx.)

By: Soil Surveys Group, Inc.
 103 Church Street
 Salinas, CA 93901
 ph. 831-757-2172
 fax 831-755-7330
 email: info@soilsurveys.net



THE PAUL DAVIS PARTNERSHIP
 ARCHITECTS & PLANNERS

The Paul Davis Partnership, LLP
 256 Eldorado Street
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 EMAIL: info@pauldavispartnership.com



Drawn By: AC
 Drawing Date: 6.22.2021
 Project Number: 2114

Revisions:
 DRC MEETING 6/14/2021

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Sheet Title:
PROPOSED SITE PLAN

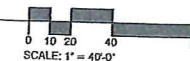
Sheet Number:



NORTH

PROPOSED SITE PLAN

SCALE: 1" = 40'-0"



SCALE: 1" = 40'-0"

A1.1

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