GEOCON INCORPORATED

GEOTECHNICAL E ENVIRONMENTAL E MATERIALS



Project No. G3017-32-02 June 5, 2023

Granite Construction 5860 El Camino Real Carlsbad, California 92008

Attention: Mr. Tim Burhoe

Subject: RESPONSE TO CITY OF SAN DIEGO REVIEW COMMENTS NIGHTHAWK GEN-TIE SAN DIEGO, CALIFORNIA

- References: 1. *Geotechnical Investigation, Granite Poway Pad No. 2, 13501 Kirkham Way, Poway, California*, prepared by Geocon Incorporated, dated November 14, 2022 (Project No. G3017-32-01).
  - 2. *Geotechnical Investigation, Beeler Creek Access Roadway, 13501 Kirkham Way, Poway, California,* prepared by Geocon Incorporated, dated September 17, 2020 (Project No. G2592-32-01).
  - 3. Final Report of Testing and Observation Services During Site Grading and Improvement Construction, Beeler Creek Restoration and Access Road, 13501 Kirkham Way, Poway, California, prepared by Geocon Incorporated, dated April 8, 2022 (Project No. G2592-32-02).
  - 4. *Plans for: Nighthawk Gen-Tie*, prepared by TSAC Engineering, Sheets 1 through 19, undated.

Dear Mr. Burhoe:

This correspondence has been prepared to respond to a comment contained in the February 22, 2023, *Project Issues Report PRJ-1075505* prepared by the City of San Diego DSD-Environmental section. Specifically, we are responding to Comment No. 36, Geological Conditions. The comment along with our response is presented below.

Comment No. 36: The site is located in Geological Hazard Type 32 (liquefaction). Per information Bulletin 515, Geotechnical Study Requirements, it appears a technical study would be required. Please review Bulletin and include Geology staff in the next submittal.
Response: We reviewed the referenced plans, geotechnical reports and performed a geologic reconnaissance along the proposed alignment. The underground electric line will extend from the proposed Nighthawk Energy Storage facility in Poway (Pad No. 2), southward to the Sycamore Substation in the City of San Diego (see Vicinity Map, Figure 1). The portion within the City of San Diego will be mostly placed in

a 30-foot-wide existing graded easement road, and to a lesser extent, natural ground. The total length of the line within the City of San Diego limits is approximately 3,800 feet.

Our geologic reconnaissance was performed on May 30, 2023, and consisted of surface mapping along the proposed alignment. We also performed an aerial drone reconnaissance. In most areas, the geologic conditions were well exposed in slope excavations. The approximate location of the proposed alignment is presented on the regional geologic map, Figure 2.

The northern section, and majority of the proposed alignment, is contained within Green Valley Court which is an easement road situated on a hillside on the northeastern flank of a drainage. The roadway is underlain by very dense Stadium Conglomerate, or compacted fill generated from grading of the easement. Through this section, the proposed line will not traverse any natural drainages or be underlain by materials conducive to liquefaction.

A minor portion of the alignment (less than 100 feet of 3,800 feet) south of Stonebridge Parkway, will cross an ephemeral drainage that appears to be a first or second order tributary to Beeler Creek. Our observations indicated that no surface water was present in this drainage, and the alluvium was limited in extent. In addition, the alluvial soils appeared to be well graded, sandy cobble conglomerate derived from the Stadium Conglomerate. The proposed alignment south of this area will by supported by the Stadium Conglomerate.

Based on our geologic reconnaissance, and experience in the proposed project area, it is our opinion that the conditions necessary for seismically induced liquefaction beneath the proposed electric line do not exist; therefore, the potential for this phenomenon to occur in the event of a large earthquake is nil.

If there are any questions regarding this correspondence, or if we may be of further service, please contact the undersigned at your convenience.

Very truly yours,

GEOCON INCORPORATED

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Trevor E. Myers RCE 63773

TEM:DBE:am

(e-mail) Addressee



David B. Evans CEG 1860





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SOURCE: Kennedy P. Michael and Tan S. Siang, 2008, *Geologic Map of San Diego 30'x60' Quadrangle, California U.S. Geological Survey, Department of Earth Sciences, University of California, Riverside.* 



## NIGHTHAWK GEN-TIE SAN DIEGO, CALIFORNIA



1,000' 2,000' 3,000' 4,000' 0' SCALE 1"=2,000'(on 11x17)

## (SEE FIGURE 3 FOR LEGEND)



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