



Project No. 06980-22-02
June 19, 2008

Helix Environmental Planning, Inc.
7578 El Cajon Boulevard, Suite 200
La Mesa, California 91941

Attention: Mr. Sean Cardenas

Subject: MELROSE DRIVE EXTENSION
OCEANSIDE, CALIFORNIA
GEOTECHNICAL UPDATE LETTER

- References:
1. *Geologic Reconnaissance, Melrose Drive Extension, San Diego County and City of Oceanside, California*, prepared by Geocon Incorporated, dated November 4, 2002 (Project No. 06980-22-01).
 2. *Supplemental Letter, Melrose Drive Extension, San Diego County and City of Oceanside, California*, prepared by Geocon Incorporated, dated November 6, 2002 (Project No. 06980-22-01).
 3. *Preliminary Melrose Drive Extension Right of Way Alternatives*, prepared by Project Design Consultants, dated August 1, 2007.

Dear Mr. Cardenas:

In accordance with your request, we have prepared this letter to provide an opinion pertaining to the soil and geologic conditions along the proposed alignments, related to those presented in the referenced Geologic Reconnaissance Report dated November 4, 2002, and Supplemental Letter, dated November 6, 2002. The study area is located along three proposed alignments of Melrose Drive between North Santa Fe Avenue and Spur Avenue. The project will consist of extending Melrose Drive between North Santa Fe Avenue and Spur Avenue and widening approximately 1,900 feet of the existing Melrose Drive south of North Santa Fe Avenue.

The southern segment of Melrose Drive currently terminates at the intersection with North Santa Fe Avenue. The western side of the existing southern segment is bordered by private residential properties. The eastern side of this existing segment is bordered by private property currently used as a horticultural nursery. Some landfilling with construction and agricultural debris is evident east of Melrose Drive. Immediately north of the existing southern segment's terminus at North Santa Fe Avenue is a westward-draining river channel. To the north of the channel is a granitic hill on which an equestrian facility, agricultural businesses, and private residences are located. The equestrian facility and residences are bounded on the west by Guajome Park. The portion of the park within the study area is essentially undeveloped except for several hiking and riding trails.

Guajome Lake Road crosses the central portion of the proposed Melrose Drive extension alignment in an approximately east-west direction. To the north of Guajome Lake Road, a horticultural nursery and

private residences occupy the study area. The southern terminus of the existing northern segment of Melrose Drive consists of an embankment constructed adjacent to an approximately westward-draining channel. This northern segment is bounded on both sides by private residences.

Our scope of services included visiting the site in 2007, reviewing the referenced project plans, reviewing our previous Geologic Reconnaissance Report and Supplemental Letter, and preparing this update letter. According to our review of the referenced geotechnical reports, the site is underlain by surficial deposits consisting of topsoil, previously placed fill, undocumented fill, and alluvium overlying formational units consisting of the Bonsall Tonalite (which is part of the granitic Southern California Batholith) and the sedimentary Santiago Formation. No significant geologic hazards that would adversely affect the proposed project were observed or are known to exist on the site. Adverse geotechnical conditions present at the site include potentially compressible surficial soil containing material unsuitable for reuse as compacted fill, a seasonal shallow perched groundwater table in the vicinity of the drainage channel, and potentially difficult excavation conditions within the Bonsall Tonalite that may require blasting.

It is our opinion that the site is currently in a similar condition to that encountered during our geologic reconnaissance in 2002. Therefore, we conclude that our evaluation of the subsurface soil and geologic conditions at the site presented in the referenced Geologic Reconnaissance Report and Supplemental Letter is valid. We understand that grading plans for the development of the property have not been prepared at the time of this update letter. Before the finalization of grading plans, the preparation of a Geotechnical Investigation will be necessary. Recommended grading specifications, foundation criteria (if necessary), retaining wall criteria (if necessary), temporary excavations, excavation characteristics, preliminary pavement recommendations, liquefaction analysis, slope stability analysis, and remedial grading measures should be included in the report.

Should you have any questions regarding this letter, or if we may be of further service, please contact the undersigned at your convenience.

Very truly yours,

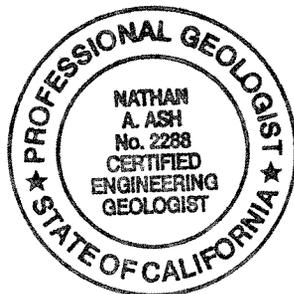
GEOCON INCORPORATED



Nathan A. Ash
CEG 2288

NAA:JJV:dmc

(6) Addressee



Joseph J. Vettel
GE 2401

