



GeoConcepts, Inc.
Geology • Geotechnical Engineering

14428 Hamlin St., #200
Van Nuys, CA 91401
Office (818) 994-8895
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www.GeoConceptsInc.com

September 27, 2010
Revised October 5, 2010

Project 1680

Whole Foods
c/o Goldman Firth Rossi Architects
24955 Pacific Coast Highway
Malibu, California 90265

Subject: **SUPPLEMENTAL REPORT No. 2**
23401 Civic Center Way,
Malibu, California

References:

- 1) Geotechnical Review Sheet by Fugro West, Inc. for the City of Malibu, dated May 27, 2010.
- 2) Report of Geotechnical Investigation by Van Beveren & Butelo, Inc. covering the subject site and dated August 7, 2007.
- 3) Supplemental Report No. 1 by GeoConcepts, Inc. covering the subject site and dated March 30, 2010 (revised April 22, 2010).

Dear Gentlemen,

Pursuant to your request, presented herein is a response to Reference 1. A copy of the review letter is attached. Items contained in the review letter are responded to below. The current grading plan depicts remedial grading to elevate the subject site above the flood plain.

To facilitate the review, the following responses are provided per the review letter:

Review Comments:

- Item #1: Attached is an updated map based on the currently proposed development. The plan essentially depicts the site be elevated from the existing grade up to about four (4) feet from the current grade.
- Item #2: A non-active fault is mapped by the U.S. Geologic Survey (1980) and Treiman, (1994) near the central portion of the site. On August 16, 2007, the fault zone near the east side of Malibu Bluff Park was removed from the State of California Earthquake Fault Zone map by the California Geologic Survey.

The previous seismic trenching on the site in the late 1990's (for a previous development) was logged by a licensed geologist. No positive evidence of active faulting was exhibited within these seismic trenches or test pits. Review of aerial photographs from 1928 and 1952 lack geomorphic evidence and/or photo-lineaments to suggest active faulting on the site. The site is not mapped within an active fault zone. Therefore, no known active fault is anticipated to daylight on the site.

Item #3: The design of the irrigation is being provided by others. It is our understanding that the proposed daily irrigation of the proposed landscaping will not significantly affect the groundwater levels. Therefore, no additional analysis is required at this time. If it is determined that the groundwater levels will significantly rise additional analysis should be performed.

Building Plan Check Stage Review Comments:

Item #1-5: Acknowledged.

Should you have any questions regarding this report, please do not hesitate to contact the undersigned at your convenience.

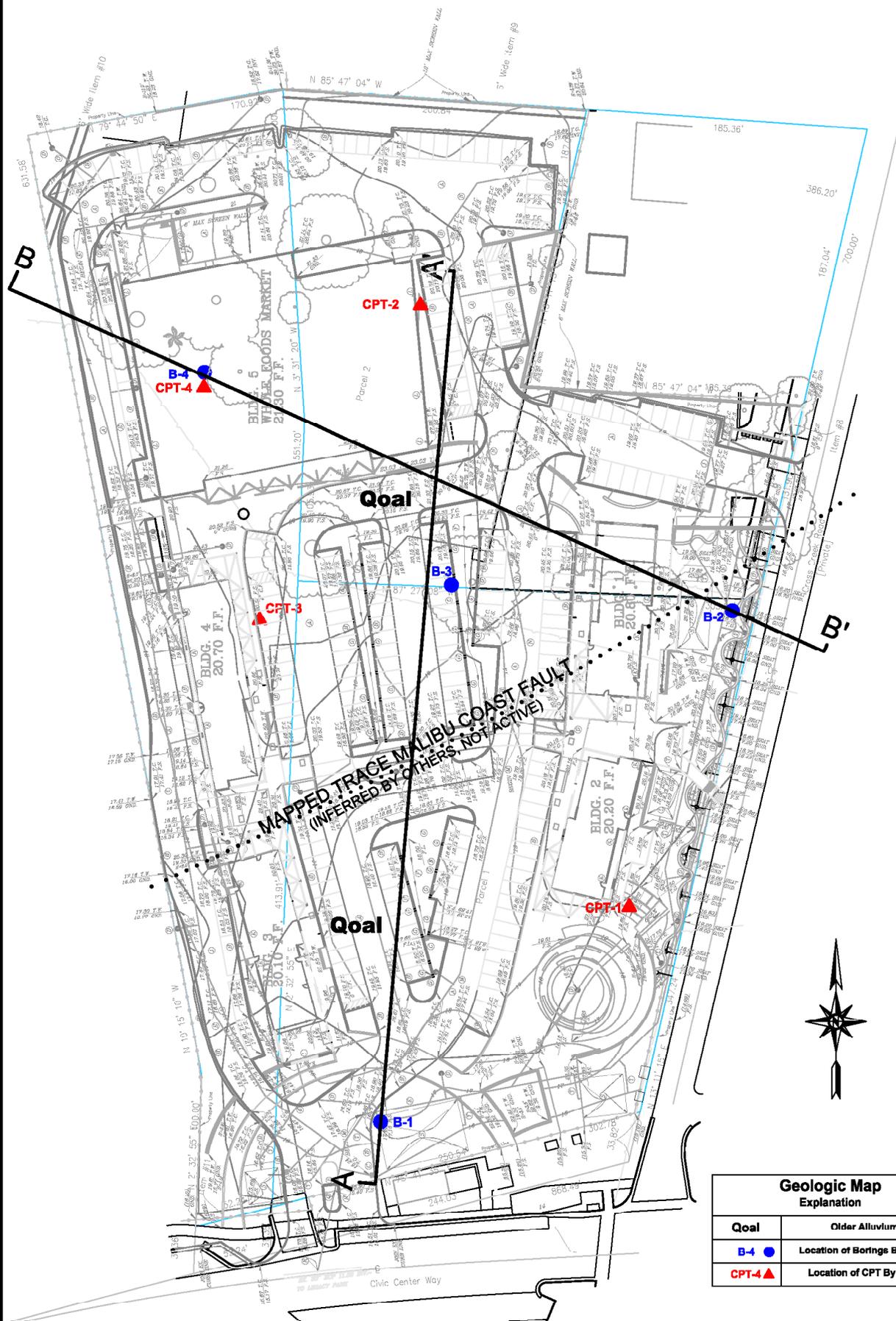
Respectfully submitted,
GeoConcepts, Inc.

Scott J. Walter
GE 2476
Exp: 9/30/12
RLS/SJW/RMH: 1680-8A

Robert L. Sousa
CEG 1315
Exp: 5/31/11

Enclosures: Updated Geologic Map
Updated Cross Sections

Distribution: (2) Addressee
(4) Marny Randall



Geologic Map Explanation	
Goal	Older Alluvium
B-4 ●	Location of Borings By VB&B
CPT-4 ▲	Location of CPT By VB&B

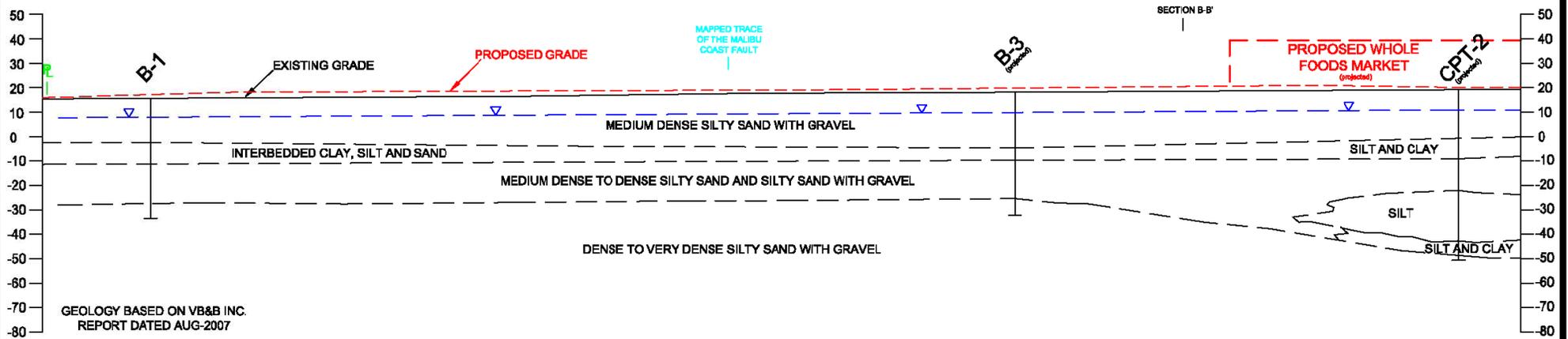
Date: Sept. 2010
 Scale: 1" = 60'
 Job No. 1680-8

Project Address:
 23401 Civic Center Way
 Malibu, CA

Description:
 Geologic Map
 Issued For:
 Whole Foods

GeoConcepts, Inc.
 Geology & Geotechnical Engineering
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Issued By:



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Description:

SECTION A-A'

Issued For:

Whole Foods

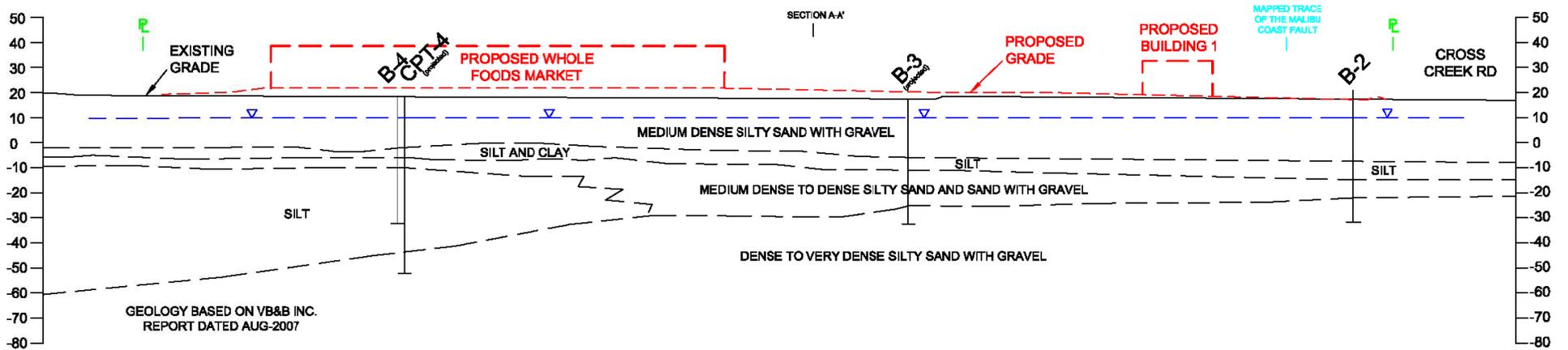
Project Address:

**23401 Civic Center Way
 Malibu, CA**

Date: **Sept. 2010**

Scale: **1" = 40'**

Job No. **1680-8**



Issued By:



GeoConcepts, Inc.
Geology & Geotechnical Engineering

14428 Hamlin Street, Suite 200 Office (818) 994-8895
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Description:

SECTION B-B'

Issued For:

Whole Foods

Project Address:

**23401 Civic Center Way
 Malibu, CA**

Date:

Sept. 2010

Scale:

1" = 40'

Job No.

1680-8



City of Malibu

23815 Stuart Ranch Road • Malibu, California 90265-4861
 (310) 456-2489 • Fax (310) 456-7650 • www.ci.malibu.ca.us

PLANNING REVIEW

GEOTECHNICAL REVIEW SHEET

<u>Project Information</u>			
Date:	May 27, 2010	Review Log #:	3142
Site Address:	23401 Civic Center Way	Planning #:	CDP 10-022
Lot/Tract/PM #:	n/a	BPC/GPC #:	
Applicant/Contact:	Marny Randall, marnyrandall@verizon.net	Planner:	Bonnie Blue
Contact Phone #:	310-395-2615	Fax #:	310-395-2368
Project Type:	Revised Project-Whole Foods Shopping Center		

<u>Submittal Information</u>	
Consultant(s) / Report Date(s): <i>(Current submittal(s) in Bold.)</i>	GeoConcepts, Inc. (Walter, CEG ; Sousa, CEG): 3-30-10 (revised 4-22-10) Precise Grading Plan prepared by P.C.C.E. Inc., dated May 5, 2010, three sheets. Whole Foods in the Park plans prepared by Goldman Firth Rossi Architects, dated May 5, 2010. Ref: Van Beveren & Butelo, Inc.: 1-13-09, 8-7-07 Ref: GeoConcepts, Inc. : 3-27-03, 8-5-99, 6-21-99 Ref: Petra: 9-7-05 (PPC 99-003)
Previous Reviews:	Geotechnical Review Referral Sheet dated 5-11-10; Ref: 5-19-09, 9-22-08, Geology Review Referral Sheet dated 10-11-07; Ref: Hydrogeologic Review Sheet dated 3-2-06 (PPC 99-003), 4-29-03, 9-2-99, 7-22-99 (PPC 99-004)

<u>Review Findings</u>	
<u>Coastal Development Permit Review</u>	
<input type="checkbox"/>	APPROVED from a geotechnical perspective.
<input checked="" type="checkbox"/>	NOT APPROVED from a geotechnical perspective. The listed 'Review Comments' shall be addressed prior to approval.
<u>Building Plan-Check Stage Review</u>	
<input checked="" type="checkbox"/>	Awaiting Building plan check submittal. Please respond to the listed 'Building Plan-Check Stage Review Comments' AND review and incorporate the attached 'Geotechnical Notes for Building Plan Check' into the plans.
<input type="checkbox"/>	APPROVED from a geotechnical perspective. Please review the attached 'Geotechnical Notes for Building Plan Check' and incorporate into Building Plan-Check submittals.
<input type="checkbox"/>	NOT APPROVED from a geotechnical perspective. The listed 'Building Plan-Check Stage Review Comments' shall be addressed prior to Building Plan-Check Stage approval.

Guidelines for geotechnical reports (dated February 2002) are available on the City of Malibu web site:
<http://www.ci.malibu.ca.us/index.cfm?fuseaction=nav&navid=30>.

Fugro Project #: 3399.001

Remarks

The geotechnical report and revised plans were reviewed by the City from a geotechnical perspective. Based upon the submitted information, the project comprises a new 38,425 square foot commercial development consisting of a 24,549 square foot Whole Foods Market building and four retail and food buildings totaling 13,876 square feet, parking lots, landscaping, decking, walls, and trellises.

Grading includes 7,612 yards of R & R; 4,429 yards of fill under structure (raising the elevations of the proposed development); 70 yards of cut and 5,321 yards of fill non-exempt; and 9,680 yards of import materials.

Based on a meeting with the applicant on February 8, 2010, the proposed development will be connected to the City's wastewater treatment plant. No onsite disposal of effluent is proposed with this development.

Review Comments:

1. The Project Geotechnical Consultant provides an updated geologic map and cross-sections that depict the currently proposed grades and development. Please clearly depict the proposed removals under the site. Additional recommendations shall be provided, as necessary, regarding the revised development plans. The Project Geotechnical Consultant provides no discussions regarding the revisions to the development.
2. Please show the seismic trenches on the Geologic Map. Is there adequate coverage for the currently proposed development? Besides the findings in the seismic trenches, what additional evidence supports the Project Geotechnical Consultant's conclusion that, "...no known active fault is anticipated to daylight beneath the limits of the proposed structure."?
3. The Project Geotechnical Consultant must demonstrate that daily irrigation of the proposed landscaping will not adversely affect the groundwater levels under the site or adjacent properties. If the groundwater level will be raised, the Project Geotechnical Consultant shall incorporate such rises in the evaluations of liquefaction potential, surface manifestations, lateral spreading, and seismically- induced settlement. Recommendations for mitigation measures shall be provided, as appropriate.

Building/Grading Plan-Check Stage Review Comments:

1. Please provide an electronic copy of the referenced report by Van Beveren & Butelo, Inc. dated 1-13-09 for the City's files.
2. A letter should be provided by the Project Structural Engineer indicating that: 1) they are aware of the anticipated displacements due to liquefaction related hazards, as determined by the Project Geotechnical Engineer; 2) that they acknowledge the geotechnical recommendations made by the Project Geotechnical Engineer for mitigation of potential seismic and liquefaction hazards; and 3) given the potential displacements, the proposed foundation design is adequate to provide support within the seismic tolerances required by the CBC (e.g., safeguard against major structural failures and loss of life).
3. The following note must appear on the grading and foundation plans: "*Shear testing shall be performed on the compacted fill materials to confirm the recommended bearing pressures and lateral resistances.*"
4. Please depict limits and depths of over-excavation and structural fill to be placed on the grading plan, and cross sectional view of the proposed building area. Cut and fill yardages are to be indicated on the cover sheet of the plans.
5. Two sets of grading, retaining wall, and commercial development plans (**APPROVED BY BUILDING AND SAFETY**) incorporating the Project Geotechnical Consultant's recommendations and items in this review sheet must be reviewed and wet stamped and manually signed by the Project Engineering Geologist and Project Geotechnical Engineer. City geotechnical staff will review the plans for

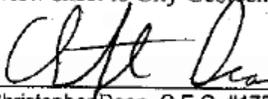
City of Malibu

Geotechnical Review Sheet

conformance with the Project Geotechnical Consultants' recommendations and items in this review sheet over the counter at City Hall on Mondays through Thursdays between 8 AM and 10 AM.

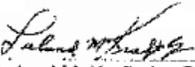
Please direct questions regarding this review sheet to City Geotechnical staff listed below.

Engineering Geology Review by:


Christopher Dean, C.E.G. #1751, Exp. 9-30-10
Engineering Geology Reviewer (x306)

5/27/10
Date

Geotechnical Engineering Review by:


Leland M. Kraft, Jr., G.E. # 484, Exp. 6-30-10
Geotechnical Engineering Reviewer (805-444-1943)

05-27-10
Date

*This review sheet was prepared by City Geotechnical Staff
contracted with Fugro as an agent of the City of Malibu.*

FUGRO WEST, INC.

4820 McGrath Street, Suite 100

Ventura, California 93003-7778

(805) 650-7000 (Ventura office)

(310) 456-2489, x306 (City of Malibu)

