



**PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION**

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**DEVELOPMENT ENGINEERING
DESIGN BULLETIN**

CATEGORY: 3 Improvement Plans, Grading
TITLE: 3.2.1 Canyon Oaks Grading

DATE: June 1, 2008

CANYON OAKS - GENERAL DETAILS

DUE TO THE NATURE OF THE SOILS IN THIS AREA AND THE REQUIREMENTS FOR FILLS, THE SITE GRADING AND IMPROVEMENT PLAN SHALL BE WET-STAMPED AND SIGNED BY A REGISTERED CIVIL ENGINEER AND SHALL INCLUDE AT A MINIMUM THE FOLLOWING:

1. Include construction methods and compaction requirements for any fills.
2. Both existing elevations and proposed grades to be shown along the proposed driveway.
3. Illustrate proposed limits of all grading and denote top of all cuts and toe of fills.
4. Reference the approved geotechnical report for the Canyon Oaks Subdivision and note any specific relevant sections of the document on the site grading plan.
5. List dust suppression methods.
6. Note and show all erosion control measures (best management practices).

CANYON OAKS - SPECIFIC NOTES

1. Notify Underground Service Alert (USA) at 1-800-642-2444 at least 3 days prior to commencing any construction activities.
2. Field supervision by a registered engineer during all grading operations.
3. Prior to the start of foundation construction, the engineer of record shall provide a certification that the lot has been graded in accordance with the approved grading plan, and a compaction certification.
4. Lava Cap Warning

If lava is encountered during excavation of the building site, and the applicant chooses to not dig traditional footings, the following pinning procedure shall apply:

- Dig footings per plans until lava is encountered.

- Secure the services of a soils engineer to determine lava cap type as necessary for structural pinning design.
 - Submit pinning details and supporting calculations for plan check.
 - Upon approval of the above, a Special Inspector shall inspect the installation of pinning and submit a letter of approval to the City. The City will accept the design engineer as the Special Inspector.
5. Mud flows shall not be pinned. Full depth footings must be approved. Retaining walls or seismic footings shall not be pinned without special engineering and field testing.
 6. Erosion control measures shall be in place and maintained throughout the construction of this project. Onsite materials or debris shall not be permitted to wash off the project site and into the storm drain system.