CITY OF ALBUQUERQUE

PLANNING DEPARTMENT - Development Review Services



June 28, 2016

Gilbert Aldaz, P.E. **Applied Engineering & Surveying Inc.**1605 Blair Drive NE

Albuquerque, NM 87112

Richard J. Berry, Mayor

RE: Cuatro Development – 1319 4th St. NW (File: J14D173) Grading & Drainage Plan, Engineer's Stamp Date 11-17-2014 Engineer's Certification Date 6-23-16

Dear Mr. Aldaz:

Based on the Certification received 6-27-16, the site is acceptable for a TEMPORARY 30 - day Certificate of Occupancy by Hydrology, with the following conditions/comments:

- Balconies cannot discharge into the sidewalk nor can any portion of the roof sheet flow and discharge into sidewalk below (including private sidewalk). It is recommended that for balconies that presently discharge into sidewalk below, the drain be relocated to drain into the adjacent roof. The roof will then require a gutter and down-spout system to discharge to the nearest landscaping. Please coordinate with the architect.
- Area with Geogrid system is to drain into channel along western boundary. The curb cuts are not deep enough, and the channel is filled with cobble. Per the Grading and drainage plan, the cobble should be approximately 8" 12" below the top of curb. To rectify the problem, the following fixes are recommended:
 - o Core drill holes in the curb, just above the Geogrid
 - O Between the landscaping bushes in the channel, lower the top of rip-rap /cobble to about 14"-18" below the top of curb. The increase in depth is to compensate for the volume taken up by the landscaping bushes. Water should be able to flow from low spot to low spot between the bushes.
- In parking area, the infill material of the Geogrid system is extremely unstable and must be stabilized. Per the specs, a well graded material was recommended (see snapshot below). Mixing in crusher fines, angular rock, and smaller diameter rock to improve gradation is recommended.

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Infill Materials

The recommended infill shall be an aggregate or an aggregate/lopsoil engineered infill for aggregate and vegetated pavements respectively. When specifying infill type, consideration should be given to appropriateness of infill for loading requirements, traffic frequency, and subgrade strength.

Aggregate Infill

The aggregate infill shall be a well-graded 0,375 in to 0.5 in (10 mm to 13 mm) crushed angular stone with a fine content less than 5%.

Aggregate/Topsoil Engineered Infill

The aggregate/topsoil engineered infill shall consist of a homogenous mixture consisting of 1) a clear-stone/crushed rock having an AASHTO #5 or similar designation blended with 2) pulverized topsoil and 3) a void component generally containing air and/or water. This homogenous mixture will promote vegetative growth and provide required structural support. The aggregate portion shall have a particle range from 0.375 in to 0.5 in (10 mm to 13 mm). The percentage void-space of the aggregate portion shall be at least 30%. The pulverized topsoil shall equal 33% of the total volume and be added and blended to produce a homogenous mixture prior to placement.

Choice of vegetation shall be determined based upon local climate and proposed use

If you have any questions, you can contact me at 924-3695.

Rita Harmon, P.E.

Senior Engineer, Planning Dept.

Development Review Services

Orig:

Drainage file

c.pdf

Addressee via Email, Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Blocker, Lois

contractor: Kevin Cobos



