



July 14th, 2014

Ron Hensley, P.E.
THE Group
300 Branding Iron Rd SE
Rio Rancho, NM 87124

**Re: Sevano Place Subdivision Drainage report and Grading Plan
Grading and Drainage Plan
Engineer's Stamp Date 6-20-14 (C18D075)**

Dear Mr. Hensley,

Based upon the information provided in your submittal received 6-20-14, the above referenced report and plan cannot be approved for Preliminary Plat action by the DRB until the following comments are addressed:

1. The drainage report is to state how the project will manage the first flush. A depressed front yard would be sufficient. This could be shown with one spot elevation on the grading plan and a detail for a typical lot.
2. The AHYMO documentation in the report is for the 24-hour storm rather than the 6-hour storm. In addition, the hydrograph for a 6-hour storm has a higher peak flow than the 24-hour storm. The 6-hour storm is to be used for street capacity and sizing drainage infrastructure.
3. The outfall to Signal Ave. should be designed so that there is a maximum of two -2 foot sidewalk culverts. The street may have to be super-elevated with standard curb to accomplish this. Hydrology did not see calculations in the report for this outfall. There should be a gap in the wall for an emergency spillway.
4. Hydrology has a similar comment for the outfall to Alameda Blvd. Provide calculations for the inlet and outfall pipes to the trunk in Alameda. The street should have a cross-slope, possibly super-elevation to the west.
5. Provide the EGL where the water is running west (4.0%) then has to make a 90 degree turn.
6. Will driveway locations on Lots 1 and 10 interfere with the super-elevating the stub-streets due to the water depth?
7. Show temporary asphalt on the grading plan sheet 2 of 2 in between the existing edge of asphalt and the new curb.
8. The inlet on Signal should be a Type A since it is the furthest upstream.
9. A retaining wall should be proposed on the north side of Lot 18.
10. Is the sidewalk shown in the correct location on Alameda Blvd? Usually the back of sidewalk is at the property line.

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11. Revise the table on p. 4 to show basins 117.314 and 117.312 are 90% D 10% C as they are streets
12. Hydrology calculated the runoff for basin 117.311 as 13.6 cfs, rather than the 12.7 shown on the tables on p. 7 and 8.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Curtis Cherne, P.E.
Principal Engineer, Hydrology
Planning Dept.

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C: e-mail