

# CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services



October 21, 2015

Mario Juarez-Infante, P.E.  
Wilson & Company, Inc.  
4900 Lang Ave. NE  
Albuquerque, NM 87109

Richard J. Berry, Mayor

**RE: APS Montgomery Complex, 3315 Louisiana Blvd NE (G18D048)**  
**Drainage Master Plan**  
**Engineer Stamp Date: not Stamped**

Dear Mr. Juarez-Infante,

Based upon the information provided in your submittal received 9/4/15, the above referenced submittal cannot be approved until the following comments are addressed:

1. For all submittals, only 1 copy of the DMP or Grading Plan is required. The only exception is 2 copies of the Grading Plan is required when an SO-19 Permit is requested.
2. DMP needs to be stamped by the Engineer of Record.
3. Section 1.1 refers to Fig. 4, the Conceptual Grading Plan and Storm Drain Plan, but it is not included. Fig. 4 is a Proposed Site Map.
4. In the report, indicate the Drainage File number of all reports that are used to research this site (Section 1.2).
5. Section 1.3: The north side of the Site *does* lie within a Flood Hazard Zone, and can be seen on the FIRM map provided. Revise report and obtain a Permit for Construction within a Flood zone from Rudy Rael.
6. Section 2 and 4.2: This site is situated between the North Hahn and South Hahn Arroyo, and all references to the Hahn Arroyo should state which branch is intended. In both sections there are references to the "North Diversion Channel to the North". Since the North Diversion Channel accepts flows from the Hahn Arroyo near I-25, it appears that you may be referring to the "North Hahn Arroyo." Please correct or clarify.
7. Provide the watershed boundary map for the North and South Hahn Arroyos. What was the programmed discharge for this site into the South Hahn Arroyo?
8. Section 2.3.1: The soil information provided in Appendix B does not seem to be useful. Existing land treatments should be calculated using the same assumptions noted in Section 2.3.2. Remove Appendix B.
9. Section 4.6: The calculation for the volume of "First Flush" needs to be revised. It should be  $(0.44 - 0.1) * (\text{Area of Land Treatment D})$ . Only the volume is needed. The initial abstraction can be used (0.1").
10. Section 4.6: Demonstrate on the Conceptual Grading Plan that the First Flush volume will be captured in the landscape buffer and the detention pond. Be specific about what is meant by "structural treatment control"? Will you be using a riser?

PO Box 1293

Albuquerque

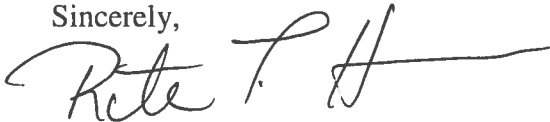
New Mexico 87103

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11. Section 4.8: Table 3 - Without a Grading Plan showing the building/structure footprints, the area of D Treatment cannot be confirmed. The values shown seem low compared to Figure 5, page 10.
12. Both Figure 5 and the Grading Plan should show roof discharge flow arrows and roof discharge locations.
13. How is the Parking structure proposed to drain? Is it all above grade? Or is there a below grade level? If so, how will it drain?
14. Provide a Storm Drain Network map. Show proposed SD sizes.
15. Section 4.9: Provide calculations showing how you determined that the outflow of 14 cfs, based on the WSEL.
16. Runoff from the site, including the parking garage must discharge to a First Flush pond before discharging to the arroyo.
17. Section 4.10: Figure 6 is not readable. It appears that there is a underground parking area, with an inlet discharging directly to arroyo and this is not permissible. One option would to pump discharge to a First Flush/Detention pond and then pipe it to the arroyo.
18. How will flow be limited from the detention pond to the Storm Drain? Riser Pipe? Provide calculations and details.
19. Section 4.11: The Detention Pond should be revised to accept flows from the Parking Garage.
20. Stage/storage curve is barely readable.
21. Provide Detention Pond details and calculations showing how the volume is determined at the various depths.
22. If this project does not go thru the DRC (Work Order) process, the proposed tie in to the Arroyo will require an SO-19 Permit, and SO-19 notes will need to be on the plans, as well as 2 copies of the Grading plans. Only provide 2 copies on the final submittal.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Rita T. H.", with a long horizontal flourish extending to the right.

Rita Harmon, P.E.  
Senior Engineer, Planning Dept.  
Development Review Services

Orig: Drainage file  
c.pdf: via Email: recipient