

# CITY OF ALBUQUERQUE



September 2, 2014

Ronald Bohannon, P.E.  
Tierra West, LLC  
5571 Midway Park Pl NE  
Albuquerque, NM 87109

**Re: FedEx Ground ABQ Drainage Report and Grading Plan and Drainage Plan  
Engineer's Stamp Date 8-12-14 (K09D026A)**

Dear Mr. Bohannon,

Based upon the information provided in your submittal received 8-12-14, the above referenced report and plan cannot be approved for Grading Permit approval nor Building Permit approval until the following comments are addressed:

1. Provide contours for the western portion of the Pre and Post Developed Drainage Basin Maps. Show the current layout of the Daytona ROW going through the western basins on the Basin Map. Show the desilting pond and storm drain west of Daytona Road on the Post Developed Drainage Basin Map. West of Daytona, construct desilting pond slopes outside of the ROW and extend the proposed storm drain as necessary. Provide the updated Daytona Road Grading and Drainage Improvements sheet, GR-6, which was submitted with the previous submittal but not this one.
2. In your report under Developed Drainage Conditions, include the basins and flows with your description of the offsite acreage and direction of flows to clarify which flows specifically are being discussed.
3. On the Post Developed Drainage Basin Map, Basin C-4D is shown with a shading indicating the flows will go to Daytona Road and eventually Pond 6. However, the report says the flow from Basin C-4D will go east eventually to Los Volcanos Road. The Daytona Road Storm Drain Master Plan for the West Side Transit Facility by Smith Engineering shows that area should go to Daytona Road. Please revise the report.
4. Analysis Point 18 indicates the flow going into the 30 inch storm drain is 85.72 cfs. In another paragraph, the report states the flow to the 30 inch storm drain is approximately 80 cfs. Which is correct? Are basins C-1D1 and C-2D2 surface draining into Los Volcanos or draining to the 30 inch storm drain at Analysis Point 18? Where is Analysis Point 18 exactly? Is it in the pond, in the first section of the 30 inch storm drain, or later? Analysis point 18 includes the 85.72 cfs flows to the 30 inch storm drain, but the report states C-1D1 and C-2D2 are surface draining to Los Volcanos. The 30 inch storm drain should be sized for the developed flows for basins C-2D1, C-1D2, C-2D2, and C-1D1 but it needs to be clear if C-2D2 and C-1D1 are going directly to the road or storm drain. Revise your report/map/tables accordingly.
5. What is the total surface flow in Los Volcanos including the existing conditions of the off-site basins that contribute to it once this site is developed? Provide the street capacity for the flow in Los Volcanos Road once this site is developed. Provide the calculations

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for inlets 11 and 14. Show inlet 14 on the Post Developed Drainage Basin Map. On GR-3, show what storm drains will be abandoned with CPN 655784.

6. What is the total surface flow in Daytona Road after this site is developed? Provide the street capacity for the proposed flow in Daytona Road. Provide the calculations for inlet 13.
7. Provide the calculations for inlet 2 also.
8. The Storm Drain Pipes Table indicates all pipes are sized appropriately using Manning's equation. However, based on the parameters provided, the capacities for analysis points 5, 8, 18, and 20 do not seem to be adequate. Provide calculations showing the storm drains are adequately sized or resize them.
9. Provide headwall details for the four headwalls called out on the plans. What are the inverts of the storm drains going into Pond 5? What is the invert of the storm drain in the small pond north of the proposed building? Include riprap for the design of the desiltation pond north of Los Volcanos since a significant amount of flow will be entering that pond. Have the pond slopes outside the 5 foot PUE.
10. On GR-5, what is the invert of the 24 inch entering the existing outlet structure? What is the length of the 24 inch storm drain? Show one foot of cover minimum over the 24 inch storm drain. Instead of plugging the existing 3 orifices in the existing outlet structure, provide an opening for the new 24 inch pipe.
11. An Interim Grading and Drainage Plan dated May 19, 2014 was approved for grading permit. A revised Interim Grading and Drainage Plan was submitted with the last submittal. Since you have already received approval of it for the grading permit, remove the Interim Grading and Drainage Plan from the next submittal.
12. The project has received a Floodplain Permit for the grading. Please submit a Floodplain Permit application for the building. A blank permit is attached for your use.
13. An easement for Floodway and Storm Drainage Works is on the east side of Tract 5-A of Avalon Subdivision Unit 5. A vacation has been submitted for that easement. Complete the vacation by having it platted through DRB. Apply for the platting action prior to Building Permit approval by Hydrology. The platting action should be complete prior to the Certificate of Occupancy for this site.

PO Box 1293

Albuquerque

New Mexico 87103

[www.cabq.gov](http://www.cabq.gov)

Please contact me at 924-3994 if you have any questions.

Sincerely,

Amy L. D. Niese, P.E.  
Senior Engineer, Hydrology  
Planning Department

C: e-mail