

# CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services



July 17, 2015

David Soule, P.E.  
Rio Grande Engineering  
P.O. Box 93924  
Albuquerque, NM 87199

Richard J. Berry, Mayor

**RE: American Toyota (File: C18D012)**  
**Drainage Report, Engineer's Stamp Date 3-16-15**  
**Grading and Drainage Plan, Engineer's Stamp Date 3-27-15**

Dear Mr. Soule:

Based upon the information provided in your submittal received 6-3-15, the above referenced submittal cannot be approved for Building Permit with the following condition(s) or comments:

Note: These comments must be addressed before the end of the business day on July 23<sup>rd</sup> or the Building permit which was conditionally allowed will be revoked.

PO Box 1293

Albuquerque

New Mexico 87103


www.cabq.gov

1. Informational comment: The proposed runoff to the Alameda Storm Drain is limited to 25 cfs. This is based on trying to reconcile the difference between the existing runoff of 33 cfs and the allowed runoff of 16 cfs from SAD #201(though this site is not a part of the hydrology report)
2. Label the pipe size and type for all underground Storm drains connecting to the StormTech systems. Show connection details to inlets or manholes.
3. Label each StormTech system on the plan with that shown in the report calculations and StormTech's construction Drawings, ie. System 3
4. StormTech construction documents state that the engineer is to size the manifold. Call out manifold size on your details.
5. Show D inlets can capture the peak flow (or 7cfs) at System #4 and #6. Is it in a sump? Is there curb there to develop a head?
6. **StormTech System #6.** The invert out to the existing is much too low to allow the required first flush. Per our conversation, you intend to put 2 inlets so that once the StormTech system fills, it will overflow to the 2<sup>nd</sup> inlet. Please provide this detail in section and also show the 2<sup>nd</sup> inlet on the plan. Also, show that the inlets can capture the peak flow. How will the first inlet capture the first flush without it bypassing to the 2<sup>nd</sup> inlet?
7. **StormTech System #5.** First flush reqd vol. is 1662CF. In order to capture the max capacity, the inverts at the Inlet must be higher than the elevation of the required capacity (refer to StormTech's calcs. ) At a capacity of the 1628CF, the elevation is 5208.35. If the inverts are higher than this you will not have enough cover. Do you need to lower the Storm Tech System? Show connection details of this system.
8. **StormTech System #1.** The max volume capacity needs to be used so that the discharge to Alameda is not increased. In order to utilize the 14583 CF capacity, the inverts at both inlets need to be at or above 5223.00. West inlet has an invert at 5221.30 which is too low. It also

does not match the isolator row invert of 5217.19. Is it supposed to be sloped that much? What is the invert where the Roof Storm Drain ties into the this pipe? Provide a section detail.

9. **StormTech System #4.** Similar to System #6, the inlet is to fill and overflow to existing inlets. Please provide this detail in section. Also, show that the inlets can capture the peak flow. How will the first inlet capture the first flush without it bypassing to the existing inlets?

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

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

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