

**GLEN SPRINGS PRESERVATION  
ASSOCIATION, INC.**

*Submitted  
2/25/02*

February 25, 2002

Mayor and Commissioners  
City Commission  
City of Gainesville  
PO Box 490  
Gainesville, FL 32609-0490

RE: Walnut Creek Development and protection of Glen Springs neighborhood

Dear Mayor Bussing and Commissioners:

We as the Glen Springs Preservation Association, Inc. were disturbed to find that the St. John's River Water Management District does not review storm water permitting criteria for the City of Gainesville. The staff of the Water Management District said in deposition in January, 2002 that the only criteria that the St. John's River Water Management District staff reviews are the criteria for the storm water permits for the Water Management District. They do nothing to review any municipal requirements.

One of our members, Leonard Furlow, M.D. was told by a senior city staff member that the Public Works Department has no one on staff qualified to review the storm water criteria that the city has within its comprehensive plan and land development regulations. We want to make you aware of what we think is a serious problem. It affects not only the Glen Springs neighborhood with the Walnut Creek project coming up but it also affects every other development within the community that has been approved in the past and will be approved in the future.

We are enclosing an affidavit from William Reck, PE, who is a resident of the Glen Springs neighborhood. Mr. Reck teaches water modeling program applications within the State of Florida and has prepared a cursory review of the Walnut Creek project's storm water calculations. As you can see by his affidavit he believes that the storm water management system for Walnut Creek will not meet the requirements for storm water within the City of Gainesville. We have members of the Association who are immediately affected by any type of improper storm water management.

We hope that you take the appropriate action to ensure that any development orders after this date are in full compliance with city requirements for storm water management not only by the Water Management District but also under the requirements of the City of Gainesville.

Sincerely,



Sharon Dame  
President

3120 NW 31 Blvd  
Gainesville, FL 32605  
February 24, 2002

Glen Springs Preservation Association, Inc.  
c/o Bonnie O'Brien  
2329 NW 30<sup>th</sup> Terrace  
Gainesville, FL 32605



Subject: Independent Review of Walnut Creek Subdivision, Surface Water Management Plan:

I conducted a review of the proposed Walnut Creek Subdivision, Surface Water Management Plan, as per your request. In the review of the Surface Water Management Plan, I found the following deficiencies:

- 1.) Runoff volume was underestimated. Apparently, the pond areas were included as well-drained meadow in the runoff calculations. This calculation should have been done as water surface or at least as poorly drained. The sandy layer above a clayey layer will be removed except for approximately 6 inches of soil. This will significantly change the runoff volume from the pond area. Typically pond surface such as this one will be assumed to be water surface for the purpose of calculating runoff. As an example, the drainage area for Pond A will increase if the runoff calculations are corrected from runoff of 5.89 inches to 6.5 inches for a 25 year Return Period Storm and from 6.62 inches to 7.73 inches for a 100 year Return Period Storm. This is an increase of 10% more volume for the 25 year storm and 17% more volume for the 100-year storm. Each of the stormwater basins had the same error in calculation of runoff.
- 2.) Percolation from the pond was grossly over-estimated. The percolation was based upon hydraulic conductivity measurements that were "two orders of magnitude higher than what would be expected."<sup>1</sup> Thus, the calculations showing that the basins will drain within 72 hours after a 25 year storm event as required by Sec. 24-162(a)(3), are in error and need to be recalculated.
- 3.) Overflow from Pond A overflows into 15 inch RCP which in turn flows into an existing 12 inch PVC Storm Drain adjacent to Glen Springs Avenue. No calculations were done in check if this pipe can carry the extra flow from Walnut Creek Subdivision. This overflow pipe will need to be able to carry 3 cfs from Walnut Creek Subdivision to keep Pond A from overflowing during the 100-year storm event.

For these reasons, I recommend that all the calculations be checked by a

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<sup>1</sup> Based upon personal communication with Stephen Boyes, P.G.

professional engineer and a detailed review performed. I would also recommend that on-site percolation test be performed on the pond sites by an independent professional soil scientist. If anyone would like to discuss my findings in more detail, I can be reached at home at (352) 378-4253.

Sincerely,

A handwritten signature in cursive script that reads "William R. Reck".

William R. Reck, P.E.  
PE # 51487

A handwritten signature in cursive script that reads "William R. Reck", located in the bottom right corner of the page.