



# Engineering Consultants, Inc.

May 31, 2011

St. Johns River Water Management District  
Altamonte Springs Service Center  
975 Keller Road  
Altamonte Springs Florida 32714

Attn: Ruth Grady, E.I. – Permit Review

Reference: Lake Hancock Road Widening Project  
Application No. 40-069-50126-4

Dear Ruth:

We have received the “Request for Additional Information” dated 2/22/2011 and have included detailed responses to the comments below.

1. The required Standard Environmental Resource Permit application fee is \$1190.00 for systems that have a project area between one and 40 acres. To date \$490.00 has been received by the District. Accordingly, please submit the \$700.00 balance due to the St. Johns River Water Management District. [40C-1.603(5)(f) 1., F.A.C.]

**RESPONSE:** A check for \$700.00 was sent to the SJRWMD from Lake County on 3/21/2011.

2. Please provide revised pre and post-development drainage basin maps, drawn at a larger scale, that clearly depict the limits of the drainage basin boundaries (in acres or square feet) with sufficient topographic elevations, so that on and off-site drainage patterns may be verified. [40C-4.301(1)(a)(b)(c)(e)(i); 40C-42.026(1), F.A.C.]

**RESPONSE:** Full size Pre-development Drainage Maps have been prepared and are enclosed. The Post-Development Drainage Maps have been revised and are also enclosed.

3. Page 5 of the *Stormwater Management Report* submitted states, in part, “*Geotechnical information was obtained in the areas of both Ponds 1, 2, and the Big Sky pond modification. Below is a table identifying various pond control parameters based upon information provided by Andreyev Engineering, Inc. and is also included in Appendix G.*”

- A. Please note that the above referenced geotechnical report by *Andreyev Engineering, Inc.*, appears to have been omitted from *Appendix G* of the stormwater management report submitted.

**RESPONSE:** The final Geotechnical Report dated 3/31/2011 is enclosed.

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- B. Further note that, the table of design pond control parameters did not appear to take into account all of the soils borings taken within the footprint of each pond. Reference the following excerpts from Page 5 of the *Stormwater Management Report* and *Sheet Nos. 72, 73, and 74* of the set of construction plans submitted.

**RESPONSE: The parameters used in the stormwater analysis are consistent with those listed in the Geotechnical Report. The "POND" drawdown analysis for Ponds 2 and 3 was revised to reflect these listed parameters and are enclosed. Page 5 of the Report has been revised and is also enclosed.**

Please clarify and provide the required geotechnical report by *Andreyev Engineering, Inc.* Include with the requested report all soil boring profiles and pertinent data so that staff can validate the parameters utilized in the drainage calculations. [40C-4.301(1)(a)(b)(c)(e)(i), F.A.C.]

4. Please address and/or provide the following with respect to The Reserve at Minneola existing pond:

- A. The information provided on page 3 of the *Stormwater Management Report* submitted states, in part "*Basin #4 From North of Fosgate Avenue to Project End (Stations 256+80 to End of Project): The runoff from the roadway is to be collected and directed into the existing pond (NODE 30) within The Reserve at Minneola subdivision. The SJRWMD permit number for this subdivision is 4-069-92447-1. The total area allowed in the pond from Hancock Road is 2.341 acres of which 1.288 acres can be impervious area. Based upon the proposed improvements of Hancock Road, only the runoff from station 25 6+90 to the end of the project can be accommodated for in this pond. The total area discharging to the pond is 1.85 acres of which 1.26 acres is impervious.*"

Please note that the above information appears to be inconsistent with the post development drainage basin map delineated on *Sheet No. 4* of the set of construction plans submitted, which indicates that the total area discharging to the pond is 2.08 acres, of which 1.38 acres is impervious. Reference the following excerpt of the drainage basin map.

Accordingly, please clarify and revise where appropriate, for accuracy with the proposed condition.

**RESPONSE: Page 3 (Report) and Drainage Map (Sheet 4) have been revised to be consistent. Please note that the contributing area is less than the allowable.**

- B. The submittal indicates that the City of Minneola is the current owner of The Reserve at Minneola pond. As such, please provide a draft copy of the joint use agreement between the City of Minneola and Lake County for the County's use of the pond for meeting the District's water quality treatment and attenuation requirements. Clearly identify, in the agreement, which components of the treatment system each entity will maintain.



**RESPONSE:** Lake County has contacted the City of Minneola and started the process for a joint use agreement. As soon as a draft agreement has been prepared, it will be forwarded to the SJRWMD.

5. Please provide sufficient legal authorization from the SkyRidge Valley Residential Subdivision property owners allowing the proposed modifications to and utilization of their existing pond for treatment and attenuation of runoff from the realigned portion of Old Highway 50 from Turley Farms Road to the New Highway 50/Black west intersection. [40C-4.301(1)(a)(b)(c)(d)(e)(i)(j); 40C-42.024(2)(a); 40C-42.025(6); 40C-42.026(1), F.A.C.]

**RESPONSE:** As mentioned on Page 1 of the Stormwater Report, the original permit for SkyRidge Subdivision (#4-069-0356A-ERP) treats a portion of Hancock Road. Appendix J included the information from the permit. A copy of the Drainage Easement dated 8/20/2001 between Lake County and the owner of SkyRidge Subdivision is enclosed.

In regards to the Lake Apopka Hydrologic Basin criteria, a Phosphorus Loading Calculation has been performed for the project and is enclosed. The calculation results show this project meets the Lake Apopka Hydrologic Basin criteria.

Please call me if you have any questions regarding this information. Thank you.  
Sincerely,

James E. Myers, P.E.  
Project Manager

Encl.

Cc: Dino Lucarelli – TYLin International  
Permit File

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