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July 21, 2023

Building Plan Reviewer
Building and Zoning Department
City of Green Cove Spring, Florida

Ref: 1201 Orange Avenue, Green Cove Springs, Florida
Knight Office Building

Dear Plan Reviewer:

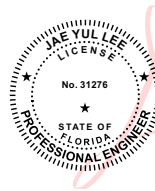
In response to the question raised by the City of Green Cove Spring concerning retention pond wall - the structural integrity of the wall in saturated conditions. Based on LEGACY Engineering soil report Section 8.1 Lateral Earth Parameters indicate criteria to figure out lateral pressure. By Coulomb theory lateral force with dry unit weight 110 pcf 53.9 pound per ft, saturated unit weight 122 pcf 58.8 pound per ft and water 62.4 pcf 62.4 pound per ft. I have designed with water pressure to withstand pressure exerted against walls. If footings are installed correctly, we see no issue in the walls integrity. Above analysis used with wall friction angle 20 degree.

If you have any questions, please contact me.

Sincerely,

LEE J. ENGINEERING, INC.

Jae Y. Lee P. E. (#31276)
President



Digitally signed
by Jae Yul Lee
Date:
2023.07.22
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