



NEWKIRK ENGINEERING, INC.

CIVIL ENGINEERING - TRANSPORTATION - CEI - LANDSCAPE ARCHITECTURE

1230 N US HWY 1, SUITE 3, ORMOND BEACH, FLORIDA 32174 386-872-7794

October 4, 2022

Alex Schumann, PE, City Engineer

City of Ormond Beach
Engineering Department
22 South Beach Street, Suite 104
Ormond Beach, FL 32174

**Re: North Interchange - Storage
Building Finish Floor Elevation**

Dear Mr. Schumann:

Newkirk Engineering, Inc. is requesting approval of a Proposed Finish Floor Elevation of 10.00 NAVD for the above referenced project.

Section 3-18(f)(7) of the City Land Development Code, to prevent flood damage outside of special flood hazard areas the lowest floor of new principal buildings must be elevated at least 18 inches above the crown of road, unless City Engineer approves a lower height based on site-specific conditions.

The proposed finish floor elevation is EL 10.00 with a 100-year, 24-hour storm event peak stage of EL 6.62. The existing crown of road elevation of Granada Boulevard is from EL 10.90 to EL 7.50 and S Old Kings Road is from EL 10.35 to EL 11.62. The site's proposed finish floor elevation is based on the site's stormwater system. The site is also designed so that no inlet top of grate elevation is below the 25-year, 24-hour storm event and the building is above the 100-year, 24-hour storm event with a minimum of 12-inches of freeboard. The wet detention pond peak stage for the 25-year, 24-hour storm event is EL 5.76 and the lowest proposed inlet top of grate elevation is EL 8.00 (2.24 feet of freeboard). The wet detention pond peak stage for the 100-year, 24-hour storm event peak stage is EL 6.62 and the finish floor elevation is EL 10.00 (3.38 feet of freeboard).

If you have any questions or need additional information, please feel free to call or email me at Harry@Newkirk-Engineering.com.

Sincerely,

NEWKIRK ENGINEERING, INC.

Harry Newkirk, PE 62971
President/CEO, Newkirk Engineering, Inc.

HARRY H. NEWKIRK
P.E. FL. REG. NO. 62971

