

June 17, 2021

THE COURTYARDS AT ORMOND

**Water & Sewer Demand
 Preliminary Calculations**

SUMMARY

The improvements associated with this project include the construction of 48-Unit Residential Multifamily Apartment Complex and a Retail Building (10,889 sq.ft.)

ANALYSIS

Design Type and Number of Service Connections, Calculation Units, Total Average Daily Flow, and Peak Hour Flow, in the Entire Area to Be Served by the Water and Sewer Mains Being Constructed Under this Project:

WATER				
Type of Service Connection	Water Demand Calculation Units	Average Daily Water Demand Per Service Connection	Total Average Daily Flow (gpd)	Peak Hour Flow ^a (gph)
Apartment Units	48 units	250 gpd/unit	12,000	1,250
Retail Building (10,889 sq.ft.)	10,889 sq. ft.	0.10 gpd/sq.ft.	1,089	113
TOTAL WATER DEMAND			13,089	1,363

SEWER				
Type of Service Connection	Sewer Demand Calculation Units	Average Daily Sewer Demand Per Service Connection	Total Average Daily Flow (gpd)	Peak Hour Flow ^a (gph)
Apartment Units	48 units	250 gpd/unit	12,000	1,250
Retail Building (10,889 sq.ft.)	10,889 sq. ft.	0.10 gpd/sq.ft.	1,089	113
TOTAL SEWER DEMAND			13,089	1,363

a. Explanation of Peaking Factor(s) or Method(s) Used to Estimate Peak Hour Flow:

Peaking Factor = 2.5 (typical)

Peak Hour Flow = Total Average Daily Flow x 2.5 x (1 day/24 hrs)

