



5 Park

Service Demand Analysis

Proposed Water Demand

(Design Flow is based on the City of North Miami Beach's schedule of daily gallonage for various levels of service standards)

$$\text{Retail:} \quad 17,000 \text{ sq.ft} \quad \times \quad \frac{10 \text{ gpd}}{100 \text{ sq.ft}} \quad = \quad 1,735 \text{ gpd}$$

Multifamily

$$\text{Studio:} \quad 1\text{-bedroom} \times 51 \text{ units} \times \frac{150 \text{ gpd}}{\text{bedroom}} \quad = \quad 7,650 \text{ gpd}$$

$$1 \text{ Bedroom:} \quad 1\text{-bedroom} \times 185 \text{ units} \times \frac{150 \text{ gpd}}{\text{bedroom}} \quad = \quad 27,750 \text{ gpd}$$

$$2 \text{ Bedroom:} \quad 2\text{-bedroom} \times 105 \text{ units} \times \frac{150 \text{ gpd}}{\text{bedroom}} \quad = \quad 31,500 \text{ gpd}$$

$$3 \text{ Bedroom:} \quad 3\text{-bedroom} \times 34 \text{ units} \times \frac{150 \text{ gpd}}{\text{bedroom}} \quad = \quad 15,300 \text{ gpd}$$

$$\text{Total} \quad = \quad \mathbf{83,900 \text{ gpd}}$$

Existing Water Demand

$$\text{Office/Non restaurant Retail: } 39,000 \text{ sf} \times \frac{10 \text{ gpd}}{100 \text{ sq.ft}} \quad = \quad 3,900 \text{ gpd}$$

$$\text{Total} \quad = \quad \mathbf{3,900 \text{ gpd}}$$



Proposed Sewer Demand

(based on MDWASD's Schedule of Daily Rated Gallonage for Various Occupancy)

Retail:	17,350 sq.ft	x	$\frac{10 \text{ gpd}}{100 \text{ sq.ft}}$	=	1,735 gpd
Apartments and Condo:	364 units	x	$\frac{135 \text{ gpd}}{\text{Unit}}$	=	49,140 gpd
			Total =		50,875 gpd

Existing Sewer Demand

Office/Non restaurant Retail:	39,000 sf	x	$\frac{10 \text{ gpd}}{100 \text{ sq.ft}}$	=	3,900 gpd
			Total =		3,900 gpd

Proposed Solid Waste

(Design Flow is based on the City of North Miami Beach's schedule of daily gallonage for various levels of service standards)

Retail:	17,350 sq.ft	x	$\frac{1 \text{ lb}}{100 \text{ sf}}$	=	173.5 lbs
Residential	364 units	x	$\frac{12 \text{ lbs}}{\text{unit}}$	=	4,368 lbs
			Total =		4,541.50 lbs

Existing Sewer Demand

Office/Non restaurant Retail:	39,000 sf	x	$\frac{1 \text{ lb}}{100 \text{ sf}}$	=	390 lbs
			Total =		390 lbs