

Engineer's Report for Potable Water & Sanitary Sewer Service

to:

Oscar & Ella Wilf Campus for Senior Living- Single-Family & Solar Field Development

Block(s): 386.07

Lot(s): 54.05

Township of Franklin

Somerset County, New Jersey

Prepared By:

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WAL/nf
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INTRODUCTION

This report is being prepared in association with an application for Preliminary Approval of the proposed water and sewer facilities associated with the development of Lot 54.05 in Block 386.07 in the Township of Franklin, Somerset County. The proposed development of the 24.46-acre site consists of a subdivision for eleven residential lots at the eastern portion of the site and a solar panel development at the western portion of the lot.

EXISTING & PROPOSED WATER FACILITIES

Existing water facilities include a water main located near the intersection of Berger Street and Lilac Lane. The project proposes the construction of 690 linear feet of 8-inch diameter DIP water main to provide service to the proposed residential development. Water services, both fire and domestic, will be tapped off the new water main. All water services will be constructed of Class 52 ductile iron pipe in conformance with required standards.

Based on the NJDEP standards listed at N.J.A.C. 5:21-5.2, the project will generate approximately 5,225 gallons per day of domestic water flow as illustrated in the following table:

Establishment Type	Number of Measurement Units		Gallons per Day per Unit		Projected Flow (G.P.D.)
Single Family 5 bedroom	11 houses	X	475	=	5,225
TOTAL				=	5,225

Because the proposed water facilities will not generate more than 6,000 gallons per day, a Water Main Extension approval from the NJDEP Bureau of Safe Drinking Water is not required.

All water works will be constructed in accordance with the Township of Franklin's standards and New Jersey Department of Environmental Protection Bureau of Safe Drinking Water Rules and Regulations.

EXISTING & PROPOSED SEWER FACILITIES

Existing sanitary sewer facilities include a 15-inch sewer main located along Seeley's Brook. The project proposes the construction of 1,054 LF of 8-inch diameter PVC along the newly proposed road, which shall connect into the existing 15-inch sewer main along Seeley's Brook. The project proposes the construction of sanitary laterals from the residences into the proposed main.

Based on the NJDEP standards listed at N.J.A.C. 7:14A-23.3, Projected flow criteria, the project will generate approximately 3,300 gallons per day of domestic effluent as illustrated in the following table:

Establishment Type	Number of Measurement Units		Gallons per Day per Unit		Projected Flow (G.P.D.)
Residential	11 dwellings	X	300	=	3,300
TOTAL				=	3,300

Because the proposed treatment works will provide service to more than two (2) buildings, a NJDEP Treatment Works Approval is required.

All treatment works will be constructed in accordance with the Township of Franklin's standards and New Jersey Department of Environmental Protection Treatment Works Regulations.