WATER ENGINEER'S REPORT

ROY'S CARRIBBEAN RESTAURANT

CITY OF ALBANY
COUNTY OF ALBANY
STATE OF NEW YORK

Applicants:
ROY E. VINCENT & JOSSETE VINCENT

Prepared by:

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INTRODUCTION:

Hershberg & Hershberg, Consulting Engineers and Land Surveyors, were retained by Roy E. Vincent & Jossete Vincent (hereinafter the "Applicant") as site engineer for the construction of an addition to 185 Henry Johnson Boulevard. This report is to review the water use for the consideration of the Department of Water & Water Supply and the City of Albany Planning Board.

DESCRIPTION OF EXISTING SITE:

PARCEL AREA

The existing parcel is Tax Map Parcels #65.65-1-11, #65.65-1-12, #65.65-1-13, #65.65-1-14 & Portion of #65.65-1-15 as shown photo below with a site area of 9,307 SF or 0.21 Acres.

Fig. No. 1 - Aerial Photo of Site

DESCRIPTION OF INTENDED SITE DEVELOPMENT AND USE

Applicant proposes to remodel of existing restaurant, add a new addition to enlarge restaurant, add banquet room and bar. Addition will have 4 apartments on second floor and will include driveways from Henry Johnson Boulevard and Third Street. The new building will have 4 new dwelling units being a mixture of 1 & 2 bedrooms. The total building will have 11 bedrooms in 6 units. The expansion to the restaurant will bring the total restaurant and banquet seats to 186± with 60± in the restaurant and 126± as a banquet hall. There will be 10± additional seats at the bar.

POTABLE WATER USE

The existing site is currently developed. To establish the water use, the New *York State Design Standards for Intermediate Sized Wastewater Treatment Systems (March 5, 2014)*[1] is used to compute the Average Daily Flow. Based upon 110 GPD per bed and other uses utilizing Method 1 Typical Per Unit Hydraulic Loading Rates the computation below has been developed.

Potable Water Use Calculations
185 Henry Johnson Boulevard

Use	Unit	Value	Usage Per Unit per day(GPD) - See Note 1	Daily Use (GPD)
Apartments	Beds	11	110	1210
Ordinary Restaurant	Seats	60	35	2100
Bar	Seats	10	20	200
Banquet Hall	Seats	126	10	1260
TOTAL NEW ESTIMATED WATER USE				**4770**
Average New Daily Water Use in GPM		**3.31**		
Peak New Water Use in GPM		**13.25**		
Average New Water Use in GPD		**4770**		
Peak New Water Use in GPD		**19080**		

Note 1: Flow based on Method 1 - Typical Per Unit Hydraulic Loading Rates - New York State Design Standards for Intermediate Sized Wastewater Treatment Systems (March 5, 2014) - Page B-20

Figure No. 2 – Potable Water Use

WATER SYSTEM

The total water treated in 2019 at the Feura Bush Water Filtration Plant was 6,473,227,216 gallons. The daily water production averaged 17,734,869 gallons,

with maximum daily production of 22,272,288 gallons. The capacity of this treatment plant is 32,000,000 GPD. The 4770 GPD average daily flow from the this site represents an insignificant portion of (0.026%) of the average daily water production.

The Albany Water Board maintains water service to this site by way of an 8-inch main in the in Third Street (installed in 1913). There is also a 24" main located in the center of Henry Johnson Boulevard (installed in 1911). The Applicant proposes to install a 4" combined water service. The service will be split into a 4" fire line and a 2" potable water service. Both of these will be protected double check valves. An excerpt from Sheet 129 of the Water Atlas is reproduced below.

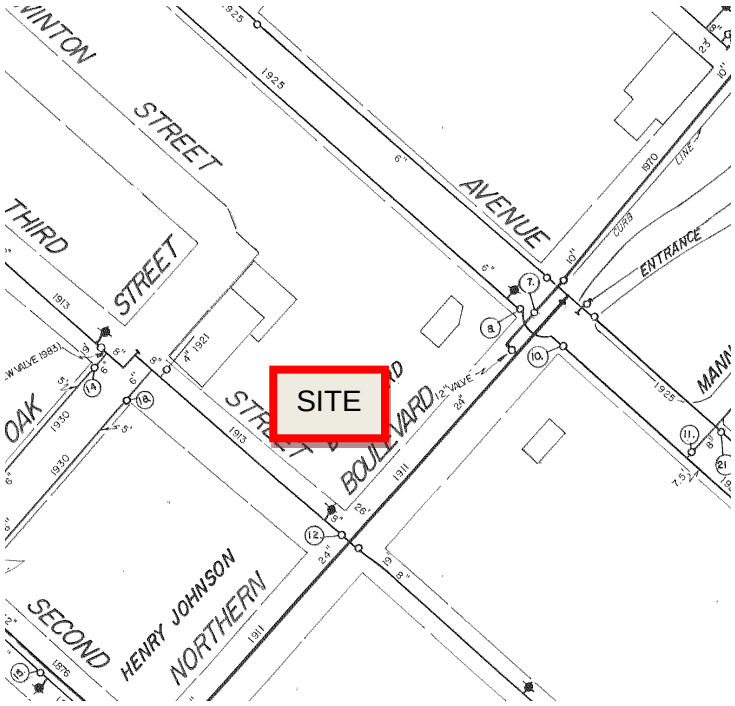

Fig. No. 3 – Portion of Water Atlas Sheet 129

FIRE PROTECTION

There is a hydrant on the northeast corner of Third Street & Henry Johnson Boulevard adjoining the site. Building will be fully sprinklered.

CONCLUSION:

It is the Engineer's opinion that this project can be served by the existing public water system with no negative impact on the existing water system.

Prepared by:

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