Criscuolo Engineering, LLC

James M. Pretti, Jr., P.E., L.S., Member
Robert A. Criscuolo, P.E., L.S., (1957-2018)
Mark D. Ballou, L.S.
Charles A. Fisher, L.S.I.T.

Consulting Engineers
Civil Engineers
Land Surveyors

May 6, 2020

Town of Branford
1019 Main Street
P. O. Box 150
Branford, CT 06405

Attn: John Hoefferle, P.E., Town Engineer

Re: Application for Sanitary Sewer Access
Tidal Basin, LLC
4-6 Indian Neck Avenue
Branford, Connecticut
CE File 2016.067.01

Dear John:

Sewer access was approved for the above referenced property on July 11, 2017. The project was for a 34 room hotel with a total design flow of 5,100 GPD.

The project is being modified to a 30 unit residential building instead of a hotel. The calculated design flow would increase by 900 GPD.

Enclosed please find an Application for Sanitary Sewer Access and a copy of our letter dated May 6, 2020 listing design flow computations for your review for a modified approval.

We understand the W.P.C.A. meeting will be held on Tuesday, May 12th.

If you require anything further, please call.

Sincerely,

CRISCUOLO ENGINEERING, LLC

James M. Pretti, Jr, P.E., L.S.
Member

JMP/tmp
Encl.

Cc: Ed Crowley

420 East Main Street, Building 1, Suite 9, Branford, CT 06405
Phone (203) 481-0807 Fax (203) 488-5729 e-mail: office@cengineeringllc.com

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May 6, 2020

Town of Branford
P. O. Box 150
Branford, CT 06405

Attn: John Hoefferle, P.E., Town Engineer

RE: Proposed 30 Unit Multi-Family Residence
4-6 Indian Neck Avenue
CE File 2016.067.01

Dear John:

Please find the following wastewater design flows for the above referenced project for your review and comment. Please call if you have any comments or require anything further.

Design Flow Computations: 4-6 Indian Neck Avenue

Existing Uses on Site	
Paul's Wire and Rope	
600 sf office @ 20 GPD/200 SF	60 GPD
9680 sf warehouse @ 0.1 GPD/SF	968 GPD
Existing 4 Unit Multi Family Residence (2 bedrooms each)	
6 bedrooms @ 150 GPD	900 GPD
Total existing design flow from parcel	1,928 GPD
Proposed 30 Unit Residential Building	
18 – 1 Bedroom Units @ 200 GPD	3,600 GPD
6 - 2 Bedroom Units @ 300 GPD	1,800 GPD
6 – Studio Apartments @ 100 GPD	600 GPD
Total proposed design flow	6,000 GPD
TOTAL CHANGE IN DESIGN FLOW:	**4,072 GPD**

Sincerely,

CRISCUOLO ENGINEERING, LLC

James M. Pretti, P.E.

JMP/tmp

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Phone (203) 481-0807 Fax (203) 488-5729 e-mail: office@cengineeringllc.com

APPLICATION FOR SANITARY SEWER ACCESS

TOWN OF BRANFORD
Water Pollution Control authority
Attn: Town Engineer
1019 Main Street
P. O. Box 150
Branford, CT 06405

Date: 5/6/2020

To the Branford Water Pollution Control Authority:

The undersigned hereby applies for access to the Branford sanitary sewer system:

Applicant's Name Tidal Basin, LLC **Phone #** 203-410-7198

Applicant's Address 5 Indian Neck Ave **e-mail** ed@crowleycom.com

Branford, CT 06405

Access is requested for: 30 **residential units**

_____ **square feet commercial use**

_____ **square feet industrial use**

Location of property for sanitary sewer access (if difference from above):

Owner's Name Tidal Basin, LLC **Phone #** 203-410-7198

Property Address 4-6 Indian Neck Ave. **e-mail** ed@crowleycom.com

Property Owner's Signature _____

Date 5-6-20

AECOM
500 Enterprise Drive
Suite 1A
Rocky Hill, CT 06067
www.aecom.com

860 263 5800 tel
860 263 5777 fax

May 11, 2020

Mr. John Hoefferle, P.E.
Town Engineer, Town of Branford, CT
1019 Main Street
Branford, CT 06405

Subject: 61-73 Goodsell Point Road Sewer Impact Evaluation

Dear John,

As discussed and agreed to in our recent correspondence regarding this application, Flow Assessment Services was retained to provide monitoring of the flow to Harbor Street Pump Station. The monitoring program captured three significant rainfall events in addition to the monitoring of daily flow patterns. The results of the data collection were reviewed with the following conclusions and recommendations:

- The pumps at Harbor Street pump station have a capacity of 325 gpm each. There are two pumps with one as a spare so that firm capacity of the station is 325 gpm;
- Sewer flow was measured from April 5 to April 30 and was completed during an opportune time of the year to capture the effect of rainfall;
- There are a number of residences in this service area. It is assumed most are year-round residences although it is possible that some are currently vacant. We will take this into consideration when providing recommendations;
- While rainfall events were captured, additional flows can be expected if rainfalls are more intense or last longer than that captured. We will take this into consideration in the recommendations;
- Except for one occasion, current flows were within the firm capacity of the pump station;
- There was an instance when, during a rain event, both pumps turned on indicating pump station capacity was reached. This influent flow was calculated at 980 gpm. Upon further investigation, this data point was considered an anomaly as the pump cycles before and after this event indicate a more typical flow situation.

The applicant is recommending a pump station for this development that has a capacity of 260 gpm. While there will be attenuation of this pumped flow in the sewer system, the capacity of this pump station appears larger than needed and it is recommended that it be reduced in capacity to 150 gpm maximum and be provided with variable frequency drives to regulate pump output.

We have no further comments on the application. AECOM is available at any time to discuss this with you.

Very truly yours,

AECOM

Dennis Setzko, P.E.
Associate Vice President