

WATER ENGINEER'S REPORT

Proposed Addition to **HOSPITALITY HOUSE 271 CENTRAL AVENUE**

City of Albany
County of Albany
State of New York

Applicant:
Hospitality House TC, Inc.



Prepared by:
HERSHBERG & HERSHBERG
CONSULTING ENGINEERS

18 Locust Street
Albany, New York 12203
Phone: (518) 459-3096
Fax: (518) 459-5683
Web Site: Hershberg.com

January 29, 2022

INTRODUCTION

Hershberg & Hershberg, Consulting Engineers and Land Surveyors, were retained by Hospitality House TC, Inc. (hereinafter the “Applicant”) as site engineer for the improvement of the Hospitality House at 271 Central Avenue.

DESCRIPTION OF EXISTING SITE:

PARCEL AREA

The project area is currently occupied by the Hospitality House 72 bed residential facility. There is a 3-story structure on Central Avenue with a one-story addition to the rear of No. 269 Central Avenue. There is a 7-car parking lot on the Sherman Street side accessed from Sherman Street. The existing operation requires 38 employees working in 3 shifts. The proposal will consolidate four lots at No. 269 Central Avenue (TID #’65.63-2-68), No. 271 Central Avenue (TID #’65.63-2-69), No. 98 North Lake Avenue (TID #’65.63-2-70) & No. 260 Sherman Street, (TID #’65.63-2-33) into a single lot with the address of No. 271 Central Avenue having an area of 12,480 SF or 0.29 acre. Aerial view of the site is shown in Fig. No. 1.



Fig. No. 1 - Aerial Photo of Existing Site

EXISTING USAGE

The project area is currently occupied by the Hospitality House 72 bed residential facility. There is a 3-story structure on Central Avenue with a one-story addition to the rear of No. 269 Central Avenue. There is a 7-car parking lot on the Sherman Street side accessed from Sherman Street. The existing operation requires 38 employees working in 3 shifts. During the pandemic, residents level dropped from 65-72 to the low 50's during 2000 and to 45 during 2021.

DESCRIPTION OF INTENDED SITE DEVELOPMENT AND USE

Applicant proposes to maintain the current 72 bed count under license by New York State Office of Alcoholism and Substance Abuse Services (OASAS) at the current site. The building size however will be increased from 13,000 SF to 34,000 SF to meet current OASAS guidelines for Stabilization and Rehabilitation Services and to house Hospitality House's central administrative needs.

In order to keep Hospitality House's treatment program operational during construction, the project will need to be constructed in two phases. Phase 1 will involve the construction of a new four-story addition on the property north of their existing building adjoining Sherman Street. Phase 2 would involve the complete renovation of the existing building. Construction duration for the entire project is expected to be 30 months. During the construction period, the number of clients served will need to be temporarily reduced to approximately 48 residents. After rehabilitation and new construction are complete the resident count would return to 72 and the employees would increase to 65 working in 3 shifts.

EXISTING WATER USE

A review of past water bills (see Appendix 1) showed a decrease in water use in 2020 and 2021 as during the pandemic, residents level dropped from 65-72 to the low 50's during 2000 and to 45 during 2021. The average daily use during 2016 & 2017 was 3,204 GPD. See summary below.

No. 271 CENTRAL AVENUE HISTORIC WATER USE			
<u>Year Ending</u>	<u>Water USE (CF)</u>	<u>Water Use (Gallons)</u>	<u>Daily Use (GPD)</u>
10/1/2021	94,600	708,554	1941
10/1/2020	103,300	773,717	2131
10/3/2019	124,700	934,003	2552
10/2/2018	137,300	1,028,377	2817
10/3/2017	155,800	1,166,942	3197
10/3/2016	156,500	1,172,185	3211
Total	772,200	5,783,778	2641
Average for 2016 & 2017			3204

Fig. No. 2 – Historic Water Use

PROPOSED WATER USE

In order to compare actual water use with figures based upon the *New York State Design Standards for Intermediate Sized Wastewater Treatment Systems* (March 5, 2014)¹, the estimated daily sewage generation is shown below.

Historic Water Use Calculations
271 Central Avenue

<u>Use</u>	<u>Unit</u>	<u>Value</u>	<u>Usage Per Unit per</u> <u>day(GPD) See Note 1</u>	<u>Daily Use (GPD)</u>
Residential Beds	Bed	72	110	7920
Office	employee	38	15	570
TOTAL ESTIMATED WATER USE				8490
NET ESTIMATED WATER USE				8490
Average Daily Water Use in GPM		5.90		
Peak Water Use in GPM @ 400%		23.58		
Average Daily Water Use in GPD		8490		
Peak Daily Water Use Increase in GPD		33960		

1) Source: New York State Design Standards for Intermediate Sized Wastewater Treatment Systems

Fig. No. 3 – Historic Theoretical Water Use Generation

Based on the comparison of actual water use under full occupancy (3,204 GPD – see Fig. No. 2) with the theoretical historic sewer generation (8,490 GPD – see Fig. No. 3) indicate that the proper correction factor is approximately 37.7%.

¹ *New York State Design Standards for Intermediate Sized Wastewater Treatment Systems* (March 5, 2014)

The projected future sewage generation with figures based upon the *New York State Design Standards for Intermediate Sized Wastewater Treatment Systems* (March 5, 2014)², The estimated daily sewage generation is shown below as 8,895 GPD.

Projected Theoretical Water Use Calculations
271 Central Avenue

<u>Use</u>	<u>Unit</u>	<u>Value</u>	<u>Usage Per Unit per</u> <u>day(GPD) See Note 1</u>	<u>Daily Use (GPD)</u>
Residential Beds	Bed	72	110	7920
Office	employee	65	15	975
TOTAL ESTIMATED WATER USE				8895
NET ESTIMATED WATER USE				8895
Average Daily Water Use in GPM		6.18		
Peak Water Use in GPM @ 400%		24.71		
Average Daily Water Use in GPD		8895		
Peak Daily Water Use Increase in GPD		35580		

1) Source: New York State Design Standards for Intermediate Sized Wastewater Treatment Systems

Fig. No. 4 – Projected Water Use Calculations

The 8,895 GPD corrected by the relationship between theoretical and actual use (37.7%) results in an average daily flow of 3,353 GPD (2.33 GPM). Peak flow at 400% is .020 CFS. This exceeds the actual use at peak occupancy by 149 GPD (0.10 GPM).

WATER

Public water supply is currently provided to the property by the Albany Water Board. The current building site is served by an 8” CI main installed in 1916 which is within the sidewalk on the north side of Central Avenue. It is also served by a 6” CI main in the sidewalk of North Lake Avenue and by a 6” CI main in the sidewalk of Sherman Street. Reproduced below as Fig. No. 5 & 6 is a portion of the City of Albany Water Atlas showing the water system in the vicinity of the site. The Applicant will install a new 6” DIP

² *New York State Design Standards for Intermediate Sized Wastewater Treatment Systems* (March 5, 2014)

combined service into the building. It will split inside the mech. room for sprinkler and for domestic water. The domestic service will be a 3" metered service and the fire protection service will be a 6" both being served through a 6" lateral. The fire suppression system will have a double check valves for backflow prevention and the domestic service would be served by an RPZ backflow preventor. The 6" DIP water service will be privately owned by Hospitality House TC, Inc.

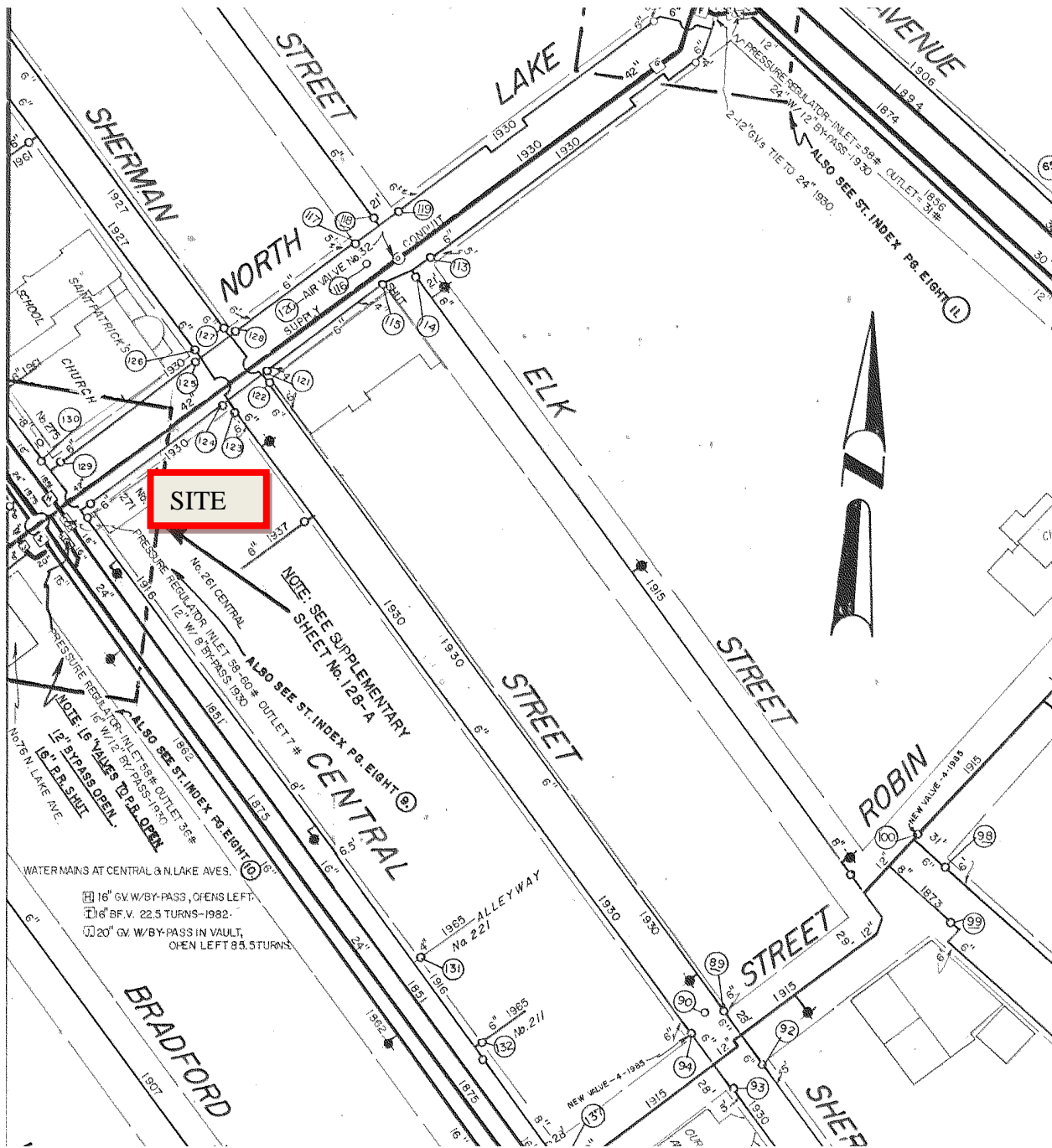


Fig. No. 5 – Portion of City of Albany Water Atlas Sheet 128

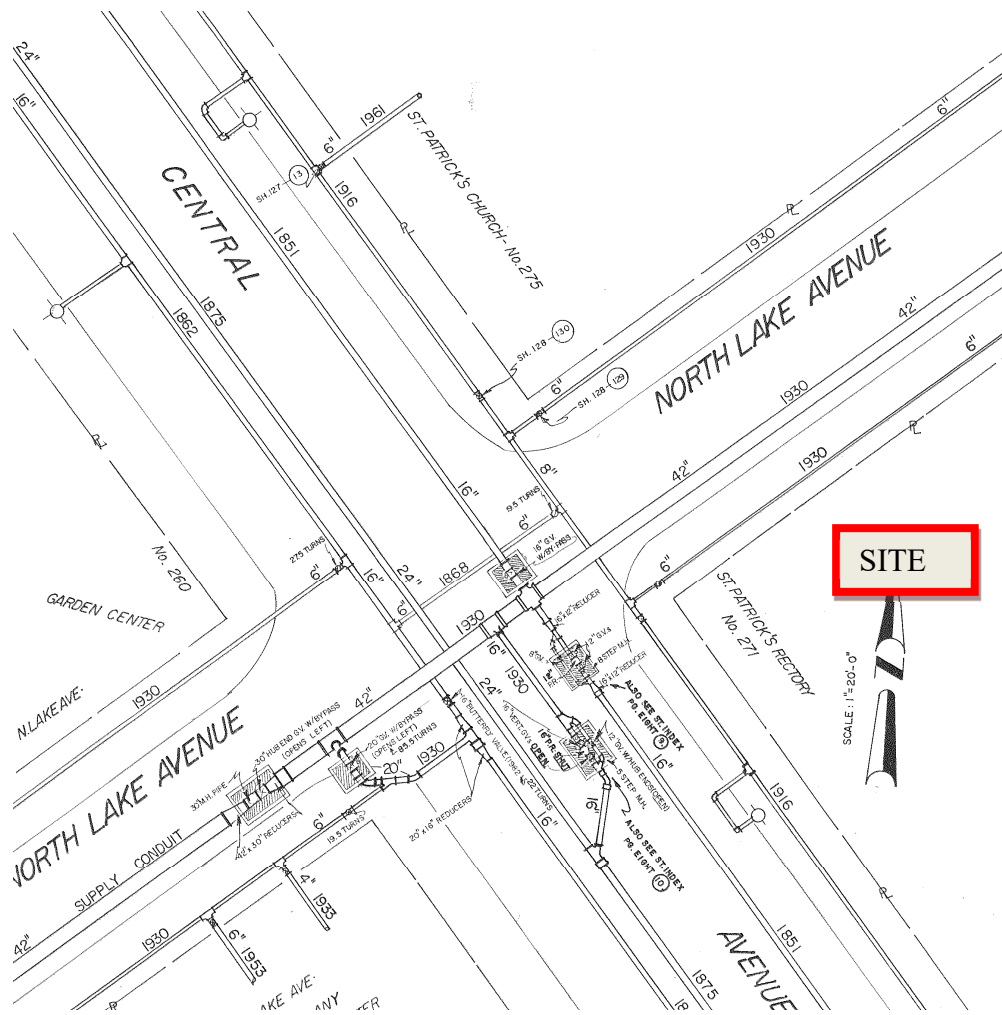


Fig. No. 6 – Portion of City of Albany Water Atlas Sheet 128A

After connection of the buildings to Sherman Street, the service from Central Avenue will be disconnected at the main and removed.

FIRE PROTECTION:

There are two hydrants in the vicinity of the building. One is in front of No. 269 Central Avenue and one is in front of No. 260 Sherman Street. Fire protection system and backflow prevention will be detailed on the building plans. A hydrant flow test was taken at the hydrant in front of No. 269 Central Avenue. See Appendix No. 2. This shows a static pressure of 63 PSI and a flow of 3,260 GPM at 20 PSI. A hydrant is also proposed in front of 98 North Lake Avenue.

IMPACT ON WATER SYSTEM

The total water treated in 2020 at the Feura Bush Water Filtration Plant was 6,316,555,488 gallons. The daily water production averaged 17,258,348 gallons, with maximum daily production of 24,883,984 gallons. The capacity of this treatment plant is 32,000,000 GPD. The 3,353 GPD average daily flow after occupation of the building represents an insignificant portion of (0.019%) of the average daily water production.

CONCLUSION:

It is the Engineer's opinion that this project can be served by existing public water system with minimal impact on the system.

Prepared by:



A handwritten signature in black ink, appearing to read "D. Hershberg", written over a horizontal line.

HERSHBERG & HERSHBERG
Daniel R. Hershberg, P.E. & L.S.

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APPENDIX 1

WATER USE AT 271 CENTRAL AVENUE

Utility Billing

Account History Report

User: ascheely
 Printed: 01/28/2022 - 9:13AM



Account Status: Active
Connect Date: 01/01/2004 **Final Date:**
Customer Name: HOSPITALITY HOUSE INC
Care Of:
Customer Address: 271 CENTRAL AVE
 ALBANY, NY 12206

Total Account Balance: 0.00
Total Deposits: 0.00 **Total Refunds:** 0.00

Owner Name:
Service Address: 271 CENTRAL AVE

Home Phone: (518) 423-9061 **Ext:**
Business Phone: **Ext:**
Account Number: 012339-000 **Reference Number:** 1405901

Tran Date	Tran Type	Description	Amount	WATER	SEWER	DEMAND	VACANT	MISC	PEN	GUILD	WC
Current Balance By Service				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/06/2022	Payment		-1,699.32	-849.66	-849.66	0.00	0.00	0.00	0.00	0.00	0.00
12/01/2021	Balance		1,699.32	849.66	849.66	0.00	0.00	0.00	0.00	0.00	0.00
12/01/2021	Billing		1,699.32	849.66	849.66	0.00	0.00	0.00	0.00	0.00	0.00
11/22/2021	Adjustment	Collection	-99.88	0.00	0.00	0.00	0.00	0.00	-99.88	0.00	0.00
10/04/2021	Payment		-1,664.64	-832.32	-832.32	0.00	0.00	0.00	0.00	0.00	0.00
10/05/2021	Adjustment	Past Due	16.65	0.00	0.00	0.00	0.00	0.00	16.65	0.00	0.00
09/10/2021	Adjustment	Past Due	83.23	0.00	0.00	0.00	0.00	0.00	83.23	0.00	0.00
07/06/2021	Billing		1,664.64	832.32	832.32	0.00	0.00	0.00	0.00	0.00	0.00
07/06/2021	Balance		1,664.64	832.32	832.32	0.00	0.00	0.00	0.00	0.00	0.00
04/13/2021	Payment		-300.00	0.00	0.00	-300.00	0.00	0.00	0.00	0.00	0.00
04/13/2021	Payment		-2,066.90	-1,033.45	-1,033.45	0.00	0.00	0.00	0.00	0.00	0.00
03/12/2021	Billing		300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
03/03/2021	Billing		2,066.90	1,033.45	1,033.45	0.00	0.00	0.00	0.00	0.00	0.00
03/03/2021	Balance		2,066.90	1,033.45	1,033.45	0.00	0.00	0.00	0.00	0.00	0.00
12/30/2020	Payment		-1,768.86	-884.43	-884.43	0.00	0.00	0.00	0.00	0.00	0.00

Account Number: 012339-000

Reference Number: 1405901

Tran Date	Tran Type	Description	Amount	WATER	SEWER	DEMAND	VACANT	MISC	PEN	GUILD	WC
11/23/2020	Balance		1,768.86	884.43	884.43	0.00	0.00	0.00	0.00	0.00	0.00
11/23/2020	Billing		1,768.86	884.43	884.43	0.00	0.00	0.00	0.00	0.00	0.00
07/31/2020	Payment		-1,780.02	-890.01	-890.01	0.00	0.00	0.00	0.00	0.00	0.00
07/08/2020	Balance		1,780.02	890.01	890.01	0.00	0.00	0.00	0.00	0.00	0.00
07/08/2020	Billing		1,780.02	890.01	890.01	0.00	0.00	0.00	0.00	0.00	0.00
04/08/2020	Payment		-2,487.24	-1,093.62	-1,093.62	-300.00	0.00	0.00	0.00	0.00	0.00
03/03/2020	Balance		2,487.24	1,093.62	1,093.62	300.00	0.00	0.00	0.00	0.00	0.00
03/03/2020	Billing		2,487.24	1,093.62	1,093.62	300.00	0.00	0.00	0.00	0.00	0.00
01/06/2020	Payment		-2,034.56	-1,017.28	-1,017.28	0.00	0.00	0.00	0.00	0.00	0.00
12/03/2019	Billing		2,034.56	1,017.28	1,017.28	0.00	0.00	0.00	0.00	0.00	0.00
12/03/2019	Balance		2,034.56	1,017.28	1,017.28	0.00	0.00	0.00	0.00	0.00	0.00
08/08/2019	Payment		-2,252.16	-1,126.08	-1,126.08	0.00	0.00	0.00	0.00	0.00	0.00
		Check No: 21233									
07/02/2019	Balance		2,252.16	1,126.08	1,126.08	0.00	0.00	0.00	0.00	0.00	0.00
07/02/2019	Billing		2,252.16	1,126.08	1,126.08	0.00	0.00	0.00	0.00	0.00	0.00
03/26/2019	Payment		-2,751.06	-1,225.53	-1,225.53	-300.00	0.00	0.00	0.00	0.00	0.00
03/05/2019	Balance		2,751.06	1,225.53	1,225.53	300.00	0.00	0.00	0.00	0.00	0.00
03/05/2019	Billing		2,751.06	1,225.53	1,225.53	300.00	0.00	0.00	0.00	0.00	0.00
12/19/2018	Payment		-2,435.04	-1,217.52	-1,217.52	0.00	0.00	0.00	0.00	0.00	0.00
11/30/2018	Billing		2,435.04	1,217.52	1,217.52	0.00	0.00	0.00	0.00	0.00	0.00
11/30/2018	Balance		2,435.04	1,217.52	1,217.52	0.00	0.00	0.00	0.00	0.00	0.00
07/27/2018	Payment		-2,467.08	-1,233.54	-1,233.54	0.00	0.00	0.00	0.00	0.00	0.00
07/06/2018	Billing		2,467.08	1,233.54	1,233.54	0.00	0.00	0.00	0.00	0.00	0.00
07/06/2018	Balance		2,467.08	1,233.54	1,233.54	0.00	0.00	0.00	0.00	0.00	0.00
04/03/2018	Payment		-2,725.70	-1,214.85	-1,214.85	-296.00	0.00	0.00	0.00	0.00	0.00
03/06/2018	Billing		2,725.70	1,214.85	1,214.85	296.00	0.00	0.00	0.00	0.00	0.00
03/06/2018	Balance		2,725.70	1,214.85	1,214.85	296.00	0.00	0.00	0.00	0.00	0.00
12/19/2017	Payment		-2,483.10	-1,241.55	-1,241.55	0.00	0.00	0.00	0.00	0.00	0.00
11/24/2017	Balance		2,483.10	1,241.55	1,241.55	0.00	0.00	0.00	0.00	0.00	0.00

Account Number: 012339-000

Reference Number: 1405901

Tran Date	Tran Type	Description	Amount	WATER	SEWER	DEMAND	VACANT	MISC	PEN	GUILD	WC
11/24/2017	Billing		2,483.10	1,241.55	1,241.55	0.00	0.00	0.00	0.00	0.00	0.00
08/02/2017	Payment		-3,113.22	-1,556.61	-1,556.61	0.00	0.00	0.00	0.00	0.00	0.00
07/07/2017	Balance		3,113.22	1,556.61	1,556.61	0.00	0.00	0.00	0.00	0.00	0.00
07/07/2017	Billing		3,113.22	1,556.61	1,556.61	0.00	0.00	0.00	0.00	0.00	0.00
03/20/2017	Payment		-3,019.40	-1,361.70	-1,361.70	-296.00	0.00	0.00	0.00	0.00	0.00
03/03/2017	Billing		3,019.40	1,361.70	1,361.70	296.00	0.00	0.00	0.00	0.00	0.00
03/03/2017	Balance		3,019.40	1,361.70	1,361.70	296.00	0.00	0.00	0.00	0.00	0.00
12/20/2016	Payment		-2,707.38	-1,353.69	-1,353.69	0.00	0.00	0.00	0.00	0.00	0.00
11/29/2016	Balance		2,707.38	1,353.69	1,353.69	0.00	0.00	0.00	0.00	0.00	0.00
11/29/2016	Billing		2,707.38	1,353.69	1,353.69	0.00	0.00	0.00	0.00	0.00	0.00
07/27/2016	Payment		-2,675.34	-1,337.67	-1,337.67	0.00	0.00	0.00	0.00	0.00	0.00
07/08/2016	Billing		2,675.34	1,337.67	1,337.67	0.00	0.00	0.00	0.00	0.00	0.00
07/08/2016	Balance		2,675.34	1,337.67	1,337.67	0.00	0.00	0.00	0.00	0.00	0.00
03/16/2016	Payment		-3,270.38	-1,487.19	-1,487.19	-296.00	0.00	0.00	0.00	0.00	0.00
03/04/2016	Billing		3,270.38	1,487.19	1,487.19	296.00	0.00	0.00	0.00	0.00	0.00
03/04/2016	Balance		3,270.38	1,487.19	1,487.19	296.00	0.00	0.00	0.00	0.00	0.00
12/16/2015	Payment		-3,011.76	-1,505.88	-1,505.88	0.00	0.00	0.00	0.00	0.00	0.00
11/27/2015	Billing		3,011.76	1,505.88	1,505.88	0.00	0.00	0.00	0.00	0.00	0.00
11/27/2015	Balance		3,011.76	1,505.88	1,505.88	0.00	0.00	0.00	0.00	0.00	0.00
07/20/2015	Payment		-3,070.50	-1,535.25	-1,535.25	0.00	0.00	0.00	0.00	0.00	0.00
07/09/2015	Balance		3,070.50	1,535.25	1,535.25	0.00	0.00	0.00	0.00	0.00	0.00
07/09/2015	Billing		3,070.50	1,535.25	1,535.25	0.00	0.00	0.00	0.00	0.00	0.00
03/25/2015	Payment		-3,243.68	-1,473.84	-1,473.84	-296.00	0.00	0.00	0.00	0.00	0.00
03/06/2015	Billing		3,243.68	1,473.84	1,473.84	296.00	0.00	0.00	0.00	0.00	0.00
03/06/2015	Balance		3,243.68	1,473.84	1,473.84	296.00	0.00	0.00	0.00	0.00	0.00
12/24/2014	CONVERT	Convert Payment	-3,102.54	-1,551.27	-1,551.27	0.00	0.00	0.00	0.00	0.00	0.00
11/25/2014	Balance		3,102.54	1,551.27	1,551.27	0.00	0.00	0.00	0.00	0.00	0.00
11/25/2014	CONVERT	Convert Billing	3,102.54	1,551.27	1,551.27	0.00	0.00	0.00	0.00	0.00	0.00
07/31/2014	CONVERT	Convert Payment	-2,851.56	-1,425.78	-1,425.78	0.00	0.00	0.00	0.00	0.00	0.00

Tran Date	Tran Type	Description	Amount	WATER	SEWER	DEMAND	VACANT	MISC	PEN	GUILD	WC
07/08/2014	CONVERT	Convert Billing	2,851.56	1,425.78	1,425.78	0.00	0.00	0.00	0.00	0.00	0.00
07/08/2014	Balance		2,851.56	1,425.78	1,425.78	0.00	0.00	0.00	0.00	0.00	0.00
03/25/2014	CONVERT	Convert Payment	-3,062.12	-1,383.06	-1,383.06	-296.00	0.00	0.00	0.00	0.00	0.00
03/06/2014	CONVERT	Convert Billing	3,062.12	1,383.06	1,383.06	296.00	0.00	0.00	0.00	0.00	0.00
03/06/2014	Balance		3,062.12	1,383.06	1,383.06	296.00	0.00	0.00	0.00	0.00	0.00
12/17/2013	CONVERT	Convert Payment	-2,520.48	-1,260.24	-1,260.24	0.00	0.00	0.00	0.00	0.00	0.00
11/27/2013	Balance		2,520.48	1,260.24	1,260.24	0.00	0.00	0.00	0.00	0.00	0.00
11/27/2013	CONVERT	Convert Billing	2,520.48	1,260.24	1,260.24	0.00	0.00	0.00	0.00	0.00	0.00
07/30/2013	CONVERT	Convert Payment	-2,515.14	-1,257.57	-1,257.57	0.00	0.00	0.00	0.00	0.00	0.00
07/05/2013	Balance		2,515.14	1,257.57	1,257.57	0.00	0.00	0.00	0.00	0.00	0.00
07/05/2013	CONVERT	Convert Billing	2,515.14	1,257.57	1,257.57	0.00	0.00	0.00	0.00	0.00	0.00
04/01/2013	CONVERT	Convert Payment	-3,215.86	-1,383.06	-1,383.06	-296.00	0.00	0.00	-153.74	0.00	0.00
03/08/2013	CONVERT	Convert Billing	3,062.12	1,383.06	1,383.06	296.00	0.00	0.00	0.00	0.00	0.00
03/08/2013	Balance		3,215.86	1,383.06	1,383.06	296.00	0.00	0.00	153.74	0.00	0.00
01/24/2013	CONVERT	Convert Payment	-3,074.88	-1,537.44	-1,537.44	0.00	0.00	0.00	0.00	0.00	0.00
12/31/2012	CONVERT	Convert Adjustment	153.74	0.00	0.00	0.00	0.00	0.00	153.74	0.00	0.00
11/27/2012	Balance		3,074.88	1,537.44	1,537.44	0.00	0.00	0.00	0.00	0.00	0.00
11/27/2012	CONVERT	Convert Billing	3,074.88	1,537.44	1,537.44	0.00	0.00	0.00	0.00	0.00	0.00
07/26/2012	CONVERT	Convert Payment	-2,937.24	-1,326.12	-1,326.12	-285.00	0.00	0.00	0.00	0.00	0.00
07/10/2012	Balance		2,937.24	1,326.12	1,326.12	285.00	0.00	0.00	0.00	0.00	0.00
07/10/2012	CONVERT	Convert Billing	2,937.24	1,326.12	1,326.12	285.00	0.00	0.00	0.00	0.00	0.00
04/10/2012	CONVERT	Convert Payment	-2,467.20	-1,233.60	-1,233.60	0.00	0.00	0.00	0.00	0.00	0.00
03/08/2012	Balance		2,467.20	1,233.60	1,233.60	0.00	0.00	0.00	0.00	0.00	0.00
03/08/2012	CONVERT	Convert Billing	2,467.20	1,233.60	1,233.60	0.00	0.00	0.00	0.00	0.00	0.00
12/14/2011	CONVERT	Convert Payment	-2,148.52	-1,074.26	-1,074.26	0.00	0.00	0.00	0.00	0.00	0.00
11/29/2011	Balance		2,148.52	1,074.26	1,074.26	0.00	0.00	0.00	0.00	0.00	0.00
11/29/2011	CONVERT	Convert Billing	2,148.52	1,074.26	1,074.26	0.00	0.00	0.00	0.00	0.00	0.00
07/20/2011	CONVERT	Convert Payment	-2,641.96	-1,320.98	-1,320.98	0.00	0.00	0.00	0.00	0.00	0.00
07/08/2011	Balance		2,641.96	1,320.98	1,320.98	0.00	0.00	0.00	0.00	0.00	0.00

Tran Date	Tran Type	Description	Amount	WATER	SEWER	DEMAND	VACANT	MISC	PEN	GUILD	WC
07/08/2011	CONVERT	Convert Billing	2,641.96	1,320.98	1,320.98	0.00	0.00	0.00	0.00	0.00	0.00
03/28/2011	CONVERT	Convert Payment	-526.58	-120.79	-120.79	-285.00	0.00	0.00	0.00	0.00	0.00
03/08/2011	CONVERT	Convert Billing	526.58	120.79	120.79	285.00	0.00	0.00	0.00	0.00	0.00
03/08/2011	Balance		526.58	120.79	120.79	285.00	0.00	0.00	0.00	0.00	0.00
12/06/2010	CONVERT	Convert Payment	-254.72	-127.36	-127.36	0.00	0.00	0.00	0.00	0.00	0.00
11/19/2010	CONVERT	Convert Billing	254.72	127.36	127.36	0.00	0.00	0.00	0.00	0.00	0.00
11/19/2010	Balance		254.72	127.36	127.36	0.00	0.00	0.00	0.00	0.00	0.00
08/03/2010	CONVERT	Convert Payment	-249.90	-124.95	-124.95	0.00	0.00	0.00	0.00	0.00	0.00
07/09/2010	CONVERT	Convert Billing	249.90	124.95	124.95	0.00	0.00	0.00	0.00	0.00	0.00
07/09/2010	Balance		249.90	124.95	124.95	0.00	0.00	0.00	0.00	0.00	0.00
03/16/2010	CONVERT	Convert Payment	-558.00	-122.50	-122.50	-313.00	0.00	0.00	0.00	0.00	0.00
03/11/2010	CONVERT	Convert Billing	558.00	122.50	122.50	313.00	0.00	0.00	0.00	0.00	0.00
03/11/2010	Balance		558.00	122.50	122.50	313.00	0.00	0.00	0.00	0.00	0.00
12/04/2009	CONVERT	Convert Payment	-279.30	-139.65	-139.65	0.00	0.00	0.00	0.00	0.00	0.00
11/23/2009	Balance		279.30	139.65	139.65	0.00	0.00	0.00	0.00	0.00	0.00
11/23/2009	CONVERT	Convert Billing	279.30	139.65	139.65	0.00	0.00	0.00	0.00	0.00	0.00
08/24/2009	CONVERT	Convert Payment	-249.90	-124.95	-124.95	0.00	0.00	0.00	0.00	0.00	0.00
07/07/2009	CONVERT	Convert Billing	249.90	124.95	124.95	0.00	0.00	0.00	0.00	0.00	0.00
07/07/2009	Balance		249.90	124.95	124.95	0.00	0.00	0.00	0.00	0.00	0.00
06/17/2009	CONVERT	Convert Payment	-833.00	-412.38	-412.37	0.00	0.00	0.00	-8.25	0.00	0.00
05/28/2009	CONVERT	Convert Adjustment	8.25	0.00	0.00	0.00	0.00	0.00	8.25	0.00	0.00
05/08/2009	CONVERT	Convert Adjustment	-41.24	0.00	0.00	0.00	0.00	0.00	-41.24	0.00	0.00
04/30/2009	CONVERT	Convert Adjustment	41.24	0.00	0.00	0.00	0.00	0.00	41.24	0.00	0.00
04/29/2009	CONVERT	Convert Adjustment	824.75	412.38	412.37	0.00	0.00	0.00	0.00	0.00	0.00
04/09/2009	CONVERT	Convert Payment	-529.11	-116.49	-116.49	-296.13	0.00	0.00	0.00	0.00	0.00
03/19/2009	CONVERT	Convert Billing	529.11	116.49	116.49	296.13	0.00	0.00	0.00	0.00	0.00
03/19/2009	Balance		529.11	116.49	116.49	296.13	0.00	0.00	0.00	0.00	0.00
12/19/2008	CONVERT	Convert Payment	-218.88	-109.44	-109.44	0.00	0.00	0.00	0.00	0.00	0.00
11/26/2008	Balance		218.88	109.44	109.44	0.00	0.00	0.00	0.00	0.00	0.00

Account Number: 012339-000

Reference Number: 1405901

Tran Date	Tran Type	Description	Amount	WATER	SEWER	DEMAND	VACANT	MISC	PEN	GUILD	WC
11/26/2008	CONVERT	Convert Billing	218.88	109.44	109.44	0.00	0.00	0.00	0.00	0.00	0.00
07/21/2008	CONVERT	Convert Payment	-212.92	-96.02	-116.90	0.00	0.00	0.00	0.00	0.00	0.00
07/08/2008	CONVERT	Convert Billing	233.80	116.90	116.90	0.00	0.00	0.00	0.00	0.00	0.00
07/08/2008	Balance		212.92	96.02	116.90	0.00	0.00	0.00	0.00	0.00	0.00
04/29/2008	CONVERT	Convert Payment	-438.48	-132.68	-111.80	-194.00	0.00	0.00	0.00	0.00	0.00
03/14/2008	Balance		417.60	111.80	111.80	194.00	0.00	0.00	0.00	0.00	0.00
03/14/2008	CONVERT	Convert Billing	417.60	111.80	111.80	194.00	0.00	0.00	0.00	0.00	0.00
12/24/2007	CONVERT	Convert Payment	-279.50	-139.75	-139.75	0.00	0.00	0.00	0.00	0.00	0.00
12/10/2007	CONVERT	Convert Billing	279.50	139.75	139.75	0.00	0.00	0.00	0.00	0.00	0.00
12/10/2007	Balance		279.50	139.75	139.75	0.00	0.00	0.00	0.00	0.00	0.00
08/20/2007	CONVERT	Convert Payment	-249.40	-124.70	-124.70	0.00	0.00	0.00	0.00	0.00	0.00
07/23/2007	Balance		249.40	124.70	124.70	0.00	0.00	0.00	0.00	0.00	0.00
07/23/2007	CONVERT	Convert Billing	249.40	124.70	124.70	0.00	0.00	0.00	0.00	0.00	0.00
04/23/2007	CONVERT	Convert Payment	-367.22	-86.61	-86.61	-194.00	0.00	0.00	0.00	0.00	0.00
04/08/2007	Balance		367.22	86.61	86.61	194.00	0.00	0.00	0.00	0.00	0.00
04/08/2007	CONVERT	Convert Billing	367.22	86.61	86.61	194.00	0.00	0.00	0.00	0.00	0.00
08/11/2006	Payment	PAYMENT	-213.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/18/2006	Billing	BILLING	111.72	0.00	111.72	0.00	0.00	0.00	0.00	0.00	0.00
05/25/2006	Payment	PAYMENT	-169.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/23/2006	Payment	PAYMENT	-439.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/20/2006	Billing	BILLING	169.00	0.00	0.00	169.00	0.00	0.00	0.00	0.00	0.00
03/24/2006	Billing	BILLING	96.53	96.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/09/2006	Billing	BILLING	5.64	0.00	0.00	0.00	0.00	0.00	564.00	0.00	0.00
12/08/2005	Billing	BILLING	112.86	0.00	112.86	0.00	0.00	0.00	0.00	0.00	0.00
08/16/2005	Billing	BILLING	6.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/19/2005	Billing	BILLING	71.82	0.00	71.82	0.00	0.00	0.00	0.00	0.00	0.00
04/18/2005	Billing	BILLING	147.00	0.00	0.00	147.00	0.00	0.00	0.00	0.00	0.00
03/16/2005	Billing	BILLING	95.76	0.00	95.76	0.00	0.00	0.00	0.00	0.00	0.00
12/15/2004	Billing	BILLING	87.21	87.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Account Number: 012339-000

Reference Number: 1405901

Tran Date	Tran Type	Description	Amount	WATER	SEWER	DEMAND	VACANT	MISC	PEN	GUILD	WC
10/18/2004	Payment	PAYMENT	-913.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/13/2004	Payment	PAYMENT	-663.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/26/2004	Billing	BILLING	124.83	124.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/07/2004	Payment	PAYMENT	-136.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/28/2004	Billing	BILLING	331.74	0.00	331.74	0.00	0.00	0.00	0.00	0.00	0.00
05/10/2004	Billing	BILLING	147.00	0.00	0.00	147.00	0.00	0.00	0.00	0.00	0.00
02/04/2004	Payment	PAYMENT	-741.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/29/2004	Billing	BILLING	3.22	0.00	0.00	0.00	0.00	0.00	322.00	0.00	0.00
01/02/2004	Payment	PAYMENT	-924.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/2003	Billing	BILLING	39.24	0.00	0.00	0.00	0.00	0.00	3,924.00	0.00	0.00
11/18/2003	Billing	BILLING	784.89	784.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/2003	Billing	BILLING	3.41	0.00	0.00	0.00	0.00	0.00	341.00	0.00	0.00
11/10/2003	Billing	BILLING	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/2003	Billing	BILLING	0.85	0.00	0.00	0.00	0.00	0.00	85.00	0.00	0.00
11/10/2003	Billing	BILLING	27.05	0.00	0.00	0.00	0.00	0.00	2,705.00	0.00	0.00
11/10/2003	Billing	BILLING	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/2003	Billing	BILLING	27.03	0.00	0.00	0.00	0.00	0.00	2,703.00	0.00	0.00
11/10/2003	Billing	BILLING	3.38	0.00	0.00	0.00	0.00	0.00	338.00	0.00	0.00
11/10/2003	Billing	BILLING	338.13	338.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/2003	Billing	BILLING	16.91	0.00	0.00	0.00	0.00	0.00	1,691.00	0.00	0.00
11/05/2003	Billing	BILLING	16.91	0.00	0.00	0.00	0.00	0.00	1,691.00	0.00	0.00
11/04/2003	Billing	BILLING	3.38	0.00	0.00	0.00	0.00	0.00	338.00	0.00	0.00
10/22/2003	Billing	BILLING	3.38	0.00	0.00	0.00	0.00	0.00	338.00	0.00	0.00
09/24/2003	Billing	BILLING	3.38	0.00	0.00	0.00	0.00	0.00	338.00	0.00	0.00
08/26/2003	Billing	BILLING	16.91	0.00	0.00	0.00	0.00	0.00	1,691.00	0.00	0.00
08/01/2003	Payment	PAYMENT	-134.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/23/2003	Billing	BILLING	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/08/2003	Billing	BILLING	365.85	0.00	365.85	0.00	0.00	0.00	0.00	0.00	0.00
06/23/2003	Billing	BILLING	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Account Number: 012339-000

Reference Number: 1405901

Tran Date	Tran Type	Description	Amount	WATER	SEWER	DEMAND	VACANT	MISC	PEN	GUILD	WC
05/29/2003	Billing	BILLING	3.69	0.00	0.00	0.00	0.00	0.00	369.00	0.00	0.00
04/28/2003	Payment	PAYMENT	-1,242.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/25/2003	Billing	BILLING	29.25	0.00	0.00	0.00	0.00	0.00	2,925.00	0.00	0.00
04/12/2003	Billing	BILLING	134.00	0.00	0.00	134.00	0.00	0.00	0.00	0.00	0.00
03/10/2003	Billing	BILLING	585.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/07/2003	Payment	PAYMENT	-239.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/27/2003	Billing	BILLING	1.18	0.00	0.00	0.00	0.00	0.00	118.00	0.00	0.00
12/31/2002	Billing	BILLING	5.93	0.00	0.00	0.00	0.00	0.00	593.00	0.00	0.00
11/13/2002	Billing	BILLING	118.56	118.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/23/2002	Payment	PAYMENT	-38.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/23/2002	Billing	BILLING	0.97	0.00	0.00	0.00	0.00	0.00	97.00	0.00	0.00
07/05/2002	Billing	BILLING	19.32	19.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/02/2002	Payment	PAYMENT	-127.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/15/2002	Payment	PAYMENT	-35.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/03/2002	Billing	BILLING	127.57	0.00	0.00	127.57	0.00	0.00	0.00	0.00	0.00
03/07/2002	Billing	BILLING	17.77	0.00	17.77	0.00	0.00	0.00	0.00	0.00	0.00

Description	Read Date	Reading	Consumption
Active			
Route-Sequence-Serial:	310-011800-19092890		
	10/1/2021	1,501,100.0	29,400.00
	6/1/2021	1,471,700.0	28,800.00
	2/1/2021	1,442,900.0	36,400.00
	10/1/2020	1,406,500.0	31,700.00
	6/1/2020	1,374,800.0	31,900.00
	2/3/2020	1,342,900.0	39,700.00
	10/3/2019	1,303,200.0	37,400.00
	6/3/2019	1,265,800.0	41,400.00
	2/1/2019	1,224,400.0	45,900.00
	10/2/2018	1,178,500.0	45,600.00
	6/1/2018	1,132,900.0	46,200.00
	2/1/2018	1,086,700.0	45,500.00
	10/3/2017	1,041,200.0	46,500.00
	6/1/2017	994,700.00	58,300.00

Account Number: 012339-000

Reference Number: 1405901

Tran Date	Tran Type	Description	Amount	WATER	SEWER	DEMAND	VACANT	MISC	PEN	GUILD	WC
						2/1/2017	936,400.00	51,000.00			
						10/3/2016	885,400.00	50,700.00			
						6/1/2016	834,700.00	50,100.00			
						2/1/2016	784,600.00	55,700.00			
						10/1/2015	728,900.00	56,400.00			
						6/1/2015	672,500.00	57,500.00			
						2/3/2015	615,000.00	55,200.00			
						10/2/2014	559,800.00	58,100.00			
						6/2/2014	501,700.00	53,400.00			
						2/3/2014	448,300.00	51,800.00			
						10/1/2013	396,500.00	47,200.00			
						6/1/2013	349,300.00	47,100.00			
						2/1/2013	302,200.00	51,800.00			
						10/1/2012	250,400.00	59,500.00			
						6/1/2012	190,900.00	51,600.00			
						2/1/2012	139,300.00	48,000.00			
						10/3/2011	91,300.00	41,800.00			
						6/20/2011	49,500.00	51,400.00			
		NEW ORION				2/3/2011	0.00	4,700.00			
						10/7/2010	109,200.00	5,000.00			
						6/7/2010	104,200.00	5,100.00			
						2/1/2010	99,100.00	5,000.00			
						10/1/2009	94,100.00	5,700.00			
						6/1/2009	88,400.00	5,100.00			
						2/3/2009	83,300.00	5,100.00			
						10/6/2008	78,200.00	4,800.00			
						6/9/2008	73,400.00	5,100.00			
						2/20/2008	68,300.00	5,200.00			
						10/31/2007	63,100.00	6,500.00			
						6/28/2007	56,600.00	5,800.00			
						2/5/2007	50,800.00	4,400.00			
		Converted Read				10/16/2006	46,400.00	6,500.00			
		Converted Read				6/6/2006	39,900.00	5,700.00			
		Converted Read				2/6/2006	34,200.00	5,400.00			
		Converted Read				10/13/2005	28,800.00	6,600.00			
		Converted Read				6/7/2005	22,200.00	4,200.00			
		Converted Read				2/28/2005	18,000.00	5,600.00			
		Converted Read				10/21/2004	12,400.00	5,100.00			
		Converted Read				6/30/2004	7,300.00	7,300.00			
		Converted Read				2/9/2004	87,400.00	19,400.00			

APPENDIX 2

HYDRANT FLOW TEST



CITY OF ALBANY
DEPARTMENT OF WATER & WATER SUPPLY
10 NORTH ENTERPRISE DRIVE
ALBANY, NEW YORK 12204
TELEPHONE (518) 434-5300
FAX (518) 434-5332

KATHY M. SHEEHAN
MAYOR

JOSEPH E. COFFEY, JR., P.E.
COMMISSIONER

October 20, 2021

Architecture+
297 River Street
Troy, NY 12180

Attn: Felix J. Lomonaco AIA

Re: Fire Flow Test
271 Central Avenue

Dear Mr. Lomonaco,

The results of the fire flow test conducted on October 18, 2021:

Flow Hydrant 58764
Nozzle Size: 2.5 inches
Pitot Pressure: 38 psi
Flow: 1020 gpm

Residual Hydrant 58766
Static Pressure: 63 psi
Residual Pressure: 58 psi

Fire Flow Available at 20 psi: 3260 gpm

Attached is a map showing the hydrant locations.

Sincerely,

William D. Simcoe, P.E.
Deputy Commissioner

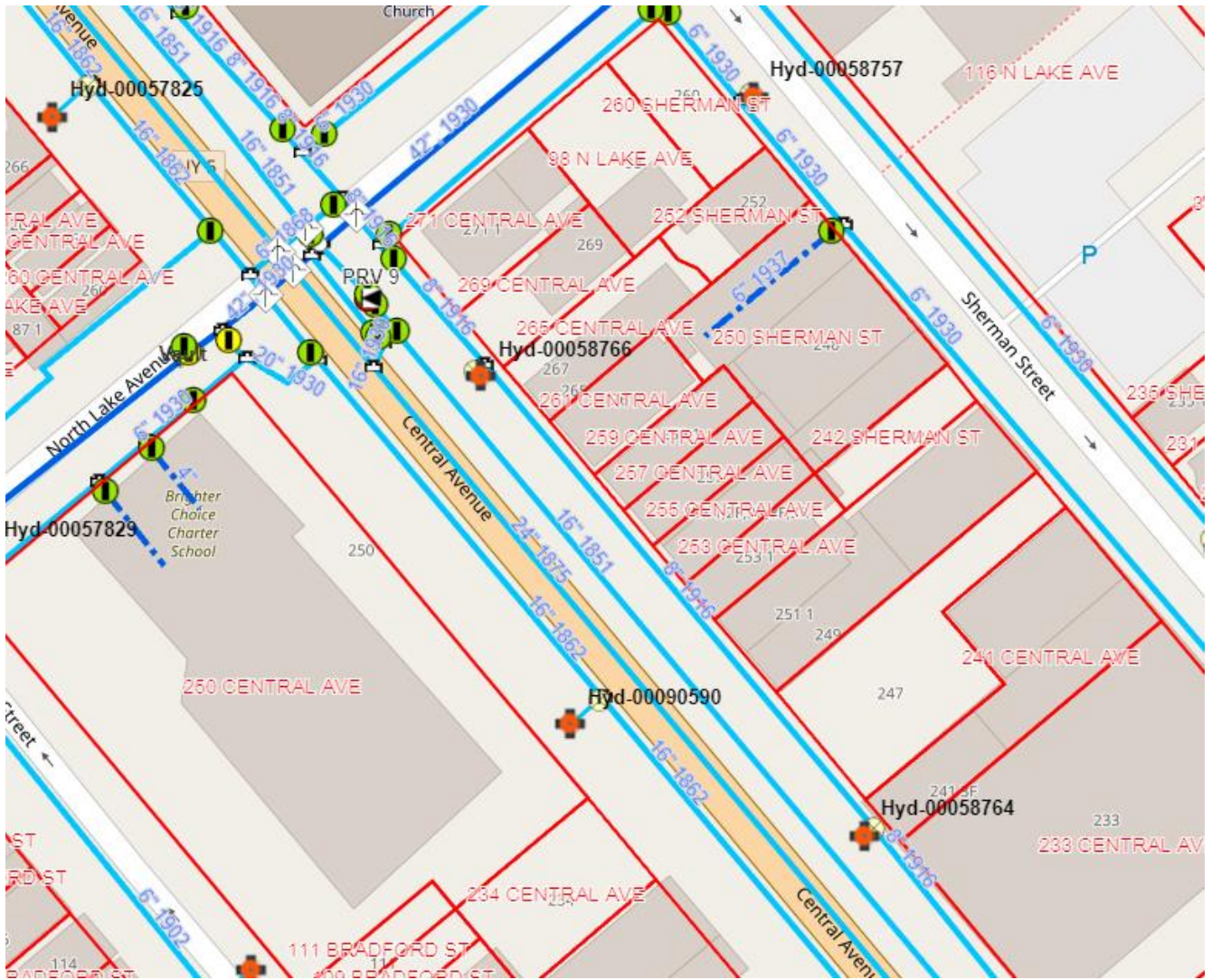


Figure 1 Fire Flow Test for 271 Central