City of Asheville
Water Engineering Division

P.O. Box 7148
Asheville, NC 28801

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LETTER OF COMMITMENT FOR WATER AVAILABILITY

City of Asheville Water Resources
Post Office Box 7148
Asheville, North Carolina 28802

Issue Date: May 1, 2019

Applicant: Advantage Civil Engineering
34 Big Bear Trail
Asheville, NC 28805

Purpose: Jettie Rae's (restaurant)

Location: 114 Riverside Drive

PIN #: 9638-88-8040

ENGINEERING PROJECT #: WPFY-18-19-091

Commitment Provided:	Maximum Gallons Per Minute:	80
	Maximum Gallons Per Day:	10,000
	Method of Metering to be Determined	

Customer's Next Step:

Submit water system extension plans and supporting documentation to the Engineering Division of the Water Resources Department

Requirement to Issue Certificate of Occupancy:

Accepted water system extension and release of water meter.

Fire Flow Needed by Applicant:

500 gpm (stated on application)

Fire Flow Available at Nearest Hydrant During Review of Application:

Static Pressure: 209 psi Residual Pressure: 195 psi Flow: 2120 gpm

Water Pressure Fluctuation

The conducted flow test represents only a momentary sample of the water pressure and flow available at the project location. The Applicant is hereby advised that water pressure fluctuations are normal within the City of Asheville water system. The magnitude of these fluctuations is affected by location, time of year and

time of day. Water System pressures can also be affected by fire fighting activities and routine or emergency Water System operations. The Applicant / Customer is expected to install control devices as required to protect and/or enhance their private plumbing systems from these normal pressure fluctuations.

Effective Period of Commitment:

This Letter of Commitment permits the Applicant to extend the public Water System as defined herein provided that engineering plans are approved with the issuance of an Authorization to Construct by the Water Resources Department by May 1, 2020 and provided issuance of Certificate of Acceptance of construction by the Water Resources Department occurs within one year following the date of Authorization to Construct.

Approval of this Letter of Commitment is conditioned as follows and failure to comply with the following conditions shall be sufficient grounds for the City of Asheville to deny the requested water service.

Special Conditions

1. The schematic drawing that was submitted indicates a single domestic meter and a dedicated fire line. This project will be required to have a single master meter for a combined fire & domestic supply.

Extension of Public Water System:

1. **All fireline connections to our water system constitute and extension of our water system.** The nearest location of the existing Water System will be an existing 16-inch waterline on the east side of Riverside Dr at the subject property. The Applicant is required to extend the public Water System from the point of connection to serve the subject project. This extension of the Water System must be designed by a North Carolina licensed professional engineer retained by the Applicant and constructed by a North Carolina licensed utility contractor retained by the Applicant in accordance with Water Resources Design and Construction Manual. Questions regarding the process for extending the Water System may be directed to the Water Resources Department at 828-232-4589.

2. The extension of the Water System shall be designed such that there is a minimum of 40 psi at each meter during periods of peak water demand and 20 psi during a fire flow event.

3. Prior to the expiration date of this Letter, the Applicant shall submit engineering plans under the seal of a registered professional engineer to the City of Asheville Water Resources Department along with an Application for Approval of Plans. The Applicant's engineer shall also prepare calculations to support how the sizing of the water mains and facilities were determined in order to exceed the minimum flow and pressure conditions stated in this Letter.

4. The City of Asheville Water System Management Plan (WSMP.10-01179) and the Engineer's Report No. 00-00139, both of which are on file with the North Carolina Public Water Supply Section, have been determined to be applicable to the Water System extension proposed for this project and may be referenced when submitting the application for Approval of Plans.

5. The approved method of extending the Water System at the point of connection to the existing system will be determined during plan review. If a tap is required, the Applicant's utility contractor shall furnish all material, including the tapping sleeve and valve, and shall prepare the trench for this tap, but only personnel of the City Water Maintenance Division may furnish the tapping machine and complete the tap installation.

The Applicant will be charged the current tap fee for the completion of the tap by the Water Maintenance Division, which shall be paid by the time of the PreConstruction Conference.

Water Service Connection:

1. Based on the information provided by the Applicant, the City of Asheville reserves a commitment to the Applicant to provide 80 gallons per minute / 10,000 gallons per day for the proposed development of the property described above.

2. Application for Service Connections should be made at least 30 days but not more than 180 days in advance of the date activation of water service is desired.

3 The Applicant shall install a backflow device downstream of the domestic water meter and on any proposed fire service connection. Inspection and approval of the backflow device is required before a water meter can be activated and will be inspected by the Cross-Connection Control Division. For specific information regarding the type and location of this required backflow preventer, contact our Cross-Connection Control Division at 259-5977. **The meter will be installed following installation and inspection of the required backflow preventer.**

4. This Letter does not constitute a standing commitment of any specified flow for fire protection; however, water capacity available in the Water System at time of need is available for fire protection. The Applicant specified a fire flow requirement of 500 gallons per minute at a residual pressure of 20 psi, and a recent fire hydrant flow test conducted by the Water Resources Department (copy attached) concluded that the available flow in the Water System at the time of the test exceeded this requirement. When the available flow in the Water System does not meet the Applicant's fire flow requirement, it is the Applicant's responsibility to reduce the fire flow requirement through changes in the design of the proposed building(s) or to extend the Water System to meet the fire flow needed

Upon your review of this Letter of Commitment, please do not hesitate to contact the Water Resources Department at 828-232-4589 if you have any questions or need additional assistance.

Prepared by:

Mark Letterman
Water Engineering

Approved by:

William C. Pierce, PE
Water Engineering Manager

cc: David Melton, Director
Audran Stephens, Assistant Director
Chad Pierce, PE
Tim Burdine, W/M Supt.
Project File

ASHEVILLE

City of Asheville Hydrant Flow Test Information

Date of Flow: 4/30/19
Time of Test: 9 AM

General Flow Area: RAD
Reason for Flowing: LOC

Project Name: Jettie Raes WPFY 18-19-091
Distance to Project Site: @ nearest hydrants

Contact: Mark Letterman
Project Address:Refer to Map

Hydrant#: 72366
Elevation: 1977
Address: under Haywood Rd underpass

Hydrant Make: Watermaster
Hydrant Model: 2017
Hydrant Valve: Yes

Static (in PSI): 209
Residual (in PSI): 195

Hydrant#: 72356
Elevation: 1974
Address: 99 Riverside Dr

Hydrant Make: Watermaster
Hydrant Model: 2017
Hydrant Valve: Yes

Flow (in PSI): 160
Flow (in GPM): 2120

Verified Line Size and Material:16" Cast Iron Pipe
Location of Water Line:Refer to Map

Remarks:original flow hydrant was not there

See Map of Test Area & Hydrant Locations

Need for Maintenance Observed, explain: (Paint, Grease, Clearing for Access or Replacing)

Test Conducted by: Kevin Houle

Checked by:

This test is an indication of the water flow available at the time of the test. It can be useful for planning, but pressures may vary depending on water system conditions and system demands.

CRAVEN ST
RIVERSIDE DR
PAYNES WAY
HAYWOOD RD
ROBERTS ST
Flow
Static
PR191
DEAD001
70463
70464
75125
70301
70309
72356
70310
77377
72366
78091
78092
70077
Legend
Pipe Diameter
1/2" to 1 1/2"
2"; 2 1/2"
3"; 4"
6"
8"
10"
12"; 14"
16"
18"; 20"
24"
30"
36"
Hydrant
Valve
Meter
N
W
E
S
1 inch = 200 feet