

## PLANNING / DESIGN ASSOCIATES

RESIDENTIAL / COMMERCIAL / RECREATIONAL DESIGN SERVICES

- Architectural Designers
- Consulting engineers
- Site Planners
- Landscape Architects
- Development Consultants

9 Alexander Drive, Windham, ME p/f 207-892-2640 Email: [plandesign@live.com](mailto:plandesign@live.com)

NOVEMBER 15, 2016

PROJECT: PLAZA PROJECT PHASE 1

AMANDA LESSARD

PLANNING DEPT.

TOWN OF WINDHAM, ME

Amanda,

These are the responses to the issues raised by Bill Haskell:

See attached letter from Jim Manzer at Sevee Maher Engineers

See attached Ability to serve Letter from Portland Water District

Call me if you need further information.

Sincerely,

Fred Panico, Project Manager

CC.

MARTIN LIPPMAN

SEVEE MAHER ENGINEERS

FRICK ASSOCIATES

MACLEOD ENGINEERS

SURVEY INC.

KEN GRONDIN

November 15, 2016

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Heather McNally, Code Enforcement Director  
Town of Windham  
8 School Road  
Windham, ME 04062

Subject: Response to Town Review Comments (Will Haskell, P.E.)  
The Plaza – Phase 1, 881 Roosevelt Trail, Windham, Maine

Dear Ms. McNally:

This letter is in response to an email received from Fred Panico Monday, November 14<sup>th</sup> concerning the Apple Annie's Enterprises, Inc. Site Plan recently revised per comments from Will Haskell, P.E. of Gorrill-Palmer on behalf of the Town.

To facilitate your review, we have structured our reply in comment – **response** format.

**EMAIL FROM FRED PANICO DATED NOVEMBER 14, 2016**

1. The Boulder retaining wall has been added to the rear of the project. Based on grades it is not clear if it was designed by a professional engineer. It can be part of the building permit process.

**The boulder retaining wall is a standard design our firm has utilized on many projects. We agree, details can be addressed as part of the building permit process. The Landscape Architect may utilize a stepped wall so that the grade remains the same near the property line but the vertical face of the walls will be not as high or as steep.**

2. Check for grading over the water main at the end of the driveway.

**The proposed grade elevation (206) over the proposed water line extension at the end of the driveway (in a grassed area at the northeast corner of the proposed building) is about the same as the existing grade of the gravel over the existing waterline near the road. If any spots of concern are encountered during construction they can be remedied with extruded polystyrene rigid foam insulation.**

3. It appears that the land disturbance at the rear of the property exceeds 1-acre. Does a Maine DEP construction permit need to be obtained?

**Yes. The Owner and Contractor will have to complete the attached 'Notice of Intent to Comply with Maine Construction General Permit.' Mr. Panico, the Owner's Representative, has been informed of this requirement.**

Please call with any questions, or if preferred, I could meet with you to discuss our comments.

Sincerely,

SEVEE & MAHER ENGINEERS, INC.

James C. Manzer, P.E., PTOE  
Project Engineer



## Portland Water District

FROM SEBAGO LAKE TO CASCO BAY

November 15, 2016

Martin Lippman  
71 Stuart Shores Rd  
Standish, ME 04084

Re: 881-885 Roosevelt Trail, WI  
Ability to Serve with PWD Water

Dear Mr. Lippman:

The Portland Water District has received your request for an Ability to Serve Determination for the noted site submitted on October 25, 2016. Based on the information provided, we can confirm that the District will be able to serve the proposed project as further described in this letter. **Please note that this letter does not constitute approval of this project from the District. Review and approval of final plans is required.**

### Conditions of Service

The following conditions of service apply:

- The existing 8-inch service to the site can be used in the following two configurations:
  - A domestic service tapped off from the 8-inch fire line with separate control valves located in the public right of way. Domestic meter located in a meter vault located on private property within 10-20 feet of the property line on Roosevelt Trail.
  - An 8" combined fireline service in a fireline meter vault located on private property within 10-20 feet of the property line on Roosevelt Trail.
- The existing 1" service to the site must be terminated by shutting the corporation valve and cutting the pipe from the main.
- Further engineering review will need to take place to ensure proper development of the site.
- Water District approval of water infrastructure plans will be required for the project prior to construction. As your project progresses, we advise that you submit any preliminary design plans to MEANS for review of the water main and water service line configuration. We will work with you to ensure that the design meets our current standards.
- Following final plan approval the owner or contractor will need to make an appointment to come in and complete a service application form and pay the necessary fees prior to construction.



### Existing Site Service

According to District records, the project site does currently have existing water service. An 8-inch diameter ductile iron water service line provides water service to this site. Please refer to the "Conditions of Service" section of this letter for requirements related to the use of this service.

### Water System Characteristics

According to District records, there is an 12-inch diameter ductile iron water main in Roosevelt Trail and a public fire hydrant located 175 feet from the site. The most recent static pressure reading was 84 psi on February 4, 2016.

### Public Fire Protection

The installation of new public hydrants to be accepted into the District water system will most likely not be required. It is your responsibility to contact the Windham Fire Department to ensure that this project is adequately served by existing and/or proposed hydrants.

### Domestic Water Needs

The data noted above indicates there should be adequate pressure and volume of water to serve the domestic water needs of your proposed project. Based on the high water pressure in this area, we recommend that you consider the installation of pressure reducing devices that comply with state plumbing codes.

### Private Fire Protection Water Needs

You have indicated that this project will require water service to provide private fire protection to the site. Please note that the District does not guarantee any quantity of water or pressure through a fire protection service. Please share these results with your sprinkler system designer so that they can design the fire protection system to best fit the noted conditions. If the data is out of date or insufficient for their needs, please contact MEANS to request a hydrant flow test and we will work with you to get more complete data.

Should you disagree with this determination, you may request a review by the District's Internal Review Team. Your request for review must be in writing and state the reason for your disagreement with the determination. The request must be sent to [MEANS@PWD.org](mailto:MEANS@PWD.org) or mailed to 225 Douglass Street, Portland Maine, 04104 c/o MEANS. The Internal Review Team will undertake review as requested within 2 weeks of receipt of a request for review.

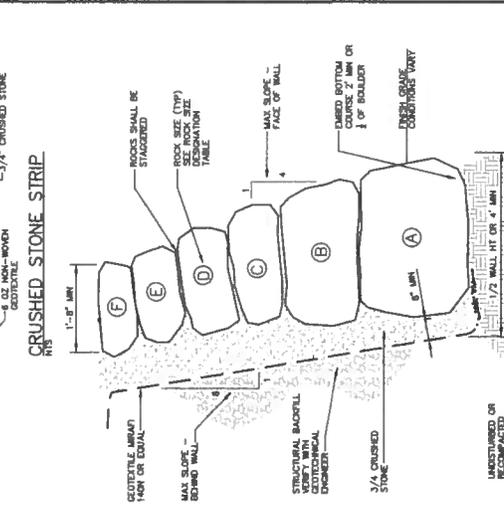
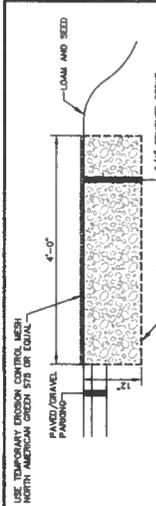
If the District can be of further assistance in this matter, please let us know.

Sincerely,  
Portland Water District



Gordon S. Johnson, P.E.  
Engineering Services Manager





ROCK TYPE	ROCK WEIGHT DIMENSION	AVERAGE DIMENSION
1	200-400 LBS.	1'-0" TO 2'-0"
2	400-800 LBS.	2'-0" TO 3'-0"
3	800-1200 LBS.	3'-0" TO 4'-0"
4	1200-2000 LBS.	4'-0" TO 6'-0"

ROCK HEIGHT SHALL BE APPROX. 1/2 THE LENGTH

ROCK TYPE	ROCK SIZE DESIGNATION	ROCK SIZE DESIGNATION
0	0-1/2"	0
1	1/2-1"	1
2	1-1/2-2"	2
3	2-1/2-3"	3
4	3-1/2-4"	4
5	4-1/2-6"	5
6	6-1/2-8"	6
7	8-1/2-12"	7
8	12-18"	8
9	18-24"	9
10	24-36"	10
11	36-48"	11
12	48-60"	12
13	60-72"	13
14	72-84"	14
15	84-96"	15
16	96-108"	16
17	108-120"	17
18	120-144"	18
19	144-168"	19
20	168-192"	20
21	192-216"	21
22	216-240"	22
23	240-270"	23
24	270-300"	24
25	300-360"	25
26	360-420"	26
27	420-480"	27
28	480-540"	28
29	540-600"	29
30	600-720"	30
31	720-840"	31
32	840-960"	32
33	960-1080"	33
34	1080-1200"	34
35	1200-1440"	35
36	1440-1680"	36
37	1680-1920"	37
38	1920-2160"	38
39	2160-2400"	39
40	2400-2700"	40
41	2700-3000"	41
42	3000-3600"	42
43	3600-4200"	43
44	4200-4800"	44
45	4800-5400"	45
46	5400-6000"	46
47	6000-7200"	47
48	7200-8400"	48
49	8400-9600"	49
50	9600-10800"	50
51	10800-12000"	51
52	12000-14400"	52
53	14400-16800"	53
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55	19200-21600"	55
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57	24000-27000"	57
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