



AMBIT ENGINEERING, INC. CIVIL ENGINEERS AND LAND SURVEYORS
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25 February 2019

Dexter Legg, Chair
City of Portsmouth Planning Board
1 Junkins Avenue
Portsmouth, NH 03801

**Re: City of Portsmouth Application for Conditional Use Permit
Tax Map 109, Lot 2
43 Whidden Street
Portsmouth, New Hampshire**

Dear Mr. Legg:

This letter transmits a City of Portsmouth Conditional Use Permit Application request to permit a total of 196 square feet of disturbance within the 100' City of Portsmouth Wetland Buffer for the construction of a pervious paver driveway.

The property currently contains a single family residential structure, a storage shed, and a pervious paver patio.

Attached to this application please find an Inspection & Maintenance Plan for the proposed stormwater structure, and a plan set depicting existing and proposed conditions.

According to the City of Portsmouth Zoning Ordinance, *Article 10.1017.50 Criteria for Approval*, the proposal shall comply with the following criteria:

1. The land is reasonably suited to the use, activity or alteration.

The proposal is to construct a pervious paver driveway on the lot, partially located within the 100' City of Portsmouth Wetland Buffer. Given the configuration of the lot, and the adjacent wetland resource (located off the lot), and the area where the driveway is proposed consists of maintained lawn, the land is reasonably suited to the use, activity, or alteration. The owners currently use the area as a driveway and for parking of their vehicles, however this area does not contain a proper driveway surface. In October 2016 the City of Portsmouth approved a driveway permit application for the proposed location.

2. There is no alternative location outside of the wetland buffer that is feasible and reasonable for the proposed use, activity or alteration.

The proposal greatly utilizes areas outside of 100' City of Portsmouth Wetland Buffer for the driveway. There is no location entirely outside the buffer area that is feasible for the proposed driveway.

3. There will be no adverse impact on the wetland functional values of the site or surrounding properties.

The proposal will not impact the existing wetland resource located adjacent to the site and its current functions and values. The proposed pervious paver driveway will improve stormwater treatment and infiltration on site, a function that does not currently exist. The project maintains the existing impervious surface on the lot (43.8%). Given the maintenance of impervious surface coverage on the lot, the addition of the stormwater treatment value associated with the pervious paver driveway, it is our belief that the above project will improve water quality leaving the site, and therefore will have no adverse impact on the wetland functional values and the surrounding properties.

4. Alteration of the natural vegetative state or managed woodland will occur only to the extent necessary to achieve construction goals.

The areas within the 100' City of Portsmouth Wetland Buffer that are proposed to be impacted would be characterized as maintained lawn. The project does not propose to alter any natural vegetative state or managed woodland.

5. The proposal is the alternative with the least adverse impact to areas and environments under the jurisdiction of this Section.

The project represents the alternative with the least adverse impacts to areas and environments while allowing reasonable use of the property. The proposal includes locating a majority of the pervious paver driveway outside of the wetland buffer.

The project maintains the amount of impervious surface on the lot, and the driveway includes stormwater treatment value in the post-construction condition, a function that does not currently exist, resulting in the least impacting alternative while allowing reasonable use of the property.

6. Any area within the vegetated buffer strip will be returned to a natural state to the extent feasible.

The project proposes no alterations within the vegetated buffer strip as the vegetated buffer strip does not occur on the subject lot.

Please contact me if you have any questions or concerns regarding this application.

Respectfully submitted,



Steven D. Riker
NH Certified Wetland Scientist/Environmental Permitting Specialist
Ambit Engineering, Inc.

Cc: Thomas L. & Anne P. Taylor-Owners

25 February, 2019

To Whom It May Concern

RE: New Hampshire Department of Environmental Services Application and City of Portsmouth Conditional Use Permit Application for residential site improvements for Thomas L. & Ann P. Taylor, 43 Whidden Street, Portsmouth, NH.

This letter is to inform the New Hampshire Department of Environmental Services and the City of Portsmouth, in accordance with State Law that Ambit Engineering, Inc. is authorized to obtain approvals in regards to the above referenced property.

Please feel free to call me if there is any question regarding this authorization.

Sincerely,

A handwritten signature in black ink, appearing to read "T L & A P Taylor". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Thomas L. & Ann P. Taylor
43 Whidden Street
Portsmouth, NH 03801

STORMWATER MANAGEMENT INSPECTION & MAINTENANCE PLAN

FOR

**Thomas L. & Anne P. Taylor
PROPERTY LOCATED AT
43 Whidden Street, Portsmouth, NH
February 25, 2019**

Introduction

The intent of this plan is to provide Thomas L. Anne P. Taylor, owners of property located at 43 Whidden Street, Portsmouth, NH, with a list of procedures that cover the inspection and maintenance requirements of the pervious paver driveway to be constructed on the site.

The following inspection and maintenance program is necessary to keep the pervious paver driveway functioning properly. These measures will also help minimize potential environmental impacts. By following the enclosed procedures, Thomas L. Anne P. Taylor will be able to maintain the functional design of the pervious paver driveway and maximize its ability to remove sediment and other contaminants from site generated stormwater runoff.

Stormwater Management System Components

The Stormwater Management System design component includes the pervious paver driveway.

Since a portion of the construction is within the City of Portsmouth's 100 foot wetland buffer, the proposed pervious paver driveway will provide stormwater treatment for runoff on the site.

The Pervious Paver Driveway will capture runoff and provide percolation into the soil which will improve stormwater quality leaving the site and entering the adjacent wetland resource.

Inspection & Maintenance Checklist/Log

The following pages contain maintenance specifications, a Stormwater Management System Inspection & Maintenance Checklist, and a blank copy of the Stormwater Management System Inspection & Maintenance Log. The forms are provided to Thomas L. Anne P. Taylor, and should be transferred to future homeowners and will serve as a guideline for performing the inspection

and maintenance of the Stormwater Management System. This is a guideline and should be periodically reviewed for conformance with current practice and standards.

Pervious Paver Driveway Design

The intent of the pervious paver surface is to provide for storage and percolation of the stormwater that falls upon the driveway surface. The base (gravel, 15” depth) allows the stormwater to move through the pavement section where it is stored as it percolates into the surrounding subsoil.

Porous Pavement Maintenance

In order to keep the pervious pavers functioning properly, it is important to keep the surface porous and unplugged by debris. After acceptance of the pervious pavers, perform the following inspections on a semi-annual basis:

Monitor for excessive or concentrated accumulations of debris, or excessive erosion. Remove debris as required.

Replace joint filler between pavers as needed. Ponding of water would indicate a buildup of organic material or debris within the paver joints, and the joint filler should be removed and replaced.

Repair any damages to original condition.

Stormwater Management System

Thomas L. Anne P. Taylor

Inspection & Maintenance Checklist

BMP/System Component	Minimum Inspection Frequency	Minimum Inspection Requirements	Maintenance/Cleanout Threshold
Porous Pavement	Semi-Annual	Inspect for debris or sediment accumulation Inspect for damage to original condition	Replace joint filler as needed Repair surface as needed

Stormwater Management System

Thomas L. Anne P. Taylor

BMP/System Component	Date Inspected	Inspector	Cleaning/Repair Needed <i>(List Items/Comments)</i>	Date of Cleaning/Repair	Performed By