

STAMSKI AND MCNARY, INC.

1000 Main Street
Acton, Massachusetts 01720
(978) 263-8585, FAX (978) 263-9883

PRINCIPALS

JOSEPH MARCH, P.E., P.L.S.
GEORGE DIMAKARAKOS, P.E.

ASSOCIATE

JONATHAN BOLLEN, P.L.S.

February 29, 2024

Town of Littleton
Planning Board
37 Shattuck Street
Littleton, MA 01460

Littleton Planning Board

MAR 04 2024

Re: 95 Taylor Street
Stormwater Permit Application for Strawberry Farms
Map U40, Parcel 8

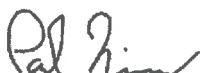
Received

Members of the Board,

On behalf of our client, Seal Harbor, LLC, our office has prepared the attached Stormwater Permit Application for the referenced project. In addition to the calculations provided in the Stormwater Management Report already included with the Application for Approval of a Definitive Plan submitted on February 26, 2024, our office has prepared supplementary calculations in accordance with Sections 4.1.3.3 and 4.1.3.5.2 of the Stormwater Management and Erosion Control Regulations. The Definitive Subdivision Plan for Strawberry Farms, dated February 20, 2024, includes the Erosion and Sediment Control Plan and Stormwater Management Plan required by the regulations. The Operation and Maintenance Plan is included at the end of the Stormwater Management Report.

We thank you for your attention to this matter. We look forward to discussing this matter at the public hearing. If you have any questions, please contact our office.

Respectfully,
Stamski and McNary, Inc,



Paul Kirchner, E.I.T.



George Dimakarakos, P.E.



**TOWN OF LITTLETON
STORMWATER PERMIT APPLICATION
Form SW**

Littleton Town Offices
37 Shattuck Street
Room 303
Littleton, MA 01460
(978) 540-2425

Please file 3 copies of this application form, application fee, and required application materials with Planning Board, in accordance with the requirements of chapter 38.

1. Property Information

Street Address 95 Taylor Street

Assessor's Map U-40 Parcel 8

Deed Reference (Registry Book and Page or Land Court Certificate of Title No.):

Book 11584, Page 164

2. Project Title or Brief Description: Strawberry Farms

Construction of a 3-lot subdivision.

3. Property Owners: List all property owners and their mailing addresses; for any owner that is an entity (e.g. LLC or corporation), provide the name and title of the individual authorized to sign for the entity.

Vilena Friberg

4. Applicant Information (Individual or Entity to Whom Permit Will Be Issued)

Name: Mark Gallagher

Company (if applicable): Seal Harbor Companies, LLC

Mailing Address: P.O. Box 2857

Tel: 781-424-7250 Fax: _____ E-Mail: mgsealharbor@gmail.com

5. Applicant's Authorized Representative to Planning Board (if any):

Name: Paul Kirchner

Company (if applicable): Stamski and McNary, Inc.

Mailing Address: 1000 Main Street; Acton, MA 01720

Tel: 978-263-8585x216 Fax: E-Mail: pfk@stamskiandmcnary.com

****Communications from the Planning Department will be sent to the e-mail addresses provided for the Applicant and the Applicant's Authorized Representative.****

6. Other Planning Board Permits or Approvals Required for This Project:

Definitive Subdivision

7. Applicant's Certification:

I hereby certify that the information contained in this application (including all required documents submitted herewith) is correct to the best of my knowledge. If I have identified an Authorized Representative above, I authorize that person to serve as my representative to the Planning Board.

Signature of Applicant: Mark D. Mapangwe Date: 31/12/24

Printed Name: _____

8. Property Owner's Authorization:

I am the owner of the parcel identified as Littleton Assessor's Map ___, Parcel ___, or the authorized signatory for the entity that is the owner of that parcel. I hereby attest that I have knowledge of, and give my consent to, this application. I authorize the Littleton Planning Board and its authorized agents to enter the aforementioned parcel to verify the information contained in this application and associated documents and, if a permit is granted, to inspect for compliance with permit conditions.

*Signature of Owner: Karen Feltus *Date: March 4/2024

* Printed Name: VIKINGA FRIBERG

Signature of Owner: _____ Date: _____

Printed Name: _____

9. Checklist of Materials to Be Submitted with Application:

X Erosion and Sediment Control Plan

X Stormwater Management Plan

X Operation and Maintenance Plan

X Certified List of Abutters

X Permit Application Fee

Phosphorus Load Reduction

Date: 2/29/2024
Project Location: 95 Taylor Street; Littleton, MA
Method: Infiltration Basin (8.27 in/hr)
Impervious Area: 0.22 acres 16384896 square inches
Pervious Area: 0.94 acres
Soil type of Receiving Pervious Area HSG A
Total Storage in Infiltration Basin 4,378 c.f. 7565184 cubic inches
BMP Capacity:
Depth of Runoff Treated from Impervious Area (inches) 0.5 inches

(taken from Table 3-17: Surface Infiltration (8.27 in/hr) BMP Performance Table in Appendix F of the MA MS4 General Permit)

BMP Subarea ID	Land Use Category	Cover Type	Area (acres)	P export rate (lb/acre/yr)
P-1A	Low Density Residential (LDR)	impervious	0.22	1.52

BMP Load 0.330869 lbs P/year

TP Reduction (lbs P/year) =	96% of 0.331 lbs P/year=	0.318 lbs P/year
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Phosphorus Load Reduction

Date: 2/29/2024
Project Location: 95 Taylor Street; Littleton, MA
Method: Roof Drywell A (8.27 in/hr)
Impervious Area: 0.08 acres 6048000 square inches
Pervious Area: 0.00 acres
Soil type of Receiving Pervious Area HSG A
Total Storage in RD-A 654 c.f. 1130112 cubic inches
BMP Capacity:
Depth of Runoff
Treated from Impervious Area (inches) 0.2 inches

(taken from Table 3-11: Infiltration Trench (8.27 in/hr) BMP Performance Table in Appendix F of the MA MS4 General Permit)

BMP Subarea ID	Land Use Category	Cover Type	Area (acres)	P export rate (lb/acre/yr)
RD-A	Low Density Residential (LDR)	impervious	0.08	1.52

BMP Load 0.12213 lbs P/year

TP Reduction (lbs P/year) =	75% of 0.122 lbs P/year=	0.092 lbs P/year
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Phosphorus Load Reduction

Date: 2/29/2024
Project Location: 95 Taylor Street; Littleton, MA
Method: Roof Drywell B (8.27 in/hr)
Impervious Area: 0.04 acres 3024000 square inches
Pervious Area: 0.00 acres
Soil type of Receiving Pervious Area HSG A
Total Storage in RD-B 299 c.f. 516672 cubic inches
BMP Capacity:
Depth of Runoff
Treated from Impervious Area (inches) 0.2 inches

(taken from Table 3-11: Infiltration Trench (8.27 in/hr) BMP Performance Table in Appendix F of the MA MS4 General Permit)

BMP Subarea ID	Land Use Category	Cover Type	Area (acres)	P export rate (lb/acre/yr)
RD-A	Low Density Residential (LDR)	impervious	0.04	1.52

BMP Load 0.061065 lbs P/year

TP Reduction (lbs P/year) =	75% of 0.061 lbs P/year=	0.046 lbs P/year
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Water Quality Volume Total

Job: **SM-7306**

Calculated by: PFK
Date: 2/29/2024

Required Recharge Volume

Total Impervious Area: 0.41 acres
17,882 s.f.

1.) Retain the volume equivalent to 1" runoff (4.1.3.5.2)

$$Rv = 17,882 \quad \text{s.f.} \times \frac{1}{12} = 1,490 \quad \text{c.f.}$$

Total Storage Provided

INFILTRATION BASIN	=	4,378 c.f.
Roof Drywell A	=	654
Roof Drywell B (4 proposed)	=	1,196
Total Volume Retained	=	6,228 c.f.

6,228 c.f. > **1,490** c.f. OK