

# PROJECT NARRATIVE

## 43 George Washington Blvd., Hingham, MA

### **Project Summary:**

The proposed activities consist of the construction of an in ground pool and spa, and rock and ledge removal, grading and ground restoration associated with the site work. The property, hereafter referred to as the site, is shown as Hingham Assessor Parcel 42-43 and is approximately 40,903 square feet (all upland). The site has 150 feet of frontage on George Washington Blvd. and abuts developed, residentially zoned property to the north, south and east. The site is shown on Plymouth County FIRM map; community-panel number 25023C0038J, dated July 17, 2012. All proposed work is located in Zone "X" which is not a special flood hazard zone.

The existing stormwater system is comprised of a grass depression and/or vegetative buffers along the southern portion of the property which captures runoff from the existing roof, patio and lawn areas. The system provides filtration and groundwater recharge, and slows and controls the volume of stormwater runoff.

### **Pre-Development Conditions:**

The property was developed in 2016 for a residential dwelling and presently contains a single family house, covered outdoor kitchen, stairs, patio, garage and related amenities. Currently, there is substantial ledge exposed at the surface or near the surface of the site of the proposed in ground pool and spa. The existing and proposed structures are outside the flood zone "AE".

Soil Information was obtained from Soil Conservation Service (SCS) Survey of Plymouth County, MA. The soil on the site is listed as HrC "Hollis-Rock Outcrop-Charlton Complex", 3 to 15 percent slopes. Refer to Figure 5 Soil Map. Exposed ledge is observable throughout the site.

### **Existing impervious material & structure to be removed:**

• Ledge and boulder removal	1,652 S.F.
• Patio	808 S.F.
• Stone Wall	<u>64 S.F.</u>
<b>TOTAL:</b>	<b>2,524 S.F.</b>

## **Post-Development Conditions:**

### **Proposed impervious structure to be constructed:**

- Pool 924 S.F.
- Spa 100 S.F.
- Stairs 42 S.F.
- Retaining Wall 52 S.F.

**TOTAL: 1,118 S.F**

In the post-development, the rate and volume of runoff will be reduced due to reduction in the impervious footprint as more than 50% of the proposed pool, spa and masonry stairs will replace the existing ledge outcrop and stone wall, and the installation of a pervious patio will replace the existing impervious patio. Therefore, the existing stormwater system, comprised of a grassed depression and vegetative buffers, is adequate to capture stormwater from the roof, pool, retaining wall and lawn areas and provide filtration and groundwater recharge, and slow and control the rate and volume of stormwater runoff.

The stormwater management system as described above is in compliance with DEP Stormwater Management Policy to the extent practicable.

## **Erosion and Sedimentation Control:**

The potential for temporary site impact due to erosion and migration of sediments will be mitigated by adherence to basic erosion control practices. These include:

1. Installation of erosion control barrier down gradient of proposed disturbance utilizing silt mulch sock as it provides a more stable erosion control line and will filter sediments more effectively.
2. Clearly define the limits of work on the plan and in the field in order to minimize the extent of soil disturbance.
3. Regrade, loam and seed exposed soil areas immediately following construction.