



- Legend:**
- Denotes edge of Wetland
 - △ Denotes wetland flag located
 - Denotes wetland area
 - 3 x 9 Denotes spot elevation
 - Denotes lighthouse light pedestal

Stormwater Runoff Contributions:
 Pre-development areas—
 Roof Area: 22,654 SF
 Concrete pvt: 15,751 SF
 Total: 38,225 SF

Post-development areas—
 Roof Area: 13,300 SF
 Concrete pvt: 24,660 SF
 Total: 37,960 SF

Reduction: 265 SF

DRAINAGE CALCULATIONS:

Design Storm Event:
 25 Year 1-Hour storm
 2.3 Inches (0.1917 Ft.)

Soil Permeability:
 15 Ft./Day
 0.625 Ft./Hr.

New Slab Runoff:
 11,800 Sq.Ft. x 0.1917 Ft./hr. = 2,262 Cu.Ft./hr. (Runoff)

Slab Leaching Area Provided: 3,722 SF
 3,722 SF x 0.625 Ft./Hr. = 2,326 Cu.Ft./hr. (Infiltration)

Additional Site Drainage Improvements:
 New Vegetated swale area: 3,415 SF
 Additional sandy/gravel drainage: 1,559 SF

NOTES:

1. This plan is intended for the purposes of design and location of a storm-water drainage system to manage site runoff.
2. Construction of the drainage system shall not occur during periods of rain or snow to avoid siltation.
3. Gravel used for the Drainage structures shall be 1" - 2" washed stone unless otherwise specified.
4. Drainage area has been designed for sandy subsoil with a permeability of 15 ft per day or less. If soil conditions found during excavation differ from sandy material, the design engineer shall be notified prior to proceeding with the installation.
5. No heavy machinery with a ground pressure greater than 10 psi shall operate above or within a drainage leaching area.

Site Stormwater Drainage Improvement Plan
 Tisbury, Mass.

Prepared for
SHM Vineyard Haven, LLC
 Scale 1" = 20' October 5, 2022

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