

December 2017

STORMWATER MANAGEMENT SYSTEM  
OPERATION AND MAINTENANCE PLAN  
LONG TERM POLLUTION PREVENTION PLAN

Natick Dog Park  
Natick, MA

12/2017

PREPARED FOR:

Town of Natick  
13 East Central Street  
Natick, Massachusetts

RESPONSIBILITY:

Owner, or assigns will be responsible for implementation of the Operation and Maintenance Plan for the stormwater management system and Long-Term Pollution Prevention Plan for the Natick Dog Park and for any corrective action required.

SITE CONDITIONS:

The stormwater management system for the site includes porous pavers, closed drainage system, infiltration basins.

INFILTRATION BASIN(S) AND/OR DETENTION BASIN(S):

1. The basin(s) shall be inspected for accumulated sediment at least twice per year and sediment shall be removed when depth is 12 inches or at least once every 10 years.
2. Basins shall be inspected at least twice per year and immediately following large storm events to determine if the basin is functioning as intended. Inspections should be conducted during wet weather to determine if the basin is meeting the targeted detention times (24-hour average detention time). The basins shall be checked for slope integrity, soil moisture, vegetative health, soil stability, soil compaction, soil erosion, ponding, and sedimentation. Any necessary repairs shall be made immediately.
3. During the first few months following construction, the basin shall be inspected to ensure that the proposed vegetation becomes adequately established.
4. At least twice during the growing season, the basin, side slopes, and embankments shall be mowed and accumulated trash and debris removed.
5. To maintain the dense growth of vegetation, periodic reseeding shall be performed.

6. Basins shall not be used for snow removal and yard waste disposal.
7. Outlet control structures, headwalls, and riprap aprons or riprap stilling basins shall be checked a minimum of once per year for evidence of clogging or flow restrictions and cleared as necessary. Any debris or accumulated sediments which could hinder flows shall be removed and disposed.

#### LAWN/LANDSCAPE MAINTENANCE:

1. Perform a Spring Clean-up of the entire property and perimeter to include lawn areas and plant beds. Typically, this activity is conducted in the months of March/ April.
  - a. Remove and dispose of leaves, branches, debris, and litter off site in environmentally approved manner.
  - b. All lawn areas to be thatched, then raked or blown to remove thatch.
  - c. All plant beds, walks and garden edges to be power edged.
2. All dead or dying plant material shall be replaced upon the completion of the Spring Clean Up.
3. Perform a Fall Clean-up of the entire property and perimeter to include lawn areas and plant beds. Typically, this activity is performed and all areas cleaned before the first snow fall.
  - a. Remove and dispose of dead or dying annual plantings, leaves, branches, pine cones, needles, acorns debris, and litter off site in environmentally approved manner.
  - b. Cut back perennials and ornamental grasses.
4. Mulching
  - a. Turning of existing mulch beds and adding new mulch to be performed in the spring, during/ after spring clean-up. Care shall be taken not to uproot any dormant perennials or ornamental grasses.
  - b. Add new mulch to bed areas. Care shall be taken not to bury any dormant perennials or ornamental grasses.
  - c. New mulch to be dark brown shredded pine bark applied after spring clean-up.
5. Mowings
  - a. Lawn-turf control includes all maintenance required to produce green and healthy grass, and include on average 30 weekly mowings for lawn areas within the limits of the development.
  - b. The use of mulching equipment is desired to allow clippings to add nutrients back to the soil. Clippings to be bagged in areas adjacent to the sidewalks and porous pavers. Mulched clippings shall not be bagged in other areas unless otherwise approved.
  - c. Remove and dispose of any clippings or maintenance debris off site in an environmentally approved manner.
  - d. Sidewalks and the parking lot shall be blown off following mowing to remove grass clippings.

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6. Limit lawn watering: chose drought-tolerant landscaping and grasses, and use mulch and compost to retain moisture.
7. Under no circumstance shall the stormwater management system be used for yard waste and landscape debris.

#### DEICING:

1. The use and loading rates for application of deicing salts should be limited to the minimum required to maintain safe vehicular and pedestrian travel.
2. Alternative materials such as sand or gravel, calcium chloride, and calcium magnesium acetate should be considered in areas adjacent stormwater management facilities and resource areas.
3. No deicing materials shall be stored anywhere on site.

#### SNOW MANAGEMENT:

1. Snow shall be stockpiled in pervious areas as indicated on the plans where it can slowly infiltrate. Under no circumstance shall the stormwater management system be used for snow storage.
2. Avoid dumping/piling snow over catch basins or in drainage channels to prevent blockages and localized flooding of the drainage system.
3. The Owner shall be responsible to manage snow storage on-site and to ensure that snow is not stockpiled in the basins.
4. Snow beyond the capacity of the snow storage areas shown on the plans shall be removed from the site within 48 hours.
5. Sediments deposited from the snow storage areas shall be removed every spring.

#### SWEEPING OF PAVED SURFACES:

1. All paved surfaces on-site including driveways, walkways and parking areas both paved and porous pavers areas shall be swept at least once annually to remove accumulations of sand, silt, leaves, and other debris.
2. Sweeping should occur in March/April after snowmelt has occurred and thaw has begun. Sweepings shall be disposed of at an appropriate location away from resource areas (wetlands or waterways) and stormwater management facilities.

#### WOOD CHIP SURFACE:

1. The wood chip surface within the limits of the dog park shall be monitored every spring and fall to ensure there is a 3-4" depth of wood chips at all times.

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2. Existing wood chips shall remain in place and new wood chips shall be added to the surface as necessary.
3. Wood chips shall be delivered to the site via the maintenance drive and spread immediately upon delivery.

POROUS PAVERS:

1. No materials shall be stockpiled on the porous pavers.
2. Grass clippings and debris shall be blown, collected and removed from pavers after lawn areas have been mowed.
3. Monitor pavers for proper infiltration after large rain events.
4. Remove visible weeds and sediment from paver joints. Vacuum debris and replenish joints with specified aggregate as necessary.
5. See sweeping of paved surfaces sections above. Additional sweeping of porous pavers shall occur in the fall prior to the first snow fall.
6. Refer to manufacturer's maintenance guide for additional maintenance guidelines.

CRUSHED STONE FINES MAINTENANCE DRIVE:

1. The crushed stone surface within the limits of the maintenance drive shall be monitored every spring and fall to ensure there is a minimum 2 ½" depth of granite chip stone. Base material shall not be disturbed.
2. Additional stone shall be provided and compacted in place to ensure minimum depth as necessary.