



TOWN OF RAYNHAM

PLANNING BOARD

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Amended *

November 2019 - Amendments to Town of Raynham Planning Board Rules and Regulations Governing the Subdivision of Land in Raynham, MA Adopted July 1, 1955, Revised through October 1, 2015:

8.1 Storm Water Management.

General Provisions.

- Massachusetts Department of Environmental Protection Stormwater Handbook, latest edition. All Subdivision Applications, regardless of whether the project is subject to the Wetlands Protection Act or not, shall design the storm water management system in compliance with the goals and objectives of the DEP Stormwater Handbook to the greatest extent possible given the specific site constraints of each site. The Applicant shall submit a completed and endorsed Stormwater Checklist that indicates compliance to the greatest extent possible with the Stormwater Handbook's Ten (10) Stormwater Standards, as most recently amended. These apply to industrial, commercial, institutional and residential subdivision and roadway projects, including site preparation, construction, redevelopment, and on-going operation. The applicant shall also provide calculations indicating compliance with each standard. Refer to the DEP Stormwater Handbook and its referenced sources for specific application of these storm water management categories. (Amended November 2019)

The Applicant shall use the National Oceanic and Atmospheric Administration (NOAA) Atlas 14 storm events (24-hour, Type III) when designing storm water systems in the Town of Raynham. (Added November 2019)

8.4.1 Constructed Stormwater Wetlands (CSW)

Where site constraints preclude the use of the standard stormwater basin detail, a CSW may be used. *

- a. Constructed stormwater wetlands are designed stormwater management systems constructed in the water table that include native plants, engineered soils and structures to attract and retain birds, bats for nuisance insect control and provide plants for pollinators.
- b. The bottom of the CSW shall be designed to be in the water table.
- c. The CSW shall retain the one- (1-) inch storm and mitigate the rate for the 2-, 10- and 25-, 100-year storm events.

- d. There shall be at least two (2) test pits for the CSW by the Applicant's licensed soil evaluator to determine the water table and estimated seasonal high ground water (ESHGW) elevations within the proposed CSW. Additional test pits may be requested at the Board's discretion.
- e. The Applicant shall provide a memo to the Board indicating how, if any, changes are required to the CSW based on the soil test pits.
- f. The Applicant shall provide a plan for temporary dewatering during construction of the CSW where appropriate erosion control is used to prevent sedimentation of any resource areas. The Applicant shall follow dewatering guidelines under the EPA's Construction General Permit for Dewatering.
- g. The CSW shall have a particle separator sized for the water quality flow rate installed prior to discharge into the forebay. The particle separator shall be located for ease of access by the DPW without the use of specialized or tracked equipment.
- h. The CSW shall have a forebay with an overflow weir to the constructed stormwater wetland.
- i. The constructed stormwater wetland shall contain a permanent pool of water no deeper than three (3) feet.
- j. The constructed stormwater wetland shall also contain a variety of smaller cells where plunge pools and micro-pools with a meandering flow path are provided to settle out suspended solids.
- k. The Applicant shall use different zones for stormwater control and habitat. The use of high and low marshes is recommended.
- l. Constructed Stormwater Wetland shall be designed by both a Wetland Scientist for the engineered soils and Landscape Architect. A stamped planting plan of the CSW will be provided by the Landscape Architect.
- m. The Wetland Scientist and/or Landscape Architect shall provide construction oversight and shall provide field reports to the Board at 25%, 50%, 75% and a final report upon completion of the CSW, indicating that the design meets the intent of the approved plans.
- n. During construction, the Applicant shall provide yearly reports by the Landscape Architect and/or Wetland Scientist to the Board indicating that the CSW has established vegetation, habitat establishment (bats, birds and pollinators), stormwater control and water levels are maintained for at least 10 months per year. The report shall also indicate any sediment accumulation in the forebay or main cells. The Applicant shall be responsible for providing yearly reports on the CSW vegetation growth, water retention and depth of sedimentation in the particle separator and CSW forebay. The Applicant shall be responsible to maintain the CSW vegetation growth at 90 percent of the planting design and remove any sediment accumulation until the development is accepted by the Town of Raynham.

- o. The Applicant shall provide any corrective measures to the Board as needed to maintain the CSW if water levels are not maintained for 10 months or 90 percent of the vegetation within the CSW has not been established.
- p. The Applicant shall use the Constructed Stormwater Wetland (CSW) section in the Stormwater Handbook found in Volume 2, Chapter 2, Page 36, as a reference guide.

(Section 8.4.1 added November 2019)