

## 11.0 Post Construction BMP Standards and Specifications

\*\*\*\*\*

### 11.17 Afforestation

11.17.1 Afforestation includes practices that mimic the hydrologic benefits of a natural forest utilizing a regeneration process within the landscape by selectively planting tree seedlings (less than 1" DBH) or saplings (greater than 1" DBH). Afforestation can be used as both a runoff reduction practice by converting non-forested areas to forested areas as well as a mitigation practice for offsetting the clearing of forested areas during the development process. Design variants for afforestation include:

#### 11.17.1.1 Afforestation

11.17.1.1.1 Rpv credit based on runoff reduction from open space (good) condition to wooded (good) condition.

#### 11.17.1.2 Urban Tree Planting

11.17.1.2.1 For areas planted in trees that do not meet the design criteria for afforestation, credit shall be an equivalent 1/200th of an acre per tree.

#### 11.17.2 Afforestation Design Criteria

11.17.2.1 The minimum size of the afforestation area shall be 10,000 SF with a minimum width of 50 feet.

11.17.2.2 The proposed afforestation area shall be an upland.

11.17.2.3 At the end of the second year there shall be at least 200 live plants 6 inches or higher.

#### 11.17.3 Afforestation Landscaping Criteria

11.17.3.1 The planting density shall account for mortality, which over time can result in more random arrangement of the trees.

11.17.3.2 Final stabilization shall meet EPA requirements at the end of the second year.

#### 11.17.4 Afforestation Construction Sequence

11.17.4.1 The sizes and types of plantings shall be in accordance with the planting schedule developed for the site.

11.17.4.2 Construction reviews are necessary for the success of any phase of a project, including planting: Pre-construction meeting; Planting Phase (with designer and installation contractor); and Final Review (punch list of corrections for acceptance).

#### 11.17.5 Afforestation Maintenance Criteria

11.17.4.1 Following planting, a period of maintenance and monitoring will begin. The afforestation planting will be considered successful if the survival of trees at the end of the second year is at least 200 live, planted and/or volunteer, trees per acre, with final stabilization shall meet EPA requirements at the end of the second year.

11.17.4.2 An Operation and Maintenance Plan for the project shall be approved by the Department or the Delegated Agency prior to project closeout. The Operation and Maintenance Plan shall specify the property owner's primary

maintenance responsibilities and authorize the Department or Delegated Agency staff to access the property for maintenance review or corrective action in the event that proper maintenance is not performed.