BSC GROUP

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Nature-Based Solutions Implementation Resource Guide

Nature-based Solution (NbS): Shade Habitat Infiltration Tree Planting

Project Number per matrix: **14**

PREREQUISITES

- Obtain Town or City Conservation Commission, DPW, and/or landowner approval.
- Obtain appropriate permits if infiltration structures are included.

RECOMMENDED IMPLEMENTATION STEPS

- **Project Planning and Administration**
  - Coordinate efforts to support or retain species that are present but threatened.
  - Select locations based on connections to necessary species resources.
  - Assess bordering threats such as shade, plow pile, vehicle turning, loading, and foot traffic.
  - Use materials found on-site to the extent feasible. Amend rather than replace soil.
  - Assess opportunities for coordinated habitat enhancement and educational resources.
  - Ensure project budgets and contracts with private companies include sufficient retainage for maintenance and establishment period and coordination costs for oversight.
- **NbS Installation**
  - Install trees, grade bioswales, excavate/place bio-soils, and establish features.
  - Conduct erosion control or soil management as necessary to install enhancements.
  - Conduct site preparation, to include clear and grub, sod stripping, soil testing, and amendment.
  - Install through volunteer efforts or private contractors.
- **Maintenance**
  - General annual maintenance for planting and establishment to include replacement of failed plantings, and watering, as needed, to naturalize plantings.

NATURE-BASED SOLUTION SPECS

- Typical project size: ¼ acre (no minimum)

BUDGET ESTIMATE

- Typical project budget (order of magnitude): $700 - $1,200 per unit.
- Use the BSC Group Nature-based Solutions budget tool to develop more detailed concept budgets

SCHEDULE ESTIMATE

- 1 day of construction per unit