FACT SHEET

Tree Trench

DESCRIPTION

Tree trenches perform the same functions that other infiltration practices perform (infiltration, storage, evapotranspiration etc.) but in addition provide an increased tree canopy.

Example of Street Tree Trench with Structural Soil and Adjacent Infiltration Trench

Potential Limitations

- Required careful selection of tree species
- Required appropriate root zone area
- Utility conflicts, including overhead electric wires, posts, signs, etc.
- Conflicts with other structures (basements, foundations, etc.)

BENEFITS

- Increased canopy cover
- Enhanced site aesthetics
- Air quality and climate benefits
- Runoff reductions
- Water quality benefits
- High fast track potential
- Enhanced tree health/longevity

Potential Applications

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<th>Application</th>
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Example Image: Tree trench with porous pavers and subsurface infiltration bed, located in City Lot No. 22, Syracuse, NY
MAINTENANCE

- Water, mulch, treat diseased trees, and remove litter as needed
- Annual inspection for erosion, sediment buildup, vegetative conditions
- Biannual inspection of cleanouts, inlets, outlets, etc.
- Maintenance cost for prefabricated tree pit: 100-500 per year

COST

- $850 per tree
- $10-15 per square foot
- $8000-10,000 to purchase one prefabricated tree pit system including filter material, plants, and some maintenance;
- $1500-6000 for installation