

City of Seven Hills Proposed Streetscape Project



Green Infrastructure in Northeast Ohio

Presented by:
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Topics

- Mayor David Bentkowski's Vision
- Council's vision
- General Scope of Work
- Obstacles
- Ideas and Concepts
- Design Considerations
- Final Design
- Costs

Seven Hills needs Identity
Attract New Tenants
Better Utilize the existing Broadview Road Corridor
Something Even Better Than Whitelopping
Need to Compliment The New Street Signs
Sell City Vacant Land
Increase Tax Base & Property values
Something Larger than the 90% Recycling Participation
Attract New Developers

under
Construction
THE VISION

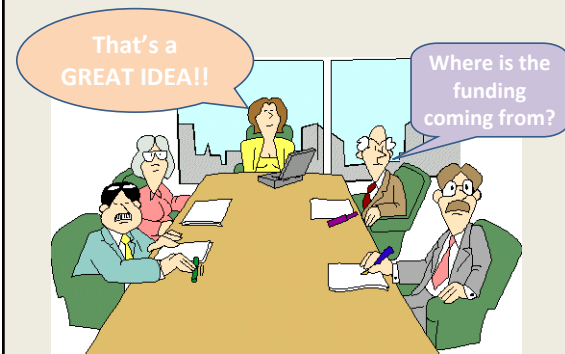
Mayor's Vision



New City Streetscape along Broadview Road Business District

CITY OF SEVEN HILLS, OHIO
2008 STREETScape IMPROVEMENT PLANS
JULY 2008

City Council's Vision



Funding Tax Increment Financing (TIF)



Meeting at the Mayor's Office...



General Construction Scope of Work

- Remove existing tree lawn areas consisting of grass, stone, and asphalt.
- Install new brick in tree lawn areas.
- Plant new trees.
- Replace existing concrete sidewalks and apron.
- Repair damaged curbs and inlets.
- Install ADA compliant curb ramps.
- Create a new image for Civic Drive entrance.

Obstacles

- Average tree lawn width 5'
- Low overhead wires.
- Find trees that can survive a harsh environment of snow plowing and salting.
- Provide tree lighting.
- Meet NPDES permit requirements.
- Not much Right-of-Way for detaining storm water or for SW BMPs.
- Trees must be spaced not obstruct vehicle traffic.

Idea

- Use the tree planting areas as the detention area & SW BMP

Concept

- Make every tree planting area a small Bioretention cell
- Each cell will hold water for maximum 40 hours
- Treated water will be either used by the tree or it will drain via a 4" diameter perforated pipe placed in the cell to new 6" diameter curb drains
- Overflow will direct to CBs

Bio Retention Cell Cons

- Providing electricity for tree lighting

Solution

- Utilize solar powered string lights
- The Engineering Department evaluated five (5) solar powered string lights suppliers.
 - ✓ Solar Light Store - Solar String Lights-102 LEDs

Tree Selection



Skyline Honeylocust



Shademaster Honeylocust

Tree Selection



Queen Elizabeth Hedge Maple

Landscape Tree Fact Sheets
3rd Edition

Penn State

2008 Costs

Bid Prices

Bio Retention Cell – Average \$543 per cell

Tree Structural Soil – Average \$119.75 per CY

Total Project Costs (1.56 miles of streetscape)
Engineer's Estimate \$1,894,000
Lowest Bid with 10% Contingency - \$1,485,915.00

Project Consultants

- Alan Siewert, Urban Forester
– Tree Selection
- Todd Houser, Cuyahoga Soil and Water Conservation District
– Assistance with concepts and SW BMP selection
- Brian Uhlenbrock, ASLA - Neff & Associates
– Final Plan Review and Finalize Arch concepts

Contact



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