Redesign of the Arborway:
Kelley Circle to Murray Circle

Design By:  HUB Engineering, Inc.
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Existing Conditions:

Emerald Necklace
Jamaica Pond
Arnold Arboretum
Project Area

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Existing Conditions:

Kelley Circle

Murray Circle
Objectives:

- Provide a high quality multi-use path.
- Provide safe pedestrian crossings.
- Separate regional and local traffic.
- Provide reasonable access to and from local streets while discouraging cut-thru traffic.
- Maintain arterial capacity.
- Convert road space to green space.
- Convert inaccessible green space to accessible green space.
- Preserve existing landscape and mature trees.

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Northeastern Proposed Design:

- Signal added at Eliot Street.
- Two coordinated signals replace current rotary at Kelley Circle.
- Signalized intersection replaces existing rotary at Murray Circle.
- Proposed 10' Paved Multi-Use Path and 6' Stone Dust Path
- Existing signal at Pond Street replaced with all-way stop.
- Crossover signal separates EB Left and EB Through traffic in order to increase capacity.
Paths:

Existing Cross Section

Proposed Cross Section

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Origin-Destination Study:
Analysis of Proposed Improvements

Weekday AM:
- v/c 0.57 LOS A
- v/c 0.65 LOS A

Weekday PM:
- v/c 0.57 LOS B
- v/c 0.60 LOS B
- v/c 0.64 LOS B

Weekday AM:
- v/c 0.59 LOS B
- v/c 0.74 LOS B

Weekday PM:
- v/c 0.80 LOS A
- v/c 0.97 LOS B

Weekday AM:
- v/c 0.53 LOS B

Weekday PM:
- v/c 0.36 LOS B
Existing Recreational Greenspace:

Accessible Greenspace

Inaccessible Greenspace
Proposed Recreational Greenspace:

- New Greenspace = 4.45 Acres
- Newly Accessible Greenspace = 5.60 Acres
- Total Greenspace Gained = 10.05 Acres
Evaluation:

- Design provides a 10’ paved multi-use path as well as a 6’ stone dust path.
- All crossings are signal protected.
- Design geometrically separates regional and local traffic.
- Design provides reasonable access to and from local street.
- Design maintains current arterial capacity.
- Design converts road space to green space.
- Design converts inaccessible green space to accessible green space.
- No mature trees along the Arborway disrupted.
Questions?

ARBORWAY
EMERALD NECKLACE

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April 2008