Washington Pike Roadway Project

CITY OF KNOXVILLE

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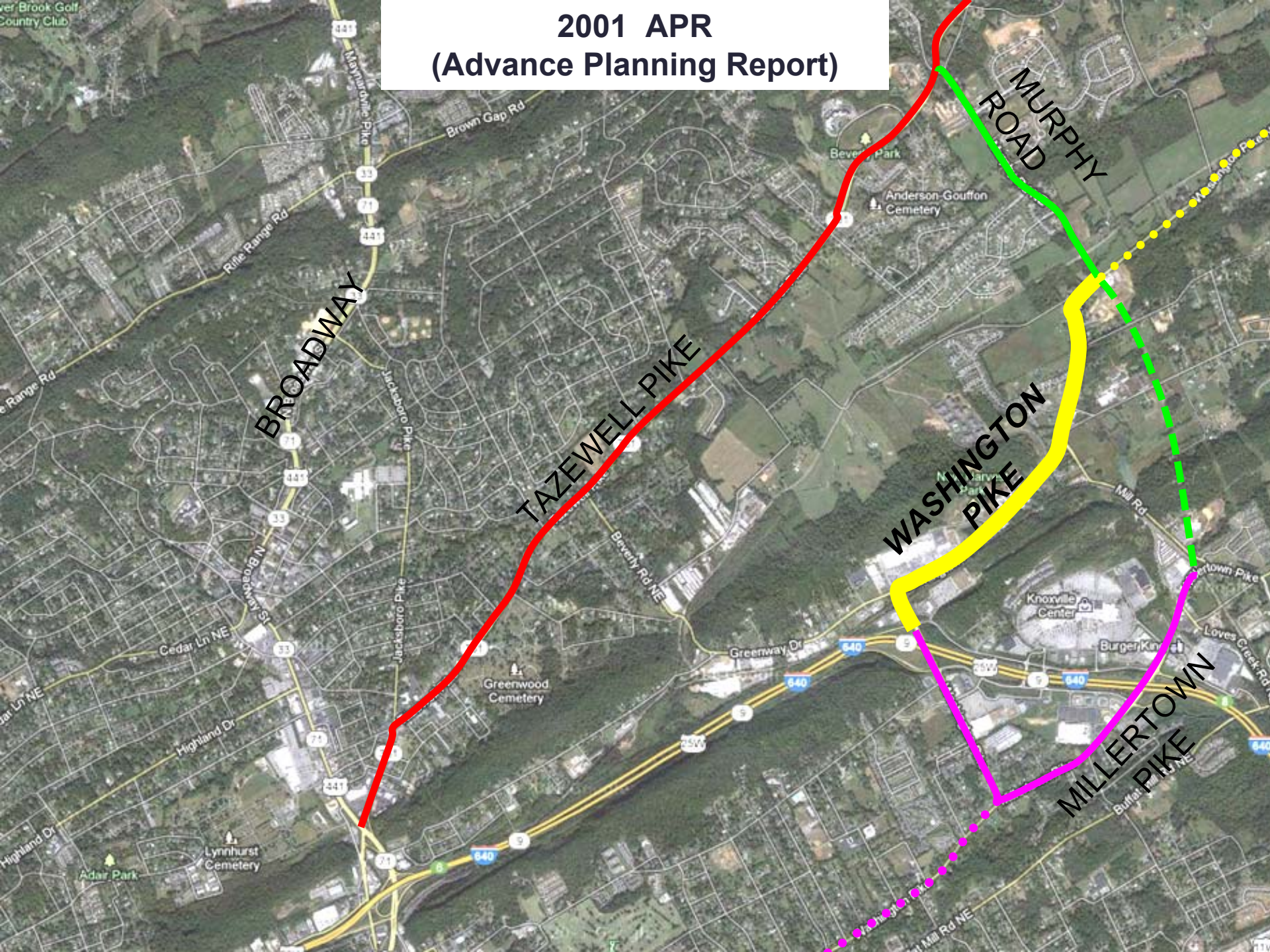
Project History

- 2001 – City prepared Advance Planning Report (APR) for northeast sector road network
  - Identified project needs and completed Phase 1 Environmental screening
- 2010 – City prepared updated Transportation Planning Report (TPR) for Washington Pike Project
  - Reevaluated environmental resources
- 2011 – Washington Pike Roadway Project (from I-640 to Murphy Road)
  - Consultant Selection
  - NEPA Document Determination = Categorical Exclusion

2001 APR
(Advance Planning Report)



Peak Hour Traffic

AM Peak Hour

PM Peak Hour

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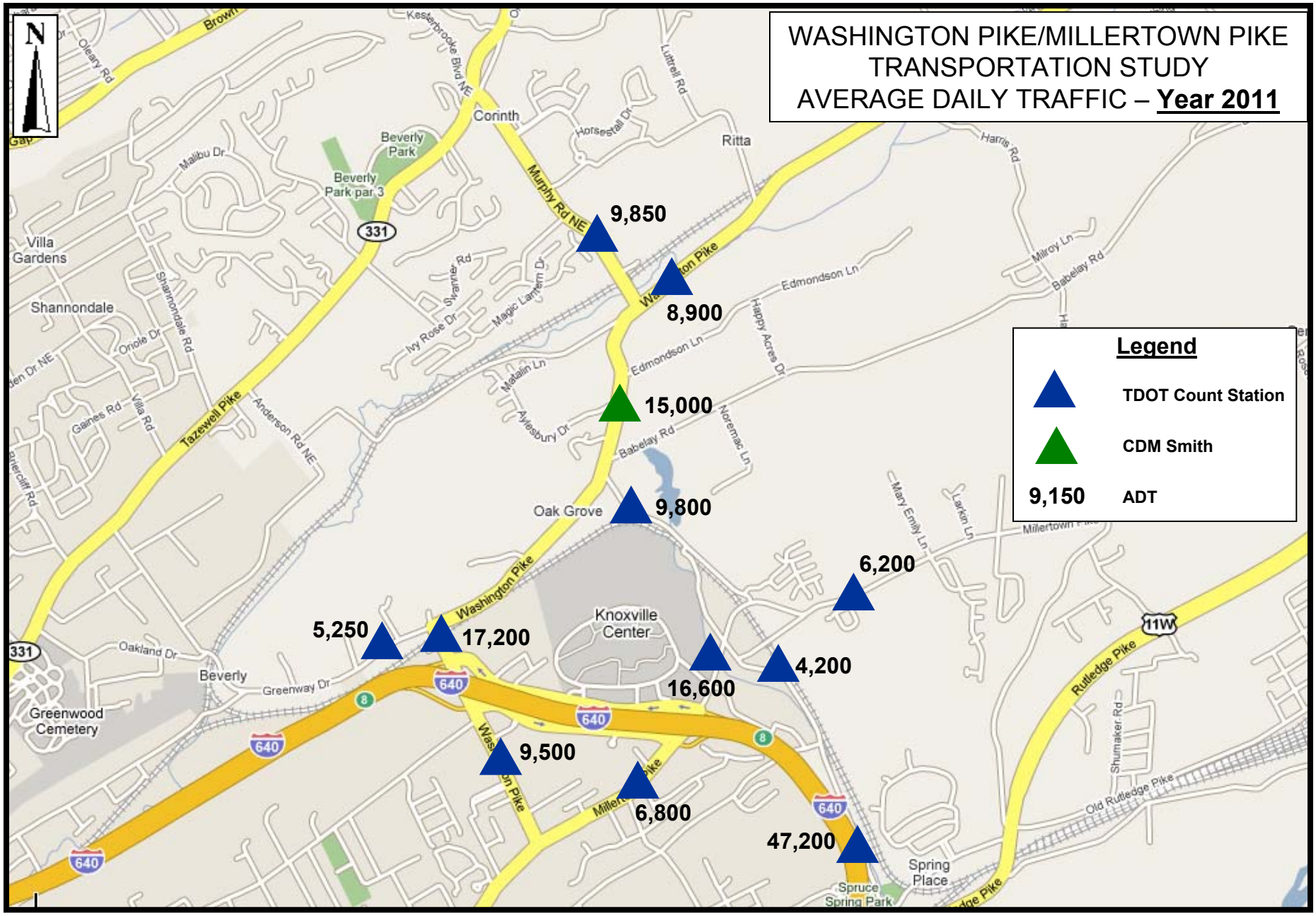
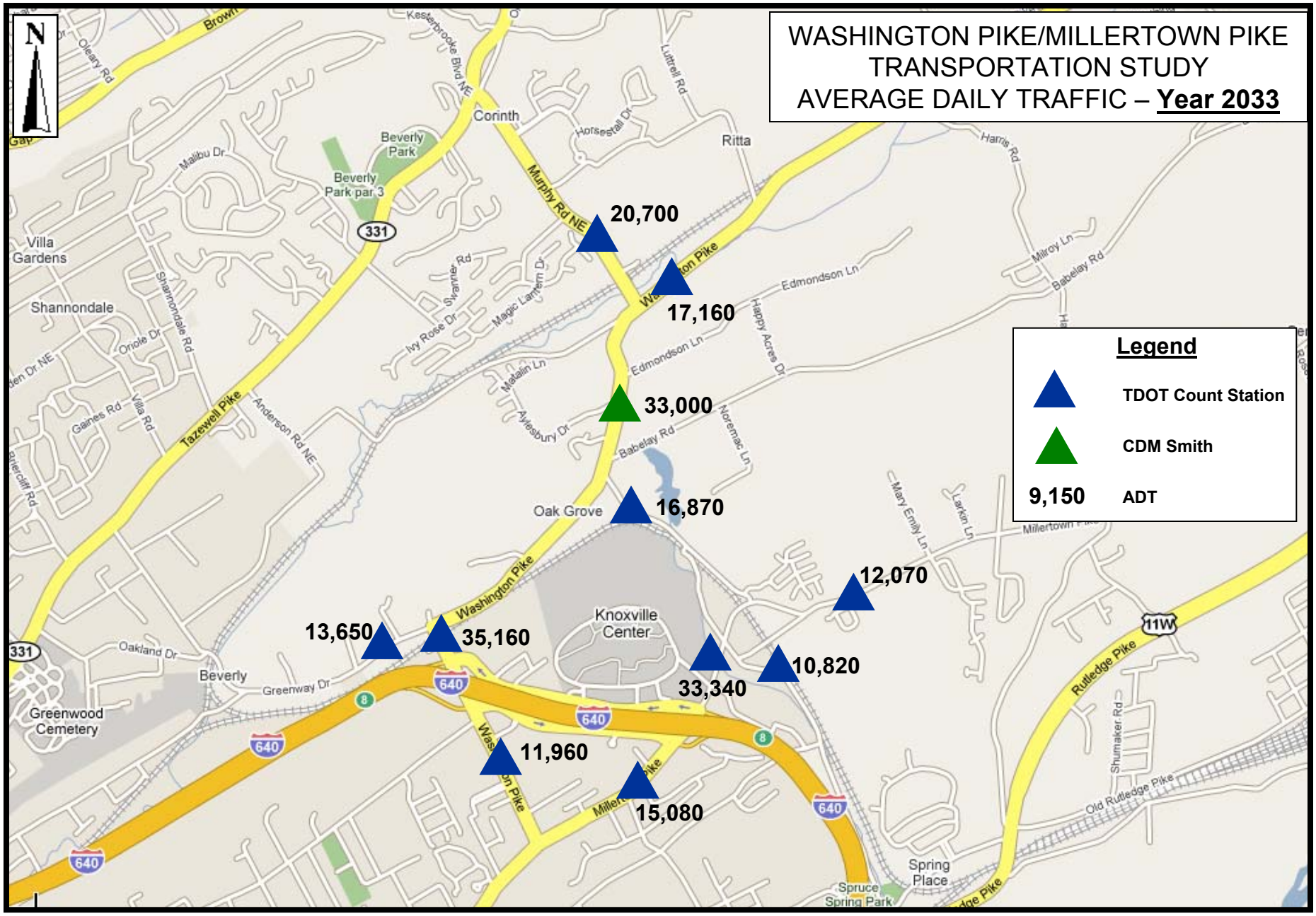

WASHINGTON PIKE/MILLERTOWN PIKE
TRANSPORTATION STUDY
AVERAGE DAILY TRAFFIC – Year 2011
Legend
TDOT Count Station
CDM Smith
9,150 ADT
9,850
8,900
15,000
9,800
6,200
5,250
17,200
16,600
4,200
9,500
6,800
47,200
Corinth
Ritta
Beverly Park
Beverly Park par 3
Villa Gardens
Shannondale
Oak Grove
Knoxville Center
Beverly
Greenwood Cemetery
Spring Place
Spruce Spring Park
Murphy Rd NE
Washington Pike
Tazewell Pike
Rutledge Pike
Old Rutledge Pike
Edmondson Ln
Babelay Rd
Greenway Dr
Oakland Dr
Shannondale Rd
Anderson Rd NE
Mary Emily Ln
Larkin Ln
Millertown Pike
Shumaker Rd
Happy Acres Dr
Noremac Ln
Ivy Rose Dr
Magic Lantern Dr
Matalin Ln
Aylesbury Dr
Swanner Rd
Malibu Dr
Oleary Rd
Kesterbrooke Blvd NE
Luttrell Rd
Horsestall Dr
Harris Rd
Milroy Ln
Oriole Dr
Gaines Rd
Villa Rd
Briercliff Rd
331
640
8
11W


WASHINGTON PIKE/MILLERTOWN PIKE
TRANSPORTATION STUDY
AVERAGE DAILY TRAFFIC – Year 2033
Legend
TDOT Count Station
CDM Smith
9,150 ADT
20,700
17,160
33,000
16,870
12,070
13,650
35,160
33,340
10,820
11,960
15,080
Corinth
Ritta
Beverly Park
Beverly Park par 3
Villa Gardens
Shannondale
Oak Grove
Knoxville Center
Beverly
Greenwood Cemetery
Spring Place
Spruce Spring Park
Murphy Rd NE
Washington Pike
Tazewell Pike
Rutledge Pike
Old Rutledge Pike
Edmondson Ln
Babelay Rd
Greenway Dr
Oakland Dr
Shannondale Rd
Anderson Rd NE
Ivy Rose Dr
Magic Lantern Dr
Matalin Ln
Aylesbury Dr
Happy Acres Dr
Noremac Ln
Mary Emily Ln
Larkin Ln
Millertown Pike
Shumaker Rd
Harris Rd
Milroy Ln
Luttrell Rd
Horsestall Dr
Kesterbrooke Blvd NE
Malibu Dr
Oleary Rd
Oriole Dr
Gaines Rd
Villa Rd
Briercliff Rd
Swanner Rd
Brown
331
640
8
11W

Typical Section

- 4-lanes with turn lanes at intersections
  - Median divided where practical for aesthetics and safety
  - May include infiltration basins for water quality treatment
- 40mph design speed
- Serves multi-modes of transportation
- Minimize ROW impacts

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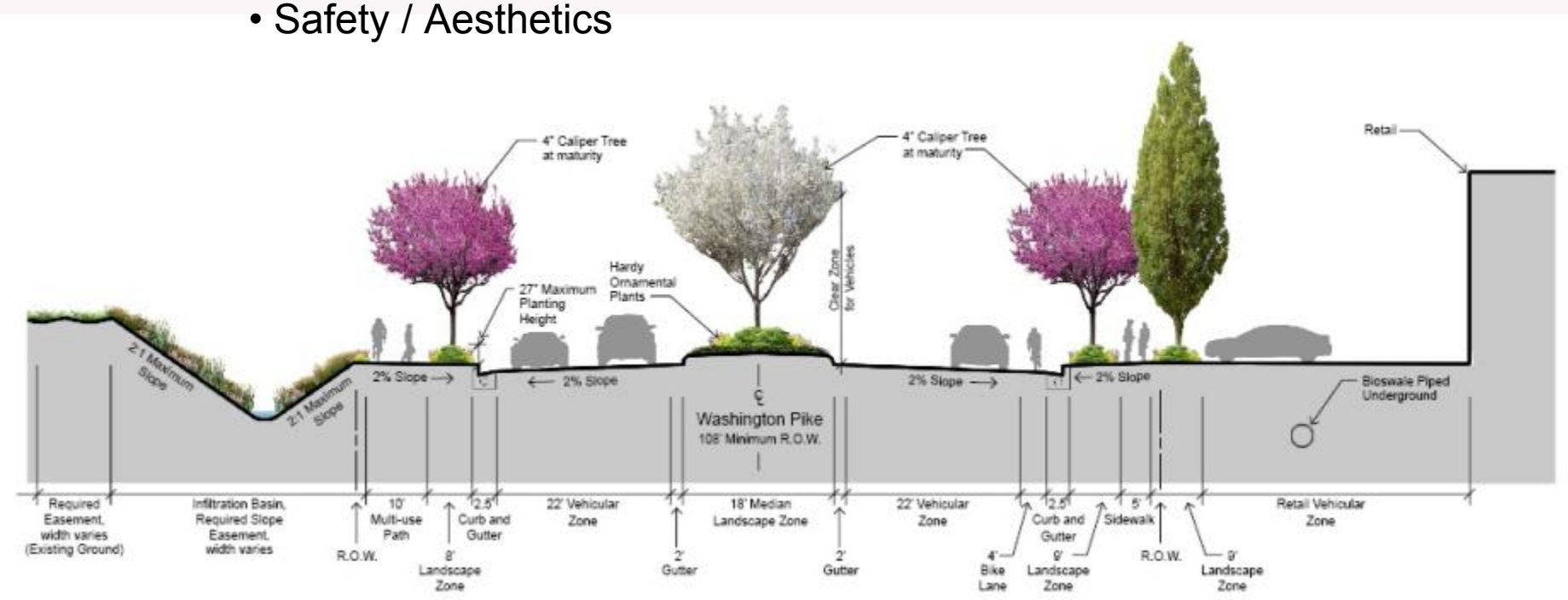
Typical Section

Design Flexibility to Provide:

- Adequate traffic capacity
- Serve multi-modes of transportation
- Safety / Aesthetics



hedstrom design landscape architecture

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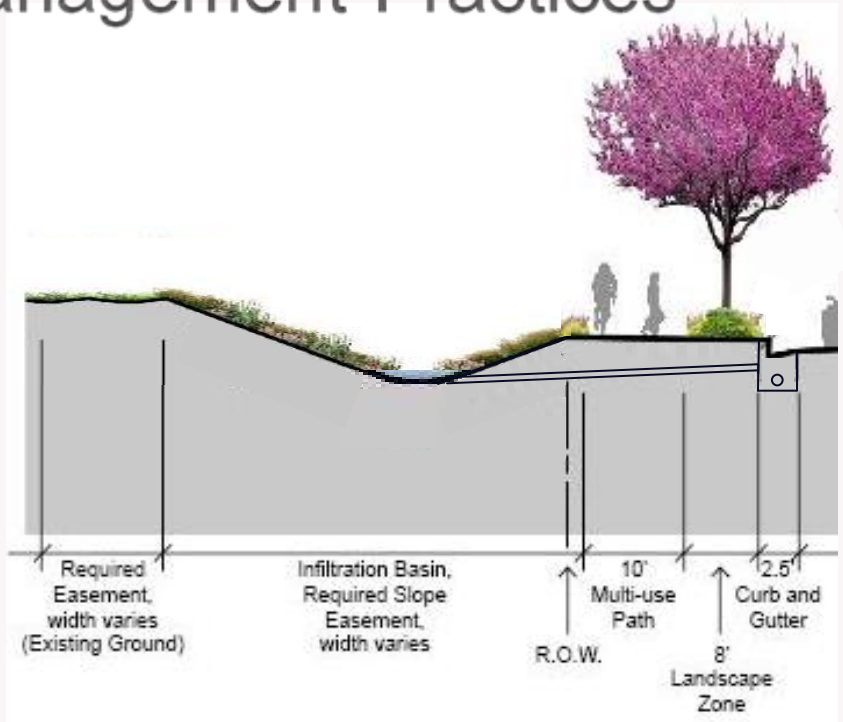
Water Quality

- First flush
- Infiltration Systems
- Combination of Best Management Practices
  - Pretreatment measures
    - Water Quality Inlets
    - Grass Swales
    - Filter Strips
    - Check Dams
    - Riprap Aprons
  - Multiple systems
- Volume



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Neighborhood Connections

New Harvest Park

Murphy Road Intersection

Retail Center

640 Intersection

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Project Scope / Schedule

TDOT Locally Managed Project

- Environmental Clearance
  (Currently Underway – Anticipated approval 2013)
- Survey & Design / Public Involvement (18 months ±)
- Right of Way Process (12 months ±)
  - Utilities / Railroad Coordination
- Bidding / Construction (TBD)