



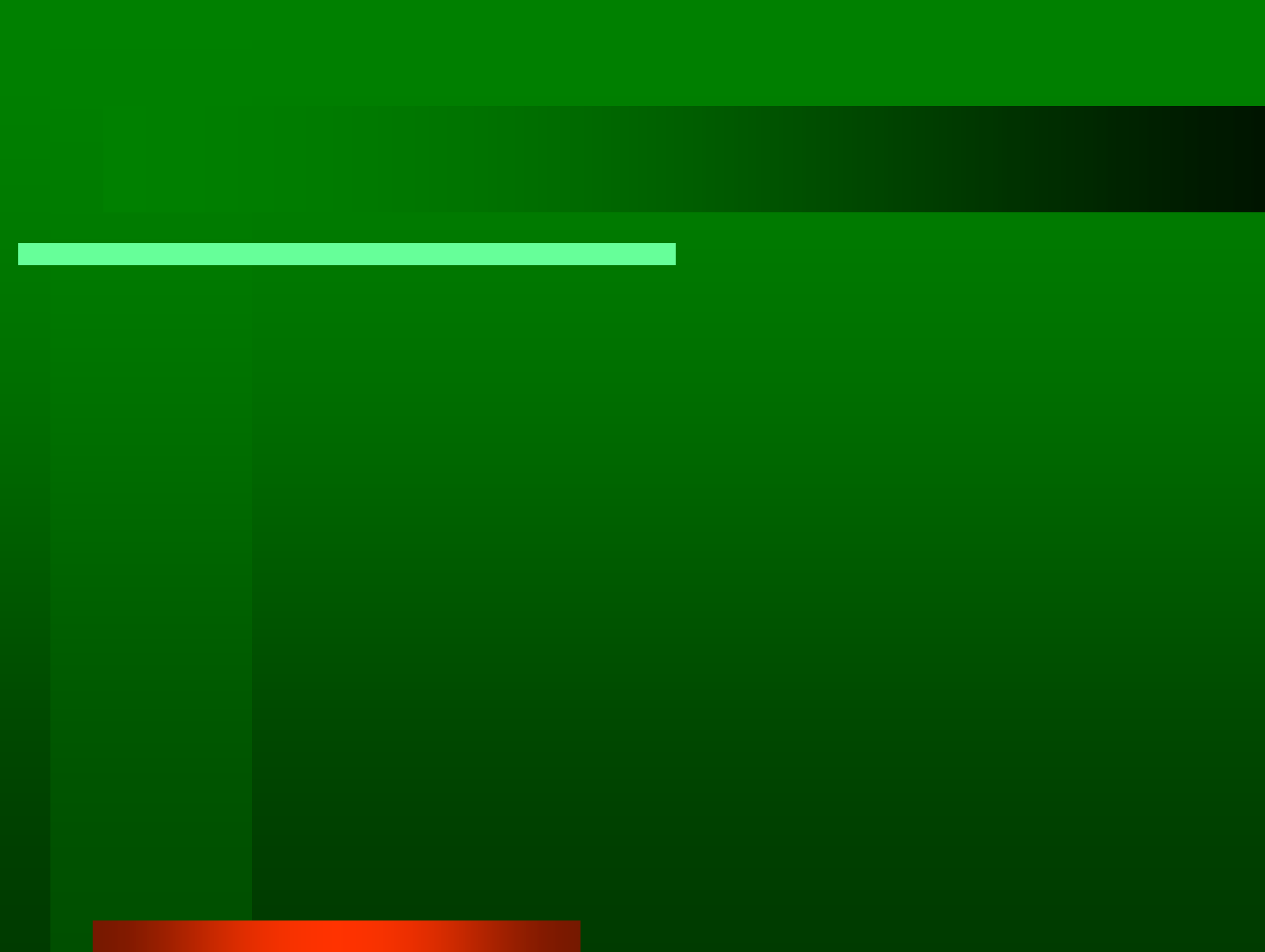
Carlisle Case Study: The Urban Greenway Plan



Chris Houston, Chairman, Letort Regional Authority

Chris currently serves as the Assistant Director of the Cumberland/Perry Housing and Community Partnership. He is a frequent lecturer on housing and redevelopment topics. He is active in his community, having served in leadership roles on the boards of various non-profit organizations, including organizations that have provided housing for senior citizens and primary health care to the uninsured.


He currently serves as Chairman of the Board of Directors of the LeTort Regional Authority. Mr. Houston received his juris doctorate from The Penn State Dickinson School of Law, and his B.A. from George Washington University.



Project Goals

- **Study the feasibility of creating a Trail/Urban Greenway linking the communities of Middlesex Township, North Middleton Township, Borough of Carlisle and South Middleton Township**
- **Create a master Trail/Urban Greenway plan**
- **Inform stakeholders and the public about the Trail/Urban Greenway plan**

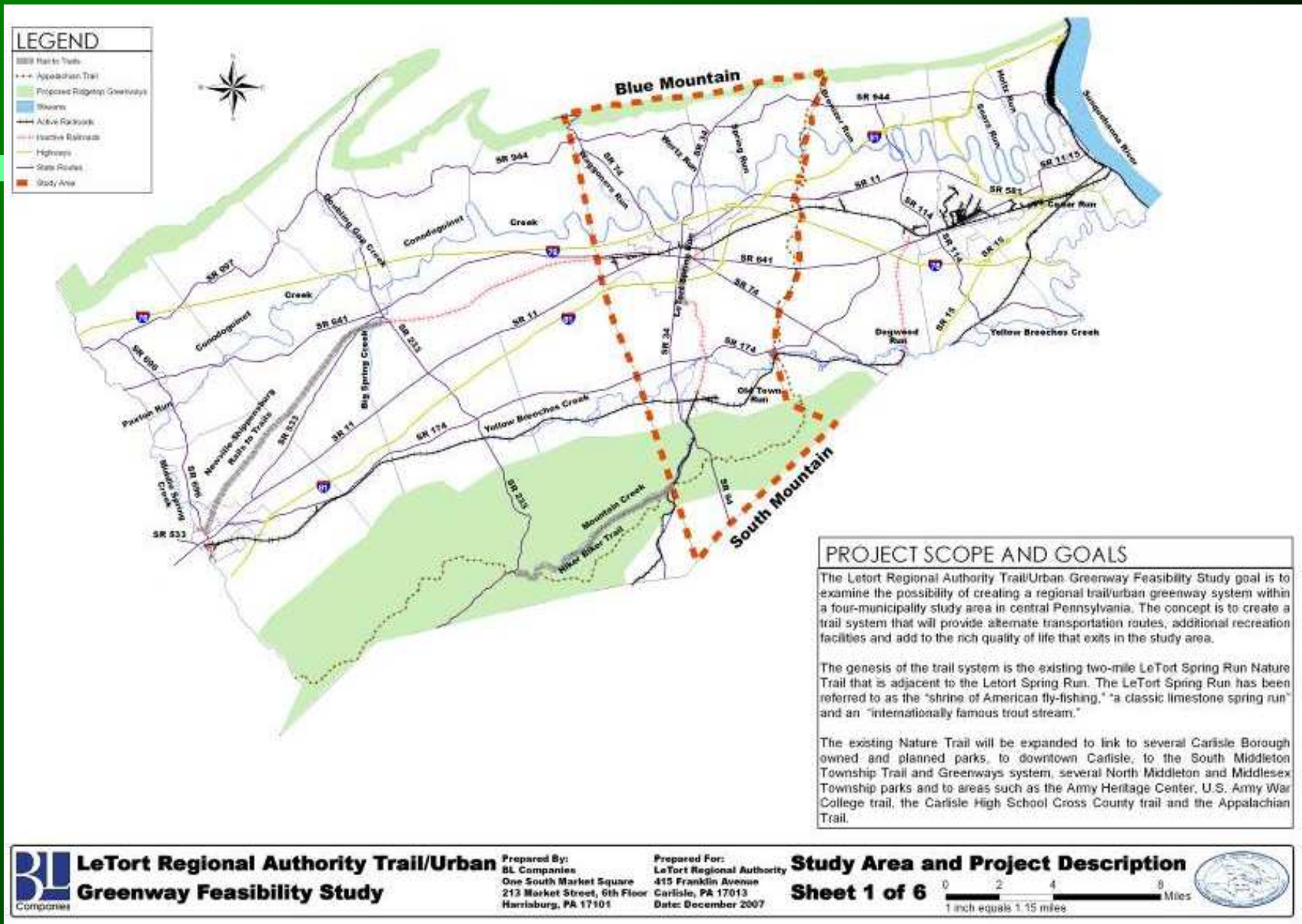
Project History

- LeTort Regional Authority (LRA) identified an expanded trail project in its 2005 Strategic Plan www.letort.org
- Countywide Greenway and Trail System Identified in the Cumberland County Open Space Preservation Plan – April 2006
- LRA received funding from the Cumberland County Land Partnerships Grant Program for Feasibility Study
- LRA issued Request for Proposals – December 2006.
-  BL Companies selected as consultant in March 2007

Primary Partners

- **LeTort Regional Authority**
- **Cumberland County**
- **South Middleton, North Middleton,
Middlesex Townships**
- **Borough of Carlisle**

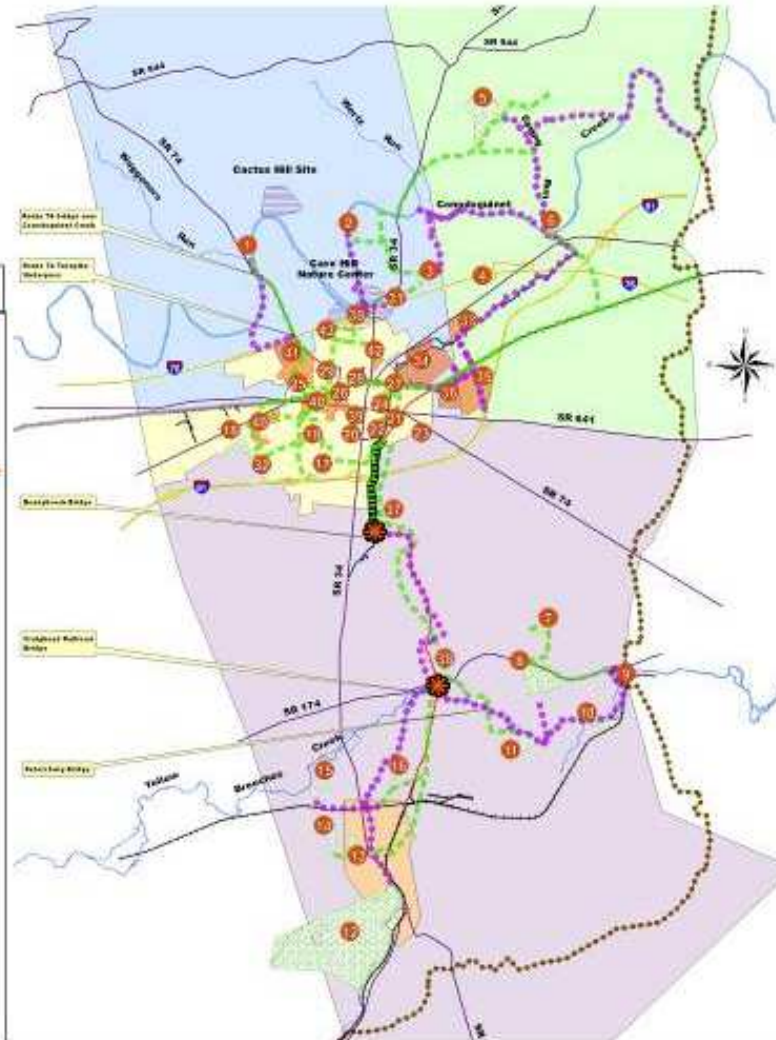
Study Area in Cumberland County



Study Area



LEGEND		NOTE: Orange text indicates Points of Interest identified in Project Scope	
South Middleton Twp	01 North Middleton Park	01 North Middleton Park	
Borough of Mt. Holly Springs	02 Creekview Park	02 Creekview Park	
North Middleton Twp	03 Village Park	03 Village Park	
Middlesex Twp	04 Anderson Park	04 Anderson Park	
Carlisle Borough	05 Middlesex Township Park	05 Middlesex Township Park	
	06 LeTort Falls Park	06 LeTort Falls Park	
	07 Indian Hills Park	07 Indian Hills Park	
	08 Spring Meadows Park	08 Spring Meadows Park	
	09 Historic Iron Works Park	09 Historic Iron Works Park	
	10 Donard Wifflinger Nature Preserve	10 Donard Wifflinger Nature Preserve	
	11 South Middleton Municipal Park	11 South Middleton Municipal Park	
	12 Mount Holly Marsh Preserve	12 Mount Holly Marsh Preserve	
	13 Butler Street Park	13 Butler Street Park	
	14 Trine Park	14 Trine Park	
	15 South View Park	15 South View Park	
	16 Holly Woodcrafters Park	16 Holly Woodcrafters Park	
	17 Thornwald Park	17 Thornwald Park	
	18 Valley Meadow Park	18 Valley Meadow Park	
	19 Monocline Athletic Area	19 Monocline Athletic Area	
	20 Butcher's Tilt Lot	20 Butcher's Tilt Lot	
	21 Goodyear Park	21 Goodyear Park	
	22 LeTort Park	22 LeTort Park	
	23 Seven Gables Park	23 Seven Gables Park	
	24 Ripper Tilt Lot	24 Ripper Tilt Lot	
	25 Loder Park	25 Loder Park	
	26 Haskins Tilt Lot	26 Haskins Tilt Lot	
	27 Biddle Mission Park	27 Biddle Mission Park	
	28 Memorial Park	28 Memorial Park	
	29 Stuart Community Center	29 Stuart Community Center	
	30 Cave Hill Nature Center	30 Cave Hill Nature Center	
	31 Strafer Park	31 Strafer Park	
	32 Unruh Park	32 Unruh Park	
	33 Keystone Arms	33 Keystone Arms	
	34 US Army War College	34 US Army War College	
	35 US Army Heritage Center	35 US Army Heritage Center	
	36 Carlisle Barracks Golf Course	36 Carlisle Barracks Golf Course	
	37 LeTort Trail parking at Barnstorm Bridge	37 LeTort Trail parking at Barnstorm Bridge	
	38 Craighead Railroad Crossing	38 Craighead Railroad Crossing	
	39 Carlisle Borough Hall	39 Carlisle Borough Hall	
	40 Dickinson College	40 Dickinson College	
	41 Carlisle High School	41 Carlisle High School	
	42 Carlisle Fairgrounds	42 Carlisle Fairgrounds	
	43 Community Pool	43 Community Pool	



Additional Feasibility Report Content

- **Analysis of proposed parks, schools and trails for trail connection suitability.**
 - ADA Issues
 - Parking
 - Signage
 - Grades
- **Create a phasing plan for Trail/Urban Greenway Development**
 - Easement Acquisition
 - Construction Sequencing
 - Municipal and County Budgets
 - Trail Hierarchy
- **Identify Grant and Funding Sources**
- **Cost Estimate**

Middlesex Township



Connection Points

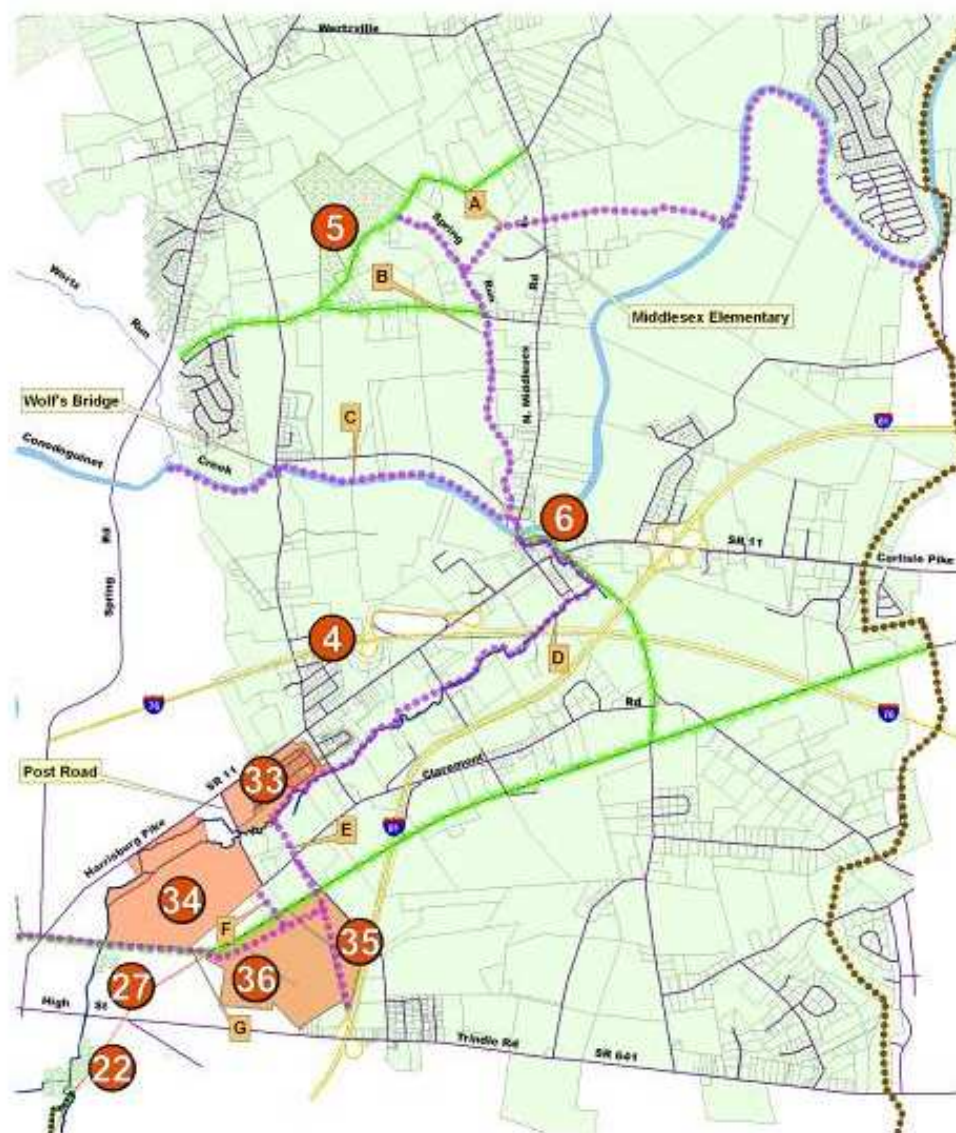
- **Primary Connection Points**
 - Keystone Arms Subdivision Trail Easement
 - U.S. Army Heritage Center
 - Carlisle Barracks Golf Course
- **Secondary Connection Points**
 - Middlesex Park
 - LeTort Falls Park
 - Middlesex Elementary
 - Appalachian Trail



Location Map: Middlesex Township

LEGEND

- NOTE: Orange text indicates Points of Interest highlighted in Project Scope
- 04 Anderson Park
 - 05 Middlesex Township Park
 - 06 LeTort Falls Park
 - 22 LeTort Park
 - 27 Biddle Mission Park
 - 33 Keystone Arms
 - 34 US Army War College
 - 35 US Army Heritage Center
 - 36 Carlisle Barracks Golf Course
 - Middlesex Twp
 - Proposed Trailway-Private Access
 - Proposed Trailway-Public Roads
 - Points of Interest
 - Proposed Pedestrian Bridge
 - LeTort Trail
 - Appalachian Trail
 - Municipal Parks
 - State Game Land
 - LeTort Spring Run
 - Streams
 - School
 - Railroads
 - Inactive Railroads
 - Highways
 - State Roads
 - A-G Corridor Segments



Keystone Arms and War College Connection Closeup



LeTort Falls Park Linkage Closeup



North Middlesex Road looking north



LeTort Spring Run and Mill Rd. Bridge



LeTort Regional Authority Trail/Urban Greenway Feasibility Study

Prepared By:
BL Companies
One South Market Square
213 Market Street, 6th Floor
Harrisburg, PA 17101

Prepared For:
LeTort Regional Authority
415 Franklin Avenue
Carlisle, PA 17013
Date: December 2007

Middlesex Township Sheet 3 of 6

0 0.25 0.5 1 Miles
1 inch equals 0.2 miles



North Middleton Township



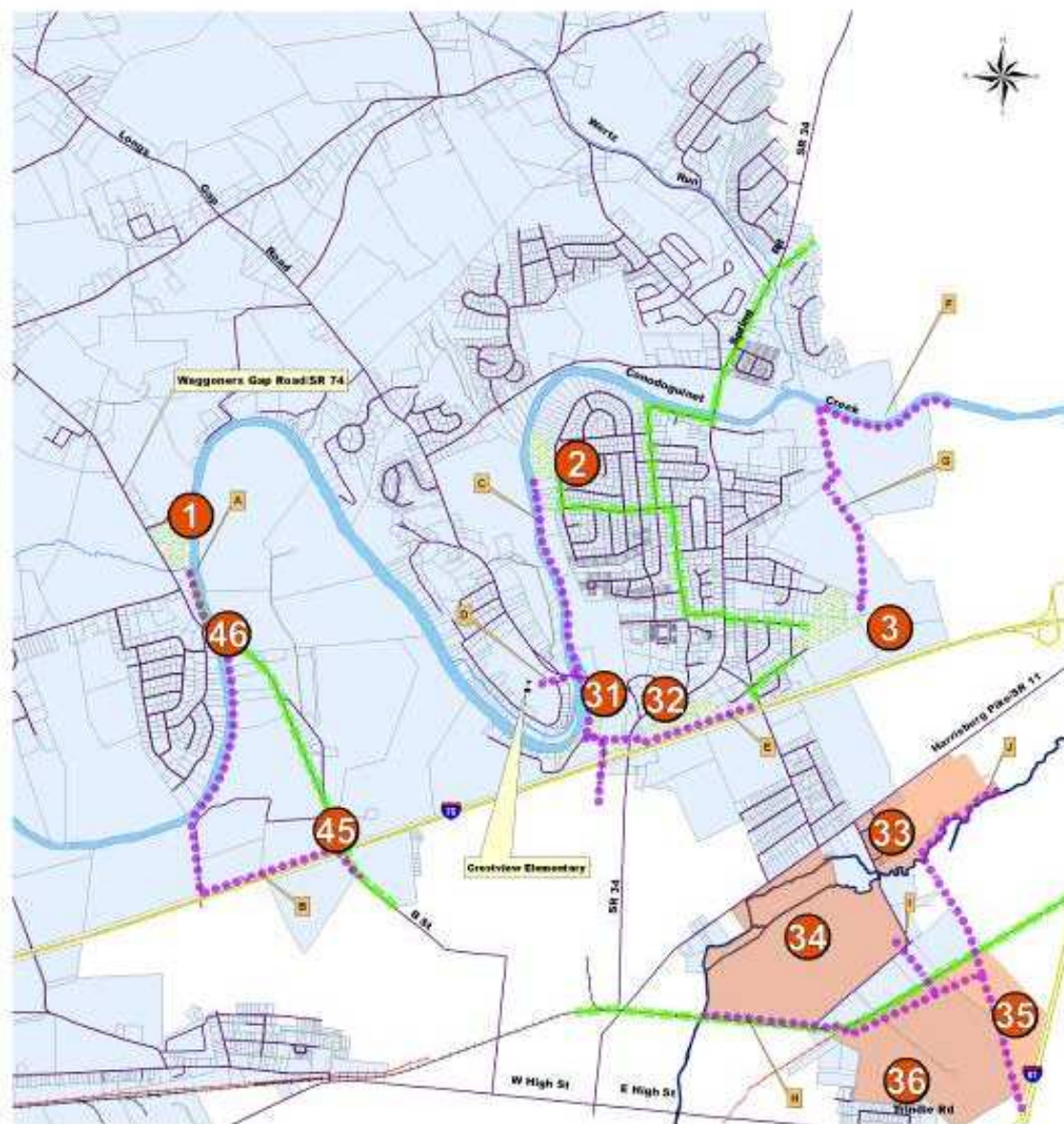
Connection Points

- **Primary Connection Points**
 - Keystone Arms Subdivision Trail Easement
 - US Army War College
 - US Army Heritage Center
 - Carlisle Barracks Golf Course Trail
- **Secondary Connection Points**
 - North Middleton Park
 - Creekview Park
 - Village Park
 - Creekview Elementary



LEGEND

- 01 North Middleton Park
 02 Creekview Park
 03 Village Park
 31 Cave Hill Nature Center
 32 Shaffer Park
 33 Keystone Area
 34 US Army War College
 35 US Army Heritage Center
 36 Carlisle Barracks Golf Course
 45 Route 74 Turnpike Underpass
 46 Route 74 Bridge over Conodoguinet Creek
- North Middleton Township
 Proposed Trail-Private Parcels
 Proposed Trail-Public Roads
 Points of Interest
 Municipal Parks
 State Game Land
 LeTort Spring Run
 Streams
 Schools
 Railroads
 Inactive Railroads
 Highways
 Roads
 Corridor Segments



Bridge over Waggoners Run



Existing pedestrian trail leading to Village Park Pavilion



Rt 74 PENNDOT bridge over Conodoguinet Creek



Existing pedestrian trail at Creekview Park



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**North Middleton Township
Sheet 4 of 6**

0 0.2 0.4 0.6 Miles
1 inch equals 0.2 miles



Letort Spring Run Nature Trail



Connection Points

- **Borough of Carlisle**
- **South Middleton Township Trail and Park System**

South Middleton Township



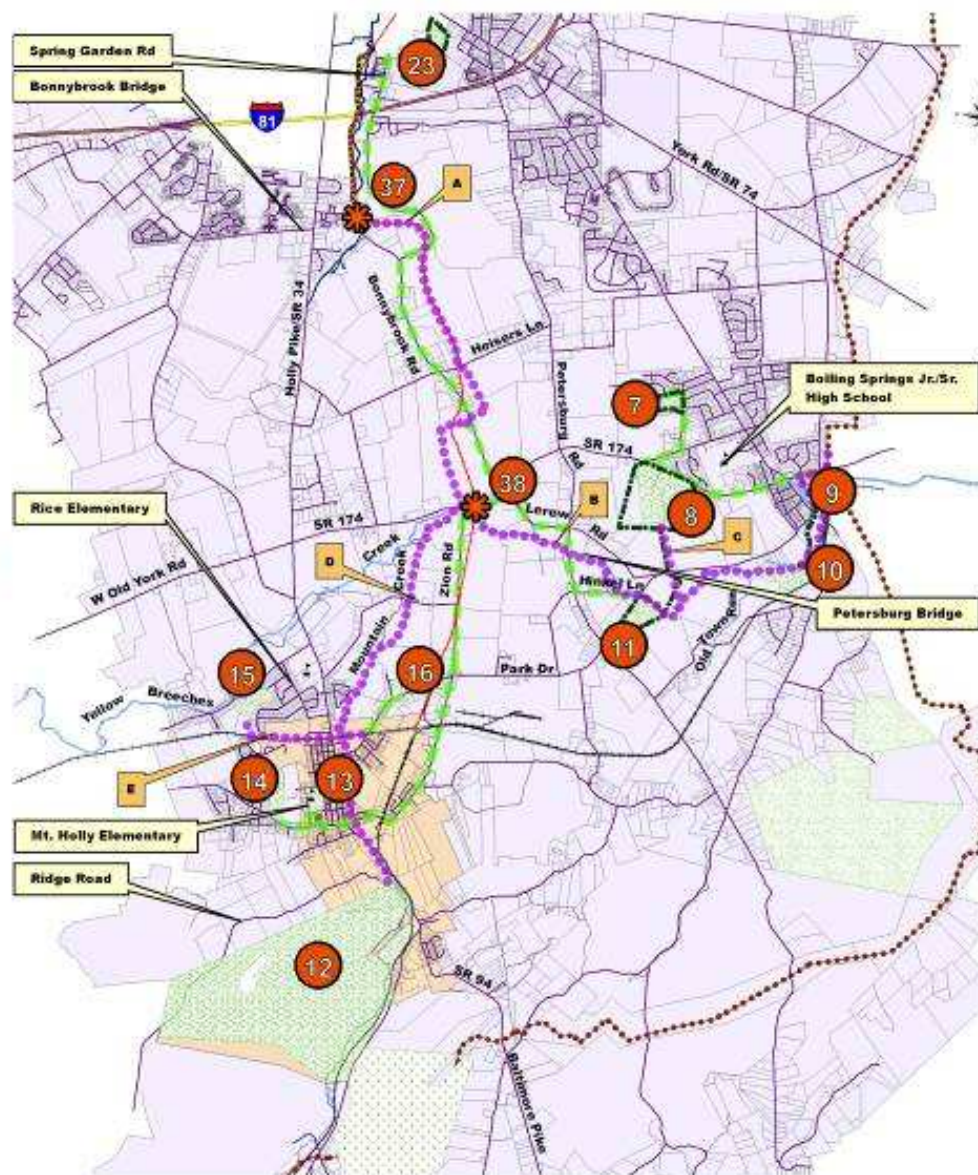
Connection Points

- **Primary Connection Points**

- Letort Spring Run Trail Head at Bonnybrook
- South Middleton Park Trail System
- Spring Meadows
- Indian Hills Subdivision Park
- Appalachian Trail

- **Secondary Connection Points**

- Mt. Holly Marsh Preserve
- Boiling Springs High School
- Rice Elementary
- Borough of Boiling Springs
- Borough of Mt. Holly Springs



Borough of Carlisle

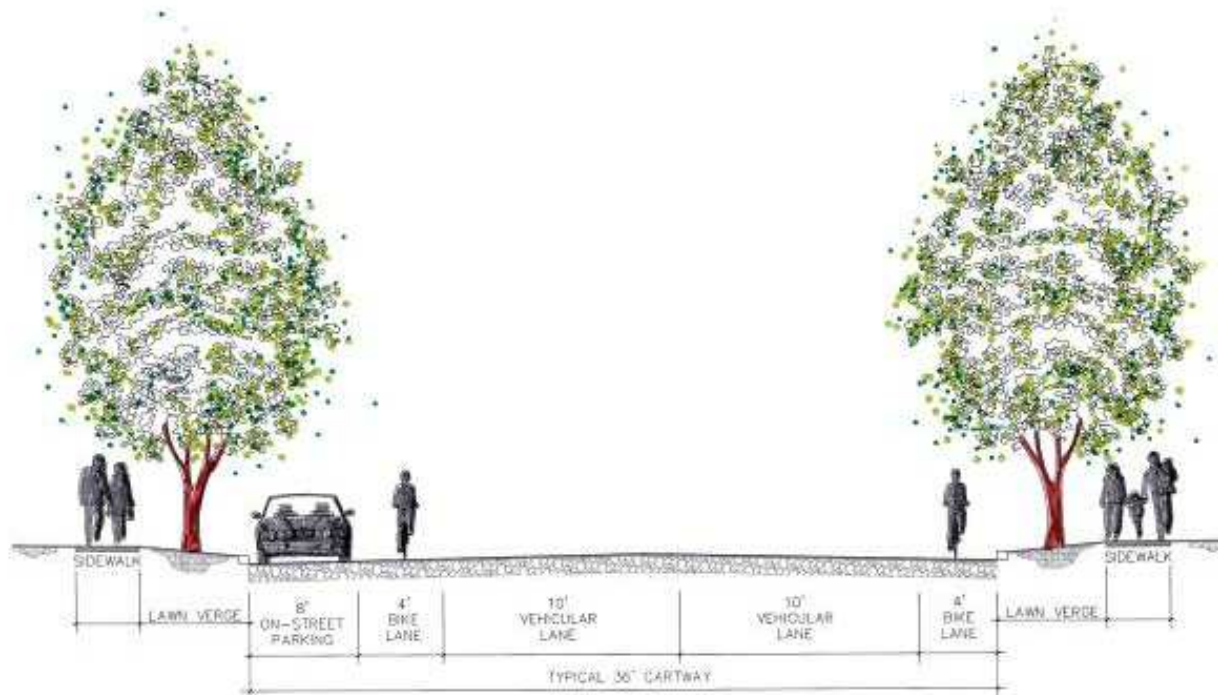


Connection Points

- **Parks**
- **Schools**
- **Other**
 - **Dickinson College and Athletic Fields**
 - **Carlisle Fairgrounds**
 - **Downtown**
 - **Proposed Cumberland Valley Rails to Trails Connection: Carlisle to Newville**
 - **LeTort Spring Run Nature Trail**

Proposed Corridors – Streets and Alley





SECTION ELEVATION- TYPICAL 36' STREET CARTWAY WITH 4' BICYCLE LANES

1" = 5'-0"

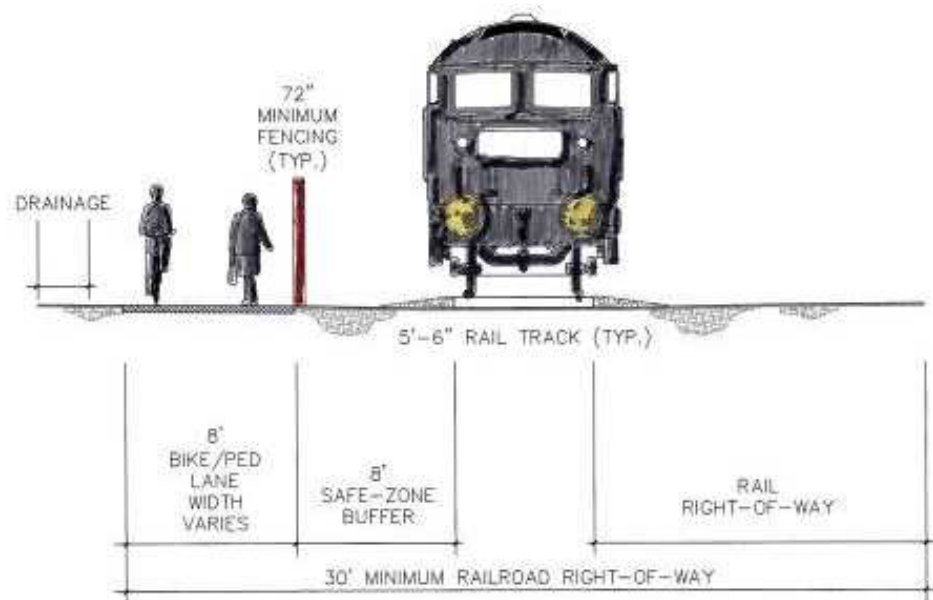


Proposed Corridor – Rails With Trails



Existing Rail Corridor
Within The Borough





SECTION ELEVATION- TYPICAL RAILBED RIGHT-OF-WAY

1" = 5'-0"



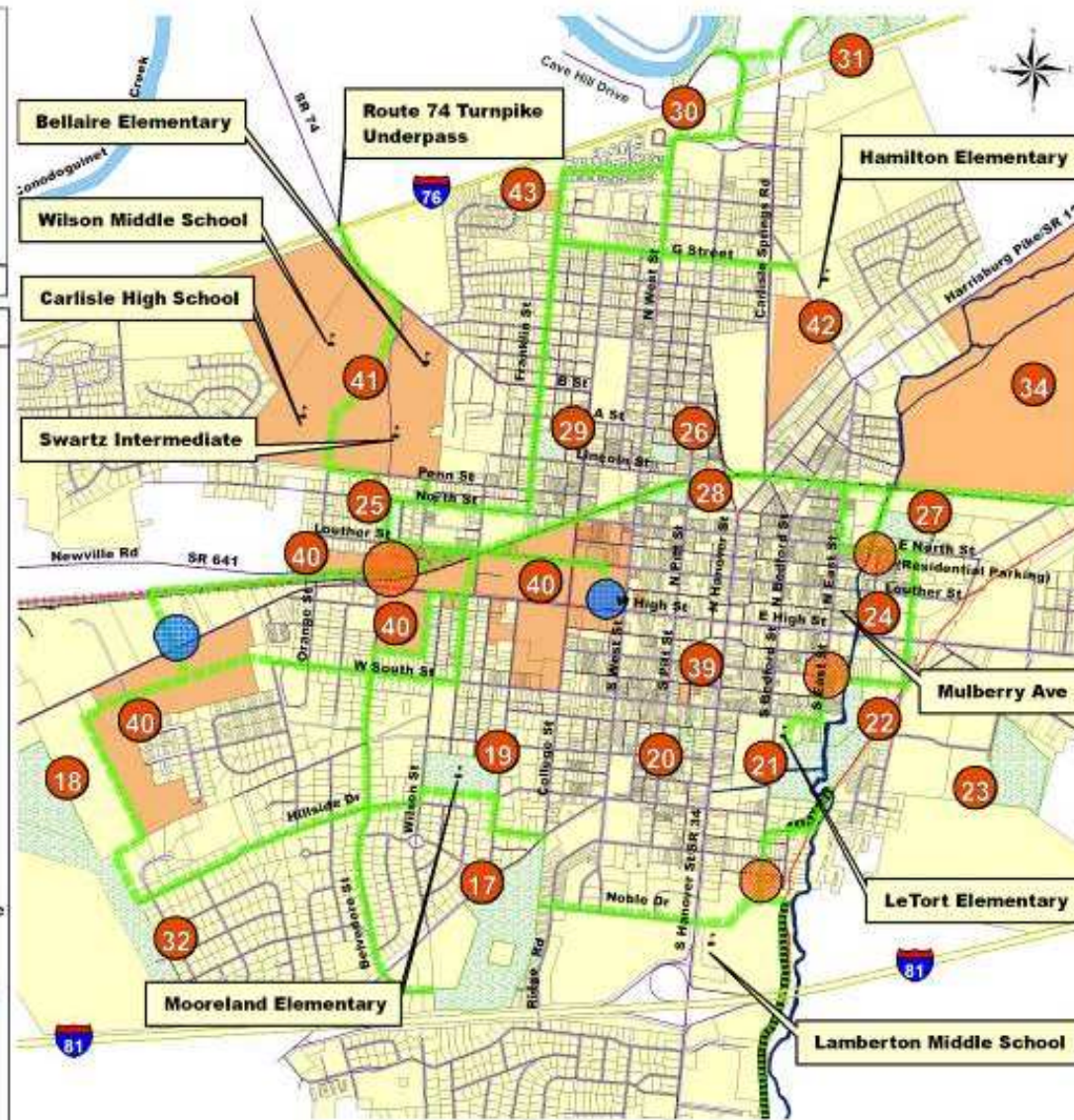
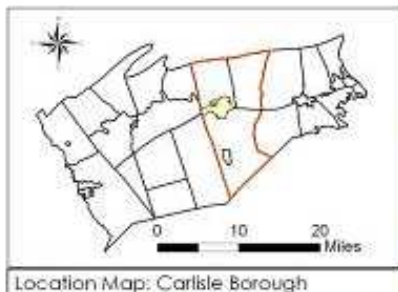
Proposed Corridor – Letort Spring Run





SECTION ELEVATION- TYPICAL STREAM CORRIDOR
1"= 5'-0"





Dickinson College Connection Closeup



LeTort Nature Trail Connection Closeup



Railroad corridor through Dickinson College



Typical cartway along Belvedere Road facing north



Land Acquisition Tools

- Fee Simple Purchase
- Option/ First Right of Refusal
- Conservation Easements
- Transfer/Purchase of Development Rights
- Open Space Zoning/Conservation Design
- Overlay Zoning Districts
- Buffer Zones in Zoning
- Mandatory Dedication and Fee-in-Lieu Ordinances

Funding

Source/Agency	Program	Description of Program
Department of Conservation and Natural Resources (DCNR)	Community Conservation Partnership Program (C2P2)	Grant monies are available to municipal governments and well-established non-profit land trusts to support greenway and park planning, design and development. A 50% match is required from the local project sponsor. This program includes the following specified grants: <ol style="list-style-type: none"> 1) Planning Grant Projects <ul style="list-style-type: none"> • Greenways and trails Plans; Rivers Conservation Plans 2) Acquisition Grant Projects <ul style="list-style-type: none"> • Park and Recreation Areas; Rails-to-Trails; Rivers Conservation 3) Development Grant Projects <ul style="list-style-type: none"> • Park Rehab. and Development; Greenways and Trails • Rails-to-Trails; Rivers Conservation
DCNR	PA Recreational Trails Program	Grants range from \$2,500 to \$100,000. Provides funds to develop and maintain recreation trails for motorized and non-motorized recreation trail use. The program requires a 20% match from the local sponsor. Acquisition projects require a 50% match.
Department of Environmental Protection (DEP)	Growing Greener Program	These funds can be used for farmland-preservation projects; preserving open space ; cleanup of abandoned mines, watershed planning; recreational trails and parks and other land use projects. Eligible applicants include non-profit groups, counties, and municipalities . A local match is encouraged, but not required.
Pennsylvania Department of Transportation (PENNDOT)	Transportation Enhancements, Home Town Streets & Safe Routes to Schools Program	This cost reimbursement program funds projects within twelve categories including pedestrian and bicycle trails and bike lanes; purchase of scenic easements or scenic sites; and preservation of abandoned railway corridors. Any federal or state agency, county or municipal government, school district or non-profit can apply.
Private Developers	"Fee in Lieu of" Incentive Program	Developers may pay the Trail organization a fee to be used for acquisition, construction, maintenance of planned trail segments. Fee is in lieu of developer providing actual construction services or material costs.
Municipalities or County	Partnership	In-kind donation of construction materials, labor or services for the construction and maintenance of planned trail segments.

Trail Management

- County Management
 - Cumberland County creates new position to manage trail system
- Trail Commission
 - Full or Part time Executive Director
 - Representative from each Municipality
 - Non-Profit
 - Executive Director and staff

Implementation

- Plan was approved by all 4 municipalities – 2008
- Funding approved for bicycle lanes in the Borough of Carlisle and connector to the LeTort Nature Trail - 2009
 - Borough of Carlisle PennDOT Smart Transportation funded project
- Funding approved for improvements to LeTort Nature Trail – 2010
 - LeTort Regional Authority DCNR C2P2 funded project
- Application submitted by Borough of Carlisle for PCTI PennDOT funding for build out of bicycle lanes throughout the Borough - 2010