Central Park NC
Regional Bicycle Plan

Marc Allred
Jesse Day, AICP
Malinda Ford
Piedmont Triad Regional Council

Project History

Project Description

500+ miles of bicycle loop routes & signage through:

Anson,
Davidson,
Montgomery,
Moore,
Randolph,
Richmond,
Rowan &
Stanly Counties

- 2008 route mapping project
- 2011 regional bicycle plan
  - Map
  - Signed regional routes
  - Project identification
  - Implementation priorities

Central Park Bicycle Plan

Vision

Develop on-road and off-road cycling routes that connect communities and destinations to visitors across the Central Park region of North Carolina

Goals

- Support resource based recreation
- Diversify the regional economy
- Develop authentic tourism assets
- Promote the region as a destination

Project Timeline

Gear Up 2011-12

- Confirm/Revise/Refine Routes
- Establish Steering Committee

Plan 2012-13

- Signing Plan
- Project Priorities

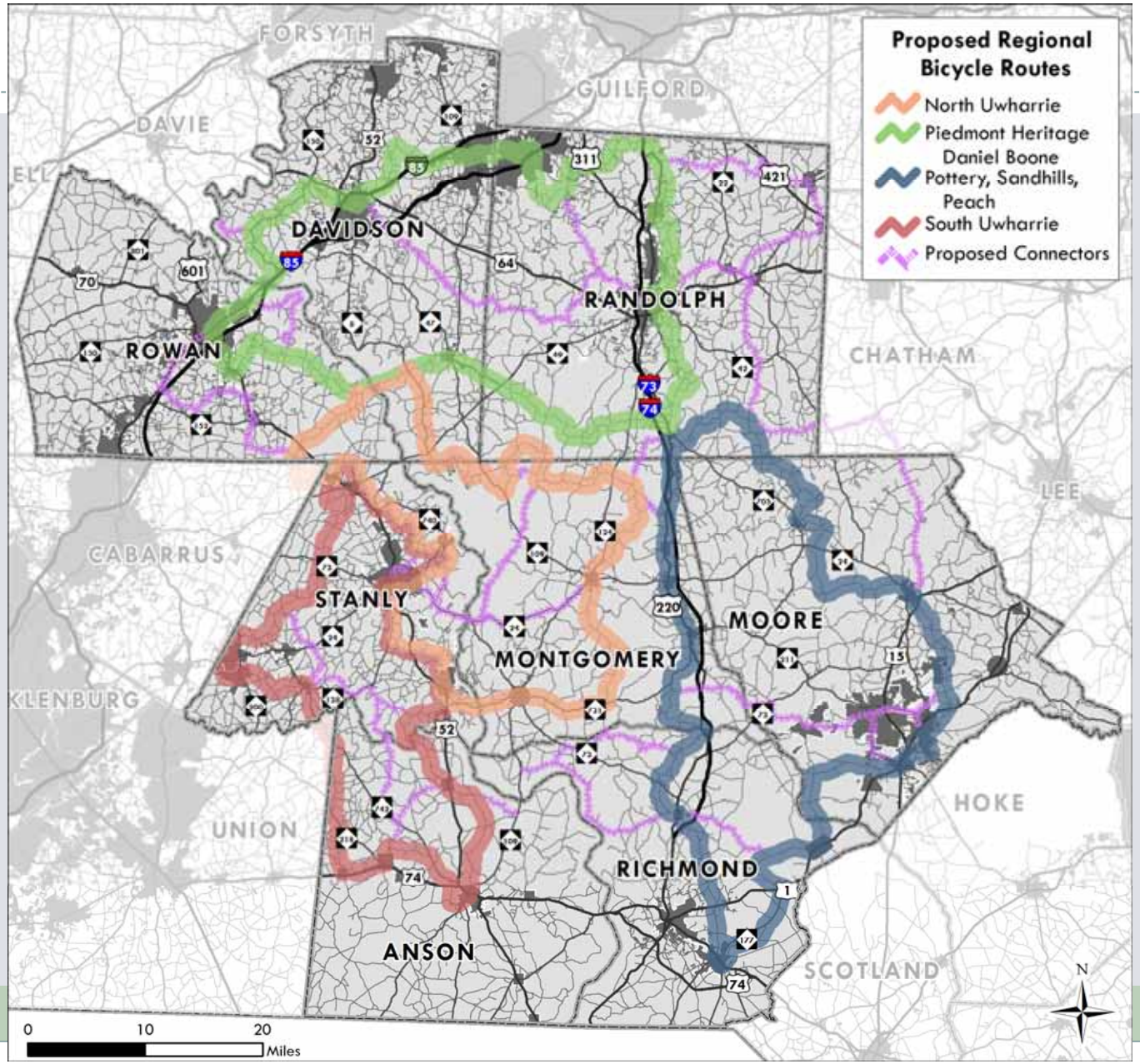
Outreach 2012-13

- Field Work
- Public Outreach
  - Local Officials Events
    - Presented to: TAC/TCC for PTRPO; Rocky River RPO; Lumber River RPO, High Point MPO
- Rides in May 2013?

Adopt & Sign 2013-14

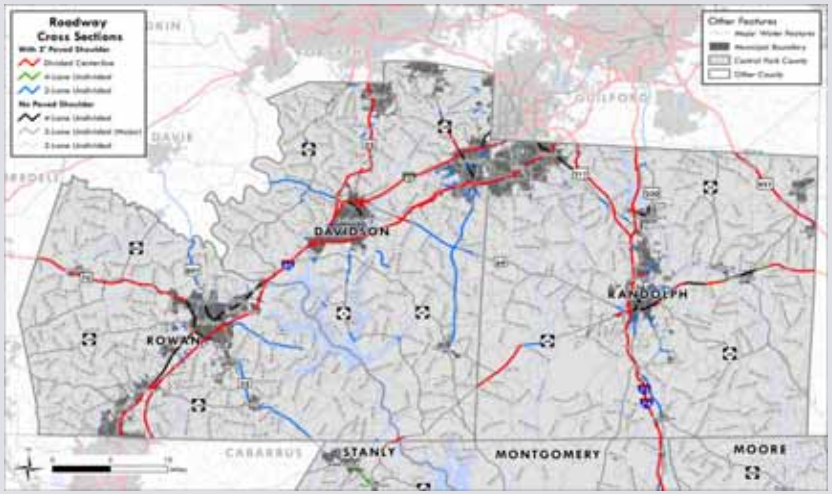
- Final Plan Document
- Signing Plan
- Print & Digital Map
- Plan Adoption (RPOs and MPOs)
- Implementation Strategy

Central Park Bicycle Plan
On – Road Routes



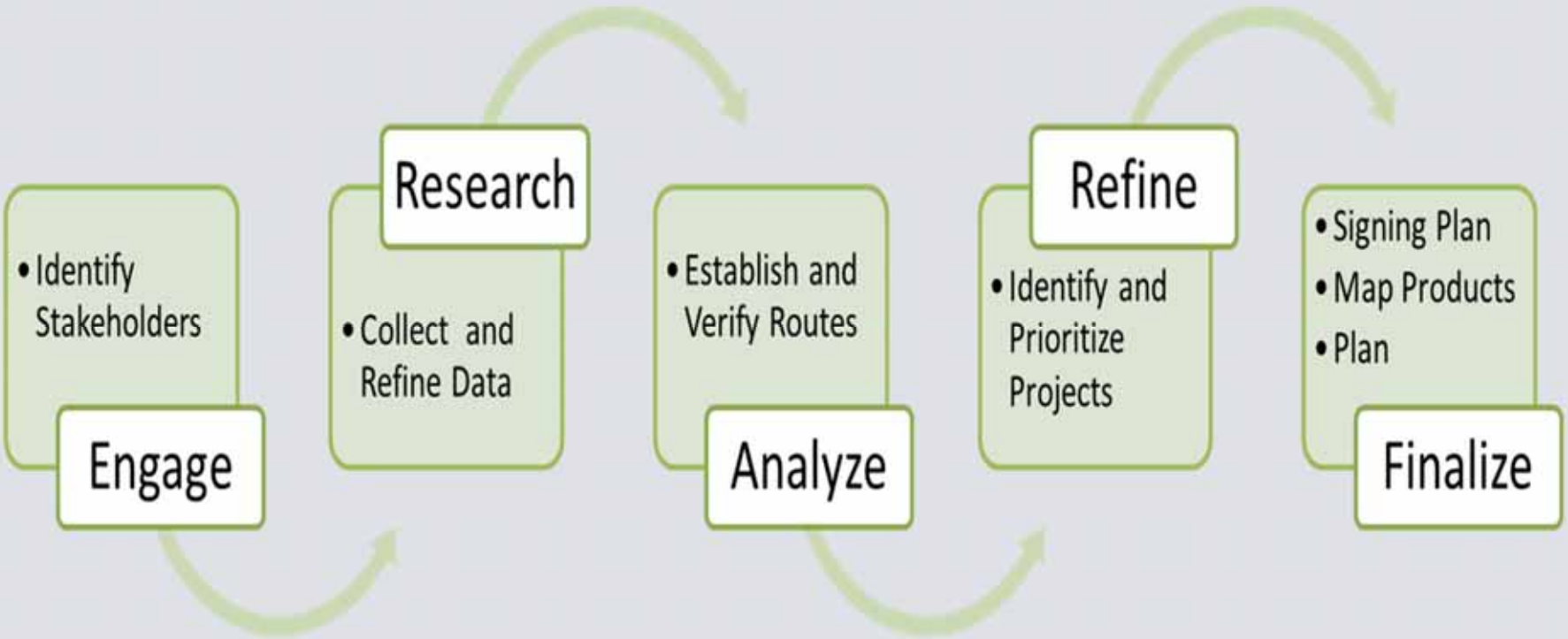
Regional Bicycle Plan Products

- Plan Document & Process
- Public Involvement Strategy
- Project Segmentation Database
- Signing Plan
- Brochure Map
- Other Opportunities



Plan Document & Process

- Regional plans take longer, write the plan document as you go



Public Involvement Strategy

- Plan for several meetings with various public and private stakeholders
- Conduct surveys and events to raise awareness and build interest

Stakeholder Input Timeline

- December 2011 Regional Kick-Off Meeting
- Spring 2012 County Task Force Meetings
- December 2012 Regional Update Meeting
- Winter 2012-13 Presentations to MPOs and RPOs
- Spring 2013 Regional Off-Road Trail Meeting
- Spring 2014 County and RPO/MPO Adoption Hearings

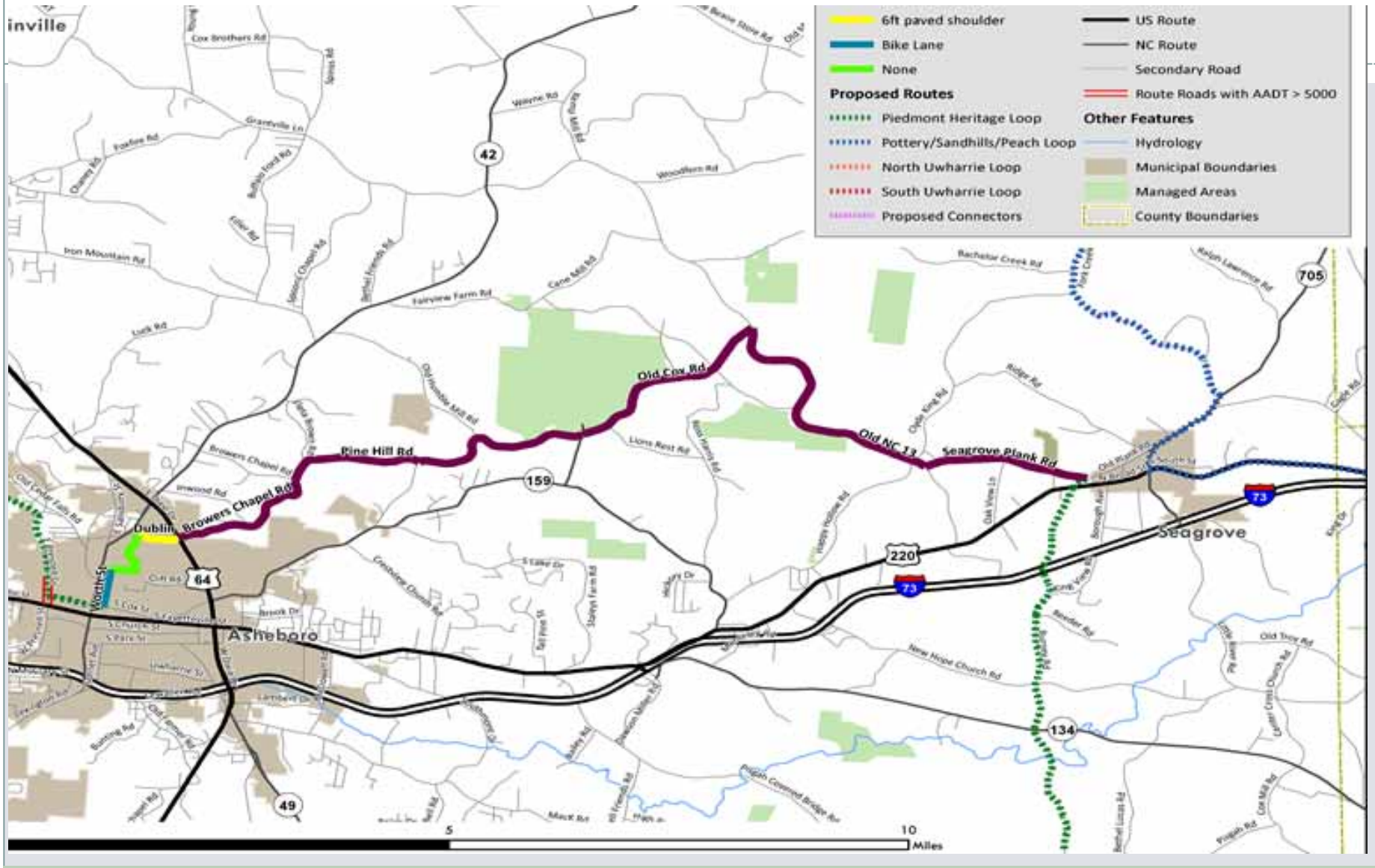
Project Segmentation

- Logical segments for bicycle facility improvement
  - Speed limit changes
  - Traffic volume changes
  - Land uses
  - Does ROW or curb/ditch placement support improvement
  - Other considerations (crashes, travel lanes & width)
- NCDOT maintains a database of all State maintained roads
  - Good starting point for segmentation
  - Needs verification, not 100% accurate
- Create logical combination of segments for plan document (e.g. from town to County line or river)

Project Segmentation

Route Segment #1—Piedmont Heritage/Daniel Boone Loop	Seagrove to Asheboro
Current Conditions: Starting with Seagrove Plank Rd in Seagrove and going to Dublin Rd/US 64 intersection in Asheboro, is 2-lane rural roads with low AADT traffic and shoulders that are all grass. Speed limit is 55 through this stretch and most of ROW is already obtained except for 0.2 mile length of Browers Chapel Rd from Pine Hill Rd to Dublin Rd. There are no connections to trails or schools, but there was a bike crash on Old Cox Rd near Pine Hill Rd. When crossing US 64 onto Dublin Rd, the nature of the route changes from rural to urban residential. AADT range goes from low to medium and high ranges. Surface width goes from 18 feet to 30 feet on the local roads where on-street parking is permitted. And the speed limit is 35. No TIP projects are currently scheduled for this route.	Length: 14.7 Miles Roads: Dublin Rd, Pine Hill Rd, Browers Chapel Rd, Old Cox Rd, Seagrove Plank Rd, Old NC Hwy 13, Worth St, Greensboro St, Cox St Justification: Route segment #1 connects Seagrove to Asheboro. It also gives a direct connection to the North Carolina Zoological Park. Parts of route segment 1, are either NC Bicycle 6 or Randolph Bicycle Route #1. Recommendation: • Bike lane for Worth, Greensboro, and Cox St. • 6 foot paved shoulder for Dublin Rd. • 4 foot paved shoulder for the rest Priority: Low.

Project Segmentation



Project Segmentation

Route Segment #1—Piedmont Heritage/Daniel Boone Loop | Seagrove to Asheboro

Road Name	From Street	To Street	Distance (Miles)	Existing Condition	Facilities Improvement	Estimated Cost
Seagrove Plank Rd	Seagrove Plank Rd Ext	Old NC Hwy 13	1.8	Two lane road 20 feet in width; 4' grass shoulder; speed limit of 55 mph.	4ft paved shoulder	
Old NC Hwy 13	Grove Plank Rd	Old Cox Rd	3.2	Two lane road 22 feet in width; 3' grass shoulder; speed limit of 55 mph.	4ft paved shoulder	
Old Cox Rd	Old NC Hwy 13	Old Cox Rd - Speed Change	4.2	Two lane road 32 feet in width; 8' grass shoulder; speed limit of 55 mph.	4ft paved shoulder	
Old Cox Rd	Old Cox Rd - Speed Change	Pine Hill Rd	0.3	Two lane road 20 feet in width; 10' grass shoulder; speed limit of 55 mph.	4ft paved shoulder	
Pine Hill Rd	Old Cox Rd	Pine Hill Rd - Speed Change	0.1	Two lane road 20 feet in width; 6' grass shoulder; speed limit of 55 mph.	4ft paved shoulder	
Pine Hill Rd	Pine Hill Rd - Speed Change	Pine Hill Rd - Speed Change	0.2	Two lane road 24 feet in width; 9' grass shoulder; speed limit of 35 mph.	4ft paved shoulder	
Pine Hill Rd	Pine Hill Rd - Speed Change	Browers Chapel Rd	1.3	Two lane road 20 feet in width; 6' grass shoulder; speed limit of 55 mph.	4ft paved shoulder	
Browers Chapel Rd	Pine Hill Rd	Dublin Rd	1.7	Two lane road 20 feet in width; no shoulder; speed limit of 55 mph.	4ft paved shoulder	
Dublin Rd	Browers Chapel Rd	Parkview St	0.5	Two lane road 18 feet in width; 6' grass shoulder; speed limit of 35 mph.	6ft paved shoulder	
Parkview St, Ridgecrest Rd	Dublin Rd	Worth St	0.8	Two lane road; town maintained.	None	
Worth, Greensboro, Cox Street	Ridgecrest St	E Presnell	0.5	Two lane road 30 feet in width; has a concrete curb; speed limit of 35 mph.	Bike Lane	
		Total In Miles:	14.7			

Signing Plans

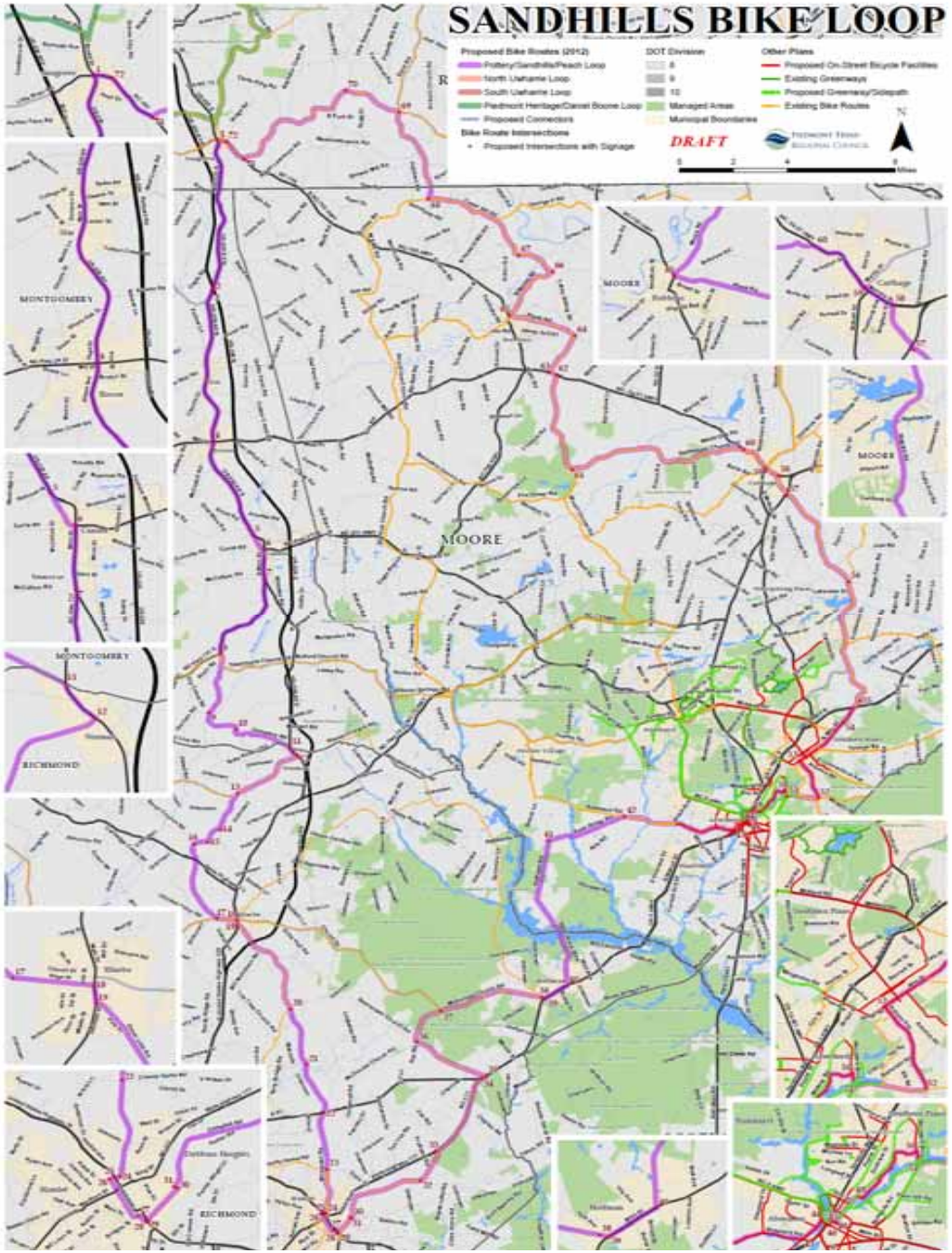
Pottery/ Sandhills/ Peach Loop

155 miles

4 counties

1 NCDOT division

499 signs



Signing Plan

Division 9 Sign Plans – Piedmont Heritage Daniel Boone Loop

Overview

The Piedmont Heritage Daniel Boone Loop covers 152 miles in 3 counties. The route highlights the heritage of manufacturing in the Piedmont, while also taking bicyclists across the Yadkin River where Daniel Boone was alleged to have lived. The cycling route is located in the northern area of Central Park passing through several small cities and towns, villages, farms and forest land.

General Signing Instructions

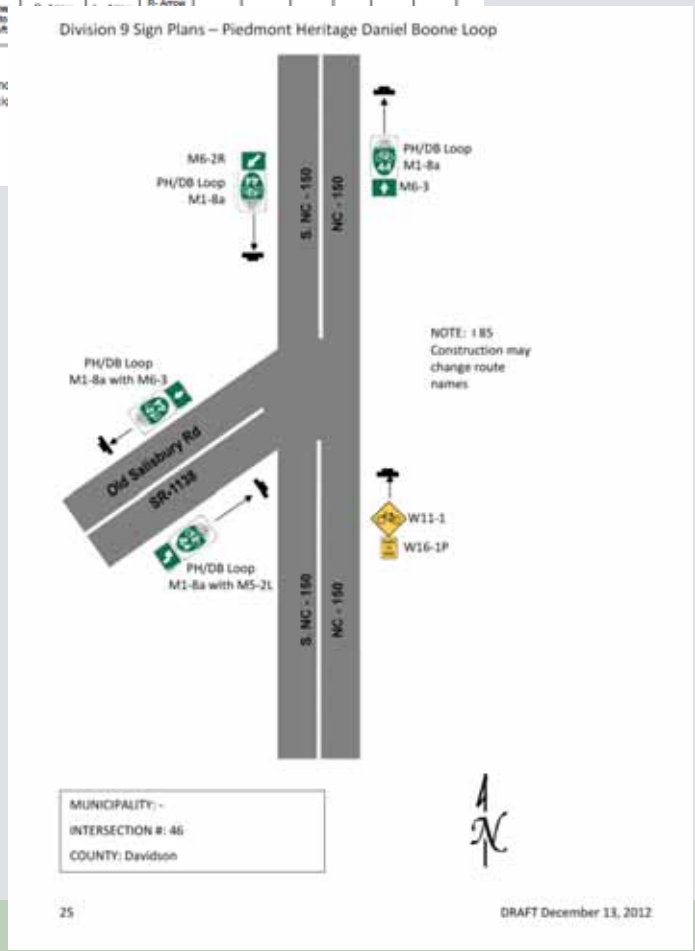
The signage plan provides general intersection layouts and sign locations. The dark green bicycle route signage is intended to be signed close to the intersections and may take advantage of existing sign posts. The share the road signs should be placed further away from the intersection to; 1) reduce sign clutter at the intersection with the route signage and 2) warn motorists in higher speed locations or where curve geometrics warrant signage.

Signs Used in this Plan and Totals

Sign Graphic															
MUTCD Code	M1-8a	M6-3	M6-1	M5-1 L	M5-1 R	M5-2 L	M5-2 R	M6-2L	M6-2R	M6-4	W11-1	W16-1P	W10-12	R5-6	W16-2aP
# of Signs	152	77	61			4	4	2	2	2	36	34	2	1	2
Notes	Final wording TBD for PH/DB			L - Arrow needs to point left	R- Arrow needs to point right	L - Arrow needs to point left									

Field Notes/Additional Information

Additional Share the Road signs (W11-1) are available from the Piedmo
roadways or where safety issues are observed during signage installatio



- Inventory of signs by route, NCDOT division and municipality
- Takes advantage of existing structures
- May overlap existing local routes

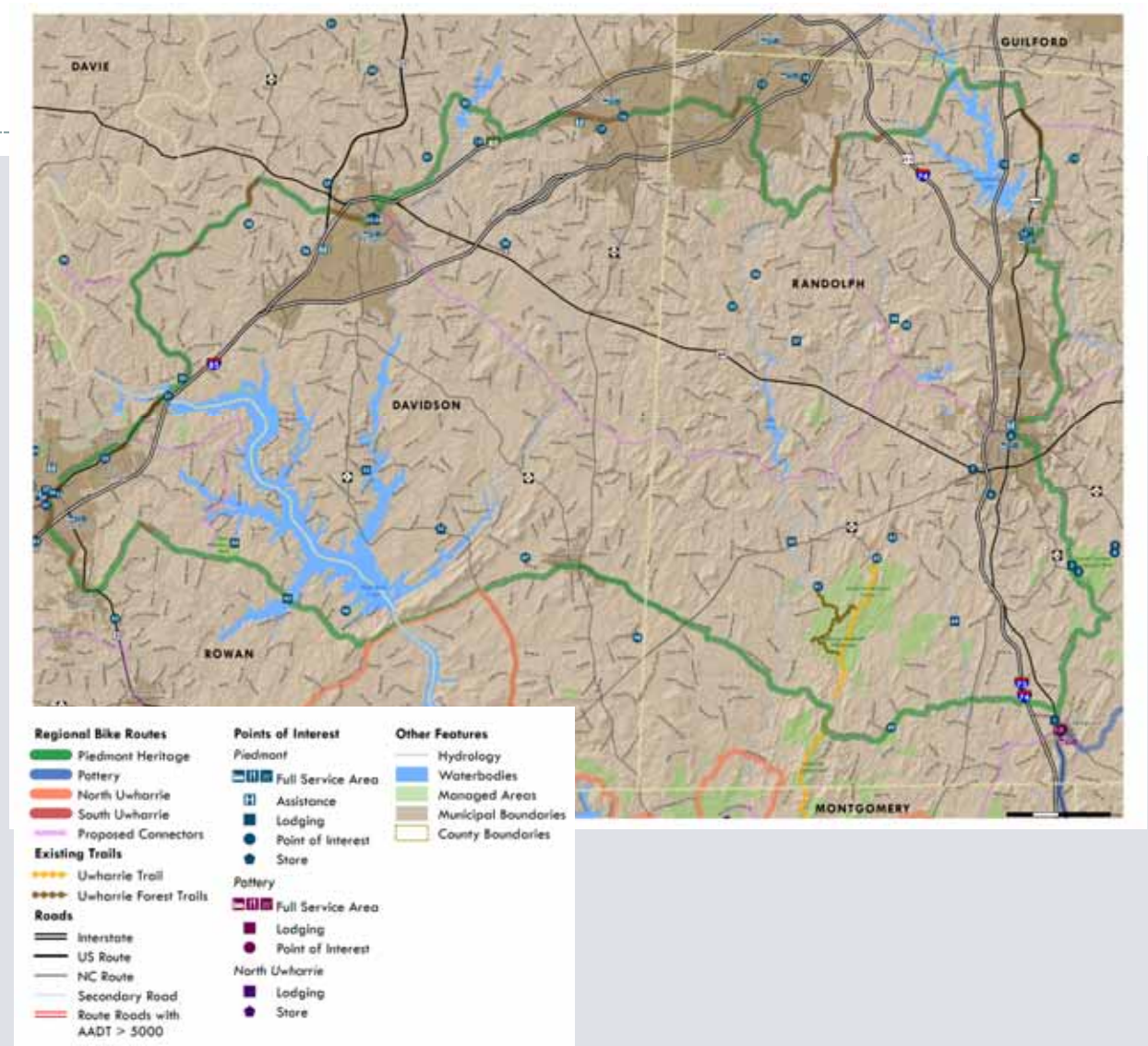
Brochure Map

Piedmont Heritage/Daniel Boone Loop

-What and how to display points of interest?

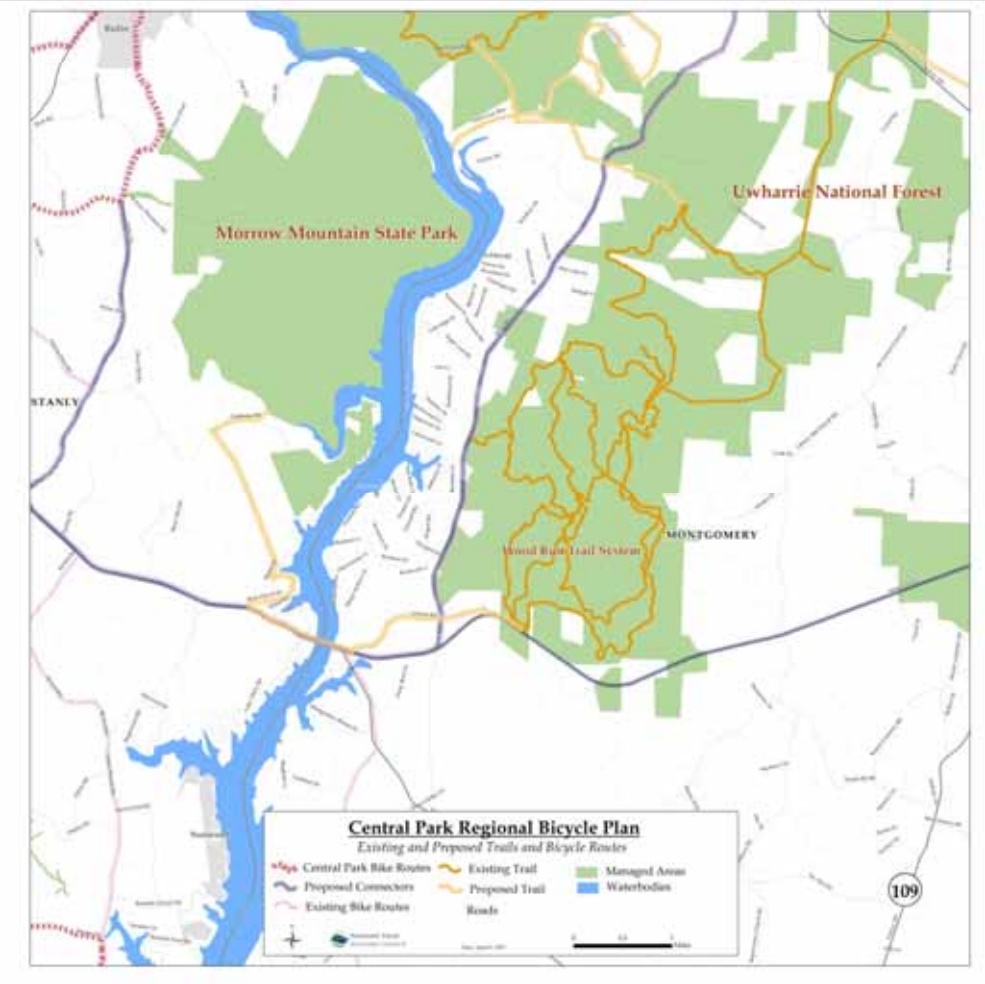
- Database for print map and online map

- Decided to produce in house (hope it is the right decision)



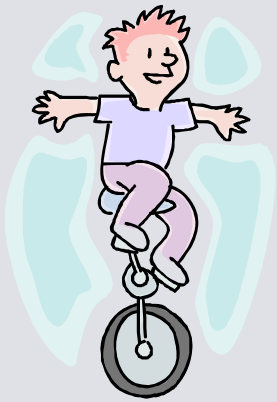
Mountain Bike Trail Opportunities

- Uwharrie National Forest and Morrow Mountain State Park Vision
- Uwharrie Trail Project Comprehensive Plan
- Swift Island Bridge Preservation



Funding Opportunities - Recreational

- Recreational Trails Program (Federal)
  - November pre-application deadline with 25% match required
  - $200 K
- PARTF (State)
  - 1:1 matching grants for recreational projects
- Bike Belong Foundation
  - Bicycle industry funded
  - Strong advocacy organization needed on the ground



Funding Opportunities – Health Focus

- Kate B. Reynolds Funding (Private)
  - Capital Projects Grants for Tier 1 Counties – $100-150K
  - August and February Deadlines
- Community Transformation Grant Funding (Federal)
  - $7.4 million to NC Health Director Regions over 5 yrs (non-infrastructure)
- Blue Cross Blue Shield Foundation (NC)
  - Healthy Active Communities equipment grants
  - Range of projects funded

Communities Transforming
For a healthier North Carolina

Lessons Learned

- Take route photo survey with GPS unit, good investment to have the combination
- Plan out your project segmentation database and be prepared to spend a lot of time on this
- Use your stakeholders to help verify points of interest, best routes and implementation strategy
- Have fun!

Questions?

PTRC Project Team

Marc Allred
mallred@ptrc.org

Jesse Day
Jday@ptrc.org

Malinda Ford
mford@ptrc.org

336-294-4950