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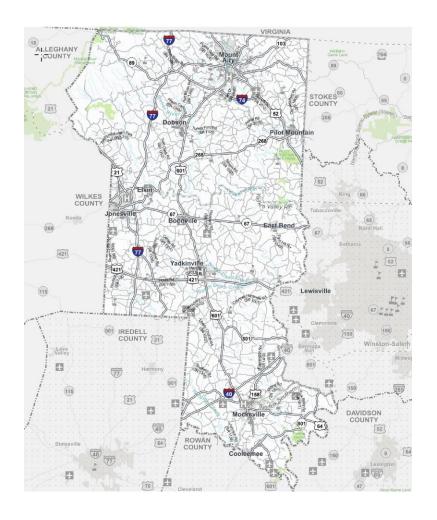
NCDOT – Transportation Planning Division, Foothills Rural Planning Organization and Northwest Piedmont Rural Planning Organization

July 31, 2024

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Outline

- NC Rural Planning Org. 101
- Long-Range Transportation
 Planning in NC
- Initial Regional CTP Approach
- Benefits/Challenges
- Take Aways
- Future CTPs?



North Carolina – Rural (Transportation) Planning Organizations

Formed in 2002-2003

Currently, 18 RPOs across North Carolina

N.C.G.S. 136-212 identifies the following four primary duties for RPOs:

- Developing, in cooperation with the Department (NCDOT), long-range, local and regional multimodal transportation plans;
- Providing a forum for public participation in the transportation planning process;
- Developing and prioritizing suggestions for transportation projects the organization believes should be included in the Statewide Transportation Improvement Program (STIP); and
- Providing transportation-related information to local governments and other interested organizations and persons.

Rural (Transportation) Planning Organizations

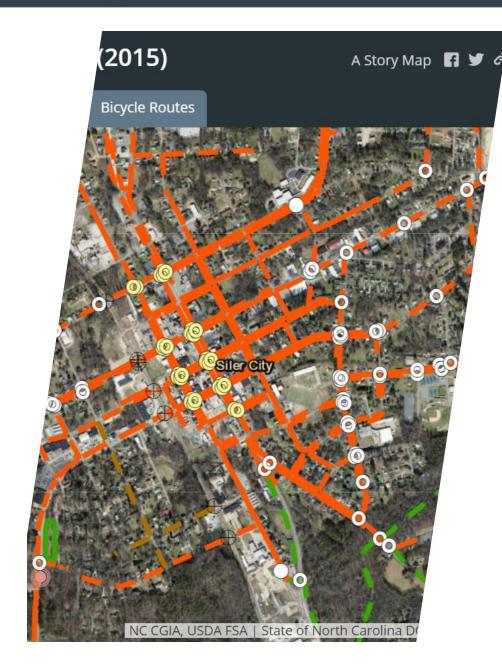


- ➤ Annual budget from around \$125,000-180,000, depending on population and number of counties
- Develop a Planning Work Program each spring to guide spending for upcoming year – budget primarily pays for staff time/resources
- Active participant in North Carolina Association of RPOs, which meets quarterly



What do North Carolina's RPOs do?

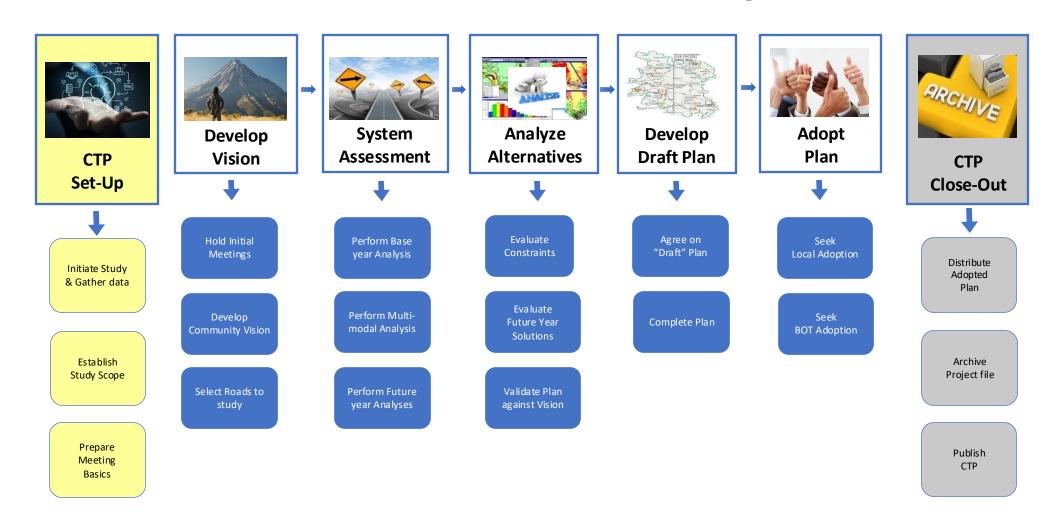
- ► Long-range Transportation Planning
- ► Transportation Funding Prioritization
- Providing input/feedback during project development
- Serving as a liaison between NCDOT and local governments
- Participating in various statewide initiatives
- Administration of program



Long Range Transportation Planning

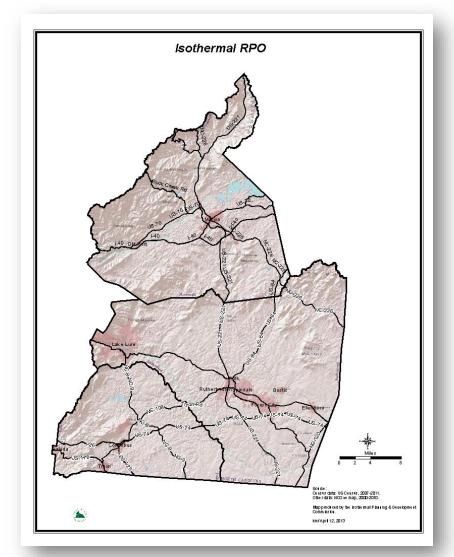
- ➤ Comprehensive Transportation Plans (CTPs) these are plans that aim to identify likely problems and agreed-upon solutions for expected transportation conditions over the next 20-30 years, and are usually done at the county level
 - State law requires CTP
 - CTP also requires a local land development plan
 - RPO role is to participate in and help guide the process
 - NCDOT typically takes lead technical role
 - Adoption of plan is by local cities/counties, and by NCDOT
- Bicycle and Pedestrian Plans these are developed locally by counties and municipalities (with or without NCDOT funding), or regionally by NC RPOs
- ► Transit Plans these are developed by each county's transit agency
- Corridor Studies these are more detailed plans on specific improvements along a particular corridor, and could be led by NCDOT, a local government, or an MPO or RPO

CTP Phases/Steps



Regional CTP History

- NCDOT Initiative
- Improve efficiencies (one study versus multiple)
- Similar Timeframes
- Foothills (formerly Isothermal) and Northwest Piedmont (Davie, Surry, and Yadkin Counties)
 RPOs agreed to be the pilots



History – Foothills (formerly Isothermal)

- The region had 5 CTPs
 - McDowell Co. 2013
 - Marion 2015
 - Polk Co. 2008
 - Rutherford Co. 2018
 - Lake Lure/Chimney Rock Village –
 2014

2015 City of Marion Comprehensive Transportation Plan















2018 Rutherford County Comprehensive Transportation Plan



Study Report for Polk County
October 2008

History - Davie-Surry-Yadkin Co.

- The region had 6 CTPs
 - Davie Co. 2012
 - Mocksville 2011
 - Surry Co. 2012
 - Elkin-Jonesville 2012
 - Yadkin Co. 2014
 - Yadkinville 2010



NCDOTATE

2014 Yadkin County Comprehensive Transportation Plan











Comprehensive Transportation Plan



Davie County

June 2012



NCDOT TPB



Comprehensive Transportation Plan



Surry County
April 2012





Town of Mocksville

October 2011





Comprehensive Transportation Plan





Towns of Elkin and Jonesville

July 2012



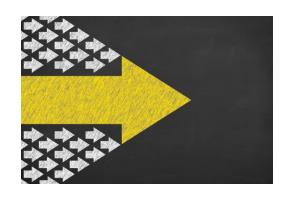
Comprehensive Transportation Plan

Regional CTP Context

- Foothills
 - Relatively distant from two smaller MPO regions (Asheville, Gastonia)
- Davie-Surry-Yadkin
 - Just west of the Triad Region
 (Greensboro, Winston-Salem,
 High Point)

County	2020 Census Population	2022 Population Estimates
McDowell	44,471	44,369
Polk	19,363	19,559
Rutherford	64,301	64,176
Total	128,135	128,104
	2020 Census	2022 Population
County	2020 Census Population	2022 Population Estimates
County Davie		•
_	Population	Estimates
Davie	Population 42,818	Estimates 43,694

Initial Approach



Foothills

- Bring 3 Counties together, deep dive on Polk County
- Consideration of other regional multi-model plans adopted since previous CTPs (Isothermal Regional Bicycle Plan, Iocal plans)

Davie-Surry-Yadkin

- Bring 3 Counties together, validate previous information (Previous CTPs were adopted ~ around the same time period)
- Consideration of other regional multi-modal plans adopted since previous CTPs (Yadkin Valley Regional Bicycle Plan local plans)

How – Foothills

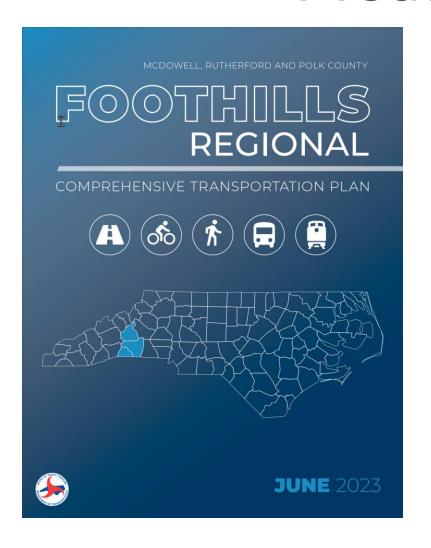
- Regional CTP Steering Committee and Polk County Sub-Steering Committee
- Vision, Goals, & Objectives (3 Counties, Polk specific)
- Public Survey
 - Online via MetroQuest for all 3 ~200
 - Polk Co. mailed ~ 8,000 surveys
 to all (tax record) residential addresses, >16% return rate

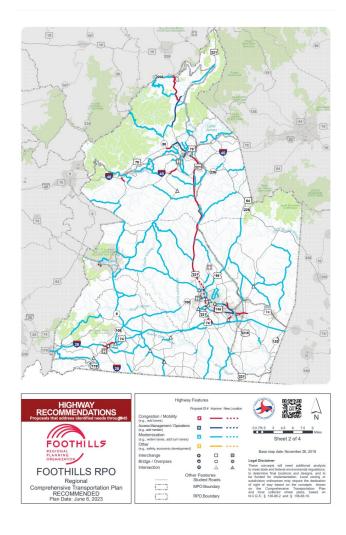


How – Foothills (continued)

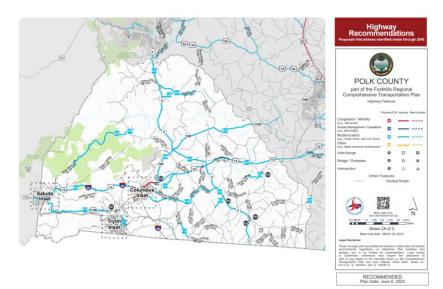
- CTP Public Workshops after Initial Draft CTP
 Recommendations were developed (3 in Polk Co and 1 in each of the other 2 counties) hybrid option available
- Updates to recommendations based on public feedback/steering committee consensus
- Public Hearings and Local/RPO/NC BOT Adoptions (Adopted June 6th by NC Board of Transportation)

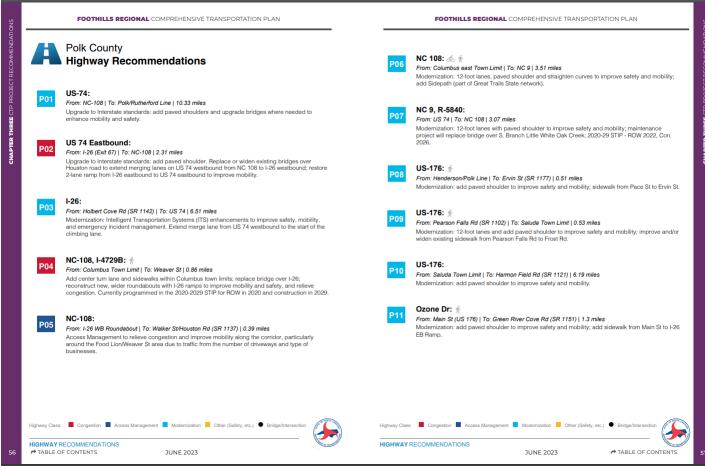
Products – Foothills





Products – Foothills (continued)





Products – Foothills (continued)



		Other	· · · · · · · · · · · · · · · · · · ·		
Proposal At A Gla	roposal At A Glance		2017 Base Year	2045 Future Year	
Highway Class	Access Management &	Improved Route	<u>Existing</u>	Without Proposal	With Propo
	Operation	Facility Type	Major Thoroughfare	Major Thoroughfare	Major Thoroug
Facility Type	Major		2-lane	2-lane	2-lane
	Thoroughfare	Travel Lanes	2	2	2
	2-lane	Volume (vpd)	14000	15300-18700	15300-1870
Typical Section	03 B	Capacity (vpd)	13200	13200	13200
Section Options	03 B				
Length (miles)	0.39				
Existing ROW (feet)	60				
Safety Risk Score	67				

Capacity Data:	
Facility will be Approaching Capacity (>80%)	2017
Facility will be Over Capacity (>=100%)	2017

Project Sheets



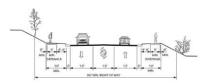
Project Sheets 02/15/2023

NC-108 Foothills RPO Regional CTP

Typical Section Options:

TYPICAL SECTION No. 3B

2 LANE WITH TWO WAY LEFT TURN LANE, CURB & GUTTER, AND SIDEWALKS



POSTED SPEED 25-45 MPH

Multimodal Considerations

At least some part of this recommendation includes proposed sidewalk.

Vision and Goals

The aim of the Foothills Regional CTP is to provide a safe, efficient, well-connected, accessible, multi-modal transportation system that enhances the mobility of its residents, supports economic development, sustainable land use patterns and a healthy lifestyle while preserving the region's natural beauty and heritage.

This recommendation accomplishes this by enhancing mobility, which will provide a safer and more efficient transporation system.

Public Involvement and Survey Response

During the initial survey, the segment of NC 108 within Columbus by itself was commented on 66 times, noting a to area(s) zoned: Highway Commercial, Central Business need for bike/ped infrastructure, addressing congestion District. Note: the town of Columbus is as of July 2021 in near the shopping centers, and overall safety. Other key the process of creating a new Unified Development intersections along this segment: the intersection at Weaver St/Food Lion shopping center was commented to change. on a further 11 times; the intersection at Walker St/Houston Rd was commented on a further 11 times.

Impacts to Natural and/or Human Environment Within a 150-foot radius of this recommendation, the following human and/or natural environment features

The Broad River watershed

Title VI Considerations

This recommendation passes through one or more Census Blocks containing a concentration of traditionally under served populations. The following were identified:

- Hispanic/Latino population between 5 and 25%.
- Two or More Race population between 5 and
- A population of those aged 65 or older between 25 and 50%.
- A population of those living in a household without a motor vehicle between 15 and 20%.
- A population of those living below the poverty line between 5 and 15%.

Relationship to Land Use

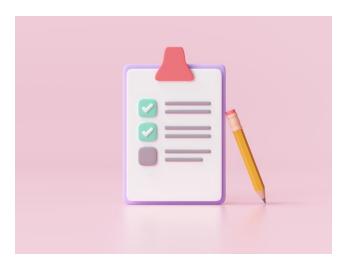
Per the town of Columbus Land Use Plan (2009), this recommendation passes through or is directly adjacent Ordinance (UDO), and land use on this corridor is subject

Between January 2014 and December 2018, there were 24 total crashes on the half-mile segments containing this recommendation. There were no fatal or severe injury crash(es), 3 moderate or minor injury crash(es), and 21 property damage only crash(es).

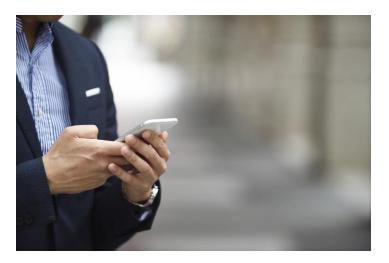
<u>Deficient Bridges</u> There are no structurally deficient or functionally obsolete bridges along this recommendation.

How - Davie-Surry-Yadkin

- Regional CTP Steering Committee
- Vision, Goals, & Objectives (for the entire region)
- Public Survey
 - Online via MetroQuest for all 3 Counties, ~ 300-400







How - Davie, Surry, Yadkin (continued)

- CTP Public Workshops after Initial Draft CTP
 Recommendations were developed (1 focused on each
 separate county virtual option due to COVID
 restrictions)
- Updates to recommendations based on public feedback/steering committee consensus
- Public Hearings and Local/RPO/NC BOT Adoptions (local finished in late 2023, Board Adoption soon)

Benefits

- Potential time efficiencies
- Provides cross-collaboration, other stakeholders/interest groups/SMEs
- Coordination on truly regional (2+ county) projects and interests
- More uniform product (same year, common data sources/usage and analysis approach) for regional area
- Education to officials/staff/public of other regional transportation plans

Challenges



- More jurisdictions to coordinate and collaborate with at one time
- Longer time commitment
- Focus can sometimes shift to individual counties and/or modes and lose the attention of the larger committee
- Difficulty in reaching consensus at all levels with a larger, potentially more diverse group with varying interests, which may have existing plans that are not in alignment
- Length of time since last CTP adoption could impact level of analysis needed (Polk County v/s other two)

Takeaways



- Can be flexible (high level and/or deeper dives)
- Good to have larger steering committee to foster collaboration across boundaries
- Innovative aspects survey distribution, graphical representations
- Continuity is an issue (team member longevity)
- Good to have elective officials on committee with more sensitive issues, aware during the development, regular updates, local dynamics
- Schedule with cushion in mind (staff/elected official turnover, Regional Travel Demand Models, other events)

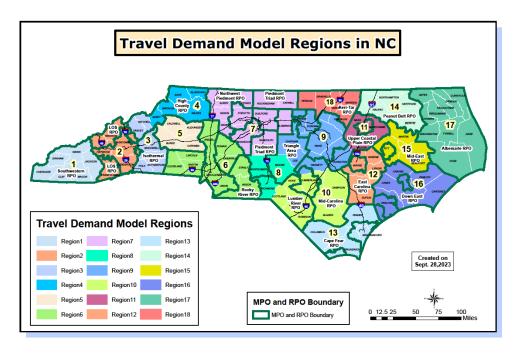
Other Considerations



- Consider regional Travel Demand Model development. Both regional plans used existing models-where they existed. For example: Polk County updated only the SE data and it wasn't a model.
- Based on updated NC State Law, Regional CTPs may be easier to do now than in the past, because all places that have zoning need to have land use maps.
- Important for steering committee to be willing to work together.
- Also, consider educating all parties about CTPs early and bring to the locals often. For Polk County, we presented to the County Commissioners multiple times before they adopted.

Future Regional CTPs?

- North Carolina has a Statewide
 Travel Demand Model as well as 3
 multi-MPO models (expanding to cover surrounding rural county)
- Regional Travel Demand Models
 - Region 17 almost complete (includes seasonal factors)
 - Regions 1,16, 18 under development
- Kerr-Tar RPO counties (Region 18)?
 - Franklin, Granville, Person, Vance, Warren



Contacts

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Search "NCDOT CTP"

https://connect.ncdot.gov/projects/planning/Pages/ CTP-Details.aspx?study_id=McDowell-Polk-Rutherford%20(Foothills)%20Regional%20CTP https://connect.ncdot.gov/projects/planning/ Pages/CTP-Details.aspx?study_id=Davie-Surry-Yadkin_Regional_CTP

Quick Links

https://studio.metroquest.com/#/Project?customer=365&project=6340 (Anson Co)

https://connect.ncdot.gov/projects/planning/TPBCTP/McDowell-Polk-Rutherford%20(Foothills)%20Regional%20CTP/Foothills_CTP_REPORT.pdf

https://connect.ncdot.gov/projects/planning/TPBCTP/Davie-Surry-Yadkin_Regional_CTP/DSY-CTP-Report.pdf