

**Governing Board of the Sandhills Metropolitan Planning Organization (SMPO)**  
**Wednesday, May 15, 2024, 10:00 AM**  
**Community Center, 210 Rattlesnake Trail, Pinehurst, North Carolina**  
**Zoom link (please email [dwillardson@vopnc.org](mailto:dwillardson@vopnc.org) if planning to join via Zoom):**  
<https://us06web.zoom.us/j/85883104827?pwd=MTDDHX6CfRYBleoyRiyd1BKXbIODUM.1>

- 1) **Welcome**
- 2) **Ethics Reminder**
- 3) **Public Comments**
- 4) **Adjustments / Approval of the Agenda**
- 5) **Approval of April 17, 2024 Governing Board Minutes**
- 6) **Report from TCC Chair**
- 7) **Division 8 Report including US Open Plans and Traffic Circle Presentation**
- 8) **Review MOU Amendment Progress of Adoption**
- 9) **Approve FY24 & FY25 UPWPs**
- 10) **Receive and Review Potential Projects for Future Prioritization**
- 11) **Review MTP/CTP Development Process**
- 12) **Other Business**
- 13) **Next Meeting Date**  
June 19, 2024, 10:00 AM; Pinehurst Village Hall, Assembly Hall
- 14) **Adjourn**



## NORTH CAROLINA STATE ETHICS COMMISSION

### SAMPLE<sup>1</sup>

#### **ETHICS AWARENESS & CONFLICT OF INTEREST REMINDER**

(to be read by the Chair or his or her designee at the beginning of each meeting)

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In accordance with the State Government Ethics Act, it is the duty of every [Board] member to avoid conflicts of interest.

Does any [Board] member have any known conflict of interest with respect to any matters coming before the [Board] today?

If so, please identify the conflict and refrain from any participation in the particular matter involved.

Rev 12-13-12

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<sup>1</sup> N.C.G.S. §138A-15 (e): “At the beginning of any meeting of a board, the chair shall remind all members of their duty to avoid conflicts of interest under [Chapter 138A].” There is no set language required by the Act. Specific language can and should be tailored to fit the needs of each covered board as necessary.



**Sandhills Metropolitan Planning Organization (SMPO)**  
**Minutes for the Regular Meeting of April 17, 2024**  
**Assembly Hall**  
**395 Magnolia Road**  
**Pinehurst, North Carolina**  
**10:00 a.m.**

<p><b>Village of Pinehurst:</b> Voting Member: Patrick Pizzella</p> <p><b>Town of Southern Pines:</b> Voting Member: Taylor Clement, Chair</p> <p><b>Town of Aberdeen:</b> Voting Member: Robert Farrell *</p> <p><b>Village of Foxfire:</b> Voting Member: Janice Gregorich</p> <p><b>Village of Whispering Pines:</b> Voting Member: Pamela Harris</p>	<p><b>Town of Taylortown:</b> Voting Member: Sidney Gaddy</p> <p><b>Town of Pinebluff:</b> Voting Member: Ronald McDonald, Vice Chair</p> <p><b>Moore County</b> Voting Member: Frank Quis</p> <p><b>NCDOT</b> Board Member At-Large: Pat Molamphy</p>
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\* = Absent

Town of Aberdeen Voting Alternate, Ms. Teresa Beavers, attended in place of Voting Member, Mr. Robert Farrell.

Approximately 25 audience members in attendance.

- I. Welcome.**  
Chair Clement welcomed those in attendance and called the meeting to order at 10:00 a.m.
- II. Public Comments.**  
None.
- III. Adjustments / Approval of the Agenda.**  
Upon a motion by Board Member Pizzella, seconded by Board Member Molamphy, the Governing Board unanimously approved with revisions the April 17, 2024, Regular Meeting agenda by a vote of 9-0. Revision: Move Item #6 (Discussion on Status of Foxfire Membership) to the position of Item #5 (Adopt Public Participation Plan).
- IV. Approval of Minutes.**
  - a. Approval of SMPO Meeting Minutes**
    - March 20, 2024, Regular Meeting

Upon a motion by Board Member McDonald, seconded by Board Member Molamphy, the Governing Board unanimously approved the past meeting minutes as listed by a vote of 9-0.
- V. Discussion on Status of Foxfire Membership.**  
The Board discussed the Village of Foxfire being removed from the SMPO as a Member Jurisdiction and the Village of Foxfire now being represented by Moore County.

No representatives from the Village of Foxfire were present.

**VI. Adopt Public Participation Plan.**

Mr. Doug Willardson, Assistant Village Manager for the Village of Pinehurst, reviewed an updated Public Participation Plan highlighting changes made to the document since the last SMPO meeting of March 20, 2024.

Upon a motion by Board Member Pizzella, seconded by Board Member Molamphy, the Governing Board unanimously approved with revisions the Public Participation Plan by a vote of 9-0. Revisions: Section 3.1 – Remove names of individual municipalities and replace with blanket term “Member Jurisdictions” along with NCDOT, Section 4.9 – Clarify the language and correct a typographical error, and remove references to the Village of Foxfire.

**VII. Review Draft MOU Amendments.**

The Board discussed the process for adoption of the MOU by each Member Jurisdiction’s Governing Board and the fee structure for each Member Jurisdiction.

Upon a motion by Board Member Harris, seconded by Board Member Pizzella, the Governing Board unanimously approved the Memorandum of Understanding (MOU) as amended to reflect the Village of Foxfire being represented by Moore County and to present the final draft MOU to each Member Jurisdiction’s Governing Board for adoption by a vote of 9-0.

**VIII. Update on SMPO Director Recruitment.**

Mr. Jeff Sanborn, Village Manager for the Village of Pinehurst, updated the Board on the recruitment process for the SMPO director and stated there are two interviews scheduled with candidates next week.

Chair Clement asked Mr. Sanborn for an update on the recruitment that may be presented to each Member Jurisdiction’s Governing Boards and whether the Village of Pinehurst will continue advertising for the position. Mr. Sanborn stated an update will be provided for presentation and the position will continue to be advertised.

**IX. Review Draft FY24 UPWP.**

Mr. Doug Willardson, Assistant Village Manager for the Village of Pinehurst, reviewed the draft FY 2024 Unified Planning Work Plan (UPWP) highlighting the Budget section of the document.

The Board and Mr. Scott Walston, NCDOT, discussed how funding for the SMPO is allocated.

Mr. Willardson stated the FY 2024 UPWP would need to be advertised for the required 14-day Public Participation period once the Board agrees upon a draft.

Board Member Harris proposed revisions to pages 4 and 5 of the document to reflect changes in membership and to correct spelling errors. Mr. Willardson stated the proposed revisions would be made prior to posting the document for the Public Participation period.

The Board agreed to post the draft FY 2024 UPWP with the proposed revisions.

**X. Methodology for Prioritizing Future Projects.**

Mr. Doug Willardson, Assistant Village Manager for the Village of Pinehurst, introduced Mr. Matt Day, Central Pines Regional Council's Transportation Director, who reviewed a PowerPoint presentation outlining the methodology for how future projects are prioritized.

The Board asked Mr. Willardson to distribute the timeline and important methodology documents to Member Jurisdictions so they may prepare for the upcoming review of projects.

Upon a motion by Board Member Quis, seconded by Board Member Pizzella, the Governing Board unanimously approved adopting the same methodology used by the Central Pines Regional Council (CPRC) for prioritization of future projects by a vote of 9-0.

**XI. Division 8 Report**

Mr. Bryan Klobuchar, NCDOT Division 8 Engineer, reviewed an updated P7 Schedule for Division 8 projects and discussed how the Board may use the schedule to determine the timeline for each project.

The Board and Mr. Klobuchar discussed how information about the impact of the US Open on projects will be disseminated to the Public.

**XII. Amend Meeting Schedule to Adjust for Venue Change of May 15<sup>th</sup> Meeting**

Mr. Doug Willardson, Assistant Village Manager for the Village of Pinehurst, provided background on the reason for a change in venue.

Upon a motion by Board Member Pizzella, seconded by Board Member McDonald, the Governing Board unanimously approved the 2024 SMPO Meeting Schedule as amended to reflect the venue change to the Cannon Park Community Center – Multipurpose Room for the May 15, 2024, Regular Meeting by a vote of 9-0.

**XIII. Other Business.**

None.

**XIV. Next Meeting Date**

Regular Meeting, Wednesday, May 15<sup>th</sup>, 2024, at 10:00 a.m. in the Cannon Park Community Center – Multipurpose Room.

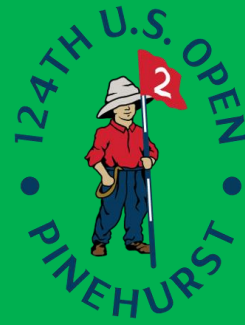
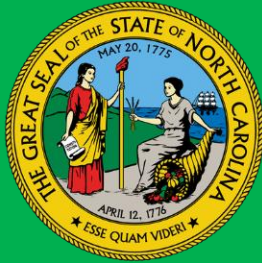
**XV. Motion to Adjourn**

Upon a motion by Board Member Beavers, seconded by Board Member Quis, the Governing Board unanimously approved to adjourn the Regular Meeting by a vote of 9-0 at 11:01 a.m.

Respectfully Submitted,

Shannon Konstantinou  
Village Clerk  
Village of Pinehurst

The Village of Pinehurst is a charming, vibrant community which reflects our rich history and traditions.  
Mission: Promote, enhance, and sustain the quality of life for residents, businesses, and visitors.  
Values: Service, Initiative, Teamwork, and Improvement.



# Driving for the Green

## NCDOT US Open Projects Initiative

Reuben Blakley, PE, NCDOT Division 8 Engineer

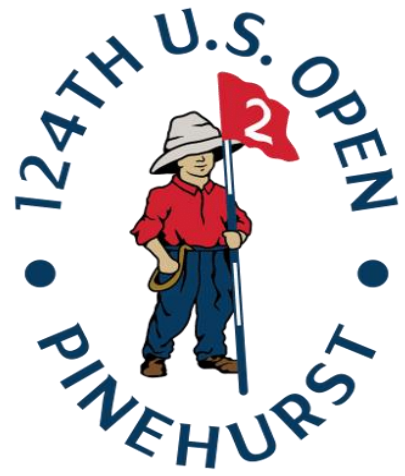
Travis Morgan, PE, NCDOT Division 8 Construction Engineer

May 1, 2024

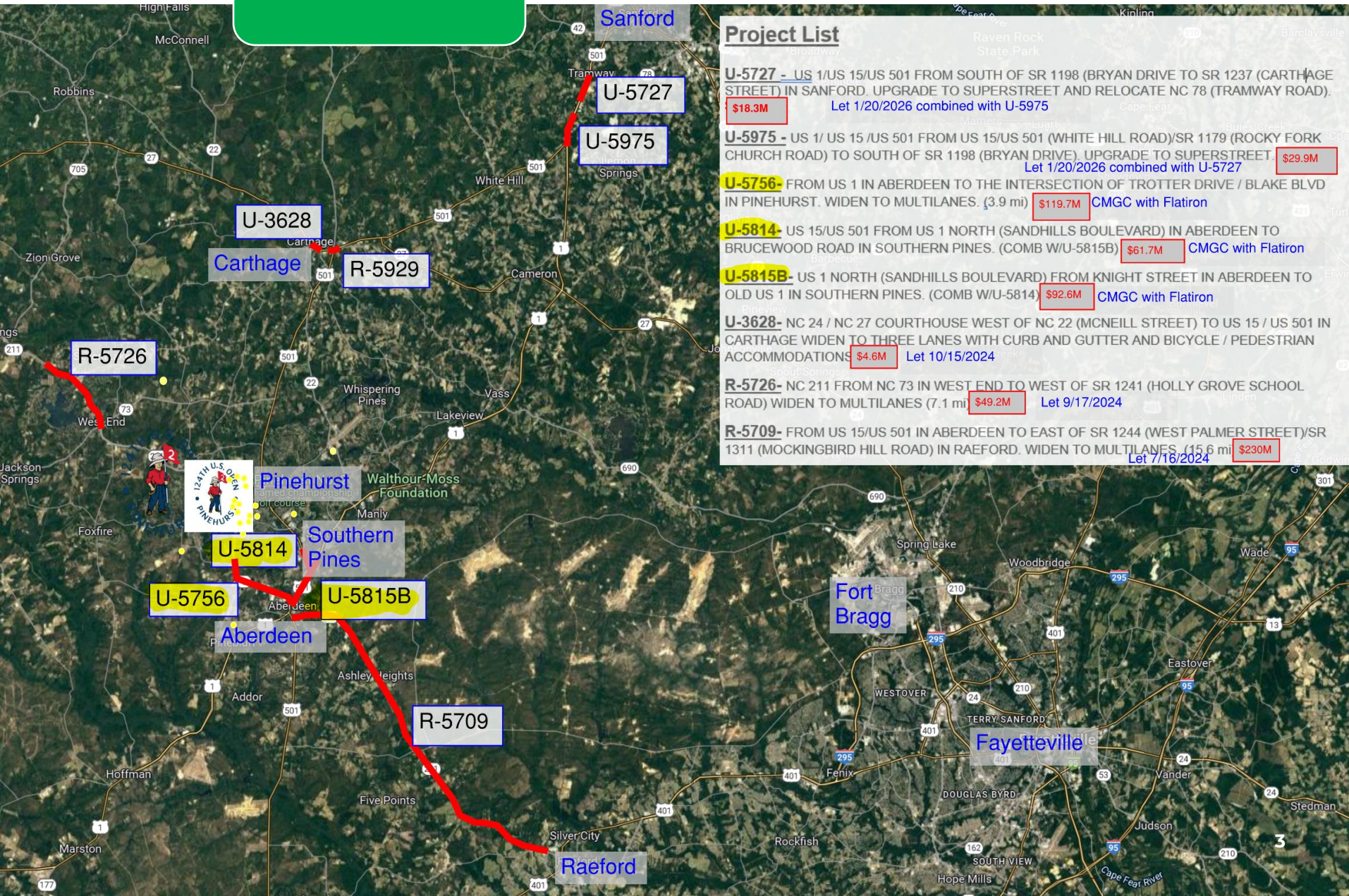


USGA Announces Plans for Golf House  
Pinehurst and Five U.S. Open Championships  
at Pinehurst  
September 9, 2020

Championship Returning in 2024, 2029, 2035, 2041 and  
2047

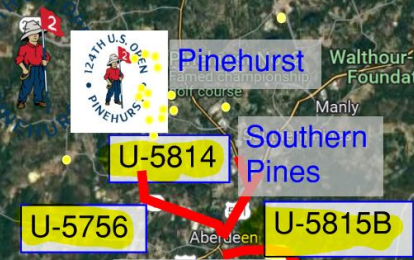


# The Course



### Project List

- U-5727** - US 1/US 15/US 501 FROM SOUTH OF SR 1198 (BRYAN DRIVE TO SR 1237 (CARTHAGE STREET) IN SANFORD. UPGRADE TO SUPERSTREET AND RELOCATE NC 78 (TRAMWAY ROAD). **\$18.3M** Let 1/20/2026 combined with U-5975
- U-5975** - US 1/ US 15/US 501 FROM US 15/US 501 (WHITE HILL ROAD)/SR 1179 (ROCKY FORK CHURCH ROAD) TO SOUTH OF SR 1198 (BRYAN DRIVE). UPGRADE TO SUPERSTREET. **\$29.9M** Let 1/20/2026 combined with U-5727
- U-5756** - FROM US 1 IN ABERDEEN TO THE INTERSECTION OF TROTTER DRIVE / BLAKE BLVD IN PINEHURST. WIDEN TO MULTILANES. (3.9 mi) **\$119.7M** CMGC with Flatiron
- U-5814** - US 15/US 501 FROM US 1 NORTH (SANDHILLS BOULEVARD) IN ABERDEEN TO BRUCEWOOD ROAD IN SOUTHERN PINES. (COMB W/U-5815B) **\$61.7M** CMGC with Flatiron
- U-5815B** - US 1 NORTH (SANDHILLS BOULEVARD) FROM KNIGHT STREET IN ABERDEEN TO OLD US 1 IN SOUTHERN PINES. (COMB W/U-5814) **\$92.6M** CMGC with Flatiron
- U-3628** - NC 24 / NC 27 COURTHOUSE WEST OF NC 22 (MCNEILL STREET) TO US 15 / US 501 IN CARTHAGE WIDEN TO THREE LANES WITH CURB AND GUTTER AND BICYCLE / PEDESTRIAN ACCOMMODATIONS **\$4.6M** Let 10/15/2024
- R-5726** - NC 211 FROM NC 73 IN WEST END TO WEST OF SR 1241 (HOLLY GROVE SCHOOL ROAD) WIDEN TO MULTILANES (7.1 mi) **\$49.2M** Let 9/17/2024
- R-5709** - FROM US 15/US 501 IN ABERDEEN TO EAST OF SR 1244 (WEST PALMER STREET)/SR 1311 (MOCKINGBIRD HILL ROAD) IN RAEFORD. WIDEN TO MULTILANES (15.6 mi) **\$230M** Let 7/16/2024



U-5756

U-5814

U-5815B

R-5709

U-3628

R-5929

U-5727

U-5975

R-5726

Raeford

Pinehurst

Southern Pines

Aberdeen

Sanford

Fort Bragg

Fayetteville

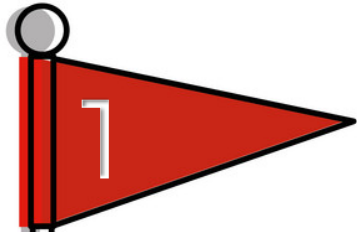




# The Approach

- Aggressively deliver key Transportation improvements to the US Open area
- Bring in industry partners to fill roles as:
  - General Project Manager Jerry Page/GF
  - Right of Way Project Manager Hugh Thompson/Ritchie Tuttle/PPS, CLA
  - Utility Project Manager Brandy Creech/MBI
- Implement best project management strategies
  - Identify and Reduce risks
  - Optimize design efforts
    - Reduce ROW impacts – Locate septic systems early
    - Reduce Utility impacts – Leave utility layer on
  - Acquire right-of-way prior to 2024 US Open.
  - Accomplish a majority of utility relocation prior to 2024 US Open
- Tee up the next phase
  - Projects to contract after the 2024 US Open
  - Completed prior to the 2029 US Open.

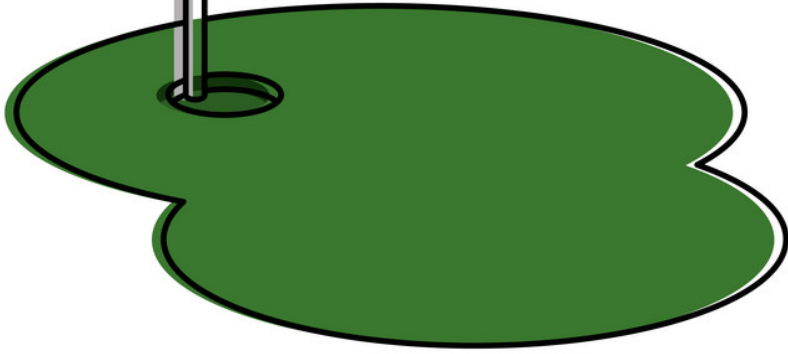




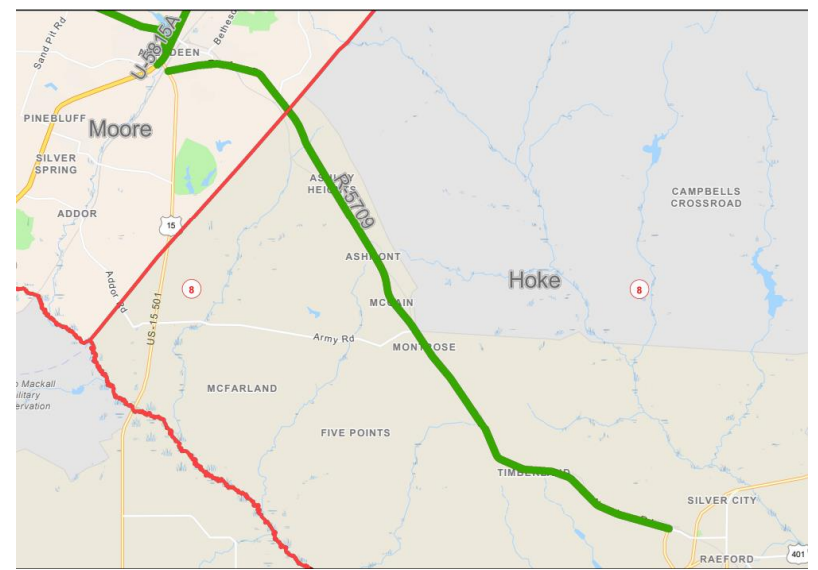
R-5709

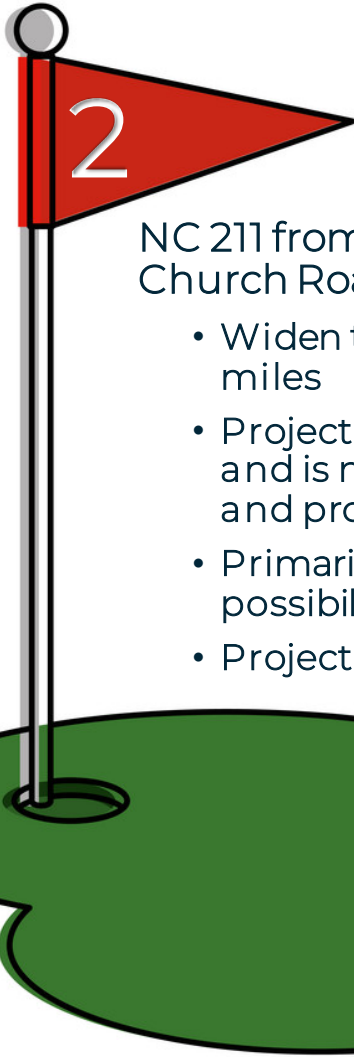
NC 211 from US 15-501 in Aberdeen to Palmer Street Extension in Raeford

- Widen to 4-lane divided – 15.7 miles
- Project is needed to accommodate future traffic volumes and improve safety.
- Primarily daytime construction with a possibility of nighttime work.
- Project Letting July 2024



The Front Nine





R-5726

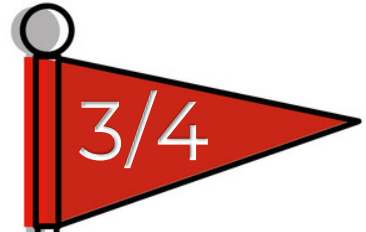
NC 211 from NC 73 in West End to Holly Grove Church Road

- Widen to 4-lane divided predominately – 4.8 miles
- Project will improve safety and mobility and is needed to handle future growth and proposed traffic volumes.
- Primarily daytime construction with a possibility of nighttime work.
- Project Letting September 2024

The Front Nine

**M**  
**MOTT**  
**MACDONALD**



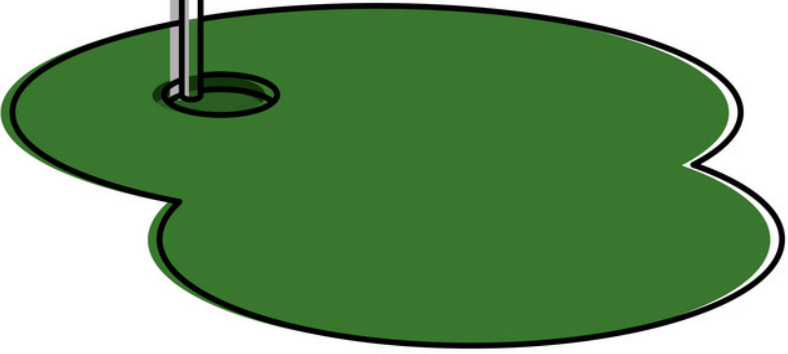
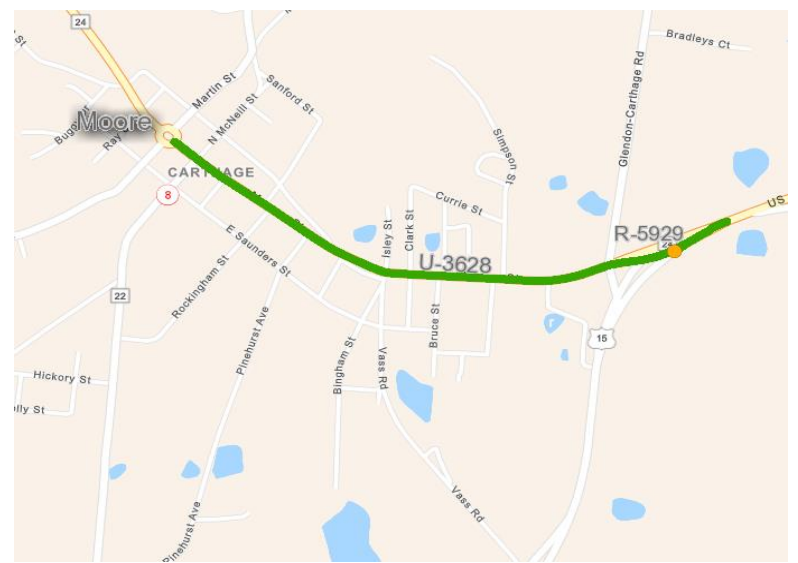


U-3628/R-5929 (On Hold)

NC 24/27 from Traffic Circle to US 15-501 (Carthage)

- Widen to 3-lane section – 1.4 miles
- Project will improve safety and upgrade pedestrian accommodations along the corridor.
- Project Letting March 2025

The Front Nine



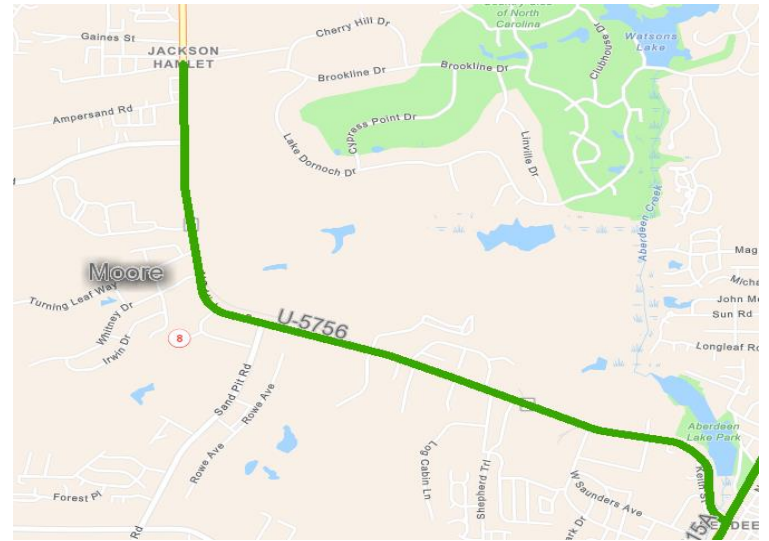


### U-5756

NC 5 from US1 to Trotter Drive/Blake Boulevard (Aberdeen/Pinehurst)

- Widen to 4-lane divided (short area of 3-lane included) – 4.3 miles
- Project will improve safety and mobility and is needed to handle future growth and traffic volumes.
- Work involving lane closures to be limited to nights.
- Planned Begin construction August 2024

## The Front Nine





U-5727/U-5975

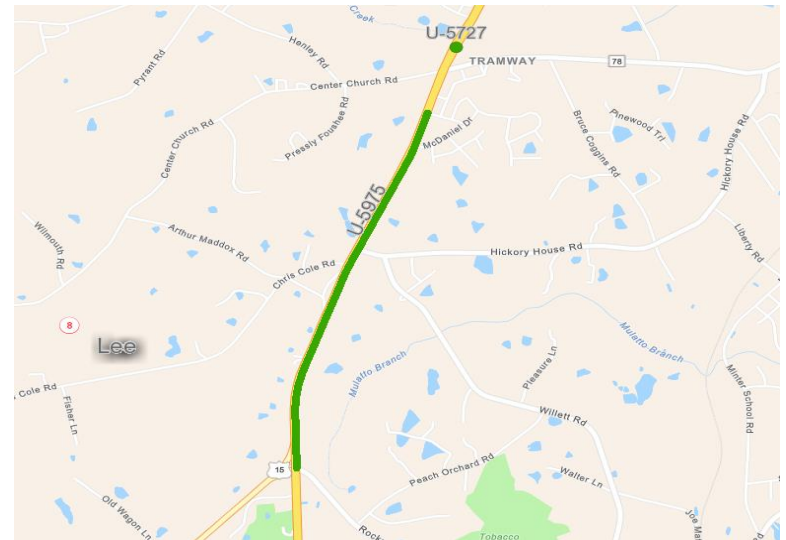
US 1/US 15-501 from Bryan Drive to Carthage Street (Sanford)

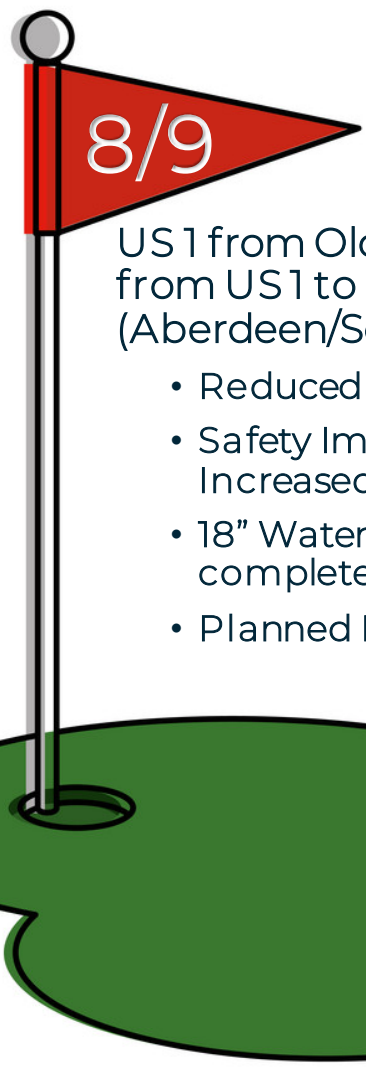
- Reduced Conflict Intersections – 4 miles
- Safety Improvements / Signal Upgrades / Increased Corridor Capacity
- Right of Way acquisition underway
- Project Letting January 2026

The Front Nine



STEWART



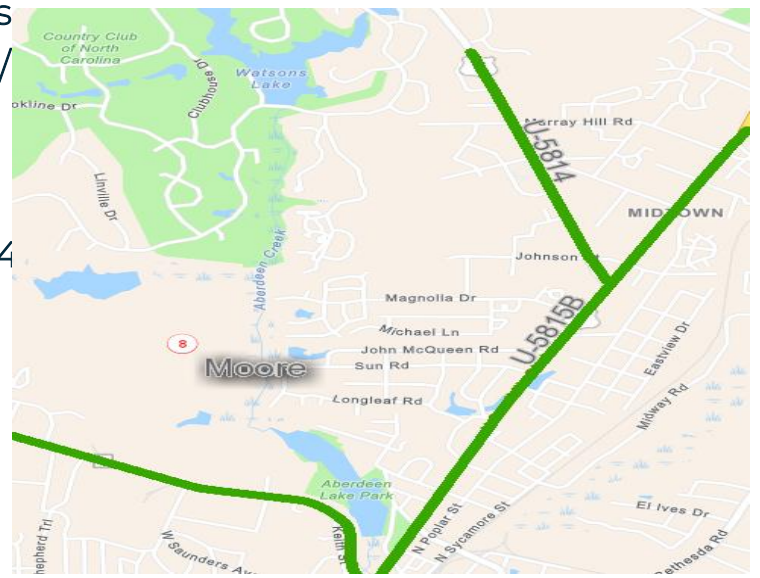


U-5814/ U-5815B

US1 from Old US1 to Knight St. & US15-501  
from US1 to Brucewood Rd.  
(Aberdeen/Southern Pines)

- Reduced Conflict Intersections – 4.1 miles
- Safety Improvements / Signal Upgrades / Increased Corridor Capacity
- 18" Water Transmission line relocation complete
- Planned Begin construction August 2024

The Front Nine





## Paying to Play



Course	Green Fees (Right of Way)	Cart Fees (Utilities)	Caddy Fees (Construction)
R-5709	\$60M	Combined w/ ROW	\$230M
R-5726	\$26M	Combined w/ ROW	\$49M
U-3628	\$1.5M	Combined w/ ROW	\$4.6M
R-5929	\$0.5M	\$1M	\$6M
U-5756	\$6.2M	\$2.3M	\$120M
U-5727	\$9.4M	Combined w/ ROW	\$18.3M
U-5975	\$4M	\$4.1M	\$30M
U-5814	\$12M	Combined w/ ROW	\$62M
U-5815B	\$12M	Combined w/ ROW	\$93M
		Construction Totals	➔ \$613M





# The Hazards



Course	Parcels	Relocatees	Category
R-5709	486	96	Homes - 70 Businesses - 20 Churches - 5 Signs/Billboards - 1
R-5726	127	42	Homes - 6 Businesses - 22 Churches - 1 Signs/Billboards - 11 Misc - 2
U-3628	43	9	Businesses - 1 Signs/Billboards - 7 Misc - 1
U-5756	46	2	Businesses
U-5727	87	0	None
U-5975	96	6	Homes - 3 Businesses - 3
U-5814	51	0	None
U-5815B	127	1	Business
Totals	1063	156	



## More Hazards

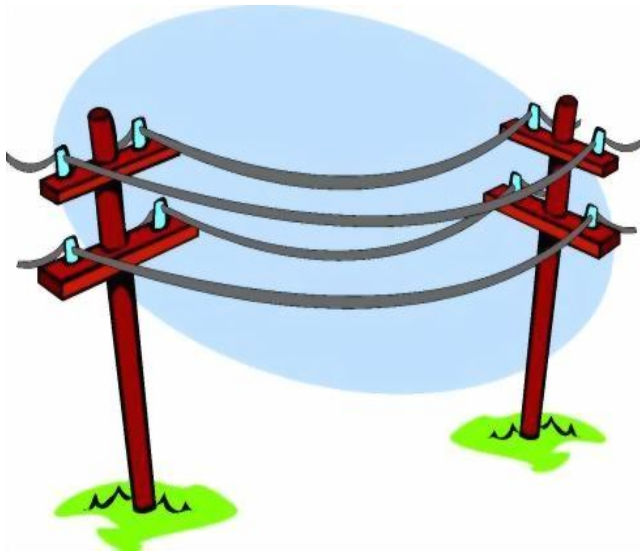


STIP	Utility Owners in Conflict
R-5709	Duke Energy, Piedmont Natural Gas, Town of Aberdeen (Water/Sewer), Hoke County Public Works (Water/Sewer), Town of Raeford (Water/Sewer), Brightspeed (Telephone), Spectrum (CATV), Conterra Broadband (Telecommunications), MCI (Telecommunications), DOT (Fiber Optic), Windstream (Telecommunications)
R-5726	Duke Energy, Brightspeed, Conterra, Spectrum, Moore County (Water)
U-3628	Duke Energy, Brightspeed, Conterra, Spectrum, Town of Carthage (Water/Sewer)
U-5727	Duke Energy, Windstream, MCNC, Randolph Telecom, Spectrum, Conterra, PSNC, City of Sanford (water)
U-5975	Duke Energy, AT&T, Windstream, Spectrum, MCNC, Segra, PSNC, City of Sanford (water)
U-5756	Duke Energy Progress (Transmission and Distribution), Windstream, Brightspeed, Spectrum, Conterra, SEGRA, Dixie Pipeline, PNG, Town of Aberdeen Water & Sewer, Moore County Public Utilities
U-5814/U-5815B	Duke Energy Progress (Transmission and Distribution), Windstream, Brightspeed, Spectrum, Conterra, Verizon Wireless, MCNC, SEGRA, Crown Castle, PNG, Town of Aberdeen Water & Sewer, Town of Southern Pines Water, Moore County Public Utilities

# Staying out of the Bunker

## Utilities

- Building and Maintaining relationships with all Utility Owners



# Staying out of the Bunker

## Utilities

- Phasing of projects to allow for clearing/grubbing/utilities to start sooner
  - Clearing and Grubbing contract ahead of roadway contract to allow for C&G and Erosion Control to be installed ahead of Duke so their resources can focus on relocation of their facilities and not environmental permitting, tree clearing, etc.



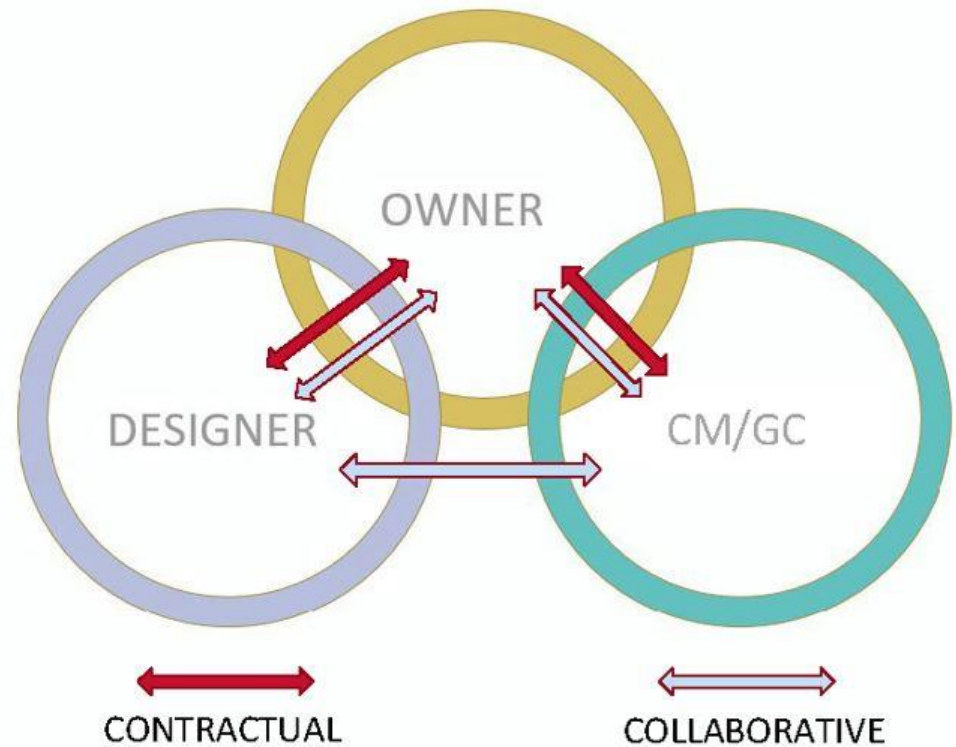
# Staying out of the Bunker



# Going to Overtime

## Construction Manager / General Contractor (CMGC)

- Designer and CMGC each selected separately based on Qualls and contracted separately with the Owner
- Construction begins after determining a Guaranteed Maximum Price (GMP)



# Going to Overtime

## Benefits of CM/GC Delivery Method

- Identifies and Mitigates Risks
- Open Book Pricing Exercises
- Design-Bid-Build if Needed
- Reduced Constructability Issues
- Contractor Input on Design Alternatives
- Compressed Schedule/Early Work
- Innovation through Contractor Input



# Leaderboard Updates

## Business Stakeholder / Public Outreach

- Business Stakeholder Distribution List
- Public Mailing List
- Comment Management
- Toll Free Call-in Number
- Project Email
- Social Media Post
- Media Outreach

Get Project Update

Email	<b>SUBSCRIBE</b>
Text	<b>GET ALERTS</b>



# Leaderboard Updates

## Project Public Information Content

- Project Webpage
- Anticipated to go live July 2024
- Project Videos
- Collateral Materials

### U.S. 1/15-501 Improvements (Moore County)



The map above shows only the project's general location. (View detailed maps.)

<b>County:</b> Moore	<b>Estimated Cost:</b> \$54.5 million
<b>Status:</b> In Development	<b>Start Date:</b> 2022
<b>STIP Number:</b> U-5814, U-5815A, U-5815B, U-5815BA	<b>Completion Date:</b> TBD

#### Projects

##### U.S. 1/15-501 Improvements (Moore County)

[Project Highlights](#)

[Project History](#)

[Project Maps](#)

[Project Documents](#)

[Public Meetings](#)

[News Releases](#)

[Related Links](#)

[Contact](#)

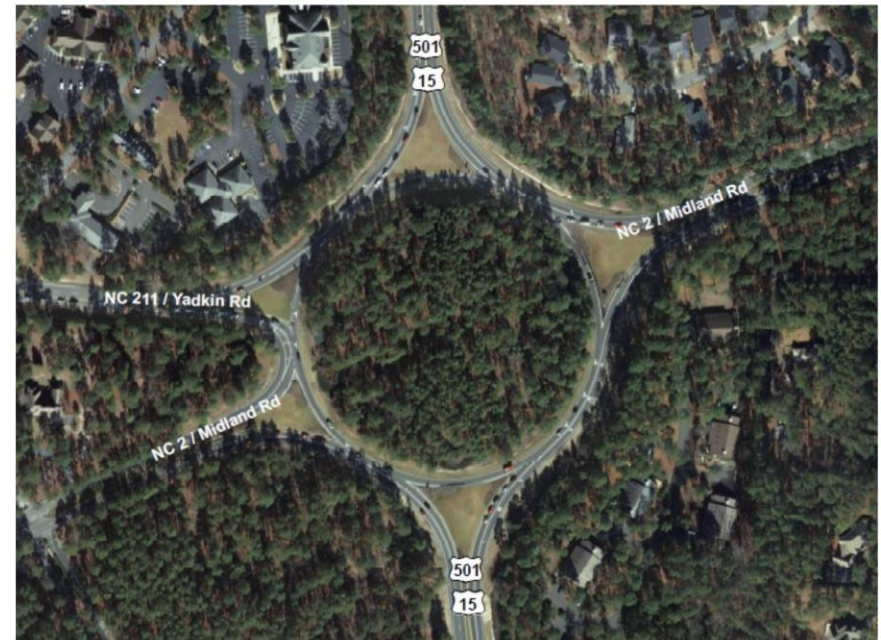
# NCDOT STIP Project U-5976

## Pinehurst Traffic Circle

### US 15-501 / NC 211 / NC 2 Intersection

## Past/Current Conditions

- Five-leg traffic circle constructed in 1956
- Gateway intersection of major routes, US 15-501 / NC 211 / NC 2
- 600 foot diameter circle
- Single lane circulator with right-turn bypass lanes



## U-5976 – Pinehurst Traffic Circle

**STIP Description:** US 15 / US 501 FROM SR 1905 (VOIT GILMORE LANE) IN SOUTHERN PINES TO SR 1208 (PAGE ROAD) IN PINEHURST. UPGRADE SR 1208 INTERSECTION AND CONSTRUCT IMPROVEMENTS TO PINEHURST TRAFFIC CIRCLE AND APPROACHES

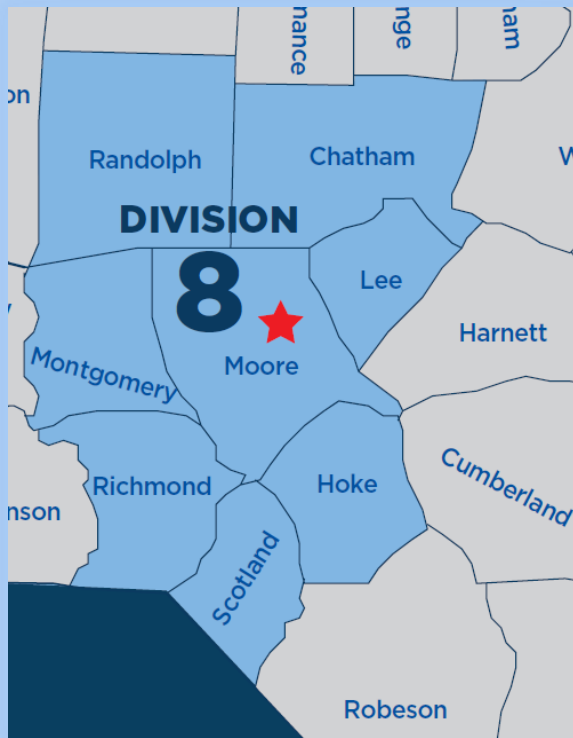
### **Project Schedule/History**

**May 19, 2016** - P 4.0 Project submitted by TARPO (SPOT ID# H150922) – Improvement type (Modernize Roadway)

**August 3, 2017** – Approval of 2018-2027 STIP by NCDOT Board of Transportation

**Summer 2024** – Public Meeting

**Summer 2029** – Contract Letting, Construction expected to last at least 2 ½ years.



- The Pinehurst Traffic Circle (PTC) experienced 50,000 daily trips in 2023 and the traffic demand is expected to rise to 80,000 daily trips in the next 25 years-60% increase. In 2013, there were 43,500 daily trips and there has been a slow consistent growth (1-2% a year) across all PTC legs over the last 20 years.
- Population in Moore County :
  - \*Projections from OSBM– State Demographer Website*
  - 2021 – 2022 - 2.6% increase
  - Projections – 2020 to 2050 is expected to have 79% increase in population
    - 2020-2030 – 27% Increase : 100k – 127K
    - 2030-2040 – 20% Increase : 127K – 153K
    - 2040-2050 – 17% Increase : 153K – 179K

LOS	Control Delay at Roundabout Approach
A	Less Than 10 Seconds
B	10 – 15 Seconds
C	15 – 25 Seconds
D	25 – 35 Seconds
E	35 – 50 Seconds
F	Greater than 50 Seconds

- Since the PTC is at or over its designed traffic processing capacity for multiple time periods throughout the day, only 70 percent of peak hour demand can actually move through the PTC in 2050. The remaining 30 percent will need to seek alternative routes or face extremely congested traffic conditions.
- Delays of several minutes can occur during peak travel times to navigate through the PTC.

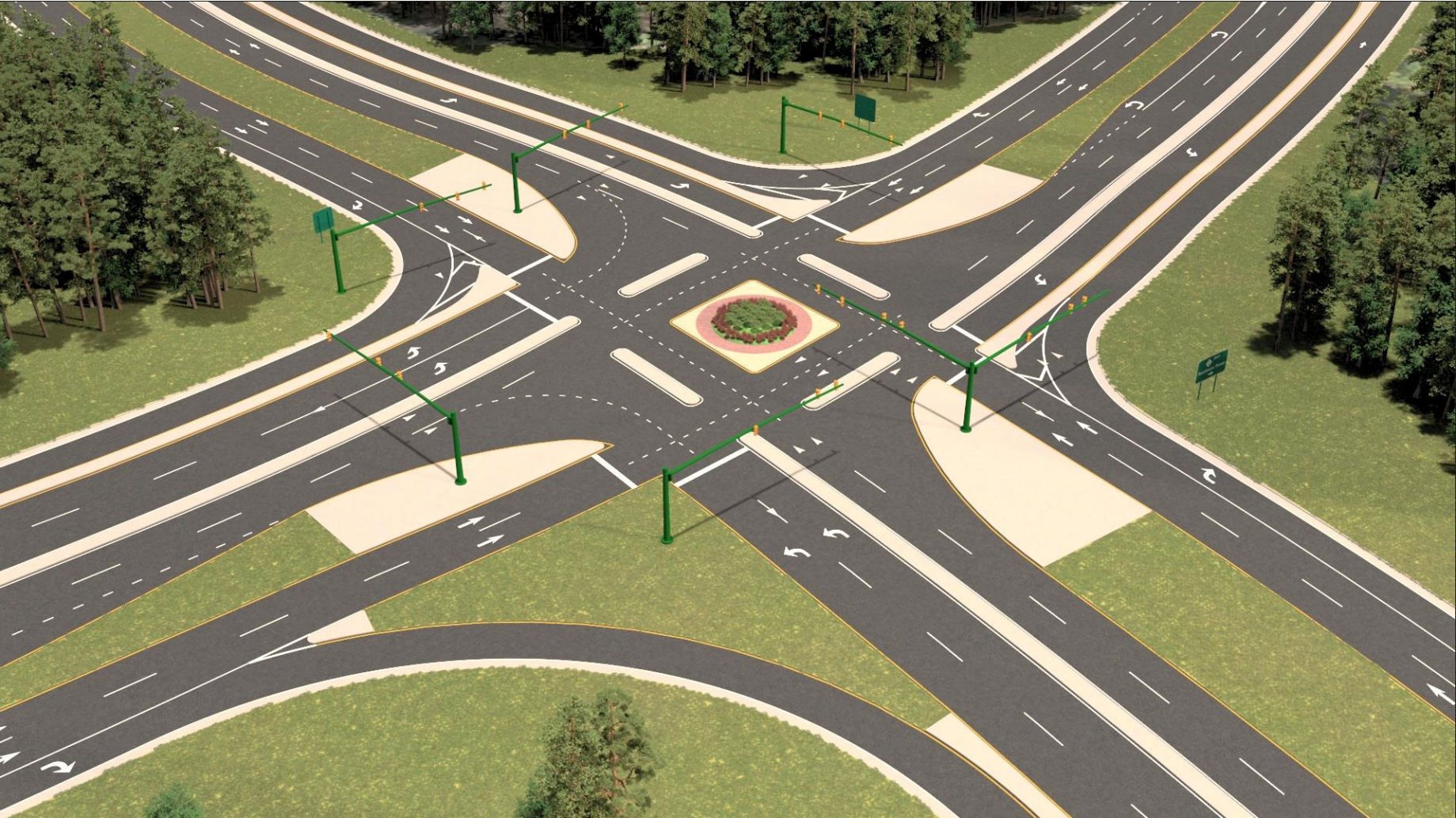
NC 211 Western Leg at Traffic Circle



US 15-501 Northern Leg at Traffic Circle

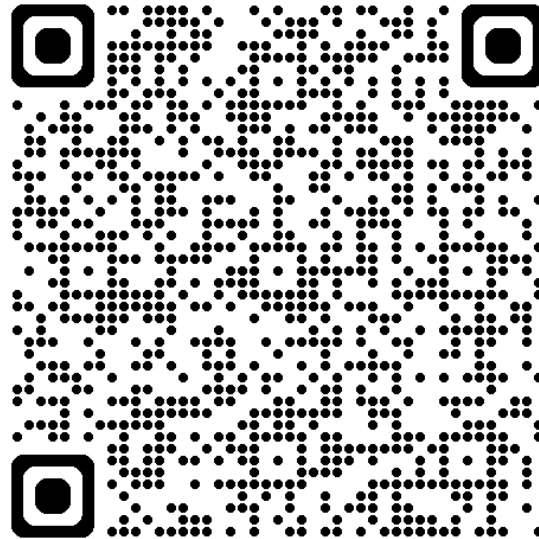


- Approximately 850 crashes have occurred in the PTC vicinity over the last 5 years,
  - estimated \$31,750,000 in crash costs.
- Crash Frequency - Steadily Increasing
  - 2011 study – 309 crashes,
  - 2017 update – 421 crashes,
  - 2023 update – 840 crashes.



# Continuous Flow Intersections

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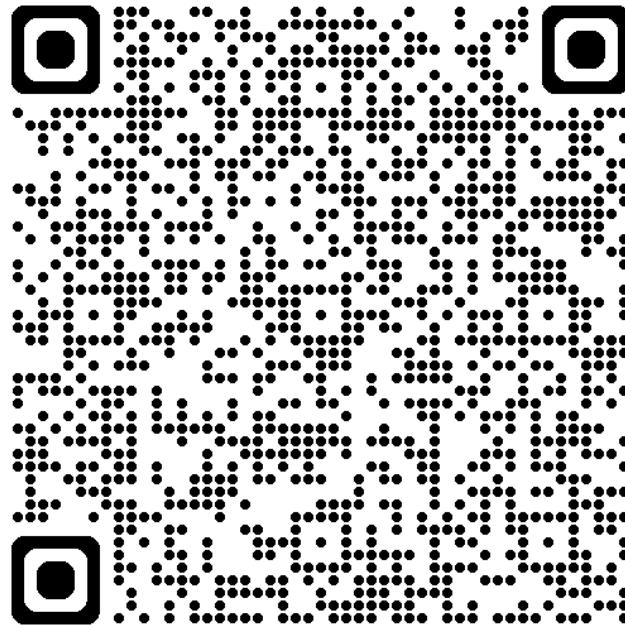


<https://www.ncdot.gov/initiatives-policies/Transportation/safety-mobility/continuous-flow-intersection/Pages/default.aspx>



# Reduced Conflict Intersections

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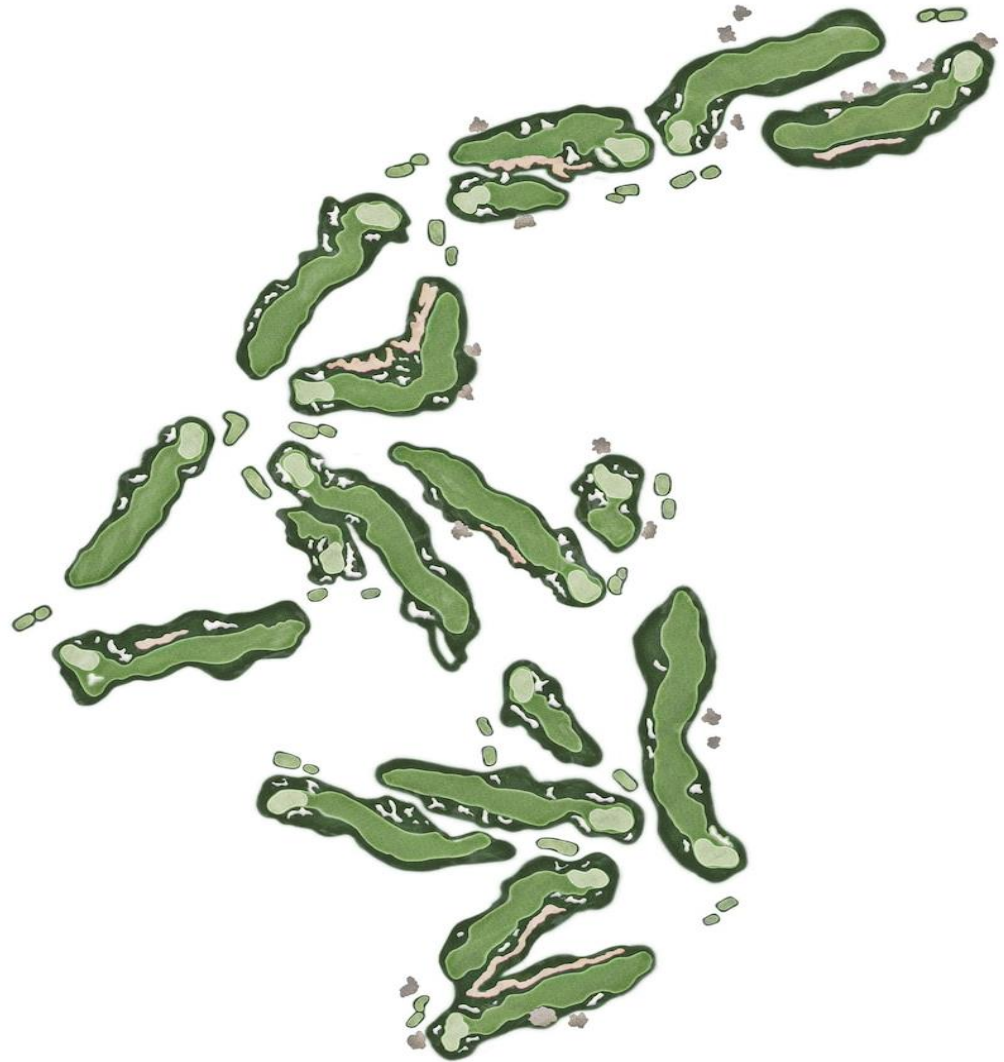


<https://www.ncdot.gov/initiatives-policies/Transportation/safety-mobility/reduced-conflict-intersections/Pages/default.aspx>

## Contact Info

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**Moore County - Sandhills MPO - Active Projects - Division 8--May 2024**

Contract # or WBS # or TIP #	Route	Description	Let Date	Completion Date	Contractor	Project Admin.	Project Cost	Notes
R-5709A C204661	NC 211	Clear/Grub/Prep for Widen to Multilanes from Aberdeen to Raeford	9/21/2021	8/1/2024	Fred Smith Co.	James Dietrich (910) 944-2344	\$15,325,970	Project 51% complete
DH00528 SM-5708C and D	US 15-501	Realign SR 1208 (Page Rd) at US 15-501. Construct turn lanes	8/22/2023	11/11/2024	Fred Smith Co.	James Dietrich (910) 944-2344	\$2,875,578	Project 46% complete

**Moore County - Sandhills MPO -Upcoming Projects - Planning & Design, R/W, or not started - Division 8--May 2024**

Contract # or WBS # or TIP #	Route	Description	Let Date	Completion Date	Contractor	Project Admin.	Funds Needed	Notes
R-5709	NC 211	Widen to Multilanes from Aberdeen to Raeford	7/16/2024	TBD	TBD	Terry Farr (919) 707-6017	\$188,381,000	Right of Way in progress 9/2021 Clear/Grubb R-5709A
R-5726	NC 211	Widen to Multilanes from SR 1241 to NC 73 in West End	9/17/2024	TBD	TBD	John Conforti 919-707-6075	\$32,500,000	Right of Way in progress R-5726A Clear & Grub \$5M
R-5891	US 15-501 & NC 211 Southern Pines	Convert to Interchange at SR 1205/SR 1309 (Morganton Rd)	9/17/2030	TBD	TBD	Greg Davis (910) 773-8022	\$32,870,000	Right of Way 10/15/2027
R-5892	NC 5 (Beulah Hill Rd)	Modernization from Trotter Drive to NC 211 in Pinehurst.	3/19/2030	TBD	TBD	Greg Davis (910) 773-8022	\$39,497,000	Right of Way 11/2027
R-5927	US 15-501	Widen to Multi-lanes from the Pinehurst Traffic Circle to NC 73 Realign McCaskill Rd with NC 73	8/1/2030	TBD	TBD	Morgan DeWit (910) 773-8037	\$49,001,000	Right of Way 1/2027
U-5756	NC 5 in Aberdeen	Improve NC 5 from US 1 in Aberdeen to Pinehurst	6/17/2025	TBD	TBD	Greg Davis (910) 773-8022	\$48,300,000	Right of Way in progress
U-5814 & U-5815B	US 15-501 and US 1	Access Management improve - Reduced Conflict Intersections	12/17/2024	TBD	TBD	Jeffrey Teague (910) 773-8025	\$44,130,000	Right of Way in progress U-5815 BA = Utility work FY 2023
U-5815A	US 1 (Sandhills Blvd)	Improve from SR 1112 (Roseland Rd) to Knight St in Aberdeen	1/26/2027	TBD	TBD	Jeffrey Teague (910) 773-8025	\$6,701,000	Right of Way 6/2025
U-5976	US 15-501 Pinehurst Traffic Circle	Improvements from Voit Gilmore Lane to Page Rd.	8/1/2030	TBD	TBD	Greg Davis (910) 773-8022	\$57,401,000	Right of Way 2/2027
HS-2008F	NC 5 at SR 1205 (Morganton Road)	Realign intersection and add turn lanes	4/8/2025	TBD	TBD	Michael Ricketts (910) 773-8033	TBD	TBD

Count	SpotID	Mode	Project Category	Facility Name	FromCrossStreet (Project Title)*	ToCrossStreet (Location)*	Description	Specific Improvement	Primary Purpose	Original Submitter	CommentsNotes	Cost to NCDOT	SMPO Area
H2	H231320	Highway	Regional Impact	NC 2 (Midland Road)	SR 1843 (Airport Road)		Convert conventional intersection to roundabout	10 - Improve Intersection	Improve traffic flow, reduce congestion, and improve safety	Division 8	Part of NC 2 Midland Road Corridor Study	\$ 7,732,000	Yes
H3	H171727	Highway	Statewide Mobility	US 1	NC 2 (Midland Road)	SR 1853 (Camp Easter Road)	Convert to superstreet intersections along corridor	4 - Upgrade Arterial to Signalized RCI Corridor	The sections of US 1 that are north and south of this section have control of access, leaving this short stretch in between as a lower-mobility section type. Converting the intersections on this segment to superstreet operation would help maintain a higher level of mobility as the area develops in the future.	Division 8		\$ 29,200,000	Yes
H4	H171781	Highway	Regional Impact	NC 211 (New Route)	SR 1112 (Roseland Road)	NC 211 (Raeford Road)	Construct two lane roadway on new location between SR 1112 and NC 211 in Aberdeen. Includes a new bridge over the railroad.	5 - Construct Roadway on New Location	Construct two lane connector on new location to eliminate dog-leg movement. This project directly connects NC 211 to US 1 by extending the under construction R-5709 widening project. The cost estimate needs to include a new bridge over the railroad.	Division 8	This project extends the under construction R-5709 widening project to US 1 and is included in the Moore County CTP.	\$ 22,500,000	Yes
H5	H192608	Highway	Division Needs	SR 1209 (Murdocksville Road)	NC 211	NC 73	3-lane and Modernize SR 1209 (Murdocksville Road). 3-lane from NC 211 to Centennial Blvd. Modernize from Centennial Blvd to NC 73. Include pedestrian accommodations between NC 211 and Centennial Boulevard.	1 - Widen Existing Roadway	The proposed three-lane section of Murdocksville Road contains many driveway access points. The widening will improve mobility north of NC 211. The proposed modernization between Centennial Boulevard and NC 73 will add roadway and shoulder width to improve mobility. The wider shoulder also improves the clear recovery zone for run-off-road accidents.	Division 8 (in P6)	The project cost estimate is unrealistically high because the 3-lane typical is only used to Centennial Drive. A two-lane typical section will be used from Centennial Drive to NC 73. SR 1209 is also used as a transportation corridor during special events such as the golfing US Open.	\$ 32,000,000	Yes
H7	H231311	Highway	Regional Impact	NC 22	SR 1838 (McCaskill Road)		Convert all-way stop intersection to roundabout	10 - Improve Intersection	Improve traffic flow and reduce congestion	Division 8	Intersection was recently converted to all-way stop.	\$ 4,580,000	Yes
H8	H192131	Highway	Regional Impact	NC 211	Rattlesnake Road, Gun Club Drive		Improve intersection, add turn lanes. Both Rattlesnake Road and Gun Club Drive are municipal roadways that are not maintained by NCDOT.	10 - Improve Intersection	Add turn lanes to reduce congestion and improve safety at the intersection.	Division 8 (in P6)	The intersection is included in the Village Place Small Area Plan	\$ 6,899,000	Yes
H12	H090669	Highway	Regional Impact	US 15, US 501	NC 211	US 1	Widen US 15/501 to three lanes (2+1 passing lanes) from US 401 in Laurinburg to where US 1 becomes four lanes in	1 - Widen Existing Roadway	To increase mobility and safety. Many residents in Richmond County use this route to travel to Moore county for medical services, employment, and shopping.	Lumber River RPO		\$ 48,700,000	Yes

# MTP Due Date

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Due December 29, 2026 and every 5 years afterward

MTP is a federal requirement. If the plan lapses, new project approvals will be withheld until the plan is brought back into compliance.

Can be developed concurrently with the CTP

Project Schedule <i>Last Updated: 11/11/2022</i>	2022		2023									
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	
<b>Task 1: Project Administration</b>												
1.1 Monthly Coordination												
1.2 Project Schedule		✓										
1.3 Data Needs Memo	✓											
1.4 Progress Statements			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Task 2: Community Involvement</b>												
2.1 Public Involvement Plan		✓										
2.2 Branding		✓										
2.3 Steering Committee Meetings												
2.4 Stakeholder Interviews												
2.5 Online Surveys												
2.6 Regional Pop-Up Event or Public Workshop												
2.7 Plan Update Presentations												
<b>Task 3: Baseline Conditions Assessment</b>												
3.1 Policy, Program, and Document Review			✓									
3.2 Existing Transportation Assessment			✓									
<b>Task 4: Multimodal Recommendations</b>												
4.1 Roadways												
4.2 Bicycle and Pedestrian Facilities												
4.3 Transit												
4.4 Freight												
<b>Task 5: Financial Plan &amp; Performance Measurement</b>												
5.1 Project Prioritization												
5.2 Performance Measures Documentation												
5.3 Opinions of Probable Cost												
5.4 Funding Strategy												
<b>Task 6: Documentation</b>												
6.1 Summary Report												
6.2 GIS Map Packages and Digital Files												

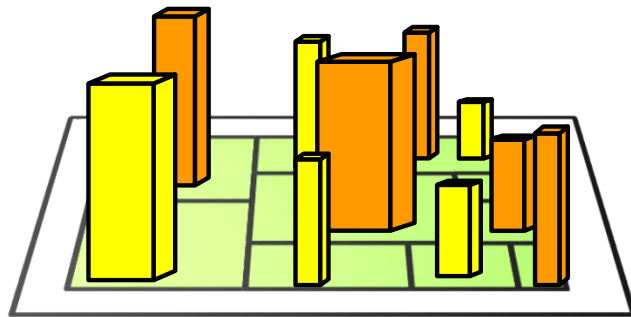
Legend	
	Duration
	Deliverable Draft
	Deliverable Final
	Meeting/Outreach

Example MTP schedule  
(Rocky Mount)

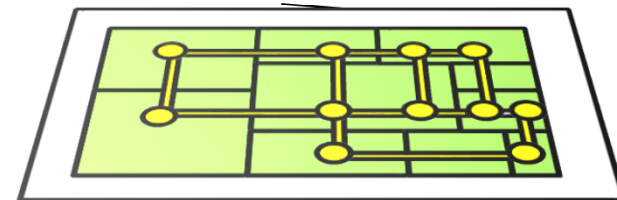
# What is a travel demand model?

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A systematic process for translating land use and transportation supply into projections of travel demand



Land-  
Use



Transportation  
Network

# What is a travel demand model?

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A computer model and tool to assist decision makers to make informed transportation decisions based on local data (land use, population, employment). It is a good way, along with professional judgment, to estimate future transportation needs based on Moore County growth.

It can:

- Provide local travel data
- Show the impacts of road widenings and new road additions.
- Analyze the impacts of transportation plans
- Show the impacts of new interchanges
- Forecast changes in corridor volumes

It cannot:

- Show the impacts of new turn lanes at an intersection or time signals
- Identify induced growth or shifts in land use because of a new road.



# What is a travel demand model?

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- The Moore County travel demand model covers all of Moore County
- As of April, 70% of Base Year model estimation is complete  
(Base Year = Current data)

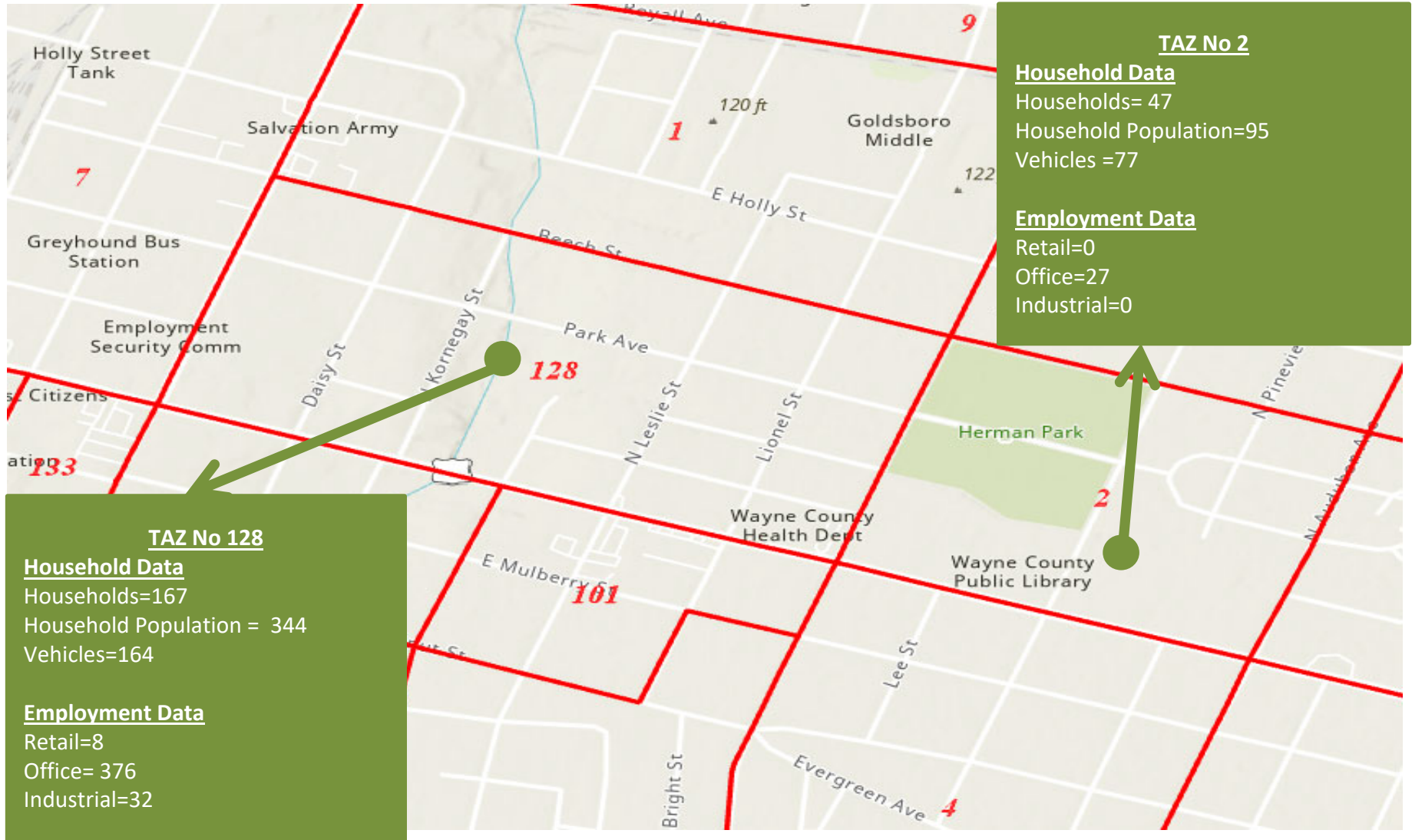
## Few Key Concepts-TAZ

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- ❑ TAZ-A common sense subdivision of the study area
- ❑ Typically created along census boundaries (census block, group & tract)
- ❑ Contains homogenous land-use
- ❑ Why TAZs? To simplify the modeling process

# Goldsboro Imagery Layout-TAZ





# Base Year 2021 / Future Year 2050

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2021 Population	2021 Household	2021 Employment
112869	45997	51511

2050 OSBM
117524

Control Total Example (from Goldsboro)

**Possible future modeling steps** (work with the Moore County Transportation Committee)

- Decide on a reasonable Future Year (2050 or 2055) population and employment (called “control totals”) for the MPO and the entire county (start discussion June/July) (TCC / Governing Board / NCDOT)
- Project population and employment to the Future Year (2050 or 2055) for all Travel Analysis Zones (TAZs) for the entire county (TCC / GB / NCDOT)
- Consider how to have this data approved (municipalities, county, MPO) (TCC/GB)
- Use the new future year TAZ data to finalize the Future Year Model that can be then used for transportation system analysis for the MTP and CTP (Consultant, NCDOT)
- Goal for completion of projections – end of year