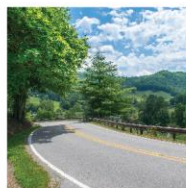




## **NORTH CAROLINA**

Department of Transportation



# Durham Region Transportation Projects

Richard W. Hancock, PE

November 28, 2017

# East End Connector (U-0071)

- New Location Freeway from NC 147 to US 70 North of NC 98



- 4 miles in length
- Contract Amount \$142 million
- Contractor – Dragados USA, Inc.
- November 2019 Substantial Completion (open in final pattern)
- Incentives for Earlier Completion (shooting for July 2019)



# East End Connector (U-0071)



# Alston Avenue Widening (U-3308)

- NC 55 from NC 147 to North of Holloway St (US 70 Bus/NC 98)
- 1.1 miles long
- Contract Amount \$40 million
- Contractor – Zachry Construction Corporation
- Work Began October 2016
- Contract Completion July 2020





## Old Chapel Hill Road (EB-4707B)

- Bike and Pedestrian Improvements from Pope Road (SR 1113) to Garrett Road (SR 1116)
- 1.75 miles long
- Contract Amount \$7.3 million
- Contractor – FSC II DBA Fred Smith Company
- Work Began July 2017
- Contract Completion May 2019



# Herndon Rd at Massey Chapel/Barbee Rd – Roundabout (W-5205V)

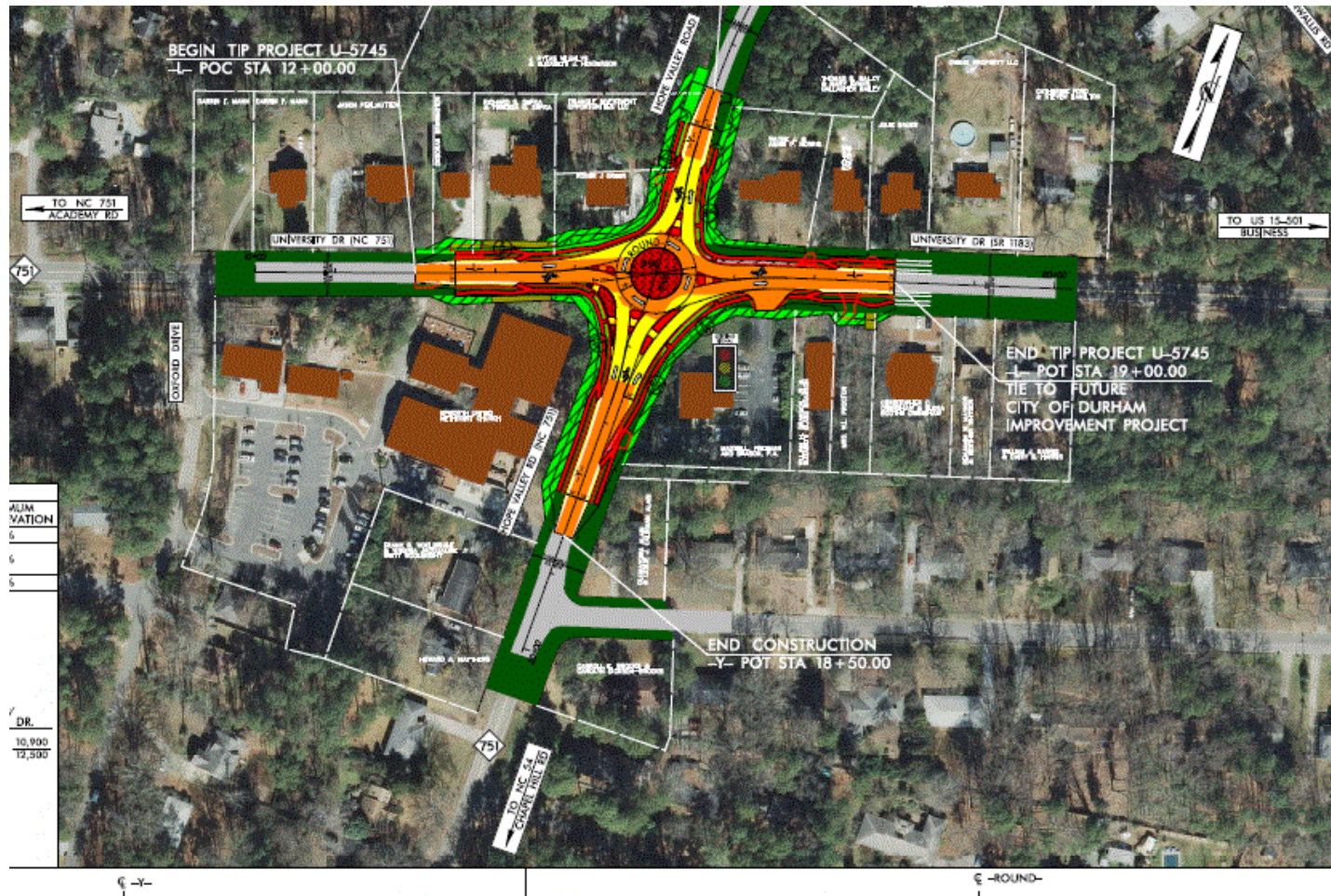
- Contract Amount \$1 million
- Contractor Triangle Grading & Paving, Inc.
- Work Began May 2017
- Contract Completion October 2017???





# NC 751 – Hope Valley Road/University Drive Roundabout (U-5745)

- Currently under Final Design
- Planned to let to Construction in June 2018





- Intersection Improvements
- Due to Heavy Traffic Volumes Alternative Intersection Designs Considered
- Scheduled to Let to Contract in August 2019





## US 15-501/Garrett Rd(U-5717)

- Convert existing at-grade intersection to interchange
- Limited space with existing development at existing Intersection
- Looked at many alternatives and narrowed to 3 viable
- Scheduled to Let in April 2020
- DO-LRT alignment through intersection complicates design





# US 15-501/Garrett Rd(U-5717)





## US 70 from I-540 to West of TW Alexander Dr (U-5518)

- Upgrade US 70 to a controlled-access facility from I-540 to west of TW Alexander Drive, including interchanges at Briar Creek Parkway and TW Alexander Drive
- Enviromental/Planning Document currently underway
- Scheduled for completion in summer 2018
- Scheduled for construction in July 2021



# US 70 from I-540 to West of TW Alexander Dr (U-5518), Alternative 1





# US 70 from I-540 to West of TW Alexander Dr (U-5518), Alternative 2





# US 70 from I-540 to West of TW Alexander Dr (U-5518), Alternative 2









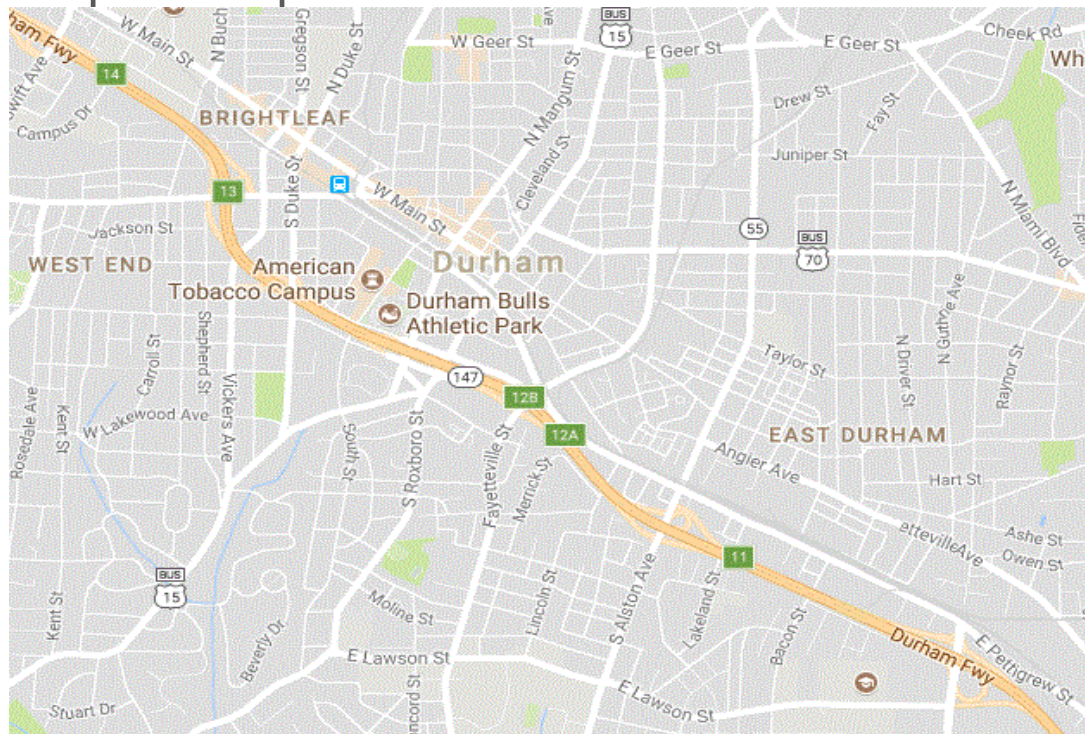


## NC 54 from US 15-501 in Chapel Hill to NC 55 in Durham (U-5774)

- Corridor broken up into 10 projects, A – J
- All being included in single environmental/planning document
- Three portions of project funded in current STIP, B, C and H
- B is section from US 15-501 (Fordham Blvd) in Chapel Hill to Barbee Chapel Road in Durham, including an interchange at Barbee Chapel. Scheduled for R/W in 2022, Construction in 2024.
- C is the section from Barbee Chapel Road to I-40, not including the I-40 interchange. Scheduled for R/W in 2022, construction in 2024.
- H is the section from NC 751 (Hope Valley Rd) to Fayetteville Road. Scheduled for R/W in 2023, construction in 2025.
- D, E and F are Falcon Bridge Road, Farrington Road and the I-40 interchange. Combined as one project because operationally they work together

# NC 147 (Durham Freeway) from Briggs Avenue to South Duke Street (U-5937)

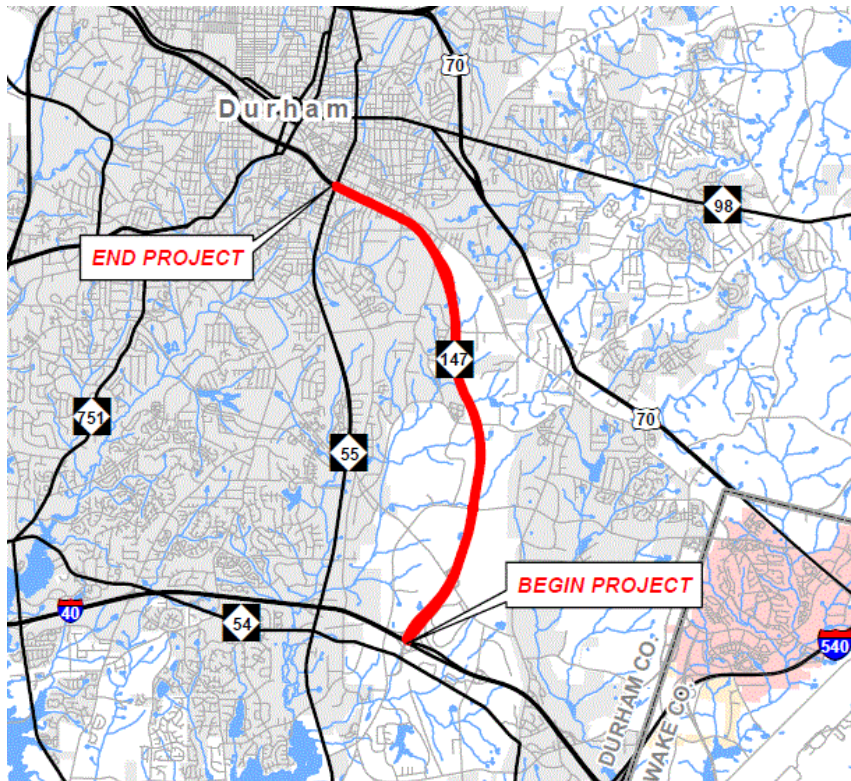
- Operational improvements to potentially include auxillary lanes
- Scheduled for R/W in 2021, construction in 2023.
- Funded for \$58 million
- Just beginning planning efforts; Coordinating with City of Durham on scope of improvements.





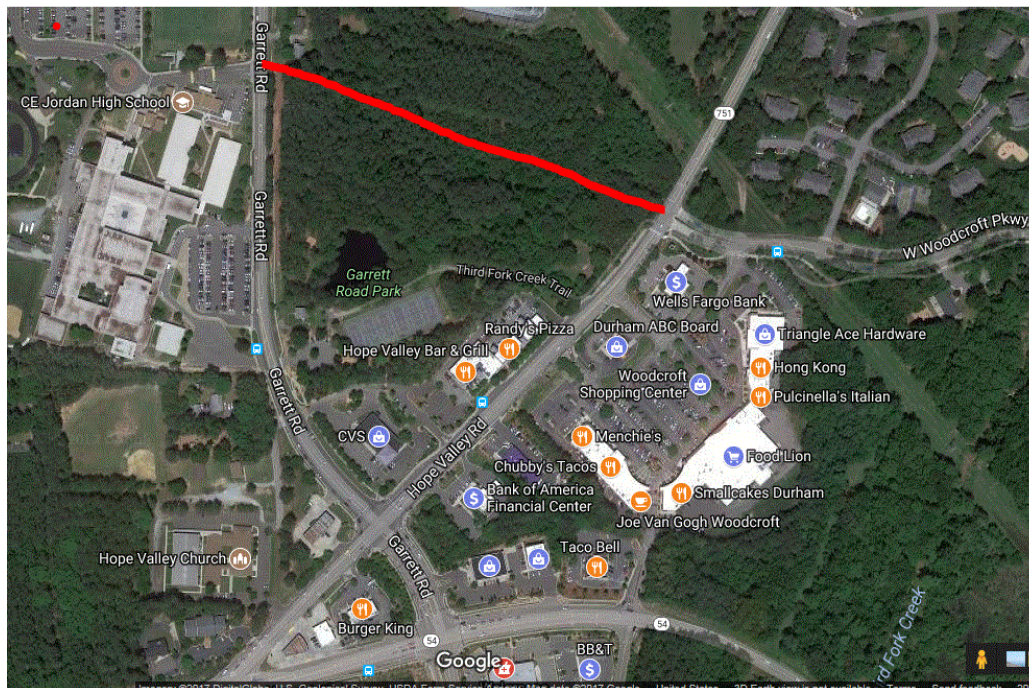
# NC 147 (Durham Freeway) from the East End Connector to I-40 (U-5934)

- Add lanes and rehabilitate pavement
- Scheduled for Design Build let in 2022
- Funded for \$180 million
- Hope to include improvements to I-40 interchange



# Woodcroft Parkway Extension from Hope Valley Road (NC 751) to Garrett Road (U-5823)

- Construct Roadway on new alignment
- Scheduled for R/W in 2020, construction in 2021
- Planning/Design/Right of Way and Construction by the City of Durham (Non-State system facility)
- Programmed for \$2.2 million





# Fayetteville Road from Woodcroft Parkway to Barbee Road (U-6021)

- Widen to 4-lane divided facility with bicycle/pedestrian accommodations
- Scheduled for R/W in 2021, construction in 2023
- Programmed for \$20 million



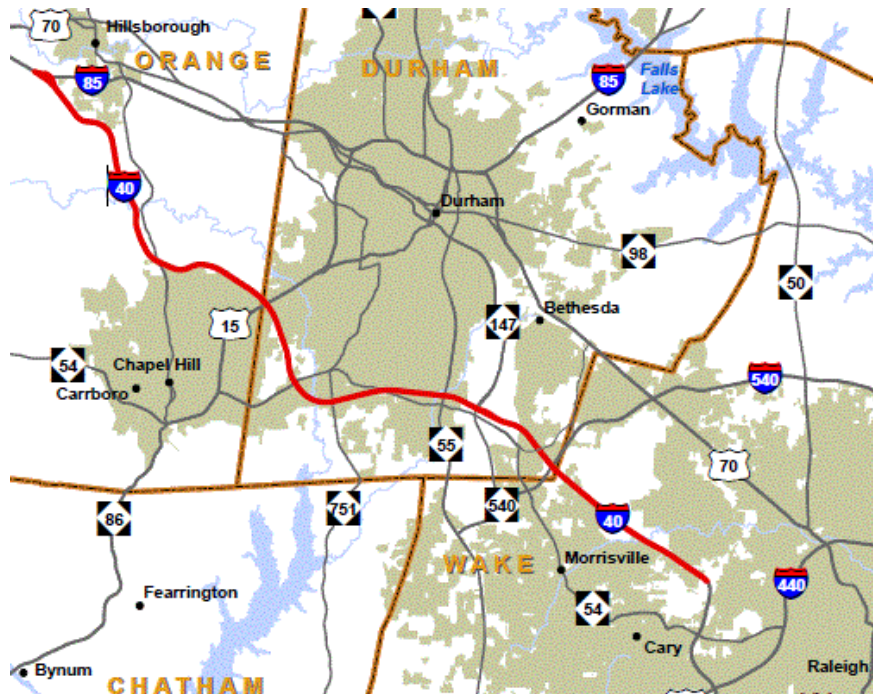
## US 15-501 from I-40 to US 15-501 Business in Durham (U-6067)

- Upgrade corridor to an expressway
- Scheduled for R/W in 2025, construction in 2027
- Estimated cost \$195 million
- Only partially funded in current STIP



# I-40 from US 15-501 to Wade Avenue in Wake County (U-5702)

- Construct managed lanes
- Section A from US 15-501 to Durham Freeway; currently scheduled for 2026 Design Build let
- Section B from Durham Freeway to Wade Avenue; currently scheduled for 2027 Design Build let
- Total estimated cost is over \$1 billion (corridor cap issue)



## New Projects Submitted in Prioritization 5.0

- I-85 Widening from east of Midland Terrace to Red Mill Road
- US 15-501 Bypass widening from Tower Road to NC 751
- I-40 managed motorways from Wade Ave (Wake) to NC 54(Durham)
- Aviation Parkway Ext from Globe Road to TW Alexander
- NC 55 at I-40 (Improvements at approach to eastbound on loop)
- I-40 EB auxiliary lane from NC 54 to NC 751
- Elba Street/Trent Drive Roundabout (near NC 147)
- NC 751 from NC 54 to Southpoint Auto Park Blvd (widen to 4-ln divided with bike and pedestrian amenities)
- NC 751 from South Roxboro to Woodcroft Prkwy (widen to 4 lanes with bike lanes and sidewalks)
- NC 98 from Lynn Rd to Junction Rd (Safety and access improvements, add median, bike lanes, sidewalks, transit)
- US 501 (Roxboro Rd) from Duke St to Omega Rd (median, access management and safety, bike and pedestrian, transit amenities)



## New Projects Submitted in Prioritization 5.0

- Roxboro Rd from Avondale Dr to Old Oxford Road (turn lanes, pedestrian and streetscape improvements)
- Roxboro Street from Pettigrew to Main (widen and rebuild RR bridge, consider reconstructing Ramseur street at grade)
- Roxboro Rd at Horton Rd (construct turn lanes)
- Downtown Loop (Convert to two-way, including realignment, bike facilities, sidewalks, signals, signage)
- Garrett Road from NC 751 to Old Chapel Hill (upgrade corridor including bicycle and pedestrian amenities, transit)
- Hillandale Road at Horton (construct roundabout)
- Hopson Road from Distribution Drive to NC 54 (widen to 4-lane divided with bicycle and pedestrian facilities)
- Northern Durham Parkway from Old Oxford Rd to I-85 (multi-lane roadway on new location).
- Northern Durham Parkway from US 70 to NC 98 (multi-lane roadway on new location)
- Riddle Road at Alston Ave (construct roundabout)

# QUESTIONS?