

## PROJECT STATUS SHEET

### PROJECT DESCRIPTION

The purpose of the project is to extend Morrisville Parkway and construct an interchange with Triangle Expressway (Toll NC 540) in Wake County to provide increased connectivity and access. Planning and Design are being managed by the Town of Cary in coordination with NCDOT. Project has been let to contract by NCDOT. NCTA is participating in funding for U-5315B (interchange) only.

**P & D:** RK&K

**DESIGN:** RK&K

**CONTRACTOR:** BARNHILL

\*\* see page 2 for further information

### IMPORTANT FACTS

Construction Start: January 2018

Projected Cost: \$21.2M (U-5315A+B)

Open to Traffic: 2020

Type of Tolling: Fixed tolls

### KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

#### PLANNING/DESIGN/CONSTRUCTION

- Coordinate/attend meetings with Town of Cary, Division 5, and Barnhill for construction scheduling
- Monitor construction activities
- Complete design of relocation of ramp toll zones to mainline

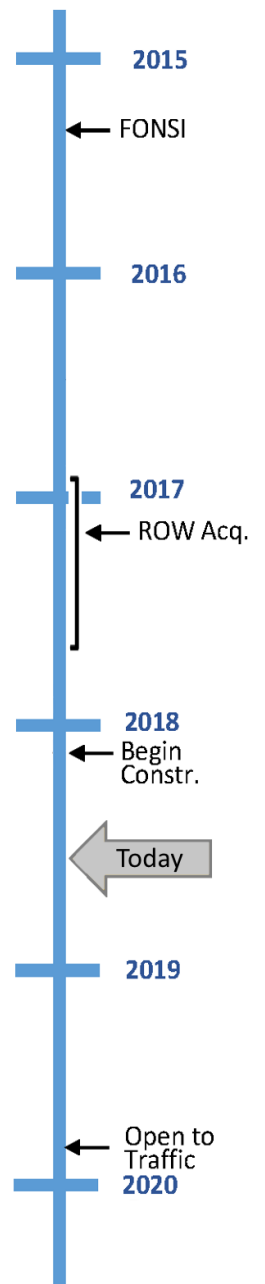
#### FINANCE

- No activities anticipated

#### ALL-ELECTRONIC TOLLING

- Begin preparation for other toll-related contract modifications:
  - Roadside Toll Collection System (RTCS)
  - Back Office System (BOS)
  - Electronic Toll Collection System (ETCS)
  - Toll Operations (OPS)

#### PROJECT DELIVERY



## **PROJECT STATUS SHEET**

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Additional P & D Subconsultants:

- **EA & FONSI – VHB**
- **GEOTECHNICAL – FALCON**
- **USACE 404 PERMIT: URS (now AECOM)**
- **ROW ACQUISITION – RIGHT OF WAY CONSULTANTS**
- **SURVEYS, PLATS, LEGAL DESCRIPTIONS – ESP**

## PROJECT STATUS SHEET

### PROJECT DESCRIPTION

The purpose of this project is to convert the bus lanes in the median of Independence Boulevard (U.S. 74) in Charlotte from I-277 to Wallace Lane to Express Lanes. This conversion will include the bus lanes that currently exist between I-277 and Albemarle Road (NC 27), as well as the bus lanes currently being constructed under STIP Project U-209B.

**P & D:** TGS ENGINEERS

**NATURAL RESOURCES:** KIMLEY-HORN

**DESIGN:** ATKINS/HNTB

**TRAFFIC ANALYSIS:** AECOM

**TRAFFIC & REVENUE:** STANTEC

### IMPORTANT FACTS

Contract Let: November 2018

Projected Cost: \$28.8M (Total)

Open to Traffic: 2020

Type of Tolling: Express Lanes

### KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

#### PLANNING/DESIGN/CONSTRUCTION

- Revise Final Design of Intelligent Transportation System (ITS), Gate Control System, and All-Electronic Toll (AET), if required
- Participate in Stakeholder Meetings and Public Meetings
  - Coordinate with ongoing Express Lane projects in the Charlotte area, as well as Feasibility Studies (I-277: FS-1610A, US-74 Ultimate: U-6103)

#### FINANCE

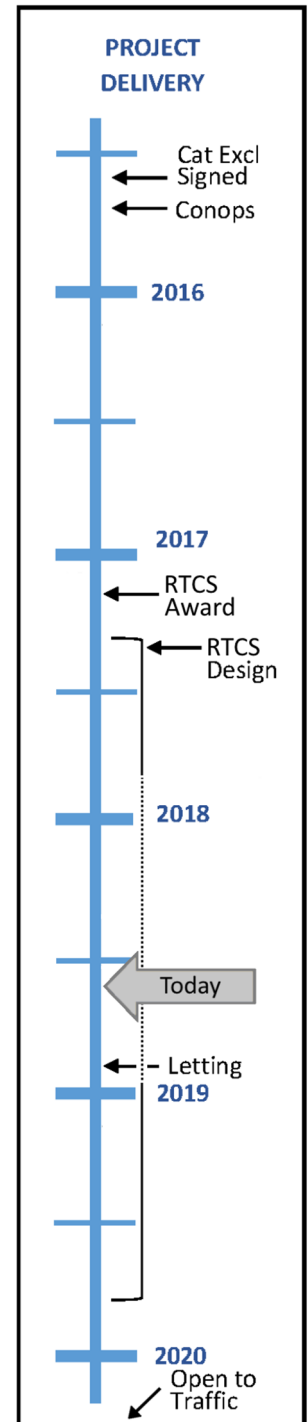
- Update State Transportation Improvement Plan (STIP) with new project costs
- Refine Operations & Maintenance Model if needed
- Complete Level II Traffic & Revenue (T&R) Study as a part of the U-2509 project which extends Express Lanes east to I-485

#### ALL-ELECTRONIC TOLLING

- Produce, negotiate and execute Extra Work Orders for Back Office System (BOS), and Toll Operations (OPS)
- Manage Roadside Toll Collection System (RTCS) & Electronic Toll Collection System (ETCS) contracts
  - Contracts executed early March 2017; design underway

#### OPERATIONS

- Prepare for Express Lane Operations by coordinating with NCDOT Division 10 and the local transportation management centers
- Open Charlotte area tolling customer service center





## PROJECT STATUS SHEET

### PROJECT DESCRIPTION

The purpose of this project is to construct an expressway extending nearly 20 miles from US 74 near I-485 in Mecklenburg County to US 74 between the towns of Wingate and Marshville in Union County. The four-lane divided facility will have fixed toll rates at seven mainline zones.

**CONTRACTOR:** MONROE BYPASS CONSTRUCTORS\*\*

**CEI:** SUMMIT

**TRAFFIC & REVENUE:** CDM SMITH

**P & D:** ATKINS \*\*

\*\* see page 2 for further information

### IMPORTANT FACTS

Construction Started: May 2015

Projected Cost: \$731M

Open to Traffic: November 2018

Type of Tolling: Fixed tolls

### KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

#### DESIGN/CONSTRUCTION

- Coordinate with Roadside Environmental Unit (REU) on design of landscaping and procurement strategy
- Attend meetings to monitor progress and address toll-related concerns
- Monitor construction of AET toll sites; 5 sites turned over to NCTA
- Update Proj. Mgmt. Plan (for Federal Highway Administration) as required

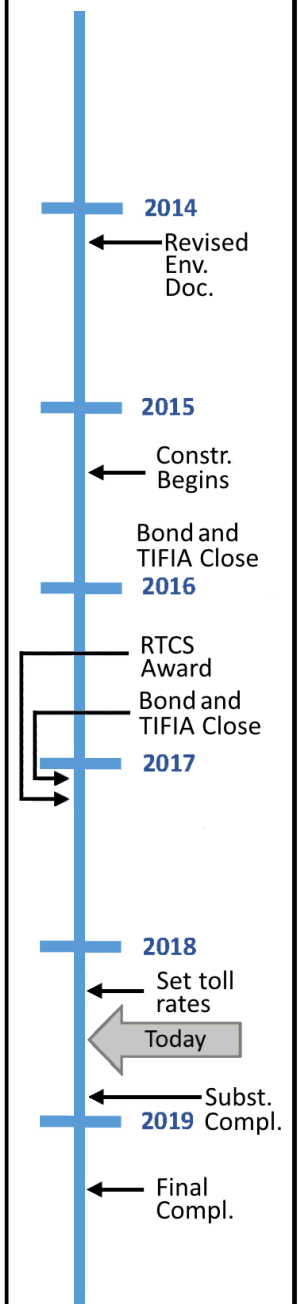
#### FINANCE

- Complete financial reporting documents as required:
  - Quarterly Construction Progress Report (for Wells Fargo)
  - Consulting Engineer's Report (for bond rating agencies)
  - Annual Financial Plan Update

#### ALL-ELECTRONIC TOLLING

- Manage Roadside Toll Collection System (RTCS) and Electronic Toll Collection System (ETCS) contracts
- Facilitate turnover of AET toll sites to the Toll System Integrator and monitor post-turnover equipment installation and testing
- Complete contract modifications to Back Office System (BOS)
- Implement Wrong-Way Detection & Notification system

#### PROJECT DELIVERY



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### **OPERATIONS**

- Open Monroe-area NC Quick Pass customer service center
- Coordinate with Metrolina Transportation Management Center to plan for and begin operational monitoring of toll road traffic

#### Additional Design-Build Team Information:

- **JOINT VENTURE PARTNERS:** **UNITED INFRASTRUCTURE GROUP, ANDERSON-COLUMBIA, BOGGS PAVING**
- **LEAD DESIGNER –** **RK&K**
- **SECONDARY ROADWAY DESIGNER –** **MULKEY** (now **CALYX**)
- **SECONDARY STRUCTURAL DESIGNERS –** **SIMPSON ENGINEERING, KCI, MULKEY** (now **CALYX**), **MORRIS ISRAELNAIM**
- **SIGNING & ITS DESIGN –** **RKK, DRMP**
- **STRUCTURAL CONTRACTORS –** **DELLINGER, DANE, SLOAN, UNITED, MOUNTAIN CREEK**
- **ROADWAY CONTRACTOR –** **ES WAGNER, VECELLIO AND GROGAN, SLOAN**
- **ELECTRICAL CONTRACTOR –** **T&H ELECTRIC**
- **GEOTECH AND GEOENVIRONMENTAL, PAVEMENT DESIGN –** **AMEC-FOSTER-WHEELER, F&ME**
- **PERMITTING & ENVIRONMENTAL -** **THE CATENA GROUP** (now **THREE OAKS**)
- **SYSTEMS INTEGRATION –** **T&H ELECTRIC, PROTRONIX**

#### Additional P & D Subconsultants:

- **INDIRECT AND CUMULATIVE EFFECTS ASSESSMENT, COST ESTIMATION –** **HNTB**
- **NATURAL RESOURCES –** **ENVIRONMENTAL SERVICES, INC.**
- **HISTORIC ARCHITECTURAL RESOURCES SURVEY –** **MATTSON, ALEXANDER, AND ASSOCIATES**
- **PRELIMINARY TRAFFIC AND REVENUE STUDY AND TRAFFIC FORECASTS -** **WILBUR, SMITH AND ASSOCIATES** (now **CDM SMITH**)
- **TRAFFIC FORECASTS –** **MARTIN/ALEXIOU/BRYSON** (now **VHB**)
- **RELOCATION REPORTS –** **CAROLINA LAND ACQUISITION**
- **INDIRECT AND CUMULATIVE EFFECTS –** **BAKER**
- **CULTURAL RESOURCES –** **NEW SOUTH ASSOCIATES**
- **BIOLOGICAL ASSESSMENT FOR ENDANGERED SPECIES -** **THE CATENA GROUP** (now **THREE OAKS**)
- **RIGHT OF WAY ACQUISITION:** **HNTB, CAROLINA LAND ACQUISITIONS, ATKINS, PROFESSIONAL PROPERTY SERVICES**

## PROJECT STATUS SHEET

### PROJECT DESCRIPTION

The purpose of this project is to provide a reliable travel time option by constructing one Express Lane in each direction on I-485 (Charlotte Outer Loop) from I-77 to US 74 (Independence Boulevard), for approximately 17 miles.

**P & D:** RS&H

**TRAFFIC ANALYSIS:** RS&H

**TRAFFIC & REVENUE:** STANTEC

\*\* see page 2 for further information

### IMPORTANT FACTS

Contract Award: October 2018

Projected Cost: \$289.5M (from STIP)

Open to Traffic: End of 2022

Type of Tolling: Express Lanes

### KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

#### PLANNING, DESIGN, CONSTRUCTION

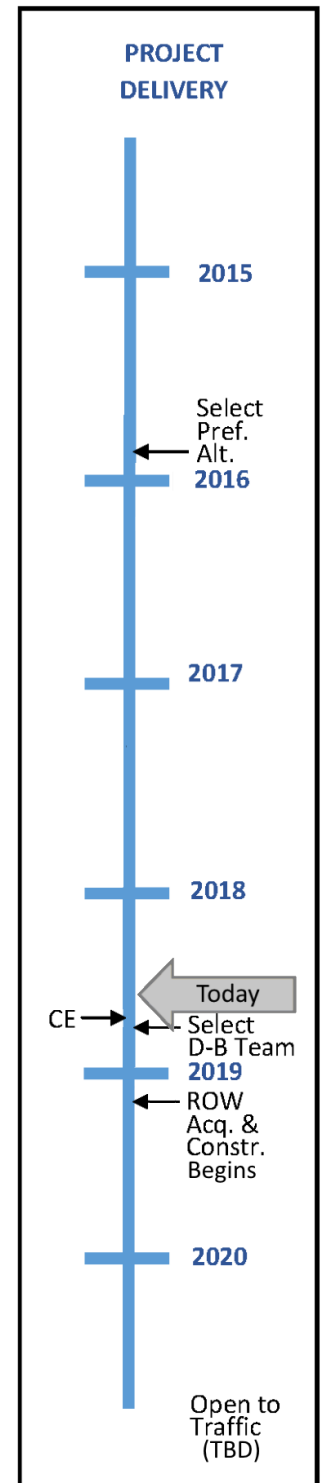
- Public Meetings held July 25-26, 2018; CE signatures anticipated mid-August
- Coordinate with PMU, Roadway Design, Design-Build Unit, Congestion Management, CRTPO and municipal members, and Division 10
- D-B Team Selection anticipated September 2018

#### FINANCE

- Level II Traffic & Revenue (T&R) Study (final draft completed)
- Complete Operations & Maintenance Model following T&R

#### ALL-ELECTRONIC TOLLING

- Complete estimates and planning for Toll Collection System (TCS) contracts



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Additional P & D Subconsultants:

- **AIR QUALITY ANALYSIS – VHB**
- **NATURAL RESOURCES – ENVIRONMENTAL SERVICES, INC.**
- **TRAFFIC FORECAST – CLEARBOX**
- **TRAFFIC OPERATIONS ANALYSIS – PATRIOT ENGINEERING**

Design-Build Scope & Concept Preparation:

- **SIGNING – HNTB**
  - **ITS & AET – ATKINS**
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## PROJECT STATUS SHEET

### PROJECT DESCRIPTION

The purpose of the project is to widen I-77 to ten lanes by constructing Express Lanes from I-485 (Exit 1) to I-277/NC 16 (Brookshire Freeway) (Exit 11). The total project length is 9.6 miles.

P & D: TBD

TRAFFIC ANALYSIS: TBD

TRAFFIC & REVENUE: TBD

### IMPORTANT FACTS

ROW Acquisition: 2024

Projected Cost: \$1.2B (STIP)

Construction Begins: 2027

Type of Tolling: Express Lanes

Open to Traffic: TBD

### KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

#### PLANNING, DESIGN, CONSTRUCTION

- Advertise Planning & Preliminary Design contract

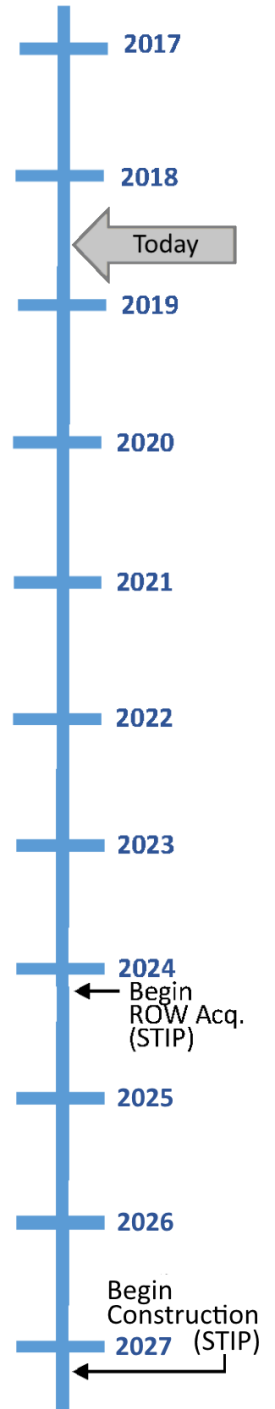
#### FINANCE

- No activities anticipated

#### ALL-ELECTRONIC TOLLING

- No activities anticipated

#### PROJECT DELIVERY





## PROJECT STATUS SHEET

### PROJECT DESCRIPTION

The proposed project calls for transportation improvements in the Currituck Sound area with focus on the consideration of a Mid-Currituck Bridge. The proposed action is a seven-mile long toll project including a two-lane bridge that spans Currituck Sound connecting the Currituck County mainland with its Outer Banks, and a separate two-lane bridge that spans Maple Swamp on the Currituck County mainland connecting Aydlett to US 158, in Currituck County.

**P & D:** WSP/PB \*\*

**TRAFFIC ANALYSIS:** WSP/PB

**TRAFFIC & REVENUE:** STANTEC

\*\* see page 2 for further information

### IMPORTANT FACTS

Construction Award: Early FY 2020

Projected Cost: \$489M (per STIP)

Open to Traffic: TBD

Type of Tolling: Variable

### KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

#### PLANNING/DESIGN/CONSTRUCTION

- Support the Project Development and Environmental Analysis (PDEA) Unit on completing the Reevaluation Report of the Environmental Impact Statement (EIS) and Record of Decision
- Determine procurement process for construction contract

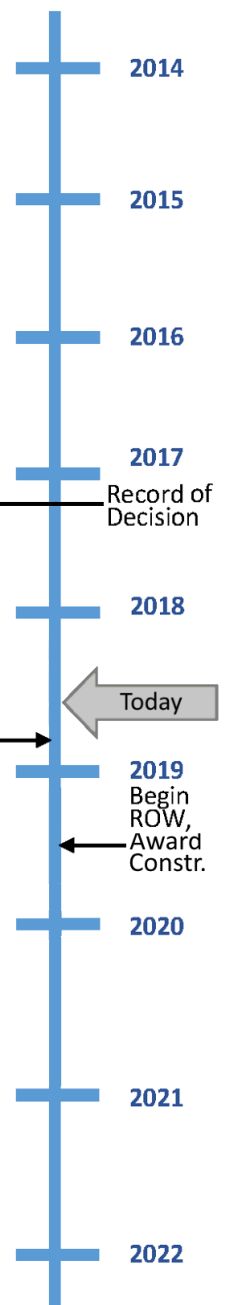
#### FINANCE

- Develop Investment Grade Traffic & Revenue (T&R) Study with Stantec
- Update cost estimates (Capital, Operations and Maintenance)
- Update Plan of Finance with PFM (NCTA financial advisor)

#### ALL-ELECTRONIC TOLLING

- No activities anticipated

#### PROJECT DELIVERY



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### Additional P & D Subconsultants:

- **HURRICANE EVACUATION MODELING – ATKINS**
- **NATURAL RESOURCES – CZR**
- **PUBLIC INVOLVEMENT – FITZGERALD & HALLIDAY, INC.**
- **PLAN OF FINANCE – PFM**

### Preliminary Engineering:

- **ROADWAY DESIGN PLANS – LOCHNER**
  - **HYDRAULIC DESIGN – WETHERILL**
  - **GEOTECHNICAL DESIGN – GOLDER**
  - **COASTAL & HYDRAULIC ENGINEERING, ENVIRONMENTAL MITIGATION, PERMIT APPLICATIONS – MOFFAT & NICHOL**
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## PROJECT STATUS SHEET

### PROJECT DESCRIPTION

The proposed project would widen and add Express Lanes to Independence Boulevard (US 74) from Wallace Lane in Charlotte to I-485 in Matthews, a distance of approximately 6.3 miles. This project is the second phase of the US 74 Express Lanes system and is also part of an overall Express Lanes network that includes planned Express Lanes on I-77 and I-485.

**P & D: VHB \*\***

**TRAFFIC ANALYSIS: AECOM**

**TRAFFIC & REVENUE: STANTEC**

\*\* see page 2 for further information

### IMPORTANT FACTS

Contract Award: Fiscal Year 2020

Projected Cost: \$508M (STIP)

Open to Traffic: TBD

Type of Tolling: Express Lanes

### KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

#### PLANNING/DESIGN/CONSTRUCTION

- Support the Project Development and Environmental Analysis (PDEA) Unit on developing alternatives for study
- Support the PDEA Unit on preparation of the Environmental Assessment (EA)
- Participate in Stakeholder Meetings and Public Meetings

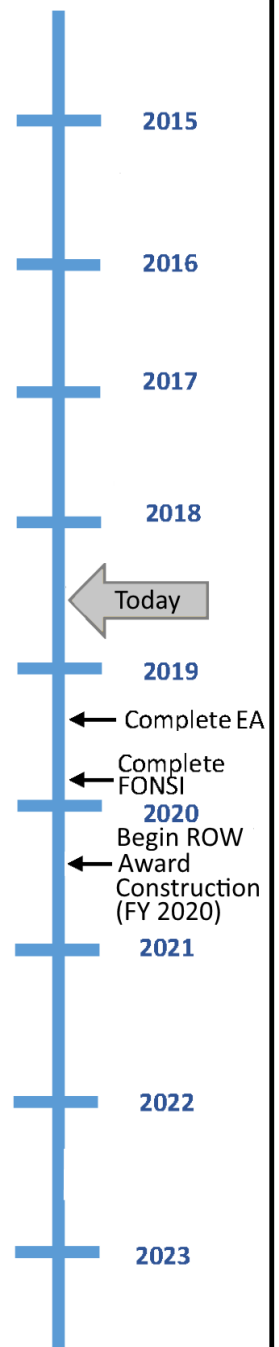
#### FINANCE

- Complete Level II Traffic & Revenue (T&R) Study
- Prepare cost estimates (Capital, Operations and Maintenance)
- Develop Preliminary Plan of Finance with PFM (NCTA financial advisor)

#### ALL-ELECTRONIC TOLLING

- No activities anticipated

#### PROJECT DELIVERY



## **PROJECT STATUS SHEET**

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Additional P & D Subconsultants:

- **PRELIMINARY HYDRAULIC ANALYSIS AND REPORT – [SUNGATE DESIGN GROUP](#)**
- **ICI WATER QUALITY ASSESSMENTS, T AND E SPECIES SURVEYS, STREAM AND WETLAND DELINEATIONS – [CATENA](#) (now [THREE OAKS](#))**
- **SURVEYING (STREAM AND WETLAND DELINEATIONS) – [TGS ENGINEERS](#)**

## PROJECT STATUS SHEET

### PROJECT DESCRIPTION

The proposed "Complete 540" project, also known as the Southeast Extension, would extend the Triangle Expressway from the NC 55 Bypass in Apex to the US 64/US 264 Bypass in Knightdale, completing the 540 Outer Loop around the greater Raleigh area. This proposed new location, limited-access, tolled highway would extend approximately 27 miles.

P & D: **LOCHNER \*\***

TRAFFIC ANALYSIS: **HNTB**

TRAFFIC & REVENUE: **CDM SMITH**

\*\* see page 2 for further information

### IMPORTANT FACTS

Construction to Start:

R-2721A, R-2721B, R-2828: FY 2020 (or earlier)  
R-2829: FY 2027

Projected Cost: \$2.2B

(from Final EIS)

Open to Traffic: End of 2023 (to I-40)

Type of Tolling: Fixed tolls

### KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

#### PLANNING/DESIGN/CONSTRUCTION

- Completed Record of Decision (ROD) on June 6, 2018
- Continue Design-Build procurements for R-2828, R-2721B and R-2721A
- Refine Project Management Plan (for Federal Highway Administration)

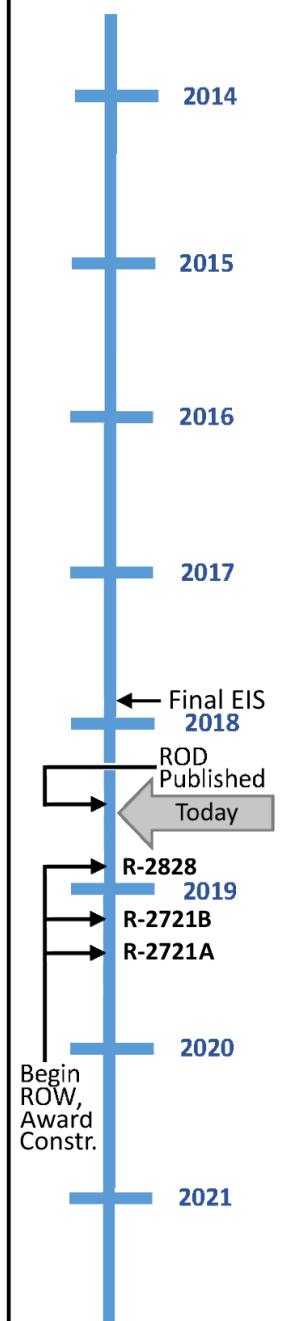
#### FINANCE

- Continue Traffic & Revenue (T&R) Study with CDM Smith
- Refine cost estimates (Capital, Operations and Maintenance)
- Develop Preliminary Plan of Finance with PFM (NCTA financial advisor)

#### ALL-ELECTRONIC TOLLING

- Select vendor for the Roadside Toll Collection System (RTCS) and begin project activities

#### PROJECT DELIVERY



Additional P & D Subconsultants:

List of subconsultants used to date:

- **BRANDING & LEP SERVICES – SPRINGBOARD/EYDO** (no longer in business)
- **NATURAL SYSTEMS – MULKEY** (now **CALYX**)
- **HYDROLOGY (PRELIMINARY) – MULKEY** (now **CALYX**)
- **MUSSEL SPECIES – CATENA** (now **THREE OAKS**)
- **HISTORIC ARCHITECTURE – MATTSON & ASSOCIATES**
- **UTILITIES – HINDE ENGINEERING**
- **RIGHT OF WAY (DEIS) – HDR**
- **QUANTITATIVE ICE – BAKER**
- **BIOLOGICAL ASSESSMENT T&E SPECIES – THREE OAKS**
- **ARCHAEOLOGY – COASTAL CAROLINA RESEARCH** (now **COMMONWEALTH HERITAGE GROUP**)
- **RIGHT OF WAY (FEIS) – CAROLINA LAND ACQUISITION**
- **PLAN OF FINANCE – PFM**

Potential future subconsultants for permits, hydrology, and right of way plans:

- **HYDROLOGY – SUNGATE DESIGN GROUP**
- **HYDROLOGY – ECOLOGICAL ENGINEERING**
- **PERMITS – ECOLOGICAL AND/OR SUNGATE**

NCTA Advisors:

- **PROJECT DELIVERY – DAWSON & ASSOCIATES**



## PROJECT STATUS SHEET

### PROJECT DESCRIPTION

The purpose of this project is to add capacity to the corridor between I-277 (Exit 11) in Charlotte (Mecklenburg County) and N.C. 150 (Exit 36) in Iredell County (26 miles). This project offers drivers the option of using the existing general-purpose lanes for free, or paying a toll to enter and exit the I-77 Express Lanes at various points.

**DEVELOPER: I-77 MOBILITY PARTNERS \*\***

**CONTRACTOR: SUGAR CREEK CONSTRUCTION**

**CEI: RK&K**

**P & D: ATKINS/RK&K \*\***

\*\* see page 2 for further information

### IMPORTANT FACTS

Construction Started: November 16, 2015

Projected Cost: \$665M

Open to Traffic: End of 2018

Type of Tolling: Express Lanes

### KEY NCTA ACTIVITIES

Listed below are key activities currently being conducted by NCTA to bring the project on-line.

#### CONSTRUCTION

- Participating in project meetings with I-77 Mobility Partners (I77MP)
- Conducting reviews of All-Electronic Tolling (AET) System, Intelligent Transportation System (ITS), Pavement Marking and Signing plans
- I-77 Storefront construction complete, equipment being installed, expect to open for operations September 2018

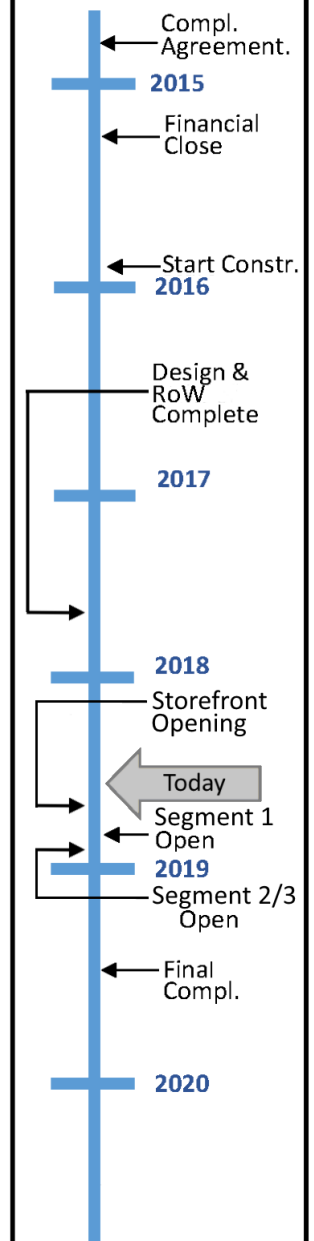
#### FINANCE

- No activities at this time

#### ALL-ELECTRONIC TOLLING

- Continue preparation of toll-related contract modifications in 2018:
  - Back Office System (BOS)
    - Interface Control Document and Processing Business Rules between I-77 and BOS (100% complete); HOV Declaration App being tested
  - Electronic Toll Collection System (ETCS)
    - Currently testing transaction file transfers. Also testing HOV Declaration App with Developer's Toll Collection System

#### PROJECT DELIVERY



**PROJECT STATUS SHEET**

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**OPERATIONS**

- **Toll Operations – Determining staff requirements for I-77 Storefront**
- **Co-located NCTA I-77 Customer Service Center in I77MP Administration & Maintenance Building (to open for operations September 2018)**
- **System communications requirements between I77MP to NCTA CSC have been developed**

**Additional Developer Team Information:**

- **PRIMARY DEVELOPER: CINTRA INFRAESTRUCTURAS, SA**
- **JOINT VENTURE PARTNERS: FERROVIAL AGROMAN, S.A. & W.C. ENGLISH, INC.**
- **LEAD DESIGNER – LOUIS BERGER**
- **FIELD SYSTEMS INTEGRATOR – KAPSCH**
- **FIELD SYSTEMS CIVIL CONSTRUCTION – GANNETT FLEMING**
- **FIELD SYSTEMS INSTALLATION – WORLD FIBER**
- **GEOTECH, PAVEMENT DESIGN, QUALITY CONTROL INSPECTION AND TESTING – PSI**
- **RIGHT OF WAY ACQUISITION – AMEC-FOSTER-WHEELER**
- **DEVELOPER'S COMMISSIONING AGENT - KILAN SOLUTIONS**

**Additional P & D Subconsultants:**

- **NOISE ANALYSIS, PRELIM. HYDRAULIC ANALYSIS, NATURAL RESOURCES, TRAFFIC OPERATIONS – RK&K**
- **AIR QUALITY ANALYSIS – KIMLEY-HORN AND ASSOCIATES**
- **HISTORIC ARCHITECTURAL RESOURCES SURVEY – URS (now AECOM)**
- **FINANCIAL PLAN AND INVESTMENT STRATEGIES – PFM GROUP**

**Other:**

- **NCDOT CONTRACT REVIEW CONSULTANT – MERCATOR ADVISORS LLC**
-