

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: \$15.2M (U-5315A+B)

Open to Traffic: November 2019 – Bridge
February 2020 – Interchange
Early Summer 2020 – Mainline Tolling

Type of Tolling: Fixed tolls

KEY NCTA ACTIVITIES

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

PLANNING/DESIGN/CONSTRUCTION

- Complete plans for landscaping, procure (through Division 5) and implement

FINANCE

- No activities anticipated

ALL-ELECTRONIC TOLLING

- Continue to implement subsystems related to toll vendors:
 - Roadside Toll Collection System (RTCS)
 - Back Office System (BOS)
 - Electronic Toll Collection System (ETCS)
 - Toll Operations (OPS)
 - Intelligent Transportation System (ITS) devices



PROJECT STATUS SHEET

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**

Additional consultants:

- **CEI – KCI, SEPI, SUMMIT, LOUIS BERGER, CALYX**

Contractor Subconsultants:

- **ITS AND SIGNING – T&H ELECTRIC**
 - **CONCRETE PAVING – CERTIFIED CONCRETE CONSTRUCTION**
 - **AESTHETIC GANTRIES AND SIGN STRUCTURES – SANFORD CONTRACTORS**
 - **ROADWAY LIGHTING – COLTER ELECTRIC**
 - **AET INFRASTRUCTURE – CALLIS CONTRACTORS**
 - **WATERLINE INSTALLATION – CORBETT CONTRACTING**
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PROJECT STATUS SHEET

PROJECT DESCRIPTION

The project would widen Independence Boulevard (US 74) in Charlotte from I-277 to just west of Idlewild Road to allow for two-way Express Lanes. This project supersedes U-5526A, which proposed to convert the existing bus lanes in the median to a reversible Express Lane from I-277 to Wallace Lane.

P & D: RS&H (U-6103)

NATURAL RESOURCES: THREE OAKS

DESIGN: RS&H/CDM SMITH

TRAFFIC ANALYSIS: RS&H/THREE OAKS

TRAFFIC & REVENUE: STANTEC

IMPORTANT FACTS

Contract Let: 2023 (tentative)

Projected Cost: \$95.3M (STIP)

Open to Traffic: 2026

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

- Refine design concepts, including access points and Albemarle Road direct connector, for additional evaluation
- Prepare traffic forecasts and origin-destination matrices
- Participate in Stakeholder Meetings
- Coordinate with adjacent Express Lane project (U-2509)
- Consultation and coordination with CDOT and CRTPO

FINANCE

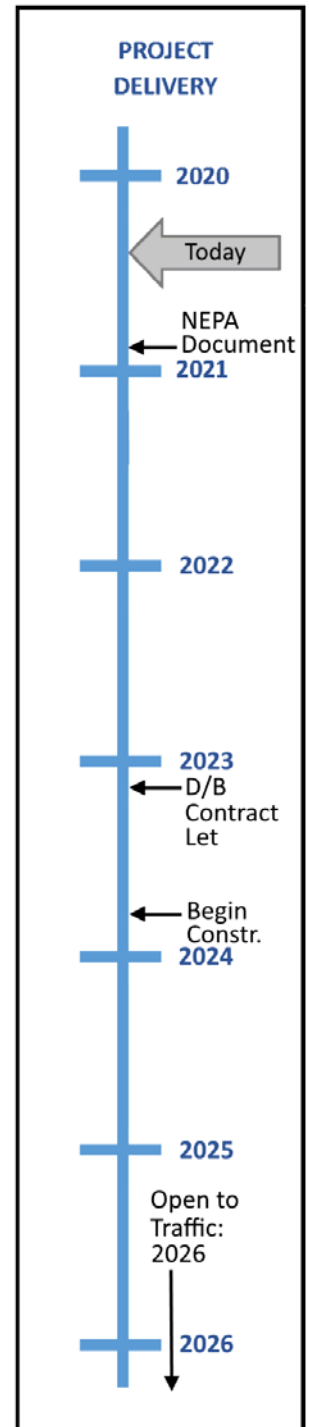
- Refine Operations & Maintenance Model as needed
- Refine joint U-6103/U-2509 Investment Grade Traffic & Revenue (T&R) Study as needed
- Update cost estimates (Capital, Operations and Maintenance)

ALL-ELECTRONIC TOLLING

- No activities anticipated

OPERATIONS

- Prepare for Express Lane Operations by coordinating with NCDOT Division 10 and local transportation management centers



PROJECT STATUS SHEET

PROJECT DESCRIPTION

The project is 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 has 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

Final Completion: Summer 2020

KEY NCTA ACTIVITIES

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

DESIGN/CONSTRUCTION

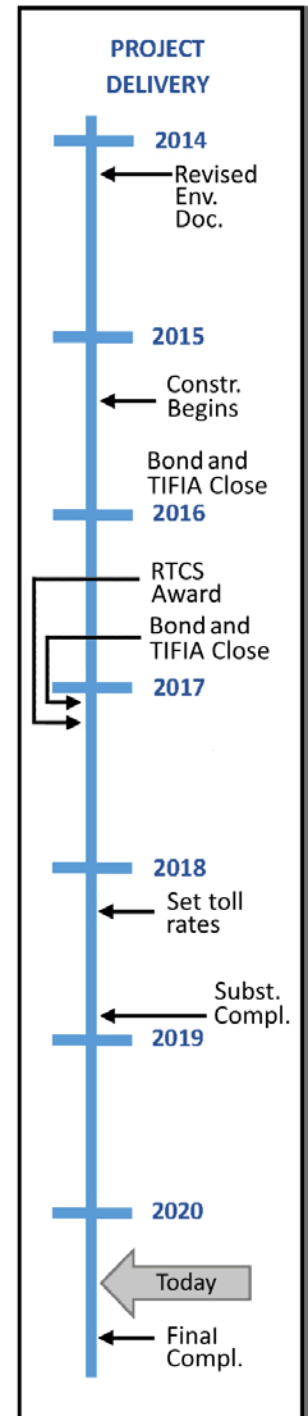
- Coordinate with Roadside Environmental Unit (REU) on implementation of landscaping (Phase 1) and procurement and implementation of Phase 2
- Attend meetings as necessary to close out acceptance of ITS, aesthetics, and toll-related components
- Monitor outstanding construction punchlist items (aesthetics, Y-line, etc.) necessary to close out project.

FINANCE

- Continue efforts related to appropriation bond refunding.

ALL-ELECTRONIC TOLLING

- Monitor Roadside Toll Collection System (RTCS) and Electronic Toll Collection System (ETCS) system performance
- Monitor installed Wrong-Way Detection & Notification system
- Implement full maintenance program for accepted ITS components



PROJECT STATUS SHEET

OPERATIONS

- Pursue initiatives to promote new Customer Service Center and NC Quick Pass transponder sales
- Coordinate with Metrolina Regional Transportation Management Center to refine 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

Other:

- **LANDSCAPING (PHASE I):** CHAMPION LANDSCAPING
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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 Began:

R-2721A, R-2721B, R-2828: late 2019/early 2020
R-2829: FY 2029

Projected Cost: \$2.2B

(from Final EIS)

Open to Traffic: 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

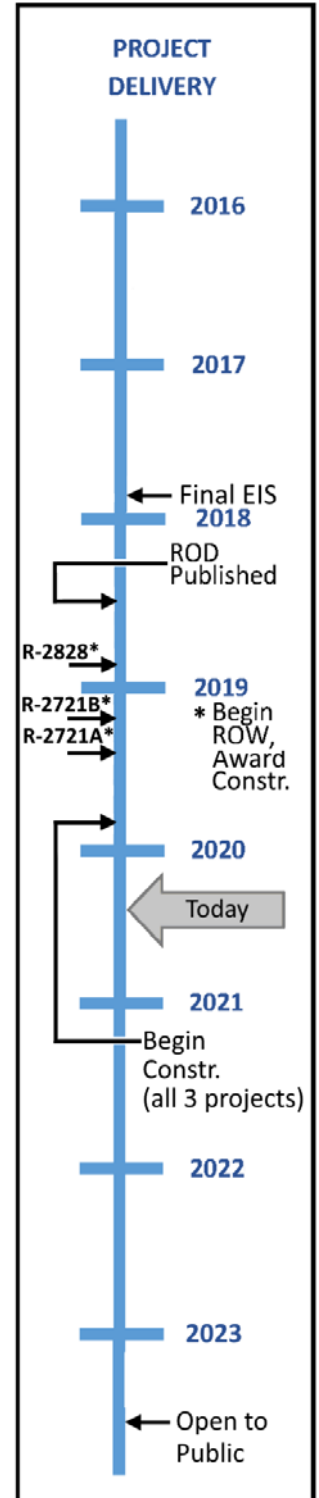
- Coordinate with the environmental agencies to modify environmental permits based on Design-Build Teams' final designs (to reflect reductions in impacts)
- Review and respond to Design-Build Teams' design submittals
- Continuing right-of-way acquisition
- Continuing utility relocations
- Coordinating with construction teams and Division 5
- Prepare Quarterly Construction Progress Reports
- Hold first Dispute Review Board meetings

FINANCE

- Traffic & Revenue (T&R) Study Completed by CDM Smith
- Closed on TIFIA Loan, Bond Sales in December 2019
- Update the Initial Finance Plan (for Federal Highway Administration) as needed
- Monitoring expenditures
- Continuing to analyze TIFIA BANs transaction for Phase 1

ALL-ELECTRONIC TOLLING

- Continue project activities with selected vendor for the Roadside Toll Collection System (RTCS)



PROJECT STATUS SHEET

Additional P & D Subconsultants:

- **BRANDING & LEP SERVICES – SPRINGBOARD/EYDO** (no longer in business)
- **NATURAL SYSTEMS & HYDROLOGY (PRELIMINARY) – MULKEY** (now CALYX)
- **MUSSEL SPECIES – CATENA** (now THREE OAKS)
- **HISTORIC ARCHITECTURE – MATTSON, ALEXANDER & 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**

Subconsultants for permits, hydrology, and right of way plans:

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

NCTA Advisors and Vendors:

- **PROJECT DELIVERY – DAWSON & ASSOCS.**
- **ROADSIDE AET SYSTEM – KAPSCH**

R-2828 Design-Build Team:

- **CONSTRUCTOR JOINT VENTURE– LANE CONSTRUCTION CORP., BLYTHE CONSTRUCTORS, INC.**
- **LEAD DESIGNER – WSP**
- **GEOTECH – TERRACON**
- **ITS, SURVEY – DRMP**
- **ITS AND AET CONSTRUCTOR - TCD**
- **RIGHT OF WAY ACQUISITION – AAG**
- **UTILITY COORDINATION – TELICS**
- **STRUCTURE DESIGN – WETHERILL**
- **PERMITTING & ENVIRONMENTAL - THREE OAKS**

R-2721B Design-Build Team:

- **CONSTRUCTOR JOINT VENTURE– FLATIRON CONSTRUCTORS INC., BRANCH CIVIL INC.**
- **LEAD DESIGNER – HDR ENGINEERING INC. OF THE CAROLINAS**
- **GEOTECH – HDR ENGINEERING INC. OF THE CAROLINAS**
- **ITS – HDR ENGINEERING INC. OF THE CAROLINAS**
- **ITS AND AET CONSTRUCTOR – TO BE DETERMINED**
- **UTILITY COORDINATION – HDR ENGINEERING INC. OF THE CAROLINAS, SO-DEEP**
- **STRUCTURE DESIGN – HDR ENGINEERING INC. OF THE CAROLINAS, SIMPSON ENGINEERS & ASSOCIATES, PC**
- **PERMITTING & ENVIRONMENTAL - HDR ENGINEERING INC. OF THE CAROLINAS**

R-2721A Design-Build Team:

- **CONSTRUCTOR JOINT VENTURE– FLATIRON CONSTRUCTORS INC., BRANCH CIVIL INC.**
- **LEAD DESIGNER – GANNETT FLEMING, INC.**
- **GEOTECH – KLEINFELDER, INC.**
- **ITS – GANNETT FLEMING, INC.**
- **ITS AND AET CONSTRUCTOR - TO BE DETERMINED**
- **UTILITY COORDINATION – KCI ASSOCIATES OF NORTH CAROLINA, PA**
- **STRUCTURE DESIGN – GANNETT FLEMING, INC., KCI ASSOCIATES OF NORTH CAROLINA, PA, SIMPSON ENGINEERS & ASSOCIATES, INC.**
- **PERMITTING & ENVIRONMENTAL - MOFFATT & NICHOL, INC.**

Representing Division 5:

- **CONSTRUCTION ENGINEERING & INSPECTION – SUMMIT, S&ME**

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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 a part 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: FY 2022 (A project), FY 2023 (B project); schedule subject to change

Projected Cost: \$605.3M (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

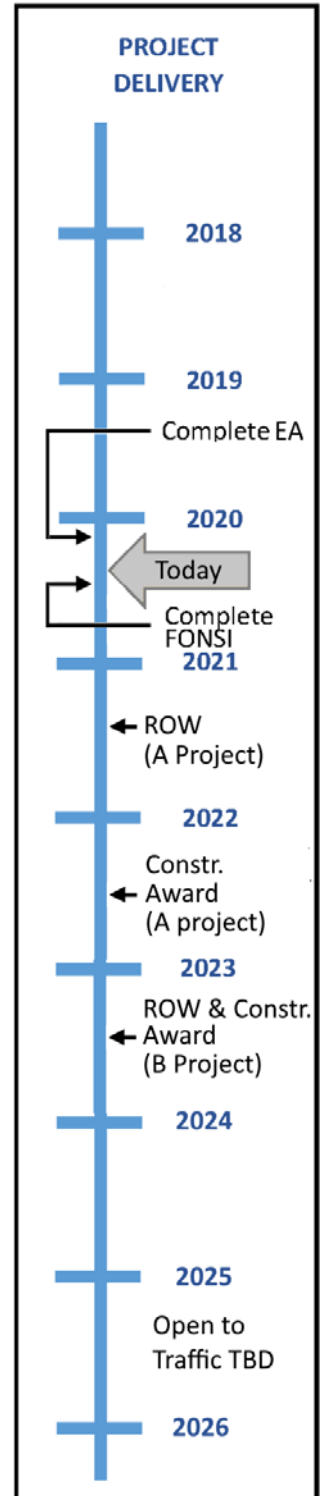
- Environmental Assessment approved in January 2020
- Public meetings held in January 2020
- Support the Project Delivery Unit on project development efforts
- Support the Project Delivery Unit on preparation of the final environmental document (expected to be a Finding of No Significant Impact)
- Participate in Stakeholder Meetings and Public Meetings

FINANCE

- Refine Operations & Maintenance Model as needed
- Refine joint U-6103/U-2509 Investment Grade Traffic & Revenue (T&R) Study as needed
- Update cost estimates (Capital, Operations and Maintenance)

ALL-ELECTRONIC TOLLING

- No activities anticipated



PROJECT STATUS SHEET

OPERATIONS

- Prepare for Express Lane Operations by coordinating with NCDOT Division 10 and local transportation management centers

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](#)
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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: August 2021

Projected Cost: \$492M (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

- Reevaluation Report of the Environmental Impact Statement (EIS) and Record of Decision completed in March 2019
- Prepare Administrative Record for the legal challenge on the environmental document
- Coordinate with environmental agencies and develop environmental permit applications
- Determine procurement process for construction contract

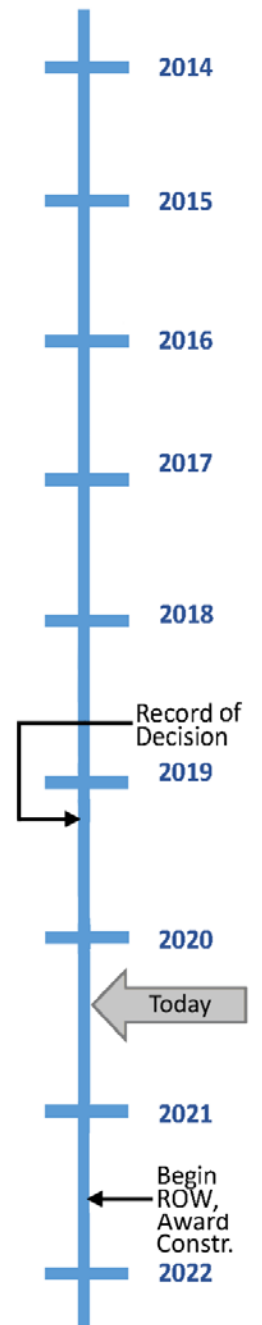
FINANCE

- Update, as appropriate, Investment Grade Traffic & Revenue (T&R) Study with Stantec to support future project finance efforts
- Update cost estimates (Capital, Operations and Maintenance)
- Update Plan of Finance with PFM (NCTA financial advisor)

ALL-ELECTRONIC TOLLING

- No activities anticipated

PROJECT DELIVERY



PROJECT STATUS SHEET

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 – MOFFATT & NICHOL**
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PROJECT STATUS SHEET

PROJECT DESCRIPTION

The project would widen I-77 to ten lanes by constructing Express Lanes from the South Carolina state line to I-277/NC 16 (Brookshire Freeway) (Exit 11). The total project length is 11.2 miles and also includes reconstructing the interchanges at I-77/I-277 (Belk and Brookshire Freeways).

The planning and preliminary design contract for this project has been combined with the same services for the U-6103 Express Lanes project on US-74.

IMPORTANT FACTS

ROW Acquisition: FY 2025

Projected Cost: \$1.2B (STIP)

Construction Begins: FY 2029

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.

P & D: **RS&H**

TRAFFIC ANALYSIS: **RS&H**

TRAFFIC & REVENUE: **STANTEC**

PLANNING, DESIGN, CONSTRUCTION

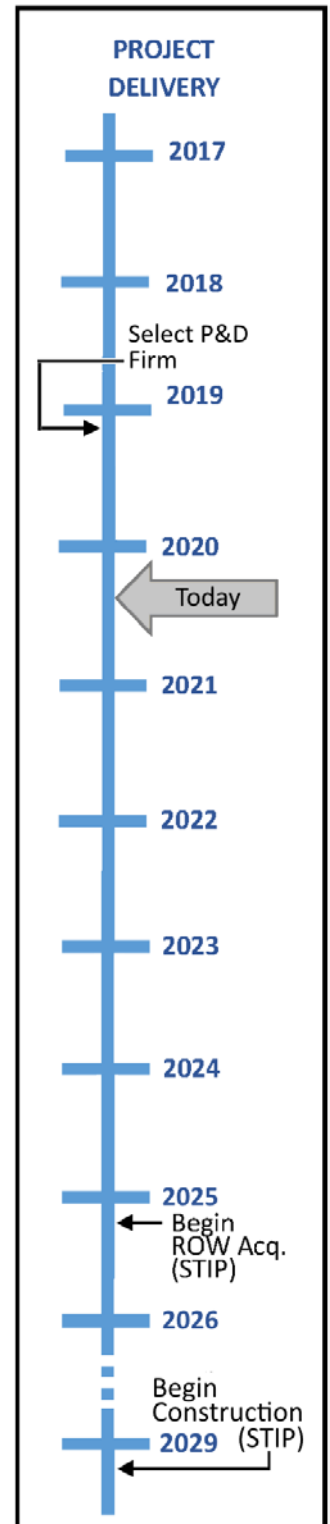
- Initial planning/scoping and preliminary design tasks on hold

FINANCE

- No activities anticipated

ALL-ELECTRONIC TOLLING

- No activities anticipated



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, and other improvements.

CONTRACTOR: BLYTHE CONSTRUCTION

LEAD DESIGNER: WSP

TRAFFIC & REVENUE: STANTEC

** see page 2 for further information

IMPORTANT FACTS

Contract Award: October 2018

Projected Cost: \$346M (as bid)

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

- Coordination ongoing with Design-Build Unit, CRTPO and municipal partners, and Division 10 as needed
- Review preliminary and final plans as needed
- Prepare for toll equipment integration

FINANCE

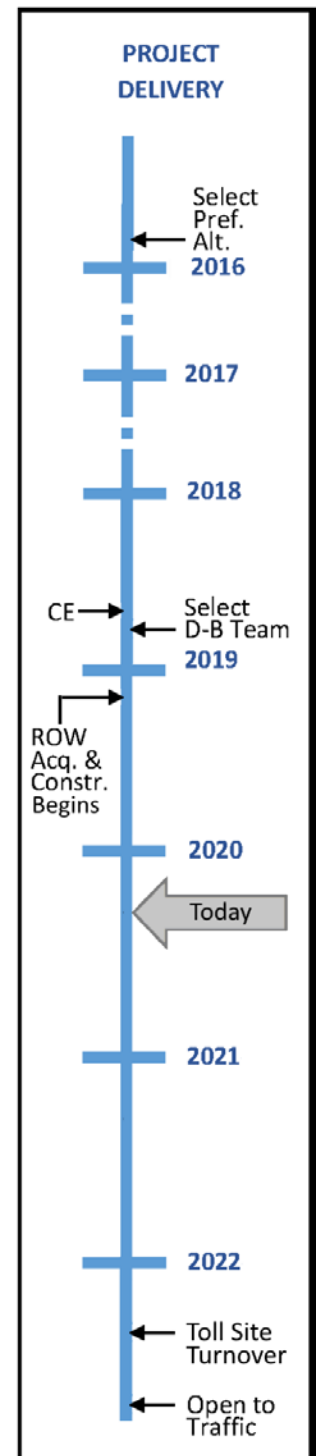
- Complete Operations & Maintenance Model

ALL-ELECTRONIC TOLLING

- Continue planning for Toll Collection System (TCS) contracts
 - Issue Request for Proposals (RFP) and review submittals for Roadside TCS vendor selection

OPERATIONS

- Prepare for Express Lane Operations by coordinating with NCDOT Division 10 and local transportation management centers



PROJECT STATUS SHEET

P & D Consultants:

- LEAD – **RS&H**
- TRAFFIC ANALYSIS – **RS&H**
- 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**

Design-Build Team:

- GEOTECH – **TERRACON**
- ITS, ROADWAY, STRUCTURES DESIGN – **DRMP**
- ITS AND AET CONSTRUCTOR - **TCD**
- RIGHT OF WAY ACQUISITION – **TELICS**
- UTILITY COORDINATION – **UCC**
- MOT, SIGNING & PAVEMENT MARKING – **PROGRESSIVE DESIGN GROUP**

Representing Division 10:

- CONSTRUCTION ENGINEERING & INSPECTION – **SEPI, SUMMIT, RK&K, CECS**
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PROJECT STATUS SHEET

PROJECT DESCRIPTION

The purpose of this project is provide options for reliable travel time in the corridor between I-277 (Exit 11) in Charlotte (Mecklenburg County) and NC 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, or ride for free as HOV3+.

DEVELOPER: I-77 MOBILITY PARTNERS **
CONTRACTOR: SUGAR CREEK CONSTRUCTION
NCTA OPERATIONS REP: RS&H
CEI: RK&K
P & D: ATKINS/RK&K **
 ** see page 2 for further information

IMPORTANT FACTS

Construction Started: November, 2015 Projected Cost: \$665M
 Opened North Section EL's – June 2019
 Opening of South Section EL's – November 2019
 Final Acceptance of North Section – June 2020
 Final Acceptance of Central and South Sections - TBD

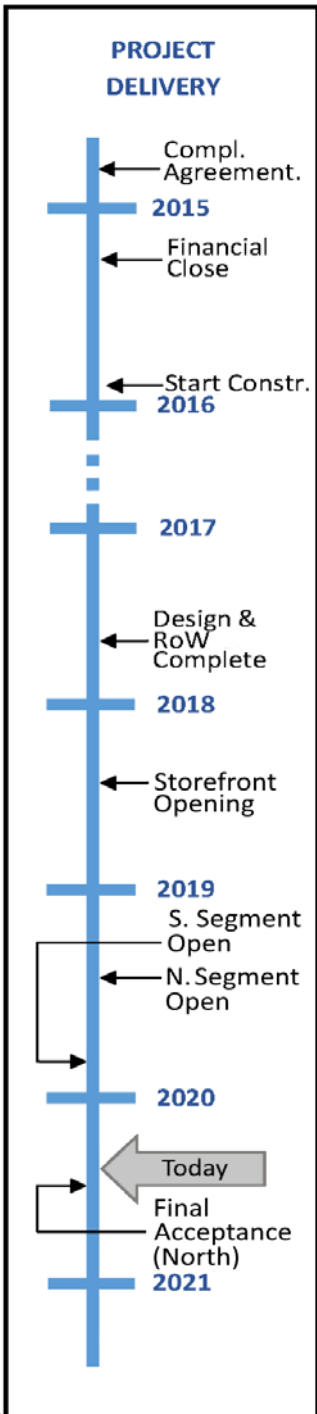
Type of Tolling: Express Lanes

KEY NCTA ACTIVITIES

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

- #### CONSTRUCTION
- Continue to participate 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
 - Assisting in the assessment of risk in relation to on-going compensation event mediations
 - Assisting NCDOT in managing the project from Construction into the Operating Period

- #### FINANCE
- Amendment 9 will create an additional vehicle class for 2 axle vehicles longer than 22 feet and for 2 axle vehicles with single axle trailers which allows access to EL's at a higher toll rate. Provides greater transparency by publishing toll rates on dedicated project website and identifies NCDOT's rights to establish a frequent user discount program. Implementation is expected in October 2020.



PROJECT STATUS SHEET

(see Page 2)

ALL-ELECTRONIC TOLLING

- Implement toll-related contract modifications (to address Amendment 9)
- Monthly reconciliation meetings are being held with I-77 Mobility Partners

OPERATIONS

- Toll Operations – I-77 Storefront fully staffed and operational
- System communications requirements and file transfers between I77MP to NCTA CSC are ongoing.
- All Roadside System Integration Testing complete. All project sections in operation since November 2019.
- NCTA/RS&H holding O&M transition meetings with NCDOT to cover obligations from both parties per the Comprehensive Agreement in the Operating Period.

Additional Developer Team Information:

- PRIMARY DEVELOPER: **CINTRA INFRASTRUCTURAS, 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**
- LEGAL COUNSEL – **NOSSAMAN, LLP**