



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

March 9, 2018

Memorandum To: Internal/External Scoping Meeting Attendees

From: Beverly Robinson, Senior Project Manager
Central Project Management Unit

Subject: External Scoping Meeting for Improvements to I-85 Interchange with
SR 1009 (South Churton Street) in Hillsborough, NC, STIP No. I-5967

The Project Development Unit has started the project development, environmental and engineering studies for the subject project. The project is included in the NCDOT 2018 – 2027 State Transportation Improvement Program (STIP) and is scheduled for right-of-way acquisition to begin in fiscal year 2022 and construction to begin in fiscal year 2024. An Internal/External Scoping Meeting and Merger Screening has been scheduled for March 22, 2018 and will be held in the Structure Design Conference Room C in Building A of the NCDOT Century Center (1000 Birch Ridge Drive) in Raleigh from 8:00 to 9:30 a.m.

The general purpose of this meeting is to begin early coordination with our agency partners by discussing the known information about the project and project area. There are Project Data Sheets, mapping, and other materials for this meeting in the project file located on [CONNECT](#) and the [PDEA Merger website](#). Please review the material and be prepared to discuss any additional known information regarding your resource and/or area of expertise as it may concern the project. We would especially appreciate any information you might have that would be helpful in identifying and evaluating important issues or topic that should be considered.

Thank you for your assistance in the project development process. Comments and questions concerning the project or the Project Data Sheets can be directed to Gene Tarascio, Project Manager, at (919) 707-6046 or by email at gtarascio@ncdot.gov. You may also contact John Williams of RK&K at (919) 653-7358 or by email at jwilliams@rkk.com. If you cannot attend the meeting, please forward your comments by March 21, 2018. Please include the STIP Project Number, I-5967, in all correspondence and comments.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
CENTRAL PROJECT MANAGEMENT UNIT
1548 MAIL SERVICE CENTER
RALEIGH, NC 27699-1548

Telephone: (919) 707-6000
Fax: (919) 250-4224
Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location:
1000 BIRCH RIDGE DRIVE
RALEIGH, NC 27610

PROJECT DATA SHEET

Date: 3/05/18
Rev.:

STIP No.: I-5967	County: Orange
Federal-aid No.: N/A	WBS No.: 45917.1.1
NCDOT Division: 7	Scoping Meeting Date: March 22, 2018

Project Description:

- **Improve I-85 Interchange with South Churton St (SR 1009) in Hillsborough (Exit 164), Orange County, NC**
- MPO / RPO: Durham-Chapel Hill-Carrboro MPO
- NEPA / 404 Merger Candidate? Yes No Unknown

Existing Conditions:

- Functional Classification:
 - I-85 – Interstate
 - Churton St. – Minor Arterial
<http://ncdot.maps.arcgis.com/home/webmap/viewer.html?layers=029a9a9fe26e43d687d30cd3c08b1792>
- Strategic Transportation Corridor: Yes
<https://connect.ncdot.gov/projects/planning/Pages/NCTransportationNetwork.aspx>
- Type of Access Control: Full Access Control along I-85
- Typical Section:
 - I-85 Existing 4 Lanes, paved shoulders
Proposed 4, 6 or 8 lanes?
 - Churton Street Existing 3 lanes undivided
Proposed (U-5845) 4 lanes undivided with bike lanes and sidewalks
- Right of Way:
 - Varies from 280 to 700 feet along I-85 in the area of the interchange
 - Roughly 100 feet along Churton Street
<https://gis.orangecountync.gov:8443/orangencgis/default.htm>
- Posted Speed: I-85 - 65 mph, Churton Street 35 mph
- Other STIP Projects in the Area:
 - I-5959 (2024 Const.) Pavement Rehab along I-85
 - U-5845 (2024 Const.) Widen Churton St to Multilanes (Kimley Horn)
 - I-5984 (2026 Const.) Upgrade I-85 Interchange with NC 86
 - P-5701 (2021 Const.) Rail Station near intersection of Churton St and Orange Grove Road
<https://connect.ncdot.gov/projects/planning/Pages/State-Transportation-Improvement-Program.aspx>

- Structure Inventory (bridges, RCBC, Walls, etc.):
 - I-85 SBL (Bridge No. 670087) over **Churton Street**
 - Sufficiency 66.0; Funct. Obsolete, No posted weight limits
 - I-85 NBL (Bridge No. 670083) over **Churton Street**
 - Sufficiency 77.0; Functionally Obsolete, No posted weight limits
 - I-85 SBL (Bridge No. 670082) over **Orange Grove Rd**
 - Sufficiency 77.21; Functionally Obsolete, No posted weight limits
 - I-85 NBL (Bridge No. 670081) over **Orange Grove Rd**
 - Sufficiency 64.82; Functionally Obsolete
 - I-85 SBL (Bridge No. 670093) over **Southern RR**
 - Sufficiency 76.92; Functionally Obsolete
 - I-85 SBL (Bridge No. 670082) over **Southern RR**
 - Sufficiency 65.51; Functionally Obsolete
- <https://ncdot.maps.arcgis.com/home/webmap/viewer.html?webmap=db3b56c3228743b3811e36761393d661>
- Railroad Involvement: Currently, the team does not envision the project extending to Orange Co. Bridges 82 and 93 on I-85 over Southern RR.

Transit:

Two bus routes pass through the interchange on Churton Street

- Orange Alamance Connector Route - <http://www.orangecountync.gov/departments/ORANGE-ALAMANCE.pdf>
- Orange-Chapel Hill Connector Route - <http://www.orangecountync.gov/departments/uploads/ORANGE-CHCONNECTOR.pdf>

Long Range Plan History:

The November 2017 Durham-Chapel Hill-Carrboro Planning Organization (DCCMP) Comprehensive Transportation Plan includes I-5967 as an interchange to be improved either with I-85 or as a standalone project. I-5967 was picked up in the P4.0 round of STI prioritization. It was included in the draft Statewide Strategic Mobility program released in Spring 2016. It was added to the 2016-2025 STIP for planning and environmental study only in February 2017. It is included in the 2018-2027 adopted by the Board of Transportation in August 2017.

Sources: 2017 DCCMP-CTP and Mike Stanley of NCDOT Program Development

Traffic Data (AADT):

	I-85	Churton St
2016	38,700 just west of interchange 45,200 just east of interchange	24,800 just north of interchange 21,700 just south of interchange
2040	49,000 just west of interchange 58,800 just east of interchange	37,000 just north of interchange 36,500 just south of interchange

U-5845 /U-5848 Rev Traffic Forecast 3/16/17.

TIP Cost Estimates:

Construction	Right-of-Way	Utilities	Total
\$16,900,000	\$3,300,000	\$500,000	\$20,700,000

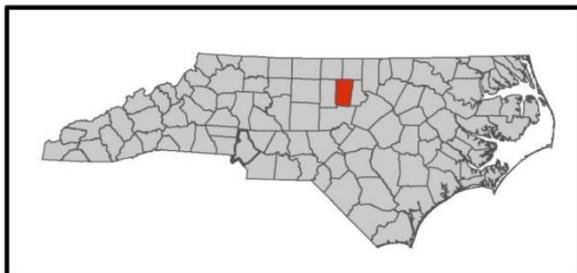
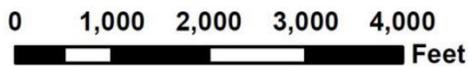
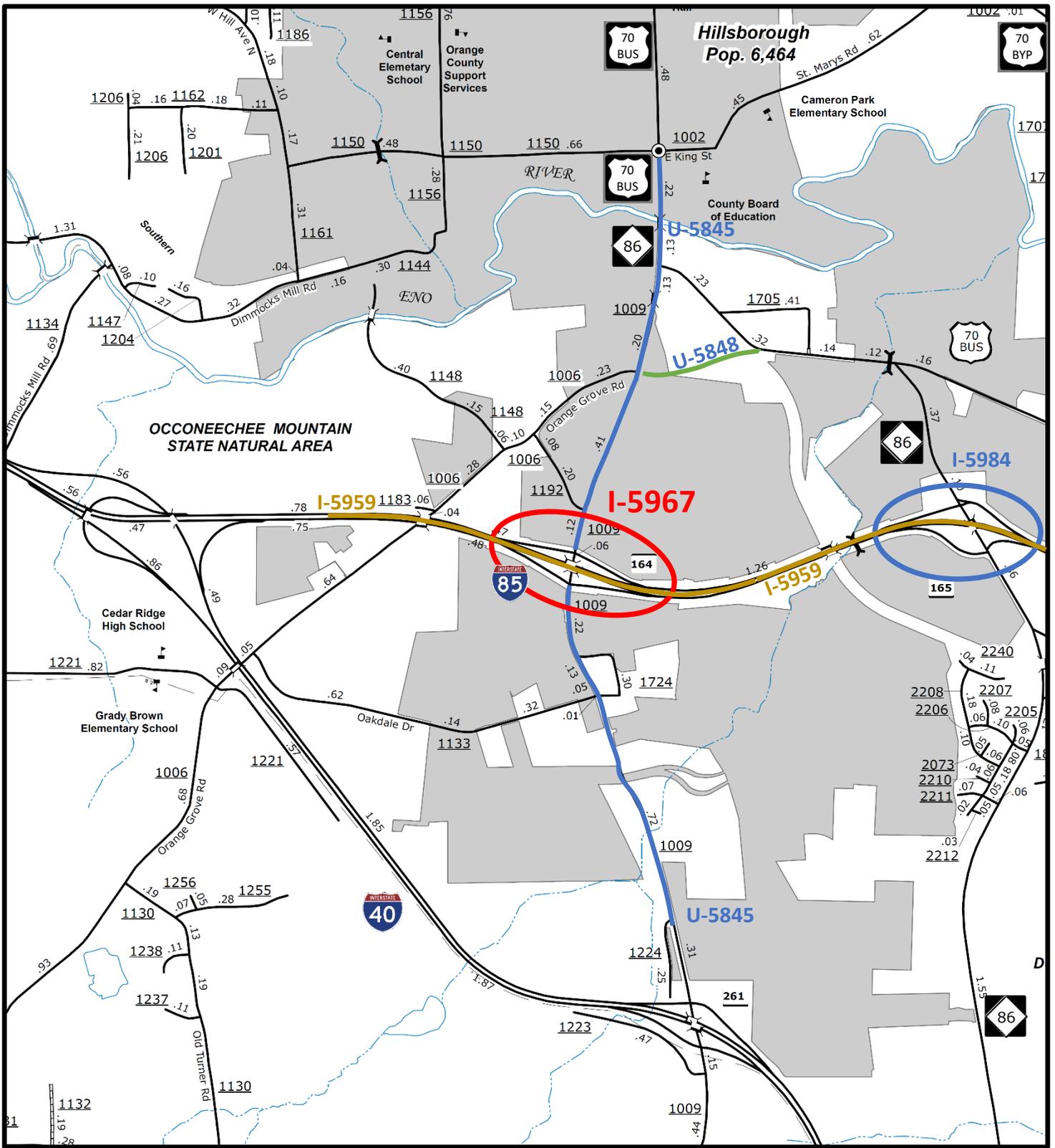
<https://connect.ncdot.gov/projects/planning/STIPDocuments1/2018-2027%20STIP%20-%20Divisions%208-14.pdf>

Project Schedule:

Environmental Document – April 2019

Right-of-Way: 2022*

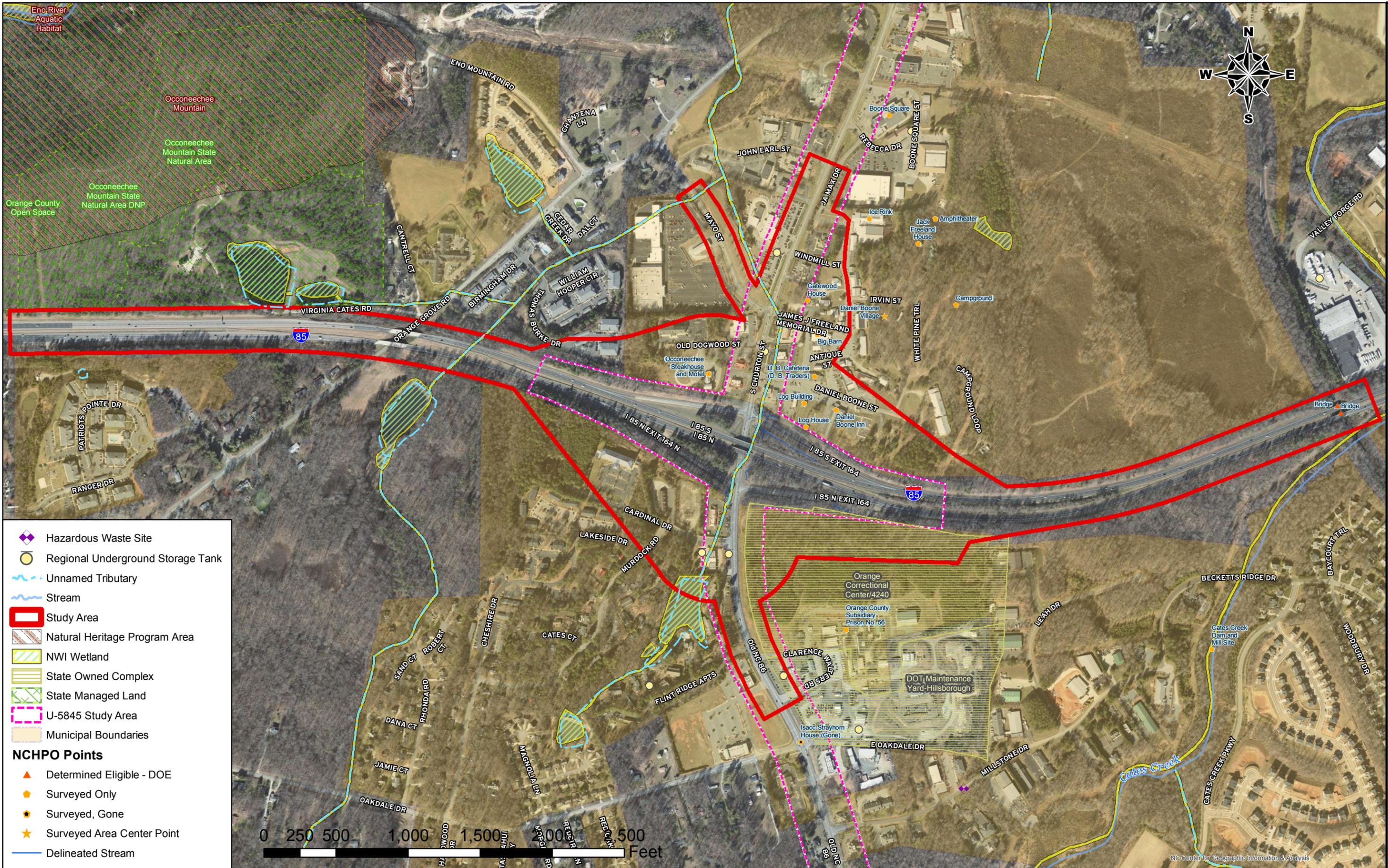
Let: 2024*



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PROJECT
VICINITY
MAP

INTERCHANGE IMPROVEMENTS
I-85 / S. CHURTON ST.
ORANGE COUNTY
STIP PROJ. NO. I-5967



◆ Hazardous Waste Site
 ○ Regional Underground Storage Tank
 ~ Unnamed Tributary
 ~ Stream
 [Red Outline] Study Area
 [Hatched Box] Natural Heritage Program Area
 [Green Hatched Box] NWI Wetland
 [Yellow Hatched Box] State Owned Complex
 [Green Hatched Box] State Managed Land
 [Pink Dashed Outline] U-5845 Study Area
 [Orange Outline] Municipal Boundaries
NCHPO Points
 ▲ Determined Eligible - DOE
 ● Surveyed Only
 ● Surveyed, Gone
 ★ Surveyed Area Center Point
 — Delineated Stream



Note: The following are resources within the study area, not measured impacts

Resource/Affected Environment	Applicability/Resources in Study Area
Cultural Resources	
Properties Study Listed for National Register of Historic Places	<ul style="list-style-type: none"> •Occoneechee Steakhouse and Motel •D.B. Cafeteria (D.B. Traders) •The Colorado Burrito (Log house and out building) •Daniel Boone Inn •Orange County Subsidiary Prison No. 56 5 Total
Human Resources	
Community Resources	All structures <u>within</u> the study area are businesses. Just outside the study area: <ul style="list-style-type: none"> • Hillsborough Fire Dept. – 1 mile north on Churton St. • UNC Healthcare - Hillsborough – 1.3 miles south • Pinewoods Montessori School, 0.4 miles south
Public Parks	Occoneechee Mountain State Natural Area (state park)
Residential Properties	There are no residential properties within the likely footprint of the project.
Business Properties	21 businesses
% Low Income/Minority Populations	For I-5967 There are 5 block groups in the study area with: <ul style="list-style-type: none"> •minority populations ranging from 18 to 42% and •low income pop. Ranging from 17 to 45%
Limited English Proficiency	(14% language Isolation in one of the five block groups), U-5845 CCR indicates Language Assistance may be required.
Bicycle and Pedestrian	U-5845 anticipates includes accommodations for both bicycles and pedestrians that I-5967 will also need to accommodate along Churton Street.
School Busses	From U-5845 CCR, South Churton Street is traveled by 14 school busses in the morning and 7 busses at midday. Orange County has requested construction take place as much as possible when school is out of session

Note: The following are resources within the study area, not measured impacts

Resource/Affected Environment	Applicability/Resources in Study Area
<p>Natural Resources</p> <p>Streams</p>	<p>From U-4845 Survey within I-5967 limits:</p> <ul style="list-style-type: none"> •SC Perennial 112 ft. (Buffer Rules Apply) •SD Intermittent 82 ft. •SU Perennial 419 ft. •SU Intermittent 130 ft. •SV Intermittent 89 ft. •SW Perennial 300 ft. (Buffer Rules Apply) <p>From Additional Study Area for I-5967</p> <ul style="list-style-type: none"> •Stream on north side of I-85 2000 feet •Along south side of I-85 1200 feet
<p>Wetlands</p>	<p>None within study area of I-5967</p>
<p>Critical Water Supply Watersheds</p>	<p>None within 1 mile of the study area</p>
<p>Riparian Buffer Rules</p>	<p>Neuse River Buffer Rules (applies to SC and SW) Unknown regarding streams outside U-4845 Buffer Area</p>
<p>Listed Endangered Species for Orange Co.</p>	<p>From U-4845</p> <ul style="list-style-type: none"> •Michaux Sumac – No Effect •Smooth Coneflower – No Effect •Dwarf Wedge Mussel – May Affect, Not Likely to Adversely Affect – this concern focuses mainly on the Eno River which is roughly one mile away from I-5967.
<p>Physical Environment</p>	
<p>Hazardous Materials</p>	<p>None – based on DEQ Hazardous Mat Database</p>
<p>Utilities</p>	<p>Multiple Utilities through project area. 811 ticket currently underway to identify utility owners.</p>
<p>Voluntary Agricultural District</p>	<p>N/A</p>
<p>Noise</p>	<p>Impacts to be determined</p>