

Project Development and Environmental Analysis Branch

Project Data Sheets

Preliminary

<u>TIP No.:</u>	U-5845	<u>Sent Date:</u>	August 24, 2016
<u>WBS No.:</u>	50235.1.1	<u>Revision Date:</u>	
<u>Federal Aid No:</u>	N/A	<u>Meeting Date:</u>	September 22, 2016
<u>Division:</u>	7		
<u>County:</u>	Orange		

Project Description: Widen S. Churton Street from I-40 to Eno River

General Project Need: Reduce congestion from I-40 and I-85 into/out of Hillsborough

Metropolitan / Rural Planning Organization: Durham-Chapel Hill-Carrboro MPO

NEPA/404 Merger Candidate?: Yes No To Be Determined

Feasibility Study Completed?: Yes No Date of Study: (R-2825) February 2002

<u>Project Schedule:</u>	<u>Type of Document:</u>	<u>Dates:</u>
Environmental Document(s):	EA	March 2018
	FONSI	March 2019
Right of Way Authorization Date:		FY 2021
Let Date:		FY 2023

<u>Cost Estimate:</u>	Construction:	Right of Way:	Utilities:	Total Cost:
TIP Estimate:	\$ 24,054,000	\$1,952,000	\$234,000	\$26,240,000
Current Estimate:				

*The STIP lists prior costs of \$2,500,000 for a total cost of \$28,740,000.

Design Criteria:

Length of Project: Approximately 2.6 miles

Right of Way: Existing: Variable
Proposed: 110 ft (estimated)

Type of Access Control: Existing: No control of access
Proposed: Partial control of access

Roadway Typical Section: Existing: I-40 to I-85: Varies
I-85 to Orange Grove Rd: 3 lanes
Orange Grove Rd to Eno River: 2 lanes undivided
Proposed: CTP: 4 lanes divided, bike lanes, and sidewalks

Speed: Existing Posted Speed: I-40 to I-85: 45 mph
I-85 to Eno River: 35 mph
Proposed Design Speed: 50 mph

Bridge/ Culvert Inventory: Bridge over Norfolk Southern Railroad, bridges at I-40 and I-85 interchanges, culverts along corridor

Functional Classification: I-40 to US 70 Bus: Minor Arterial
US 70 Bus to Eno River: Other Principal Arterial

Strategic Transportation Corridor Information: N/A

CTP/Thoroughfare Plan Designation (Facility Type): Major Thoroughfare

Air Quality Status: Non-attainment Maintenance Attainment

Horizon Completion Year (Long Range Trans. Plan): 2040 MTP,
2040+ CTP
Underway

Typical Section in Compliance with Conformity Determination? Yes No

<u>Traffic (AADT):</u>	Year	Range of Traffic	% TTST:
Current Year: (2015)	2014	17,000 vpd south of US 70 Business to 19,000 vpd north of US 70 Business	% Dual:
Design Year: (2040)	2040	Traffic forecast to be finalized 09/15/2016	% DHV:

Design Standards Applicable: AASHTO 3R

Railroad Involvement: S. Churton Street has a bridge over Norfolk Southern Railroad.

Utility Involvement: Large aerial and underground utilities are along S. Churton Street.

Other STIP Projects in the Area

STIP Project No.	Description	Right of Way Scheduled to Begin	Construction Scheduled to Begin
I-3306A	Widen I-40 to six lanes from I-85 to the Durham County line	FY 2022	FY 2024
P-5701	Construct platform, passenger rail station building, site access, utility and parking for Norfolk Southern Rail Station	N/A	FY 2019
U-5848	Extend Orange Grove Road from S. Churton Street to US 70 Business	FY 2021	FY 2023
<i>Hillsborough Traffic Separation Study</i>	Rail realignment and closing of at-grade crossing by Partin's Trailer Park		

Source: North Carolina Department of Transportation, *State Transportation Improvement Program (NCBOT Amended 2016-2025 STIP – August 2016)*

Preliminary Study Area Resources Inventory Table

Resource/Affected Environment & Measure	Applicability/ Resources in Study Area
General Project Information	
Length of project (approximate in miles)	Approximately 2.6 Miles
Crossing or Intersecting roadways (#)	2 – Interchanges: I-40 (Unsignalized) I-85 (Signalized) 6 – Signalized Intersections: SR 1009 at Waterstone Dr SR 1009 at Oakdale Dr SR 1009 at Cardinal Dr SR 1009 at Mayo St SR 1009 at Orange Grove Rd SR 1009 at US 70 Business 7 – Unsignalized Intersections: SR 1009 at Lafayette Dr SR 1009 at Millstone Dr SR 1009 at Daniel Boone St SR 1009 at Old Dogwood St SR 1009 at John Earl St SR 1009 Rebecca Dr (2)
Cultural Resources	
NRHP (and eligible sites, districts, other properties) (#)	Hillsborough Historic District
Human Environment	
Community Resources (#)	None
Public Parks/Section 4(f) Properties (#)	None
Greenways, Game Lands, Land and Water Conservation Fund Properties, Bicycle Routes, etc. (#)	Riverwalk is just north of the Eno River
Residential Properties (# potentially affected)	None anticipated
Business Properties (# potentially affected)	36
High % Special Populations (Low-income, Minority)	The Draft U-5845 Community Characteristics Report identified low-income and minority populations meeting the criteria for Environmental Justices in the vicinity of the project. Impacts are not anticipated.
Natural Environment	
Streams (# of stream crossings)	15 features within study area. 3 stream crossings – Cates Creek and 2 UT crossings. Potential linear impact
Floodplain crossing	Yes
Wetlands (est. acres)	0.7 acres within study area. Potential impacts near I-40 Westbound Ramps
Ponds (est. acres connected to jurisdictional waters)	0.2 acres within study area. No impacts expected
Critical Water Supply Watersheds	None
Riparian Buffer Rules apply	Eno River buffer zone
Outstanding Resource Waters / High Quality Resource Waters	None
303(d) Listed Streams	None
Identified Critical Habitat/ESA Spp. (# known)	Unknown at this time, but none expected
Physical Environment	
Hazardous Materials (# suspected/known sites)	14 potential sites along corridor (9 leaking underground storage tanks, 3 underground storage tanks, 1 historic cleaners, 1 historic auto station)
Utilities	Overhead and underground, including a power transmission line crossing S. Churton Street south of Orange Grove Rd
Active agriculture (Voluntary Agricultural District)	No VADs present in project corridor
FEMA Buyout Properties	No

NOTES: This table is intended to be used in conjunction with the Environmental Features Map.

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Preliminary

<u>TIP No.:</u>	U-5848	<u>Sent Date:</u>	August 24, 2016
<u>WBS No.:</u>	50237.1.1	<u>Revision Date:</u>	
<u>Federal Aid No:</u>	N/A	<u>Meeting Date:</u>	September 22, 2016
<u>Division:</u>	7		
<u>County:</u>	Orange		

Project Description: Extend Orange Grove Road from S. Churton Street to US 70 Business

General Project Need: Improve mobility and connectivity through south Hillsborough

Metropolitan / Rural Planning Organization: Durham-Chapel Hill-Carrboro MPO

NEPA/404 Merger Candidate?: Yes No To Be Determined

Feasibility Study Completed?: Yes No Date of Study:

<u>Project Schedule:</u>	<u>Type of Document:</u>	<u>Dates:</u>
Environmental Document(s):	EA	March 2018
	FONSI	March 2019
Right of Way Authorization Date:		FY 2021
Let Date:		FY 2023

<u>Cost Estimate:</u>	<u>Construction:</u>	<u>Right of Way:</u>	<u>Utilities:</u>	<u>Total Cost:</u>
TIP Estimate:	\$ 4,104,000	\$1,067,000	\$128,000	\$5,299,000
Current Estimate:				

*The STIP lists prior costs of \$500,000 for a total cost of \$5,799,000

Design Criteria:

Length of Project: Approximately 0.4 miles

Right of Way: Existing: 60 ft
 Proposed: 90 ft (estimated)

Type of Access Control: Existing: No control of access
 Proposed: Partial control of access

Roadway Typical Section: Existing: Two-lane undivided
 Proposed: CTP: Two-lane undivided, 4 ft shoulders, and sidewalks

Speed: Existing Posted Speed: 35 mph (west of S. Churton Street)
 Proposed Design Speed: 40 mph

Bridge/ Culvert Inventory: None

Functional Classification: Major Collector (west of S. Churton Street)

Strategic Transportation Corridor Information: N/A

CTP/Thoroughfare Plan Designation (Facility Type): Boulevard (proposed extension)
 Minor Thoroughfare (west of S. Churton Street)

Air Quality Status: Non-attainment Maintenance Attainment

Horizon Completion Year (Long Range Trans. Plan): 2040 MTP,
 2040+ CTP
 Underway

Typical Section in Compliance with Conformity Determination? Yes No

Traffic (AADT):	Year	Range of Traffic	% TTST:
Current Year:	2013	3,700 vpd near S. Churton Street, 7,600 vpd near Eno Mountain Road	% Dual:
Design Year:	2040	Traffic forecast to be finalized 09/15/2016	% DHV:

Design Standards Applicable: AASHTO 3R

Railroad Involvement: The proposed extension will cross the Norfolk Southern railroad near US 70 Business.

Utility Involvement: Large aerial and underground utilities are along US 70 Alternative.

Other STIP Projects in the Area

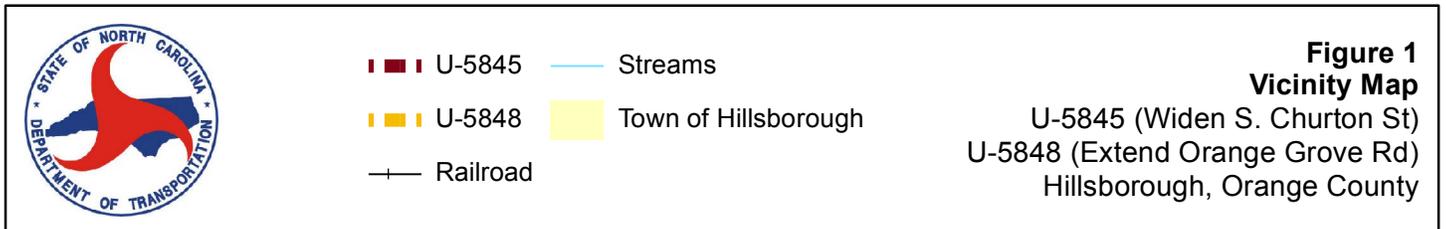
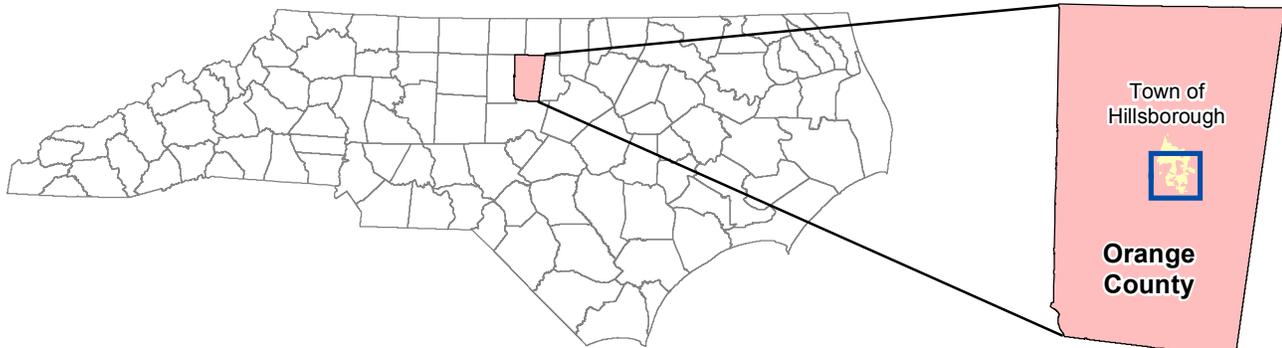
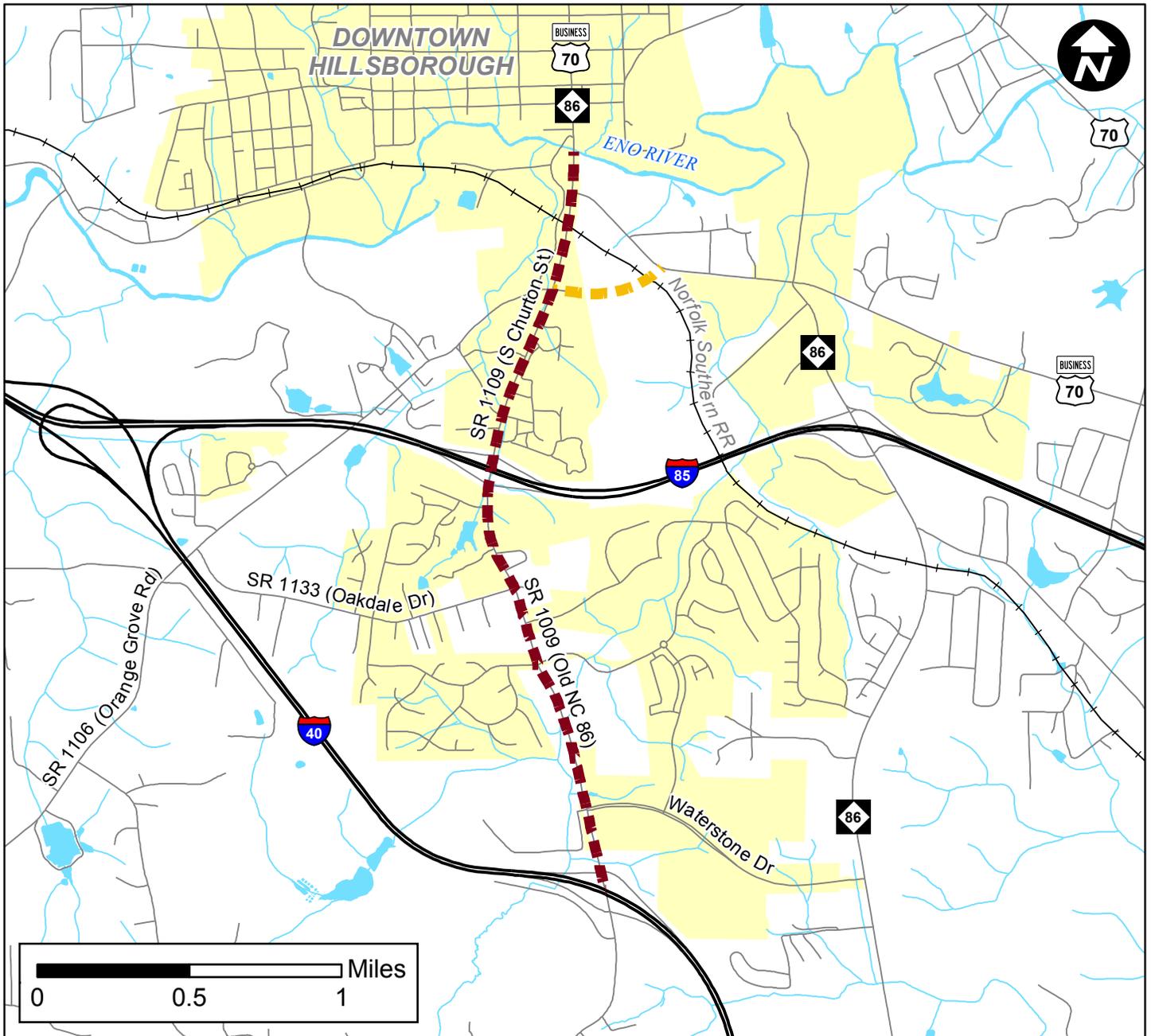
STIP Project No.	Description	Right of Way Scheduled to Begin	Construction Scheduled to Begin
I-3306A	I-40 from I-85 to NC 147, widen to six lanes and install ITS	FY 2023	FY 2024
P-5701	Construct platform, passenger rail station building, site access, utility and parking for Norfolk Southern Rail Station	N/A	FY 2019
U-5845	Widen S. Churton Street from I-40 to Eno River	FY 2021	FY 2023
<i>Hillsborough Traffic Separation Study</i>	Rail realignment and closing of at-grade crossing by Partin's Trailer Park		

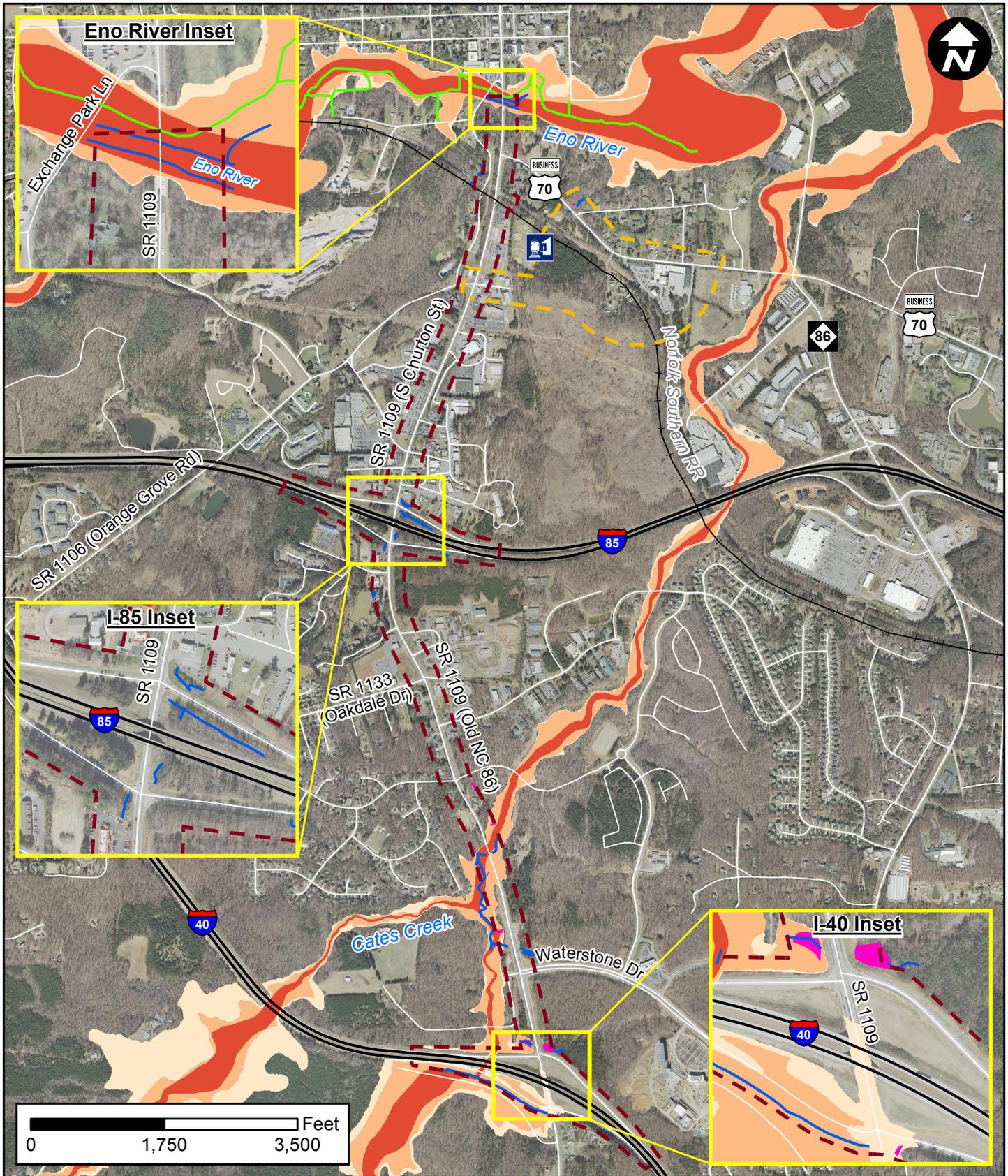
Source: North Carolina Department of Transportation, *State Transportation Improvement Program (NCBOT Amended 2016-2025 STIP – August 2016)*

Preliminary Study Area Resources Inventory Table

Resource/Affected Environment & Measure	Applicability/ Resources in Study Area
General Project Information	
Length of project (approximate in miles)	Approximately 0.4 Miles
Crossing or Intersecting roadways (#)	Proposed to intersect with S. Churton Street and US 70 Business
Cultural Resources	
NRHP (and eligible sites, districts, other properties) (#)	Hillsborough Historic District
Human Environment	
Community Resources (#)	None
Public Parks/Section 4(f) Properties (#)	None
Greenways, Game Lands, Land and Water Conservation Fund Properties, Bicycle Routes, etc. (#)	Riverwalk is just north of the Eno River
Residential Properties (# potentially affected)	None anticipated
Business Properties (# potentially affected)	8
High % Special Populations (Low-income, Minority)	<p align="center">Mobile home park near the potential intersection of proposed extension and US 70 Business; proposed rail project will purchase mobile homes prior to construction of Project U-5848</p> <p align="center">The Draft U-5848 Community Characteristics Report identified low-income populations in the vicinity of the proposed project corridor.</p>
Natural Environment	
Streams (# of stream crossings)	No stream crossings
Floodplain crossing	No
Wetlands (est. acres)	Less than 0.1 acres within study area. No impacts expected
Ponds (est. acres connected to jurisdictional waters)	None
Critical Water Supply Watersheds	None
Riparian Buffer Rules apply	Eno River buffer zone
Outstanding Resource Waters / High Quality Resource Waters	None
303(d) Listed Streams	None
Identified Critical Habitat/ESA Spp. (# known)	Unknown at this time
Physical Environment	
Hazardous Materials (# suspected/known sites)	2 potential sites within study area (1 leaking underground storage tank and 1 hazardous substance disposal (brownfield) site)
Utilities	Overhead and underground at project termini
Active agriculture (Voluntary Agricultural District)	No VADs present in project corridor
FEMA Buyout Properties	No

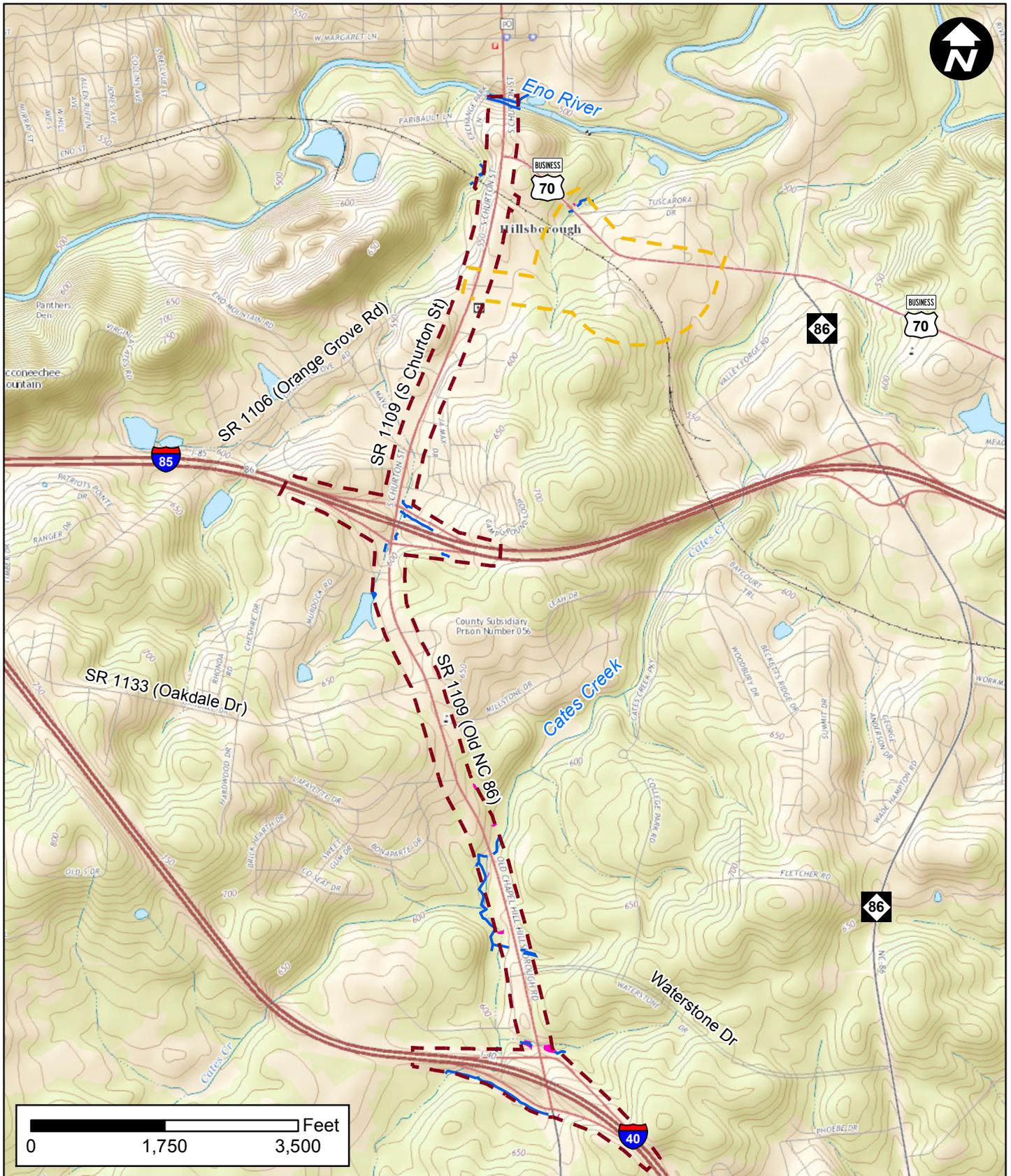
NOTES: This table is intended to be used in conjunction with the Environmental Features Map.





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|-------------------|--------------------|-------------------|
| U-5845 Study Area | Riverwalk | 500-yr Floodplain |
| U-5848 Study Area | Delineated Stream | 100-yr Floodplain |
| P-5701 | Delineated Wetland | Floodway |

Figure 2
Environmental Features Map
 U-5845 (Widen S. Churton St)
 U-5848 (Extend Orange Grove Rd)
 Hillsborough, Orange County



- - - U-5845 Study Area
- Delineated Stream
- - - U-5848 Study Area
- Delineated Wetland

Figure 3
USGS Map
 U-5845 (Widen S. Churton St)
 U-5848 (Extend Orange Grove Rd)
 Hillsborough, Orange County